

# Application to DHCD Submitted through CAMS

Cumberland Plateau PDC

Cumberland Plateau Universal Broadband

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**Application ID:** 86509062021094859

**Application Status:** Pending

**Program Name:** Virginia Telecommunications Initiative 2022

**Organization Name:** Cumberland Plateau PDC

**Organization Address:** 224 Clydesway Drive  
Lebanon, VA 24266-0548

**Profile Manager Name:** Jim Baldwin

**Profile Manager Phone:** (276) 889-1778

**Profile Manager Email:** jimbaldwin@bvu.net

**Project Name:** Cumberland Plateau Universal Broadband

**Project Contact Name:** Jim Baldwin

**Project Contact Phone:** (276) 889-1778

**Project Contact Email:** jimbaldwin@bvu.net

**Project Location:** 224 Clydesway Drive  
Lebanon, VA 24266-2475

**Project Service Area:** Buchanan County, Dickenson County, Russell County, Tazewell County

**Total Requested Amount:** \$45,925,426.00

**Required Annual Audit Status:** Accepted

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## Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
<b>Telecommunications</b>	<b>\$45,925,426.00</b>	<b>\$13,424,000.00</b>	<b>\$59,349,426.00</b>
Construction	\$45,925,426.00	\$13,424,000.00	\$59,349,426.00
<b>Total:</b>	<b>\$45,925,426.00</b>	<b>\$13,424,000.00</b>	<b>\$59,349,426.00</b>

### Budget Narrative:

This project provides universal broadband coverage (95%+) to the counties of Buchanan, Dickenson, Russell and Tazewell. The application plans to serve 12,624 under or unserved passings for a total project cost of \$59,349,426. The average cost per passing is \$4,701.

## Questions and Responses:

### 1. Project Description and Need

Describe why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). Label map: Attachment 1 – Project Area Map.

### Answer:



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The four Cumberland Plateau counties are located in the Virginia coalfields and offer some of the most mountainous terrain in the state. This makes for a very challenging geography for infrastructure development, including telecommunications.

The Cumberland Plateau communities joined together in partnership with Bristol Virginia Utilities in the early 2000's to initiate an ambitious fiber optic backbone project to bring 21st century technology to its four member counties. As a result, through some \$60 million in federal and state funding, a robust fiber network was built over about a six-year period that enabled two major new telecommunications giants, CGI and Northrup Grumman, to locate in the District.

As a result of the purchase of BVU Authority in 2018 by Point Broadband, the CP/Point system can now offer residential service, something that was prohibited by EDA prior to the purchase. Because of this unique partnership, the Cumberland Plateau Board of Directors identified this district-wide project service area as the best avenue to provide high-speed IT services to a major portion of the unserved and underserved communities in the District. With schools and businesses struggling in the middle of the COVID-19 pandemic, the need for virtual learning and telework opportunities in this rural community is critical.

In Buchanan County, this project covers communities in and around Hurley southwest along the Kentucky state line to US 460 including all or parts of routes 645, 644, 691, 745, 650, 676 and associated lateral county roads along these routes as shown in the map. Northern routes off of Route 83 including all or parts of Hurley Rd, Mid Branch Rd, routes 674, 642, 3060, 716, 701, 3085, 653 and 643 and associated lateral county roads along these routes as shown in the map. Areas south of Vacey and Prater including all or parts of routes 604, 707, 673, 658, 606, 718, 4085, 729, 612, Gent Branch Road, Mott Branch Road, Devil Branch Road, Big Fork, Bamboo Road, Vance Branch Road, 627, 620, 3275, 657, 612, 3295, 620, 625, 603, 679, 681, 600, 663 and associated lateral county roads along these routes as shown in the map. East and west of US 460 from the Tazewell County line around Jewell Ridge, Whitewood, Shortt Gap including all or parts of routes 64, 632, 618, 5343, 629, 635, 5503, 680, 638, 690 and associated lateral county roads along these routes as shown in the map.

In Dickenson County it covers communities in and around Bearpen southwest towards Wise County and northeast towards Blowing Rock and Skeetrock including all or parts of routes 624, 631, 630, 361, 83, 611, 754, 742, 611, 653, 620, 840, 619, 770 695, 647, 739 and associated lateral county roads along these routes as shown in the map. In and around Haysi & Birchleaf to the north and south including all or parts of routes 732, 80, 83, 652, 607 668, 667, 652, 669, 892, 722, 652, 668, 607, 9650, 678, 810, 605, 606, 797, 764, 671, 712 and associated lateral county roads along these routes as shown in the map.

In Russell County it serves communities in and around Copper Creek, Hawkins Mill, Hansonville, Willis, Barnett, Elk Garden, Dry Branch, Dickensonville, Finney, Honaker, Big A Mountain, Back Valley, Clarks Valley including all or parts of routes 636, 633, 634, 80, 646, 651, 621, 650, 640, 736, 692, 1084, 621, 603, 619, 658, 872, 891, 737, 658, 71, 1008, 675, 793, 657, 767, 676, 613, 677, 675, 58, 669, 702, 668, 609, 604, 683, 604, 693, 682, 849, 611, 607 and associated lateral county roads along these routes as shown in the map.

In Tazewell County it serves communities in and around Wardell, Paintlick, Pounding Mill, Bandy, Bishop, Amonate, Cedar Bluff, Claypool Hill, Busthead, Maxwell, Adria, Wittens Mills, Tiptop Springville including all or parts of routes 696, 658, 702, 643, 656, 650, 653, 655, 762, 656, 460 649, 651, 645, 635, 16, 830, 643, 644, 641, 624, 637, 626, 636, 637, 699, 608, 712, 627, 609, 739, 770, 609, 610, 738, 603, 369, 811 and associated lateral county roads along these routes as shown in the map.

This project brings together many parts of unserved or underserved rural communities across 4 counties. Leveraging the partnership of the PDC and being able to see past county lines allows this project to be competitive. Communities partnering together allow for a more efficient use of broadband funds. This project brings the four CPPDC counties of Buchanan, Dickenson, Russell and Tazewell to universal coverage.

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2. List existing providers in the proposed project area and the speeds offered. Please do not include satellite. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

**Answer:**

Verizon offers DSL service to most of the area. It is widely known that DSL does not offer a consistent and reliable bandwidth of 25/3. We have confirmed this thru customer contact, field audits and form 477 reviews. The closest primary cable provider for each area is as follows: Buchanan County - Spectrum; Dickenson County - Comcast; Russell County - Shentel; and Tazewell County - Spectrum. We have confirmed less than 10% overlap with their service and the project area. Scott County Telephone offers service in western Russell and Dickenson Counties and in the 2020 application challenge process identified areas where they have service and have avoided them. There is a small regional cable operator, Cable Plus, that serves small parts of the project area. Cable Plus does not file a 477 form and our research shows they are not able to offer consistent 25/3 service. Point Broadband (Sunset on the 477) does have backbone and middle mile in some of the project areas built by BVU (and show up on the 477), but we have removed any existing residential coverage from the project footprint. It is well established that the 477 is severely flawed and is one of the largest hurdles to serving some of the areas most in need. Point Broadband has received over 2000 service requests in and around the project area over the past 2 years. With the addition of the ARPA 100 x 20 Mbps guidance nearly all HFC (cable) providers will fail to meet the upload standard. Scott County Telephone is only other fiber provider in the footprint.

3. Describe if any areas near the project have received funding from federal grant programs, including but not limited to Connect America Funds II (CAF II), ACAM, ReConnect, Community Connect, and Rural Digital Opportunity Funds (RDOF). If there have been federal funds awarded near the project area(s), provide a map showing these areas, verifying the proposed project area does not conflict with these areas. Do not include areas awarded to satellite broadband providers. Label Map: Attachment 2 – Documentation on Federal Funding Area.

**Answer:**

Point Broadband accepted a CAF award for this area in 2019. Attachment 2 shows the the CAF areas shaded in green and the proposed VATI fiber build outside of those areas. The total CAF support over 10 years that is leveraged in this application is \$16,258,600. There are 5410 CAF passings associated with this award in the 4 counties in this application. By using a design and engineering approach that allows us to leverage the cost of the CAF build, we can complete the 12624 passings in the application for an average of \$1000 less per passing than doing them as a stand alone project. There is clearly no conflict with our CAF or RDOF awards. The CAF adds significant positive leverage to the cost of the project as a whole.

4. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF), excluding those awarded to satellite internet service providers, are included in the VATI application area. If RDOF areas awarded to terrestrial internet service providers are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 3 – RDOF Awarded Areas Form in VATI Area

**Answer:**

There are no identified RDOF CBG in the project area awarded to anyone other than Space X. Attachment 3 shows the Space X RDOF blocks.

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5. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds below 25/3 mbps and with less than 25% service overlap within the project area for wireless projects and 10% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

**Answer:**

We did a comprehensive review of the eligibility of the project area using the following tools and methods: review of the FCC 477 form, review of the CIT coverage mapping, review of the Southwest Virginia Broadband study, field review of pole attachments in the project area, door to door surveys within the project area and review of project area addresses on the cable provider website(s). The results of these efforts confirm the project area is primarily served by Verizon DSL and various satellite services. Our design is centered around avoiding overlap with the closest cable provider completely, and we are confident the overlap is less than the required 10% (1262 passings). Point Broadband may spend its own funds to build into those areas beyond the grant construction. Documentation of Unserved Area VATI Criteria is found in Attachment 4. There is overlap of less than 10% with providers who claim to offer 25/3 or higher, but nearly all lack the ARPA requirement of 100 x 20, and none can scale to 100 x 100 due to technological limitations of the HFC plant.

6. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 10 Megabits per second download and 1 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 5 – Passings Form.
- Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area. (Up to 10 points for businesses and community anchor institutions)
  - If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
  - If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections.
  - If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
  - Provide the number of passings in the project area that have 10/1 mbps or less. Describe the methodology used for these projections. (up to 15 points)

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- a. The passings form is attached with this information. Attachment 5
- b. The co-applicant does not have any RDOF passings in the project area. There appear to be ~159 RDOF passings that were bid on by Space X but their award has not been confirmed or announced by the FCC at this time. Attachment 3 shows the location of the Space X passings.
- c. All construction costs necessary for special drops are included in the application request.
- d. N/A
- e. Representatives from Point Broadband and CPPDC did a comprehensive review of the project area and determined the passings as defined by the categories on the Passings Form chart in Attachment 5. This included digital review, business license review, field audit, review with local leadership and review of county data for business and anchor institution existence. The business community in this project area is served well by the original BVU fiber that was constructed for economic development only. This is an opportunity to extend fiber to the home in rural SWVA. Given that we identified the primary provider for the project area is Verizon DSL, we feel that an overwhelming majority of the project has 10/1 or less. Verizon DSL advertises a range of service on the FCC 477 form from 1.5/.512 to 60/5. We can find no evidence of any DSL ever providing speeds of 60/5. Our field audit has the average DSL speed at less than 10/1. We feel that there are approximately 11413 of the 12624 passings that are at 10/1 or less (DSL or satellite options only). There is overlap of less than 10% with providers who claim to offer 25/3 or higher, but nearly all lack the ARPA requirement of 100 x 20, and none can scale to 100 x 100 due to technological limitations of HFC plant.

Dickenson =	2202
Buchanan=	4876
Russell=	2245
<u>Tazewell=</u>	<u>3301</u>
<b>CPC Total=</b>	<b>12624</b>

- 7. **For wireless projects only:** Please explain the ownership of the proposed wireless infrastructure. Please describe if the private co-applicant will own or lease the radio mast, tower, or other vertical structure onto which the wireless infrastructure will be installed.

**Answer:**

NA

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8. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 25/3 mbps. (up to 10 points)

**Answer:**

## Package Name & Speed

## Package Price per Month

Lite 25 Mbps X 25 Mbps

\$ 54.95

Basic 50 Mbps x 50Mbps

\$ 65.95

Perform 100 Mbps x 100 Mbps

\$ 70.95

Performance Plus 200 Mbps x 200 Mbps

\$ 80.95

Ultra 500 Mbps x 500 Mbps

\$ 100.95

Extreme 1 Gbps x 500 Mbps

\$ 130.95

9. Network Design: Provide a description of the network system design used to deliver broadband service from the network's primary internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map. Label Map: Attachment 6 – Propagation Map Wireless Project.

**Answer:**

Point Broadband of Bristol, Virginia operates a Gigabit Passive Optical Network (GPON) to deliver triple play services to the communities of Southwest Virginia. GPON has the advantage of being able to support multiple users through a single optical fiber reducing equipment and satisfying both high density and rural areas (GPON.com, n.d.). Furthermore, Wang Zhaoqing of the IEEE denotes, "besides the transmission

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characteristics of good quality, large capacity, and long distance, GPON has the advantages of low maintenance cost, high confidentiality, and strong anti-jamming capability” (Zhaoqing, 2011). The following sections describe how Point Broadband uses this technology to provide superior broadband service to the consumers of Southwest Virginia.

Point Broadband’s broadband Internet services originate from two geo-redundant locations at Equinix in Ashburn, Virginia, and Digital Realty in Atlanta, Georgia. Within each diverse location Point Broadband is provided access to the Internet from both XO Communications, and Level3 (CenturyLink) service providers. Furthermore, the customer experience is enhanced by the connection to each location’s Internet Peering Exchange (Equinix Internet Exchange, Digital Realty Internet Exchange). An Internet exchange allows Internet Service Providers (ISPs) to directly interconnect networks and exchange Internet Protocol (IP) traffic. The exchanges provide the Point Broadband end user with a lower latency network, and increased redundancy through the availability of more paths and improved routing.

Traveling from each redundant location, for increased reliability Point Broadband has chosen transport partners offering three diverse paths over 10 Gigabit fiber links. For example, from the origination point in Atlanta, traffic is delivered through one of two 10 Gigabit paths of which both terminate in the Central Office located in Bristol, VA. Ashburn traffic passes through a 10 Gigabit path and terminates at Point Broadband’s Disaster Recovery Point of Presence located in Wytheville, VA. Each of the 10 Gigabit optical paths from Atlanta terminate into an edge routing device.

The 10 Gigabit transport data terminating in Wytheville travels along Point Broadband’s Dense wavelength division multiplexing (DWDM) fiber ring. The implementation of the DWDM ring affords Point Broadband the ability to transport high capacity, low latency, protected broadband data amongst 19 different POP locations. The ring allows for the East/West flow of up to 200 Gigabits per second. Customer traffic from Ashburn to Wytheville travels along this ring, finally terminating at Bristol’s North POP on another edge routing device. The edge routing devices provide another distinct advantage to customers through the connection of content caching servers implemented from large providers like Google. Caching servers save both Point Broadband and the consumers from having traffic return to their origination points for content. By traffic not having to continuously flow back to the origin it decreases the overall bandwidth required at the origination point (Atlanta or Ashburn).

Point Broadband’s protection and redundancy continues as traffic from each edge router flows into one of two Service Router devices. These devices, one located within the Bristol CO, and the other at the North POP are interconnected with each other through a 20 Gigabit Link Aggregation Group (LAG). The multiple chassis along with the LAG (MC-LAG) allow for more efficient use of bandwidth and sub-second failover in case one of the two chassis were to fail. Each service router uses a physical port or more to feed the customer facing network or Optical Line Termination (OLT).

The OLT is the origination point for the definition of the GPON network as described previously. OLTs much like network switches contain cards with ports; each port represents a PON. 10 Gigabits of available

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broadband traffic is spread amongst cards containing from four to eight individual PON ports. Point Broadband has chosen to keep the customer per PON ratio in the customer's favor for a 32 to 1 standard. This standard means simply Point Broadband allows up to 32 customers per PON port. This is in direct comparison to the 64 or even 128 to 1 ratio, which reduces the overall bandwidth capabilities to each customer. Traffic flows from these PON ports connecting to a passive optical splitter located close to the customer within a fiber cabinet. Each of the 32 splitter ports connects directly to a customer premise device or Optical Network Terminal (ONT). ONTs are attached directly to the customer's home or business. A single fiber connects to the ONT and from the ONT Category 3, Category 5/6 Ethernet, and even Radio Frequency connections are available. The ONT facilitates the transmission of data into customer's devices such as telephones, computers, routers, and video devices. Each customer can receive up to a 1 Gigabit per second service.

Sources GPON.com. (n.d.). Why GPON. Retrieved from Gigabyte Passive Optical Network (GPON): <http://www.gpon.com/why-gpon> Zhaoqing, W. (2011). Research on the Application of GPON Technologies.

Retrieved 12 13, 2018, from <http://ieeexplore.ieee.org/xpl/abstractauthors.jsp?reload=true&arnumber=5957468&punumber=5955409>

10. Explain how the proposed project achieves universal broadband coverage for the locality or fits into a larger plan to achieve universal broadband coverage for the locality. If applicable, explain the remaining areas of need in the locality and a brief description of the plan to achieve universal broadband coverage. (up to 50 points)

**Answer:**

This application identifies and addresses all remaining under or unserved passings in the following counties and provides universal coverage for : Buchanan, Dickenson, Russell and Tazewell. This is a result of a review of existing projects (VATI 2019 & 2020, CAF, RDOF, 2020 CARES ACT), field audits of existing providers and review of FCC 477 maps, and CIT coverage maps. Our 2020 award chronicled much of the existing covered area and allowed us to efficiently identify the remaining passings.

11. **Project Readiness**

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 20 points)

**Answer:**

This project is designed to be constructed on a 24 month construction schedule. Preliminary engineering has been completed for the project. All poles have been identified and pole permit applications are ready to be submitted upon award. The applicant and co-applicant have an operating agreement in place and it is attached as Attachment 8. Attachment 7 is the project plan for the 24 month schedule. Upon award, field walkout will commence and that data will be used for final design. ROW clearing and aerial strand installation will begin within 30 days of contract execution.

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12. Has the applicant or co-applicant received any VATI grants? If so, provide a list of these grants, with a detailed summary of the status of each.

**Answer:**

The applicant and co-applicant have received 2 VATI awards. Point as co-applicant has received a 3rd award.

1. 2019 award - Davenport - This project is complete and the final reimbursement submission is ready to submit. The project will be closed out in Q4 2021. It served approximately 489 new passings and currently has 215 active customers. Total project budget was \$755,203.
  2. 2020 award - CPC - This project contract was signed in August of 2021 and plans to serve 8003 passings on a total project budget of \$27,417,719. Field engineering, walkout and ROW clearing has begun and the first passings are expected to be activated for marketing in November 2021.
  3. 2020 award - Mount Rogers - Point Broadband is the co-applicant with the Mount Rogers PDC. This project contract was signed in August of 2021 and plans to serve 5301 passings on a total project budget of \$14,361,233. Field engineering, walkout and ROW clearing has begun and the first passings are expected to be activated for marketing in November 2021.
13. Matching funds: Complete the funding sources table indicating the cash match and in-kind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding

**Answer:**

The Cumberland Plateau Company, 501(c)4 arm of the CPPDC, and its 4 member counties are contributing \$400,000 (with an additional \$400,000 pending) to the project. The remaining matching funds of \$12,624,000 will come from the co-applicant, Point Broadband via private funds. See Attachments 8 and 9. Point Broadband's balance sheet is provided. Audited financial statements are available if needed but will require a FOIA exemption. The applicant, along with leadership from Buchanan, Dickenson, Russell, and Tazewell counties, will provide in-kind services relating to grant management, easement acquisition, permit acquisition, digital literacy efforts and local event organization for customer sign up. A letter is included in Attachment 10 documenting CPC's financial commitment.

14. Leverage: Describe any leverage being provided by the applicant, co-applicant, and partner(s) in support of the proposed project. (up to 10 points)

**Answer:**

The Cumberland Plateau Company, 501(c)4 arm of the CPPDC, and its 4 member counties are contributing \$400,000 (with an additional \$400,000 pending) to the project. Point Broadband accepted a CAF award in 2019 and an RDOF award in 2021 for this region, and specific areas adjacent to the project area. The total CAF support over 10 years that is leveraged in this application is \$16,258,600. By using a design and engineering approach that allows us to leverage the cost of the CAF build, we can add these remaining 12,624 under and unserved passings to achieve universal coverage for 4 of the most rural counties in the Commonwealth. These remaining 12,624 passings on their own would cost an estimated 35% more to construct. By leveraging the CAF & RDOF awards, we can bring the cost per passing down by over \$1000. This allows the aggregate 14019 passings to be economically feasible when leveraged with the private funds of Point Broadband and the VATI program. By combining Point's previous VATI awards, CAF award and RDOF award and leveraging them with the private investment of Point Broadband and the municipal participation of the CPC and their member counties, universal broadband for Buchanan, Dickenson, Russell and Tazewell Counties by the end of 2024 is a reality.

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Marketing: Describe the broadband adoption plan.

a. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points)

b. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

## Answer:

Point Broadband's strategic marketing plan is based upon our unique selling proposition of Fiber to the Home. Using this core strategy, we will differentiate our company, products and services significantly enough to achieve and exceed our planned market share. Our objective is to consistently deliver the fastest, most reliable high-speed internet service with best in class customer service as we build and promote our brands as quality based. We aim to gain customers through the strength of our fiber to the premise network and the benefit of doing business with a local company.

Our approach is to completely alter the local landscape of telecommunications services. We are not a cable company or a telephone company. We are a fiber broadband company. We are the "experts" in this industry.

Our goal is to be known as an active local community asset, both commercially and charitably. We achieve this by maintaining a year around awareness of community events in each territory, contributions to specific educational or cultural programs and our own self-promotional events. Realistically, when breakdowns do occur, we will be known as the company who responds with alacrity and integrity, taking responsibility and fixing the problem graciously. It is all about service, and we are specially trained to serve.

## Marketing Strategy/Marketing Communications

At Point Broadband, we compete against telecommunications, ISP's and entertainment companies. To win and keep customers we must focus on our distribution channels and service goals. Our most critical tactical tool is our people – they understand that in every interaction they have with the customer, they determine Point Broadband's success. We support them with the following concrete tactical tools.

### Digital Advertising:

Point Broadband will optimize its brand presence using digital media, SEO, SEM and Social Media. Strategic email campaigns will be used to target B2B clients and SMS messaging will be used to target residential customers.

### Print Advertising

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1. Direct Mail: utilizing targeted mailing areas we will utilize direct mail to announce new service areas and special promotions to drive in-bound potential customer activity.

2. Newspaper: Promotion and seasonal driven, Point Broadband supports local direct mail and radio promotions with tactical newspaper ads to enhance the promotion.

## Advertising

1. Television: both Point Broadband focused and coop advertising on local broadcast stations as well as cross channel on cable inventory will be used to create awareness and promote offers to drive in-bound activity.

## Event Marketing

1. Upon the launch of a particular area Point Broadband will send direct mail to each newly serviceable address inviting the residents to a local community event where they can learn about all products and services provided by Point Broadband and will have the opportunity to order service at that time as well.

2. Community events are key to Point Broadband's success in converting customers and supporting the local community. Each event, both commercial and residential will be staffed with quality brand ambassadors who can answer questions and sign up new customers.

3. B2B events will be scheduled and coordinated with local chambers of commerce, business groups, networking events, industry specific events etc....

4. Residential Community events will be scheduled and held in centralized area locations such as; Volunteer Fire Departments, Convenience Stores, etc.

## Direct Sales

1. Direct sales: Our Door-to-Door sales program is designed to sell based on value and addressing the customer's needs. Upon the launch of a new area, Point Broadband's street force penetrates new build areas and makes in person presentations. Our Business Account executives focus on high value commercial & enterprise customers with strong revenue potential with long term relationships.

## Digital Literacy Efforts

Point Broadband is committed to promoting and marketing digital literacy programs provided by the Applicant and the counties. DLP options may include County Library online programs, agricultural-based DLP education from the county's Agricultural Cooperative Extension office and DLP courses offered through the public school systems in each county. **Point Broadband is a participant in the Federal Emergency Broadband Benefit program (EBB) and it allows for a \$50 credit towards internet service for qualifying distressed house**

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## Anticipated Take Rate

Point Broadband has built their financial model based on a 60% take rate over a 36-month period post construction. This is based on our tracking of sign ups in rural projects with similar demographics in the past 2 years. We completed the Treadway project in 2019 in rural Tennessee. There were 1046 total passings and we have 685 total customers in the project cabinets as of 7/1/2020 (65%). Our Cove Creek project in Tazewell County, VA, was completed in May 2020 and added 155 new passings. We have 68 customers there as of 7/1/2020, (43%), in less than 100 days post construction.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities. Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality. Attachment 11 – Letters of Support.

### Answer:

Name

Title & Organization

Duties/Responsibilities

Background

Jim Baldwin

Executive Director – Cumberland Plateau PDC/CPC

All Applicant activities and coordinating leverage assistance including but not limited to community promotion, mapping, permitting and digital literacy campaigns.

Nearly 50 years of experience in the Cumberland Plateau PDC in grant management, and 20 years in constructing fiber backbone and wireless 4G projects.

Joseph Puckett

Regional General Manager – Point Broadband

SWVA/NET

Overall project deliverable for the co-applicant.

10 years of management across multiple industries, including 3 years of leadership in the telecommunications industry in this market.

Noah Maden

General Manager – Point Broadband

Grant reimbursement, tracking and reporting.

15 years of operations experience in the telecommunications industry.

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Cumberland Plateau PDC

Cumberland Plateau Universal Broadband

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Mark Alldredge

Director of OSP Engineering – Point Broadband

All engineering, final design and permitting for the project.

25 years of engineering and design experience in the telecommunications industry.

Tim Nutter

Construction Supervisor – Point Broadband

All construction activities including but not limited to project schedule, planning and execution.

16 years of construction management experience in the telecommunications industry.

Taylor Nipper

VP of Marketing – Point Broadband

All marketing activities associated with customer acquisition.

25 years of marketing and sales experience in the telecommunications industry.

Attachment #11 has all letters of support.

## 17. **Project Budget and Cost Appropriateness**

Budget: Applicants must provide a detailed budget that outlines how the grant funds will be utilized, including an itemization of equipment, construction costs, and a justification of proposed expenses. If designating more than one service area in a single application, each service area must have delineated budget information. For wireless projects, please include delineated budget information by each tower. Expenses should be substantiated by clear cost estimates. Include copies of vendor quotes or documented cost estimates supporting the proposed budget. Label Attachments: Attachment 12 – Derivation of Costs; Attachment 13 - Documentation of Supporting Cost Estimates. (up to 10 points)

### **Answer:**

Point Broadband has completed a detailed cost estimate based on preliminary engineering and design. The cost estimate is based on the data in Attachment 13 and Attachments 12 is based on that cost estimate.

18. The cost benefit index is comprised of state cost per unit passed. Individual cost benefit scores are calculated and averaged together to create a point scale for a composite score. Provide the following:
- Total VATI funding request
  - Number of serviceable units  
(up to 125 points)

### **Answer:**

- \$45,925,426
- 12,624

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Cumberland Plateau Universal Broadband

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## 19. Commonwealth Priorities (Up to 40 points)

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following:

- a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.
- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps.

### Answer:

A. There were 333 Businesses, Anchor Institutions and others were identified in the passings form. This was a combination of field audit, online review, and review with local leaders. There were 3 community centers that will receive free data service for at least 1 year. There were over 80 places of worship that also often serve as community shelters in times of disaster. We identified 104 businesses and at least 18 home-based businesses. Lack of access to broadband often is the prohibiting factor to a home-based business, as well as working from home.

Point Broadband has submitted the project shape files to AEP for consideration as a project in the pilot program created by HB 2691. The Cumberland Plateau Company, 501(c)4 arm of the CPPDC, and its 4 member counties are contributing \$800,000 to the project. Point Broadband is leveraging its existing backbone and middle mile infrastructure, cost synergies from builds receiving funds from 2 federal programs and to lower the cost per passing for 12,624 addresses currently under and unserved.

Point Broadband offers our lifeline data package at 25/25 for \$54.95. Point Broadband will also offer a year of free data service to community centers in the project area and first responders in the project area. We also have a discount program for faith-based organizations within the project area that allow them the upload speed to broadcast their services online. Point Broadband also provides at least one free Wi-Fi hotspot within each county in the project area. CPC has partnered with Point to provide at least eleven (11) more hotspots at no cost to localities. Point Broadband is a participant in the federal EBB assistance program that offers a \$50 monthly credit for qualifying distressed households to apply to their broadband billing.

# Application to DHCD Submitted through CAMS

Cumberland Plateau PDC

Cumberland Plateau Universal Broadband

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## 20. Additional Information

Provide the two most recent Form 477 submitted to the FCC, or equivalent, as well as point, polygon, and, for wireless providers, RSSI shapefiles for the project area **in .zip file form**. With attachments 17 through 20, attach any other information that the applicant desires to include. Applicants are limited to four additional attachments.

Label Additional Attachments as:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 16 - For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 17 – XXXXXXXX
- e. Attachment 18 – XXXXXXXX
- f. Attachment 19 – XXXXXXXX
- g. Attachment 20 – XXXXXXXX

**Answer:**

NA

## **Attachments:**

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap914202110813.pdf

Documentation of Federal Funding (CAF/ACAM/USDA/RDOF, etc...) in and/or near proposed project area.

Attachment2DocumentationofFederalFundingArea914202110826.pdf

RDOF Awarded Areas included in VATI Application (Use template provided)

Attachment3RDOFAwardedAreasincludedinVATIapplication962021121221.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment4DocumentationUnservedAreaVATICriteria9142021121500.pdf

# Application to DHCD Submitted through CAMS

Cumberland Plateau PDC

Cumberland Plateau Universal Broadband

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Passings Form (Use template provided)

Attachment5PassingsForm96202112646.pdf

Timeline/Project Management Plan

Attachment7TimelineProjectManagementPlan910202124007.pdf

MOU/MOA between applicant/co-applicant (can be in draft form)

Attachment8MOUMOAbetweenapplicantcoapplicant96202114145.pdf

Funding Sources Table (Use template provided)

Attachment9FundingSourcesTable914202185522.pdf

Documentation of Match Funding

Attachment10DocumentationofMatchFunding962021123019.pdf

Letters of Support

Attachment11LettersofSupport9142021121844.pdf

Derivation of Cost/Project Budget (Use template provided)

Attachment12DerivationofCosts914202185459.pdf

Documentation of Supporting Cost Estimates

Attachment13DocumentationofSupportingCostEstimates9102021120420.pdf

Two most recent Form 477 submitted to the FCC or equivalent

Attachment14TwomostrecentForm477submittedtotheFCC9102021120354.pdf

Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area

Attachment15PointandPolygonShapefiles9142021123101.zip

Optional

Attachment17CommonwealthPrioritiesSWVABroadbandStudyandPlan962021123048.pdf

# Application to DHCD Submitted through CAMS

Cumberland Plateau PDC

Cumberland Plateau Universal Broadband

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Optional

Attachment182021PBBCommitmentletter914202185531.pdf

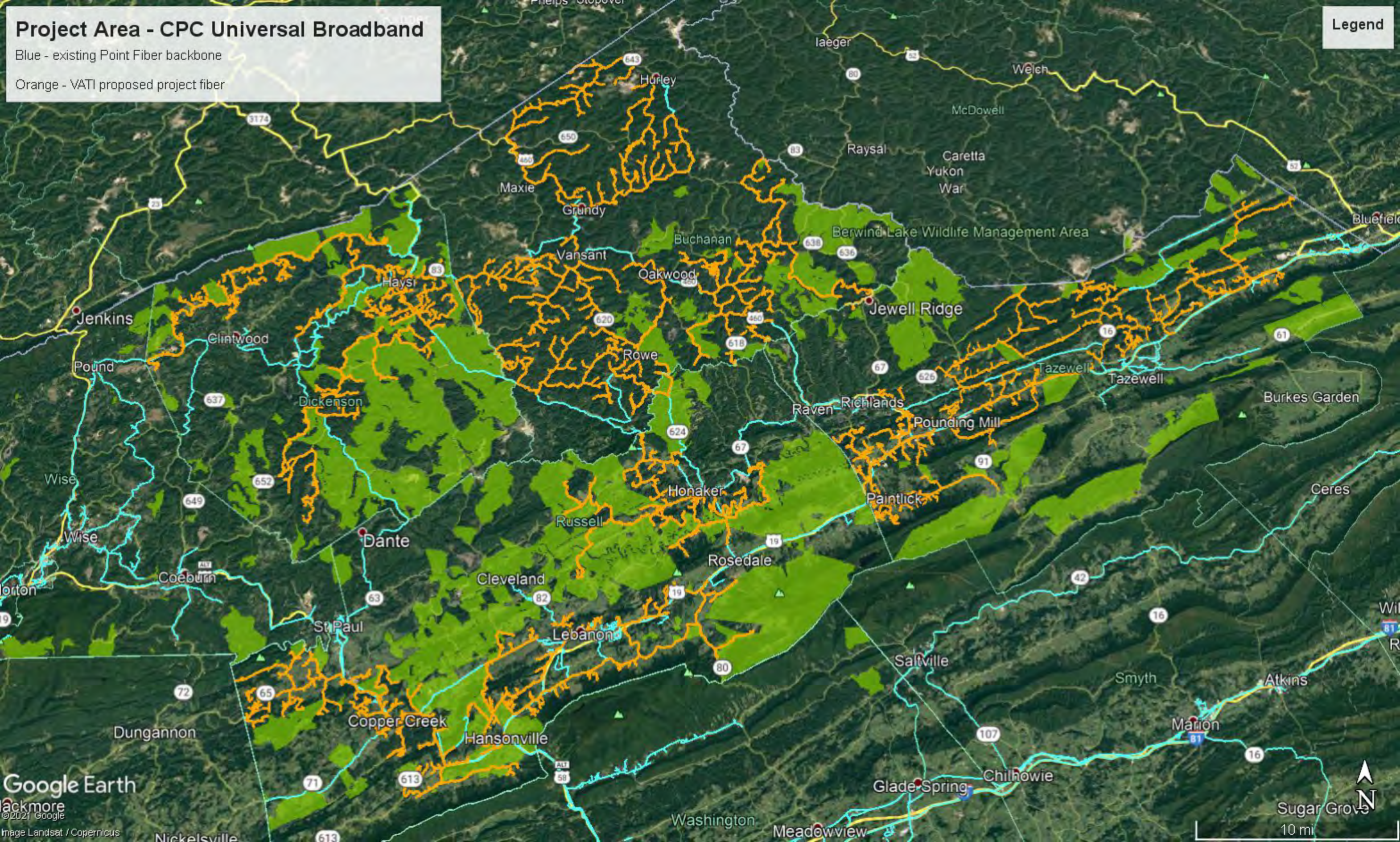


# Project Area - CPC Universal Broadband

Blue - existing Point Fiber backbone

Orange - VATI proposed project fiber

Legend





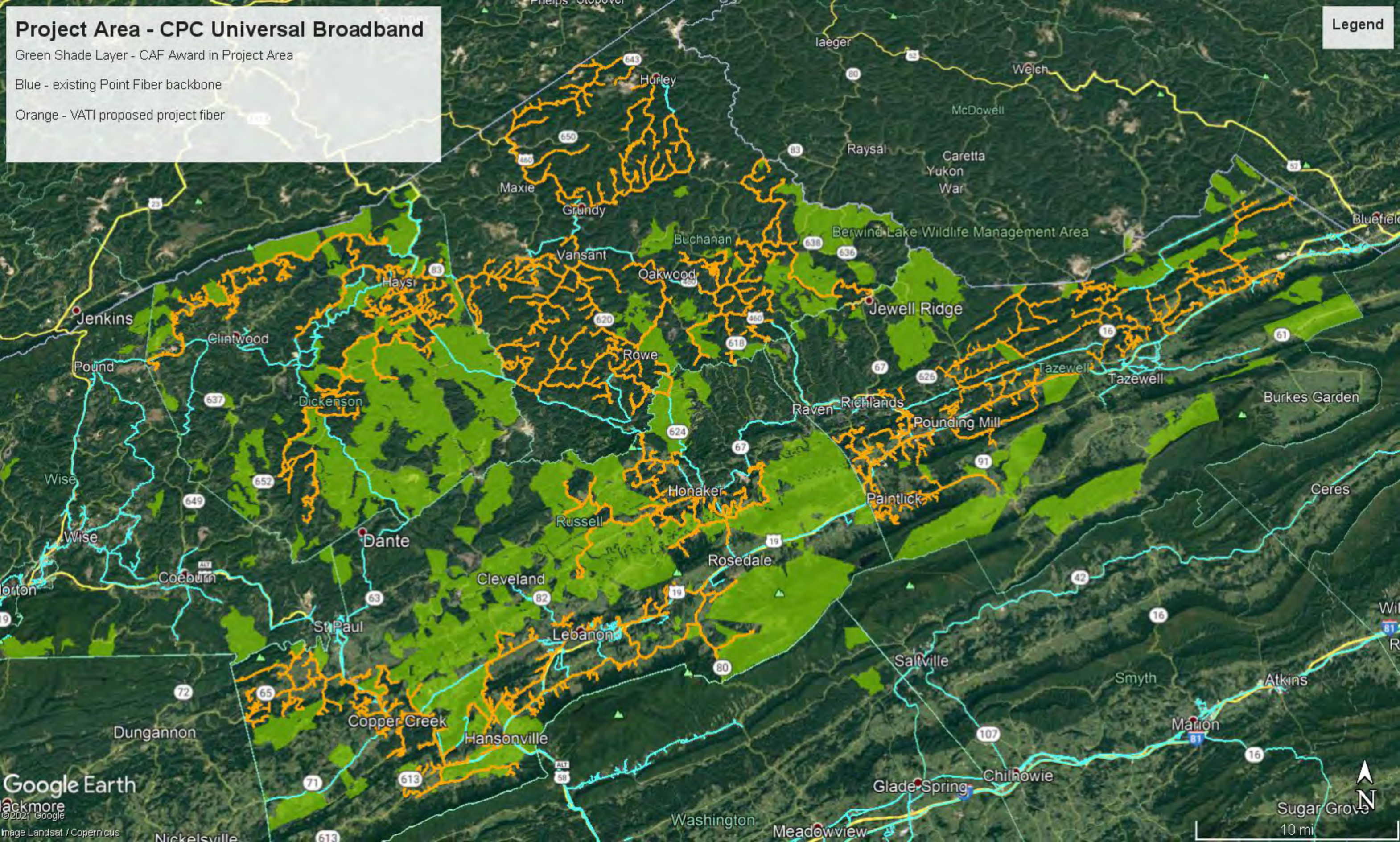
# Project Area - CPC Universal Broadband

Green Shade Layer - CAF Award in Project Area

Blue - existing Point Fiber backbone

Orange - VATI proposed project fiber

Legend





# 2022 Virginia Telecommunication Initiative (VATI) RDOF Passings Form

Type of Passings	Total Number of Passings in the Project Area that lie within Preliminarily Awarded RDOF Areas <sup>1</sup>
Residential	155
Businesses (non-home based)	0
Businesses (home-based)	0
Community Anchors	0
Non-residential	14
<b>Total Number of RDOF Passings</b>	<b>169</b>

*Note: The Total Number of RDOF Passings **MUST** be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.*

## Definitions

**Passing** – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

**Business** – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

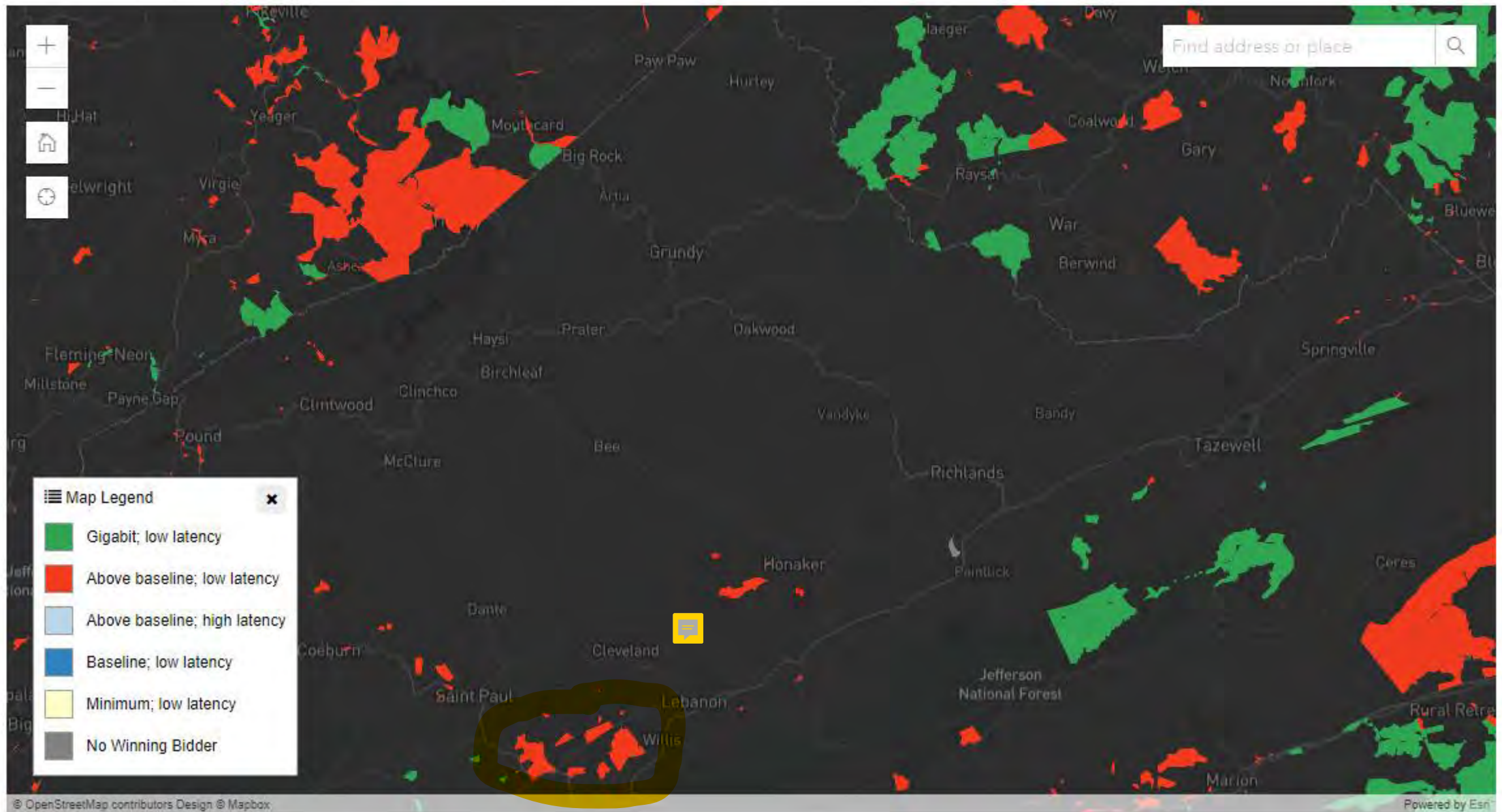
**Community Anchor** - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

**Non-Residential Passing** – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.

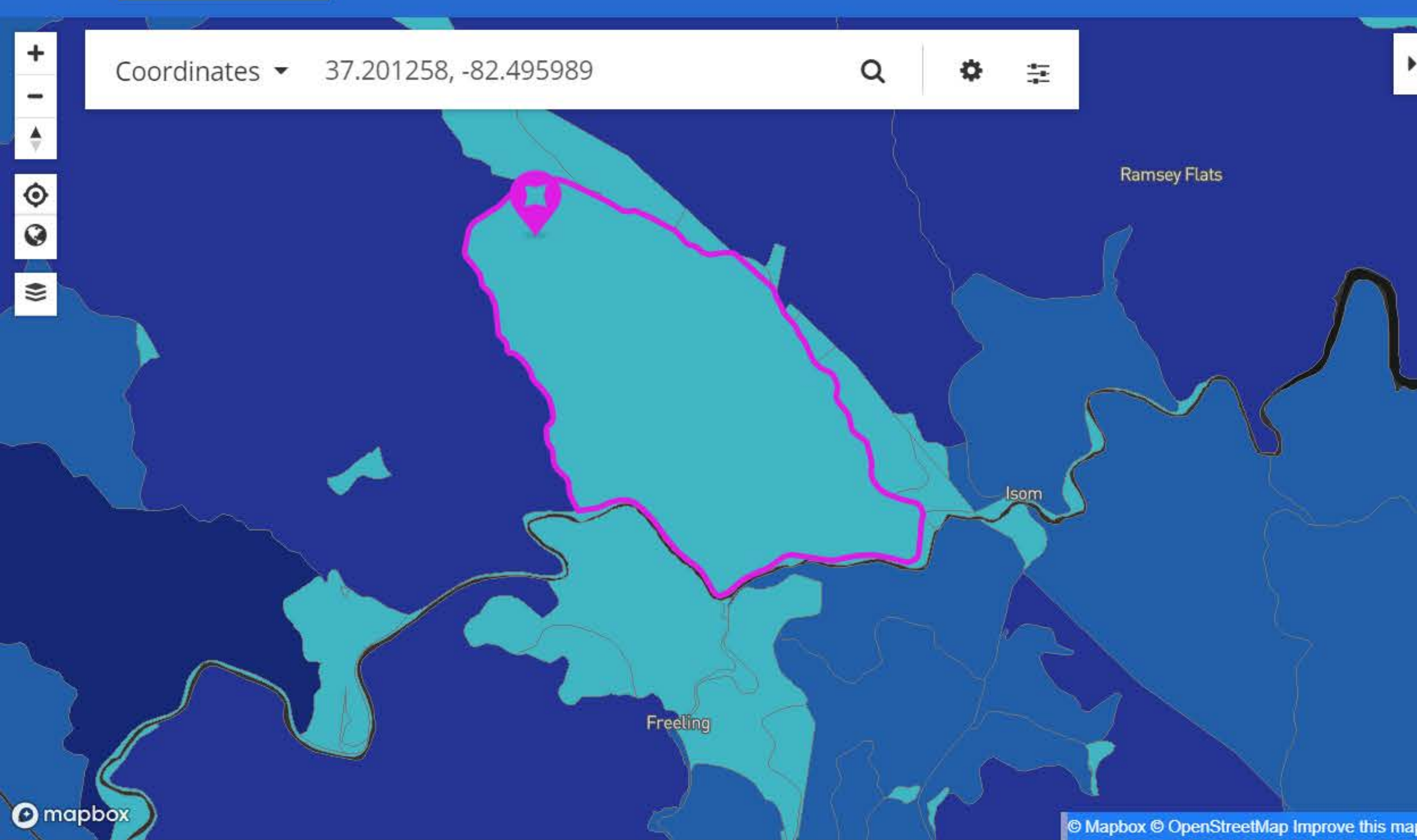
Home / Reports & Research / Maps /

# Rural Digital Opportunity Fund Phase I Results

Data as of 12/07/20







**All Providers Reporting Service**

Census block ID: 510510402001020

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Verizon Communications Inc.	ADSL	1.5	0.384

Search: Ramsey Flats, VA

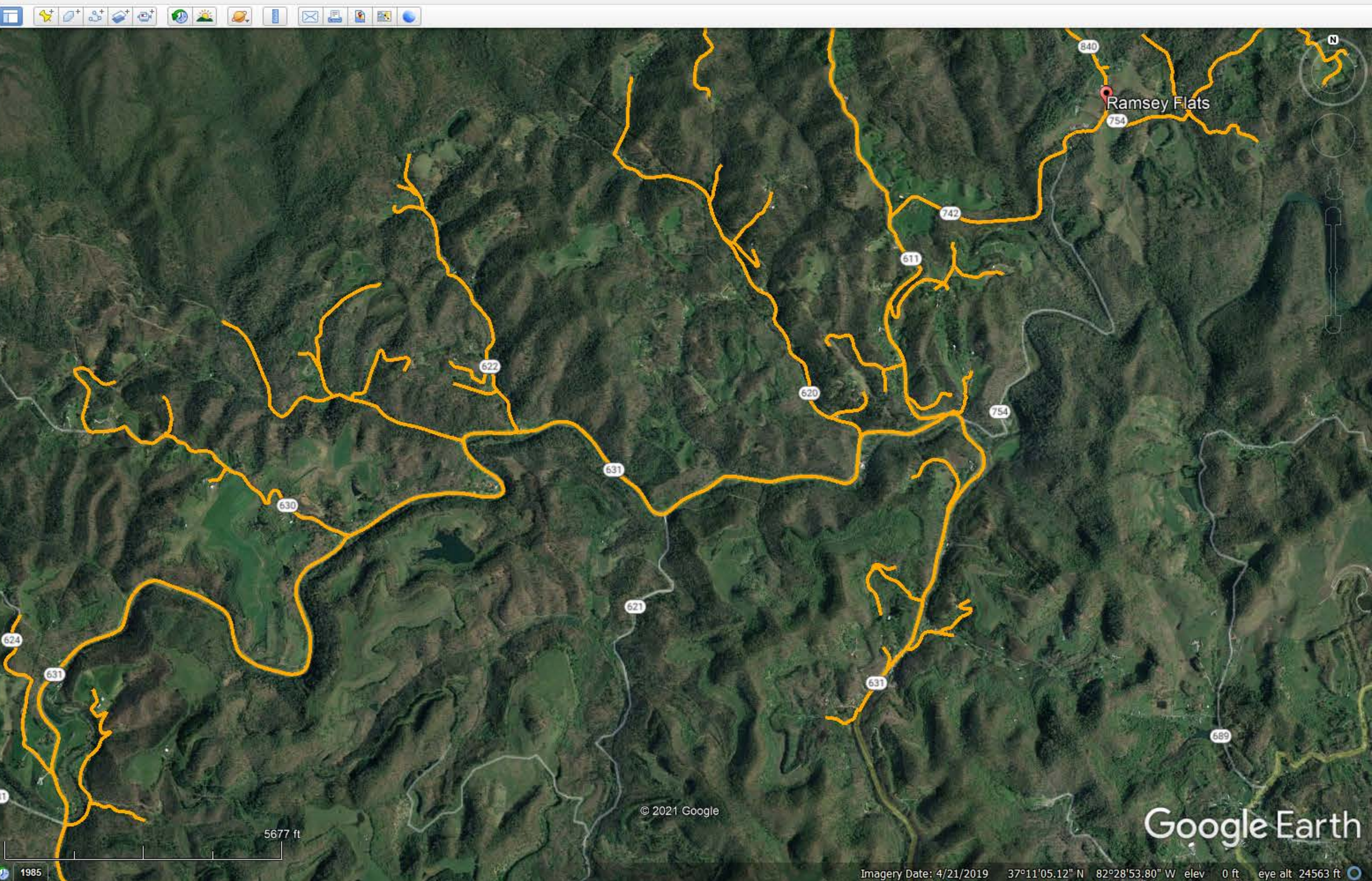
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 37.213592, -82.436831

### All Providers Reporting Service

Census block ID: 510510402001014

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Ramsey Flats, VA

Get Directions History

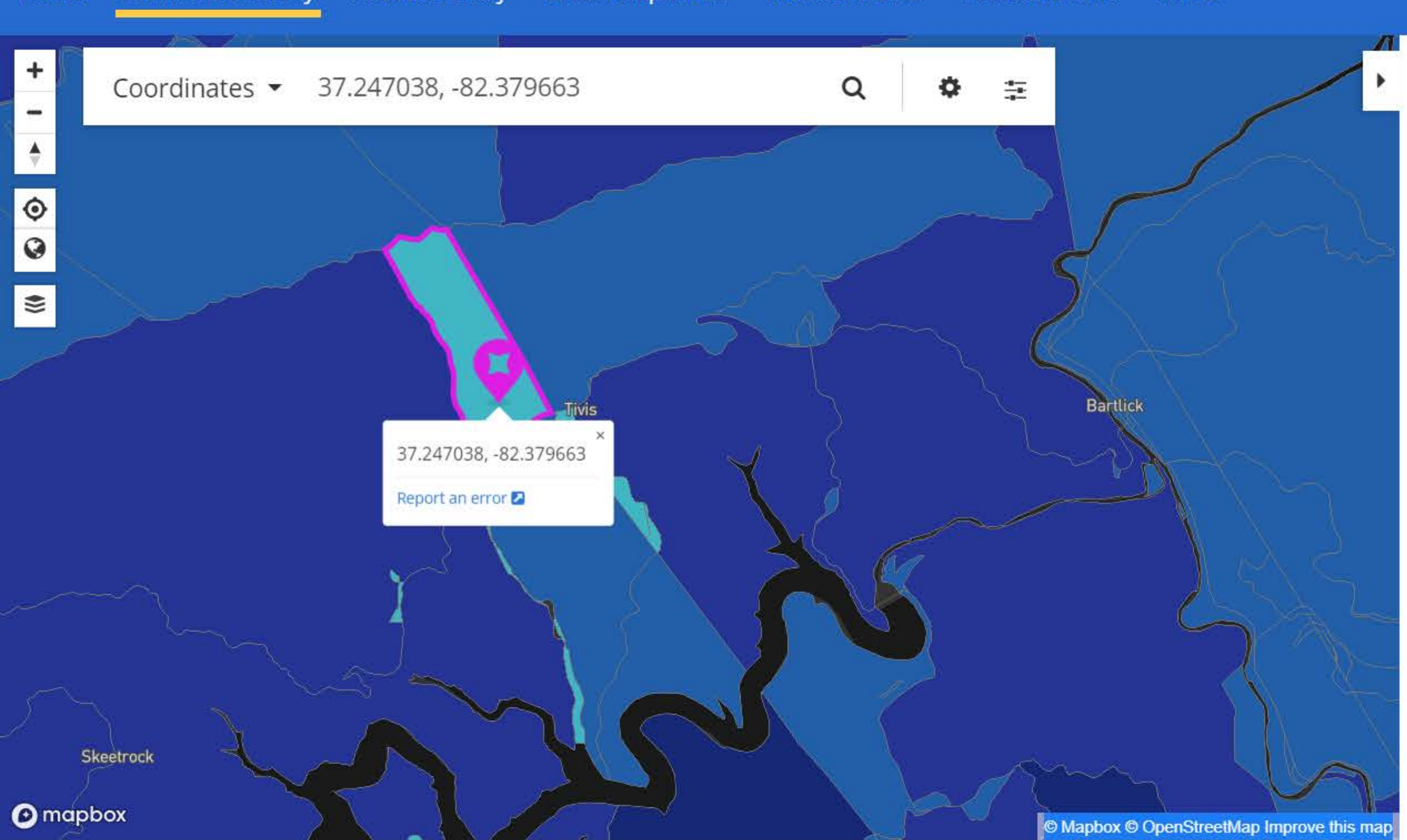
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    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

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- Roads (Outdated)
- Terrain





**All Providers Reporting Service**

Census block ID: 510510402001000

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Ramsey Flats, VA

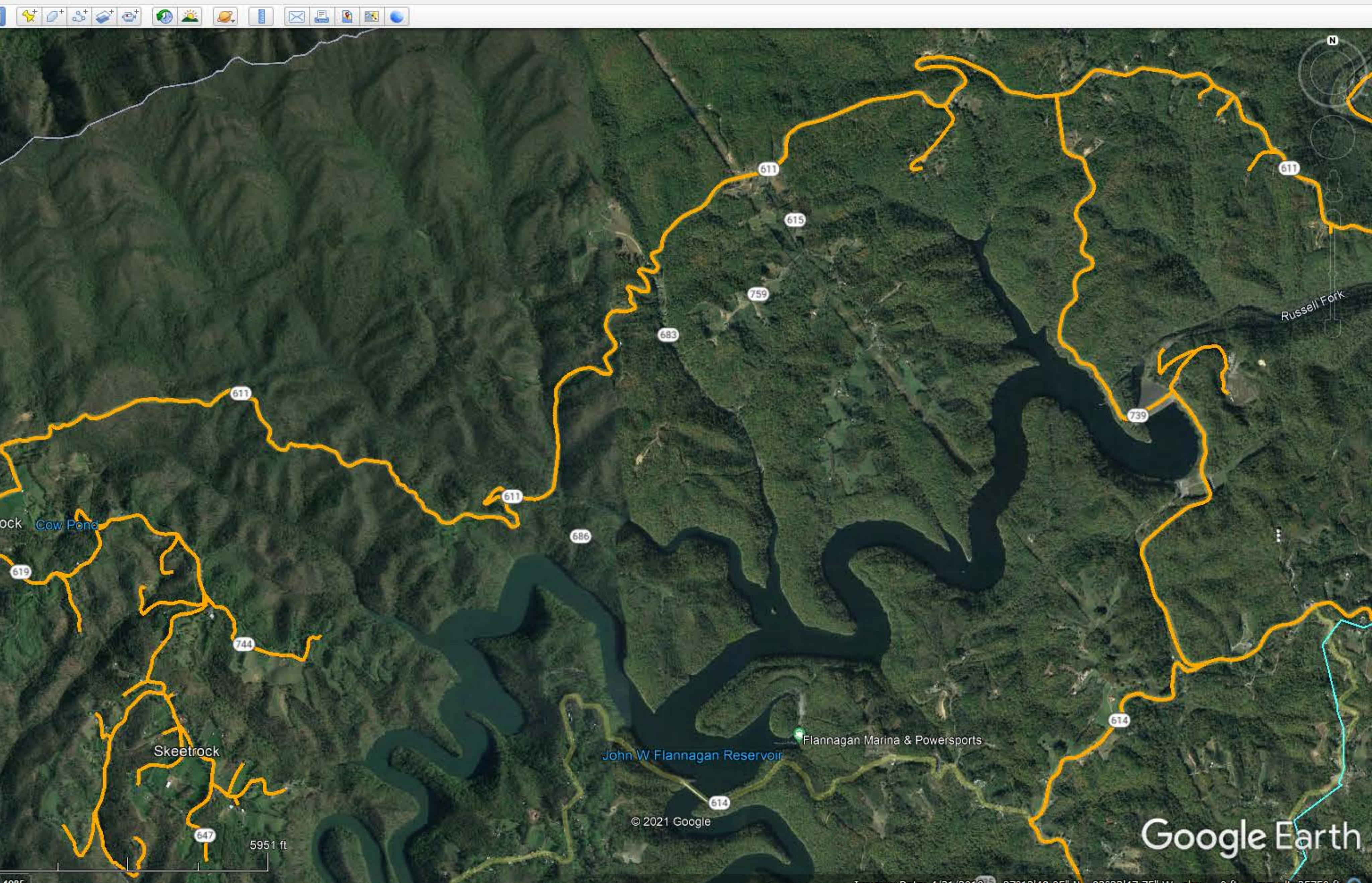
Get Directions History

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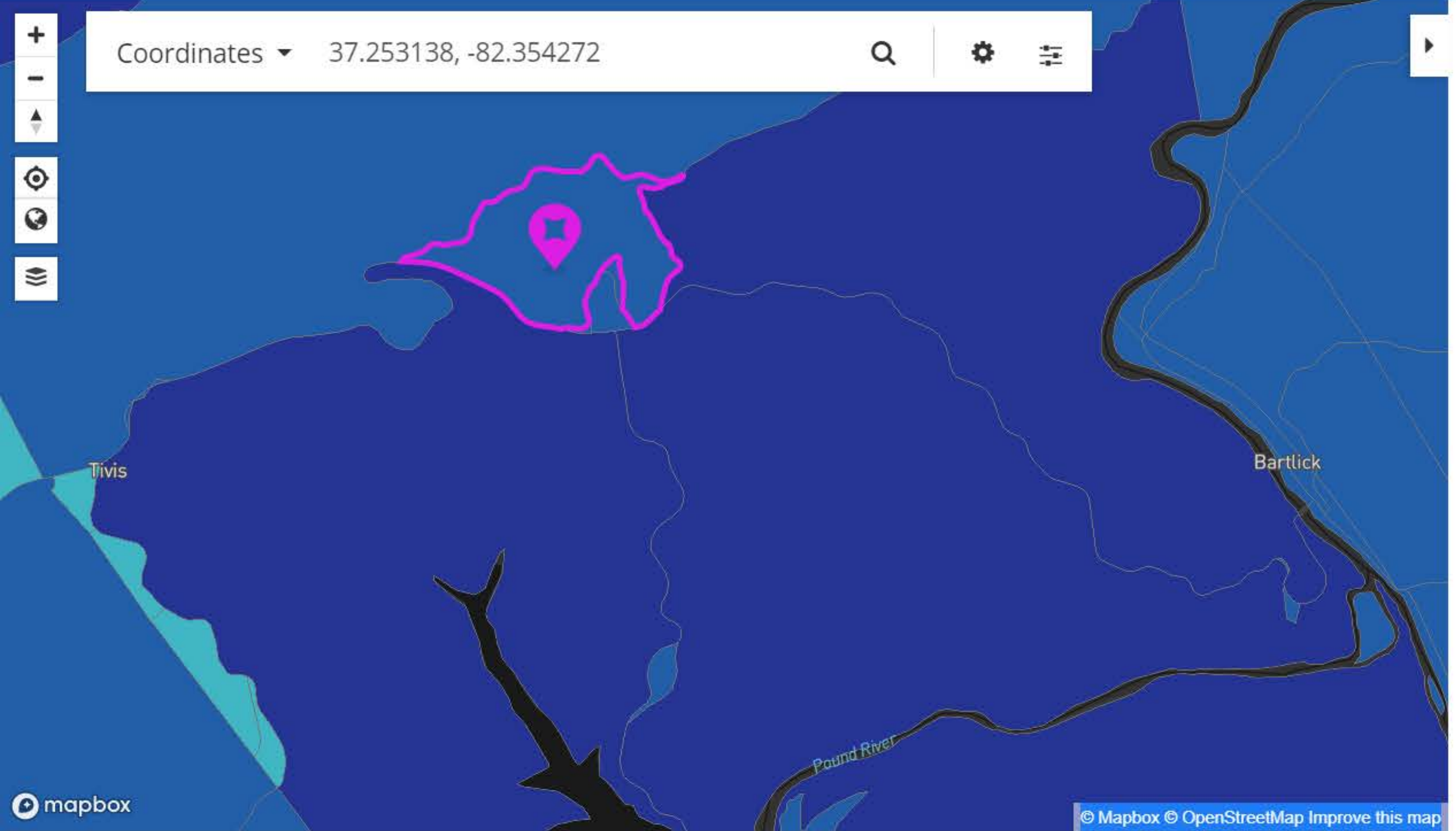
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- Roads (Outdated)
- Terrain







**All Providers Reporting Service**

Census block ID: 510510401002094

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

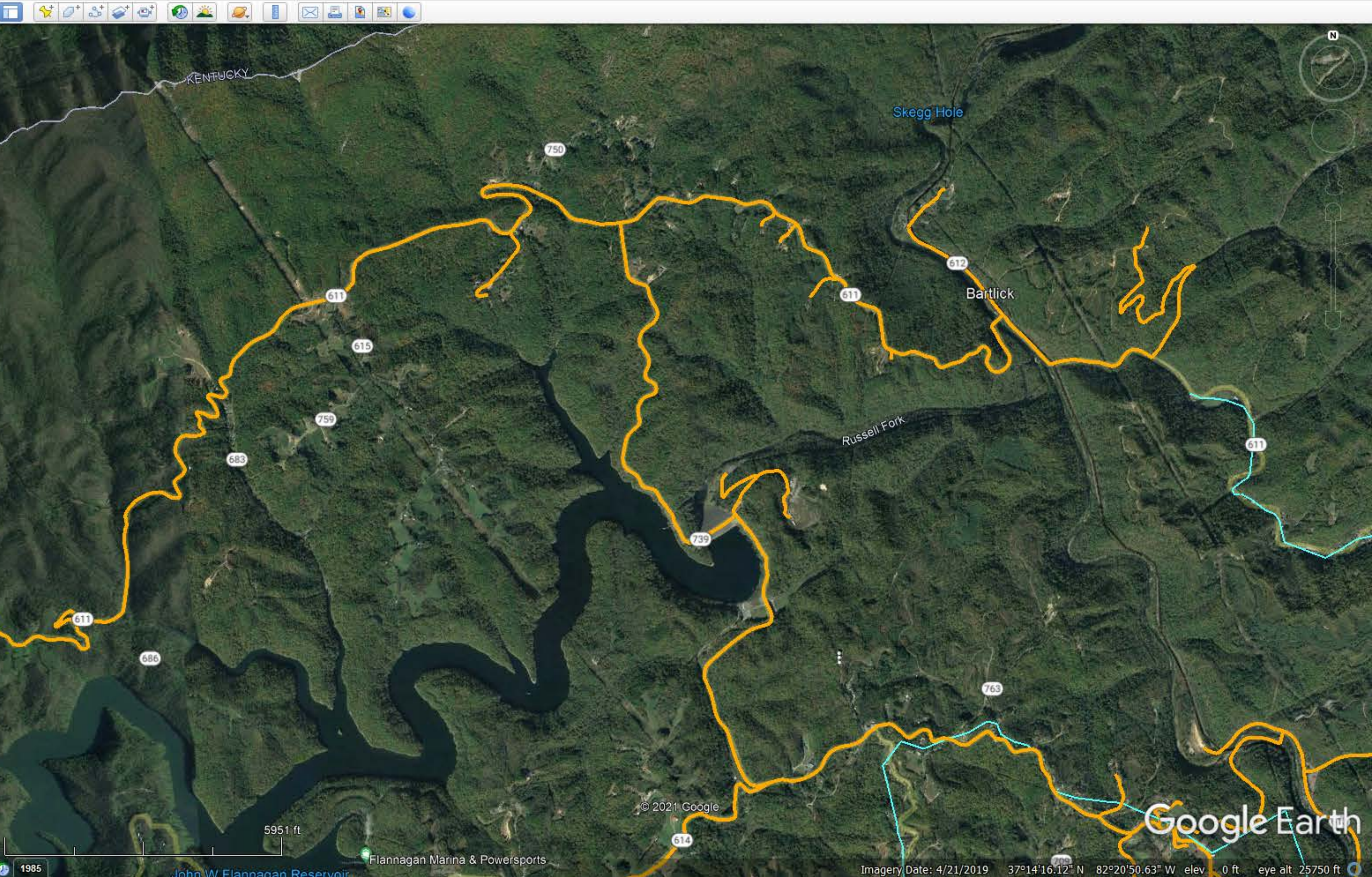
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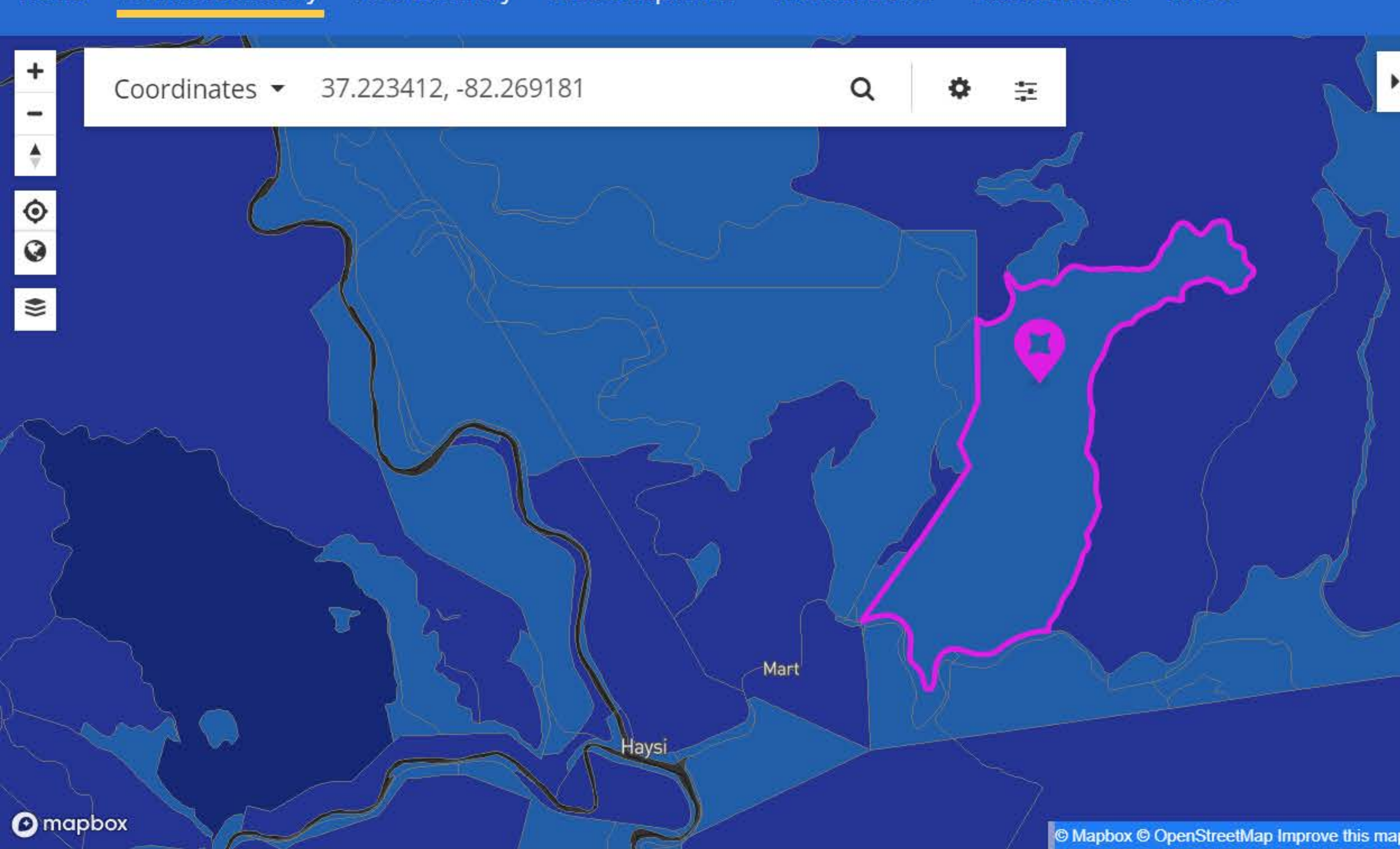
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- Places (Outdated)
- Roads (Outdated)
- Terrain







**All Providers Reporting Service**

Census block ID: 510510401002072

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Verizon Communications Inc.	ADSL	1.5	0.384

Search: Ramsey Flats, VA

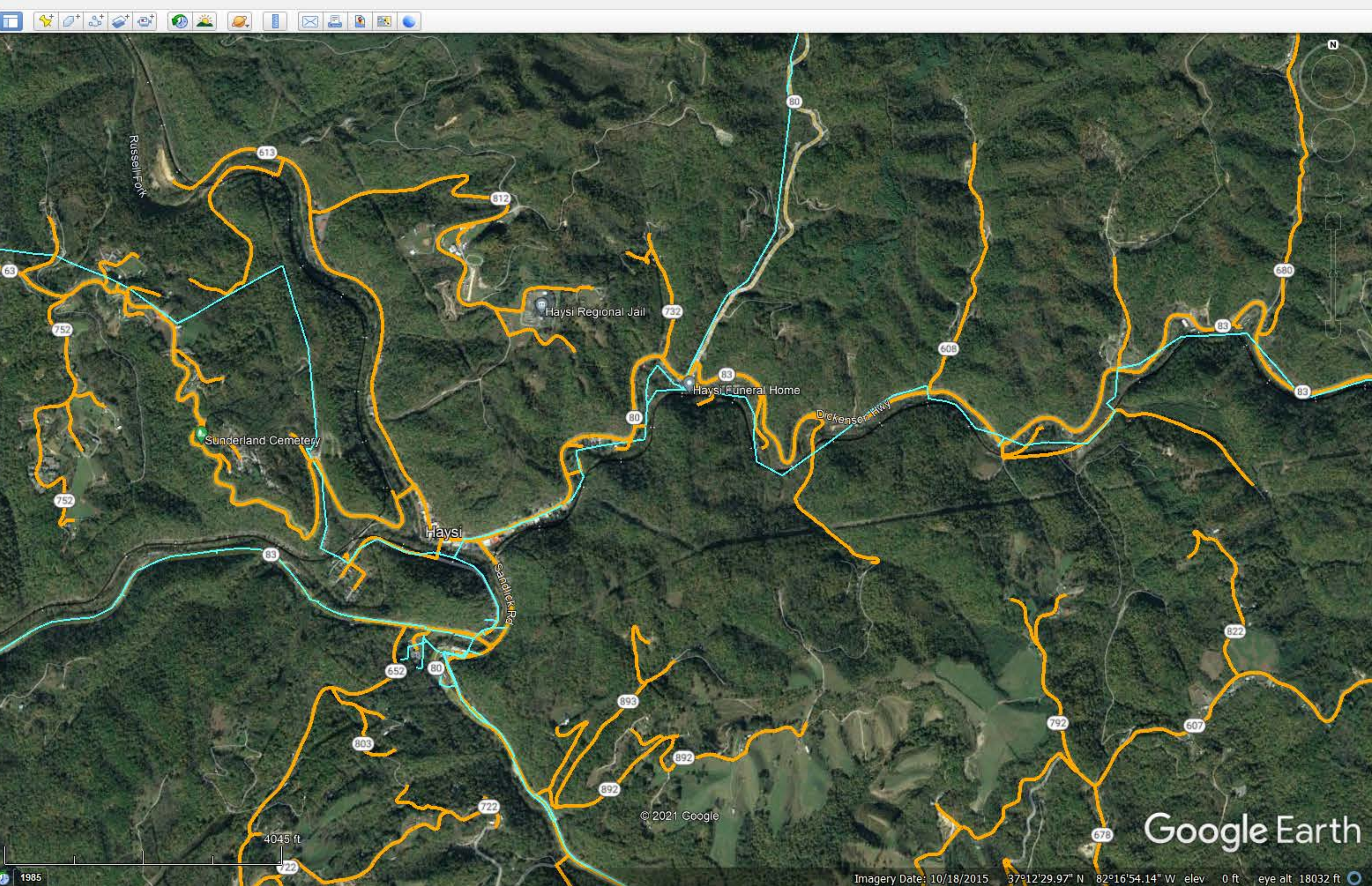
Get Directions History

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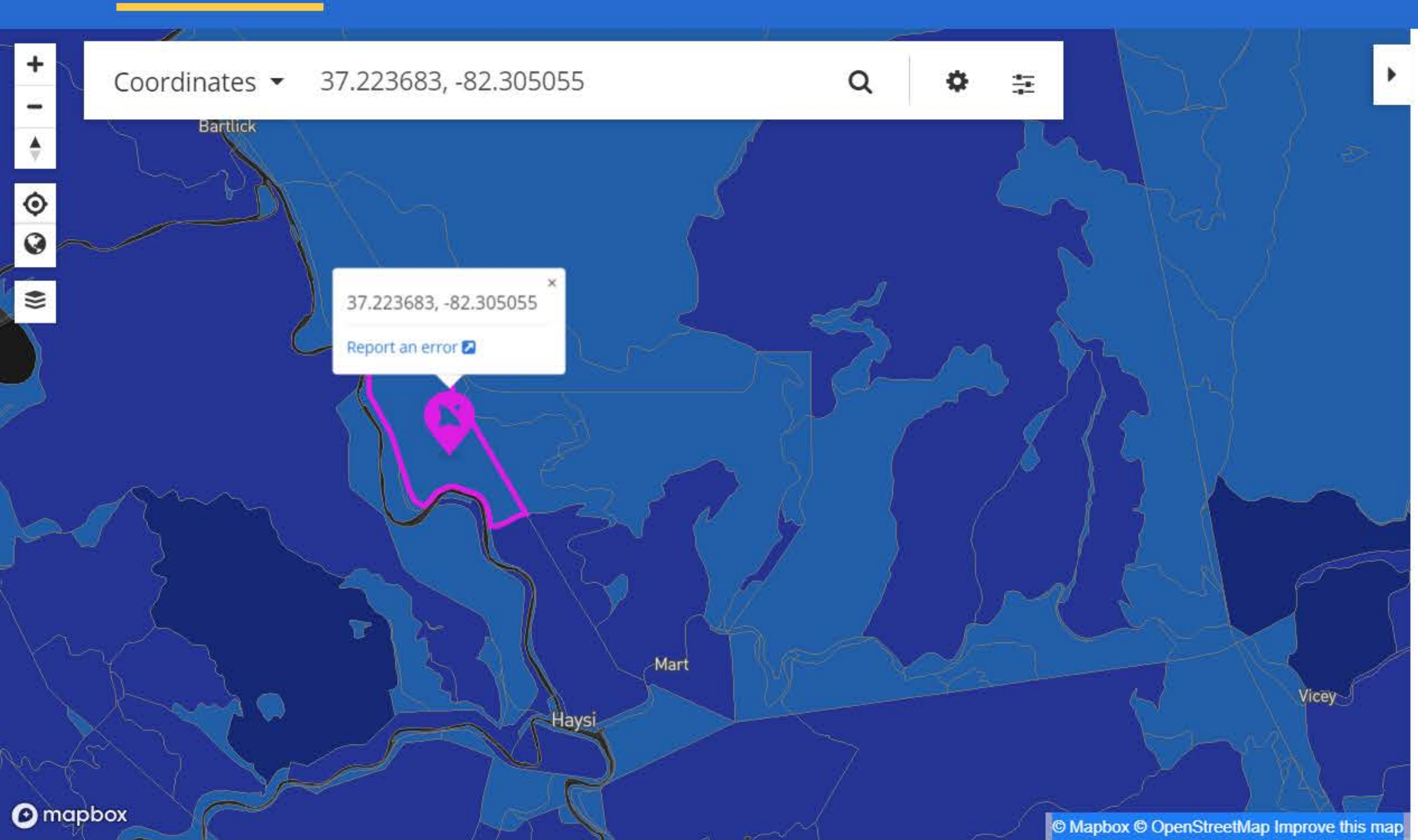
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- Roads (Outdated)
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### All Providers Reporting Service

Census block ID: 510510401002036

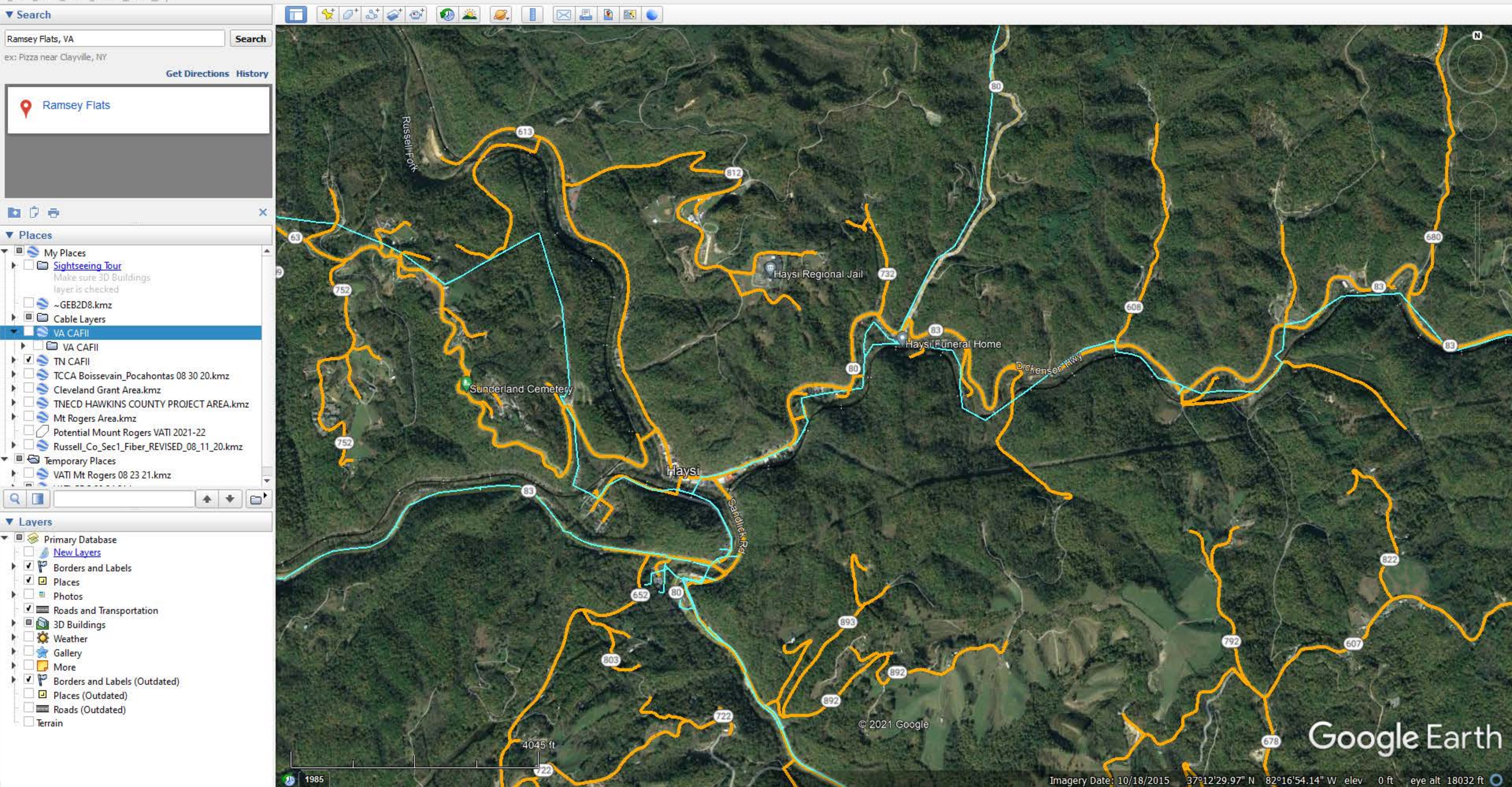
#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

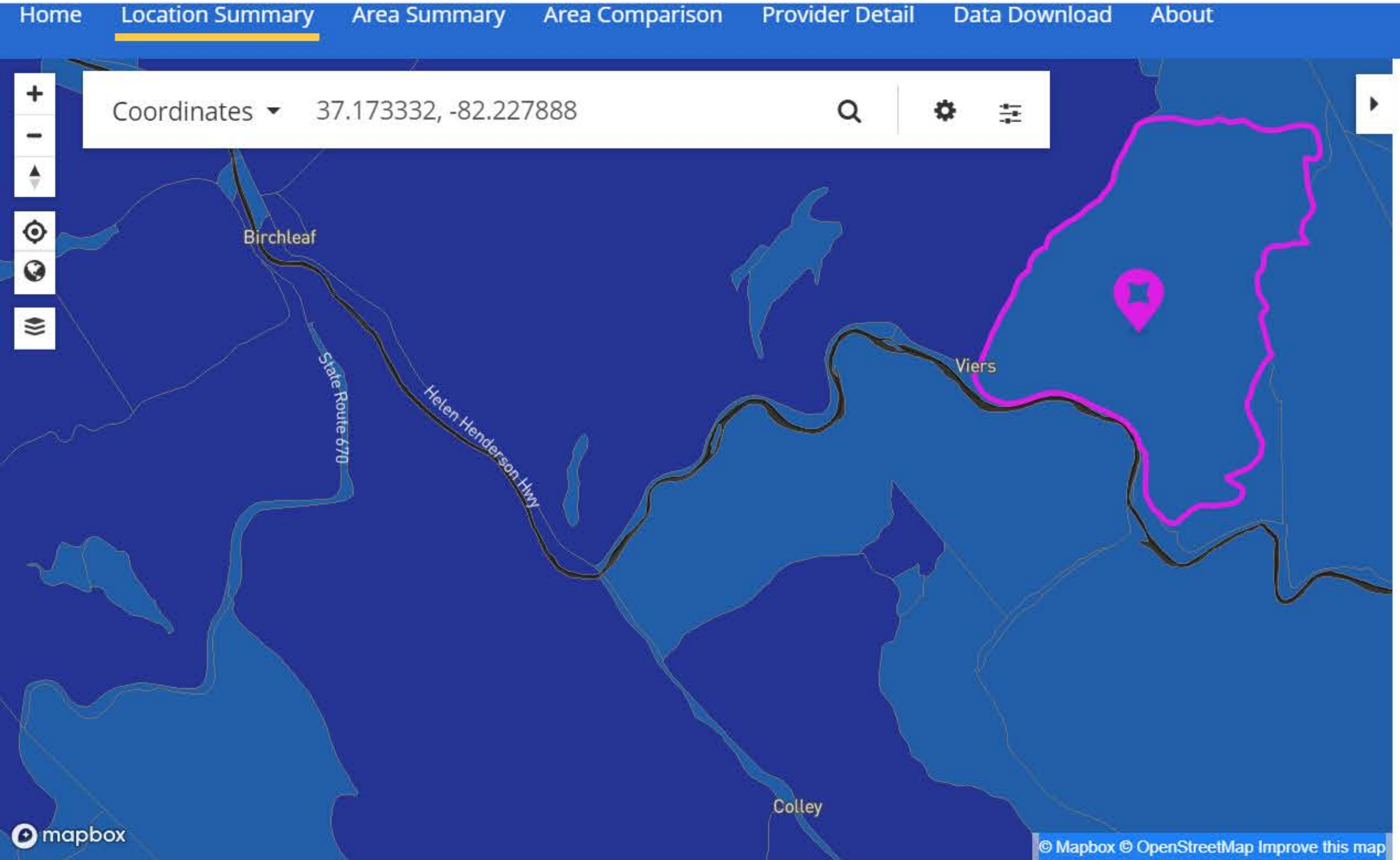
#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3







**All Providers Reporting Service**

Census block ID: 510510401004012

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Ramsey Flats, VA

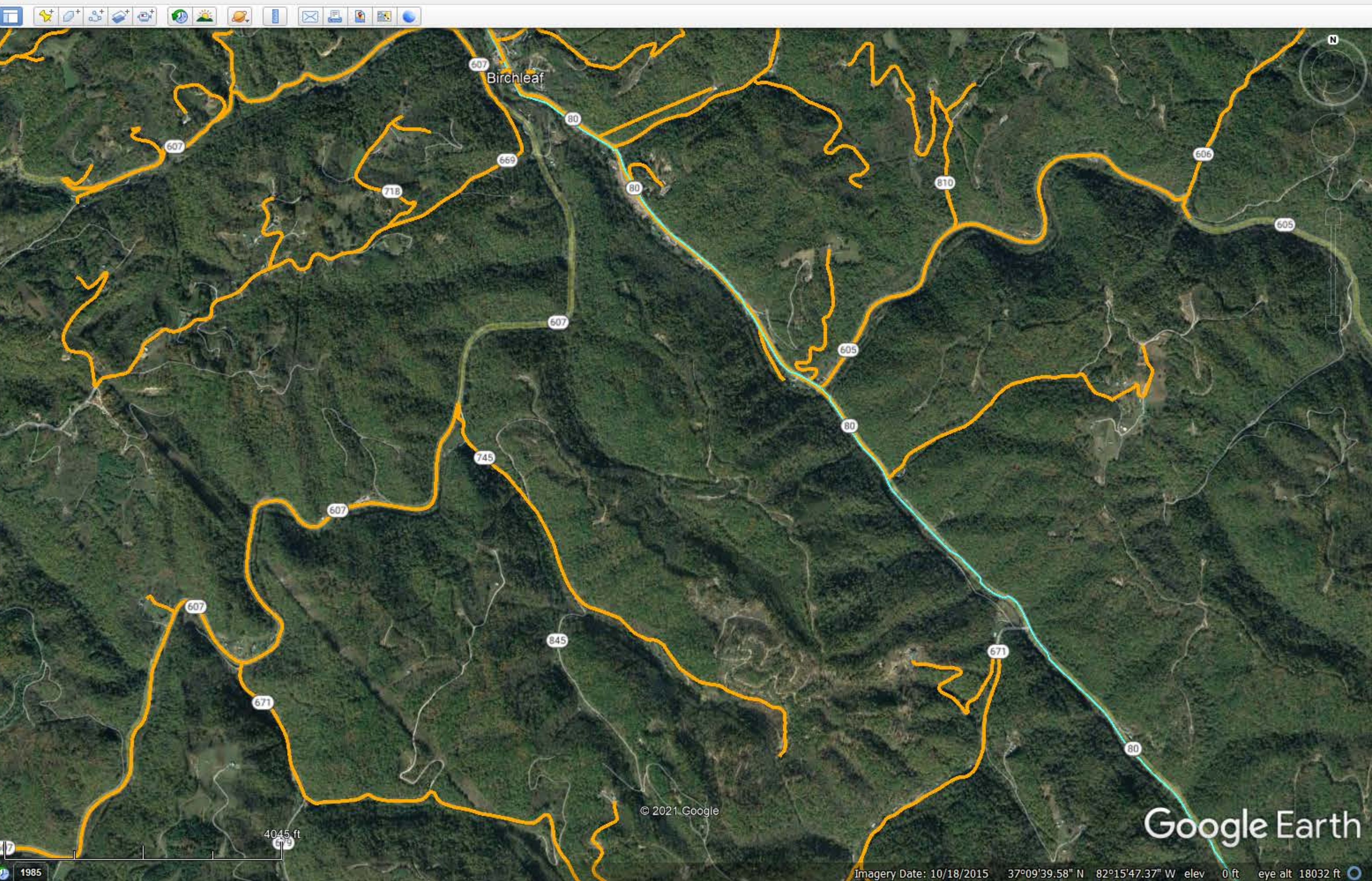
Get Directions History

Places

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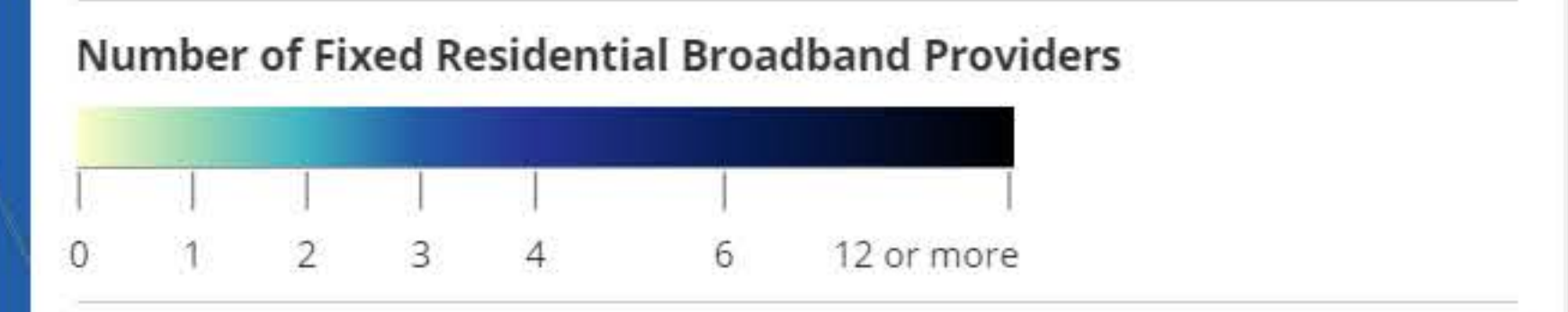




Coordinates 37.154616, -82.27288

**All Providers Reporting Service**

Census block ID: 510510401004081



**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Ramsey Flats, VA

Get Directions History

Places

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- VA CAFII
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- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°09'39.58" N 82°15'47.37" W elev 0 ft eye alt 18032 ft

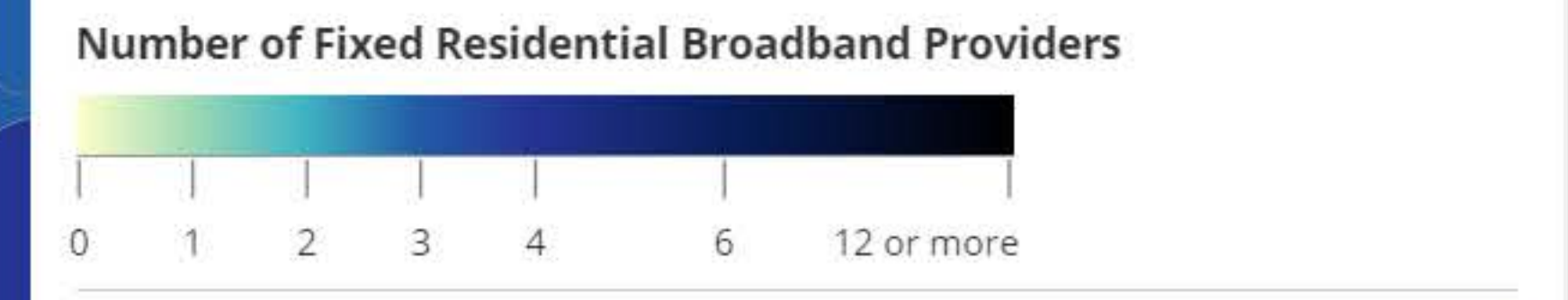


Coordinates 37.143139, -82.286427

Mapbox logo

### All Providers Reporting Service

Census block ID: 510510404003021



**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Nancy, VA

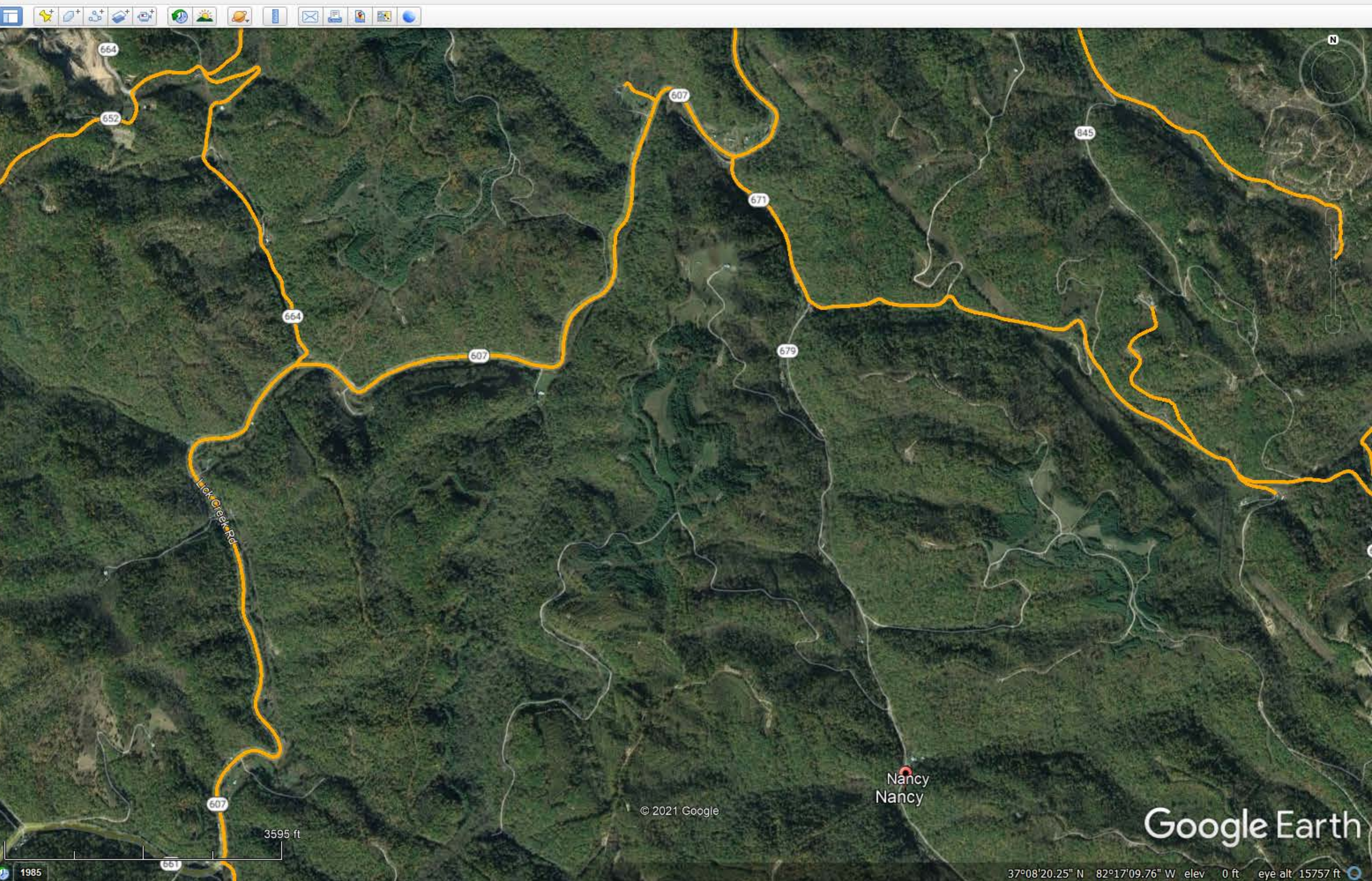
Get Directions History

Places

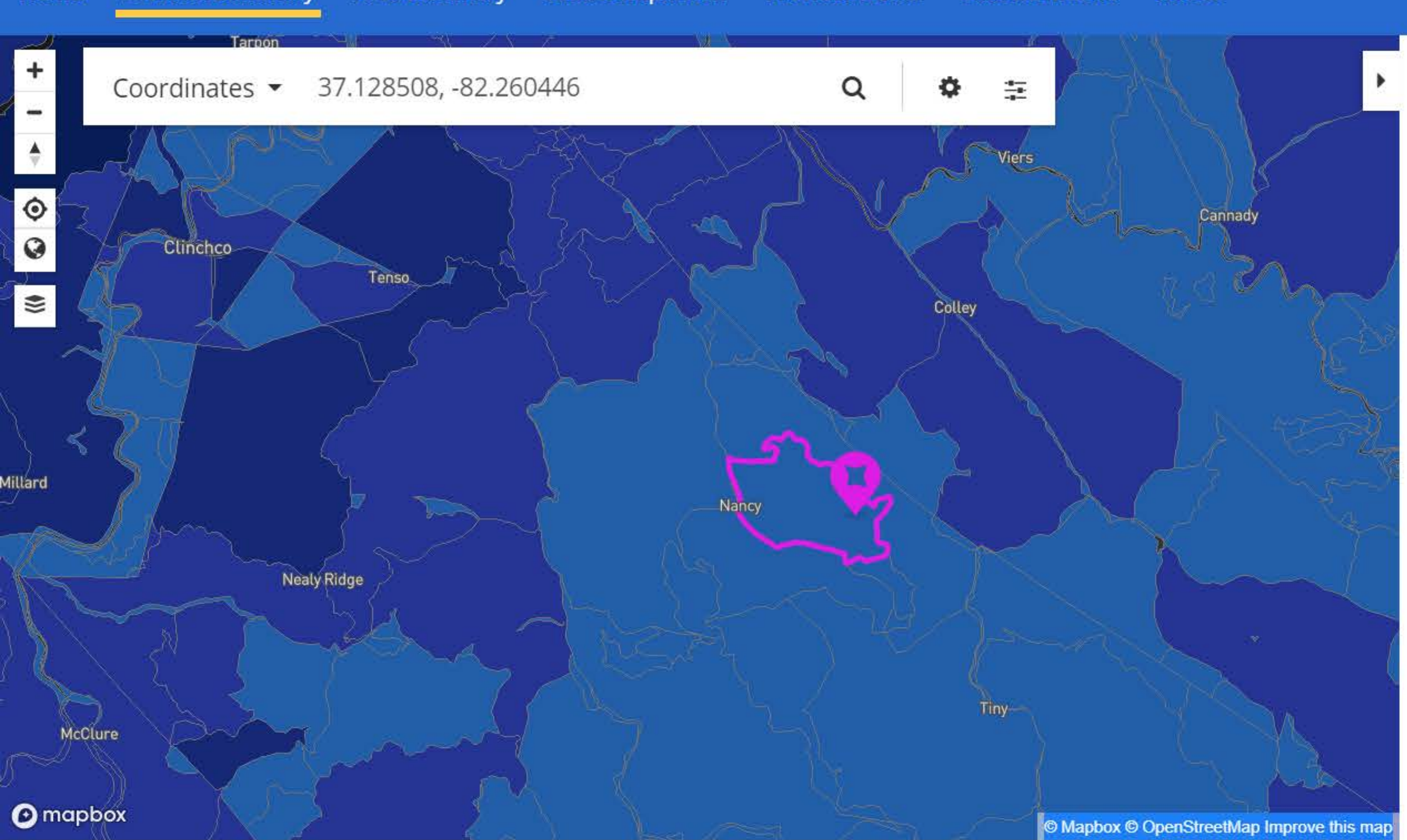
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- Terrain







**All Providers Reporting Service**

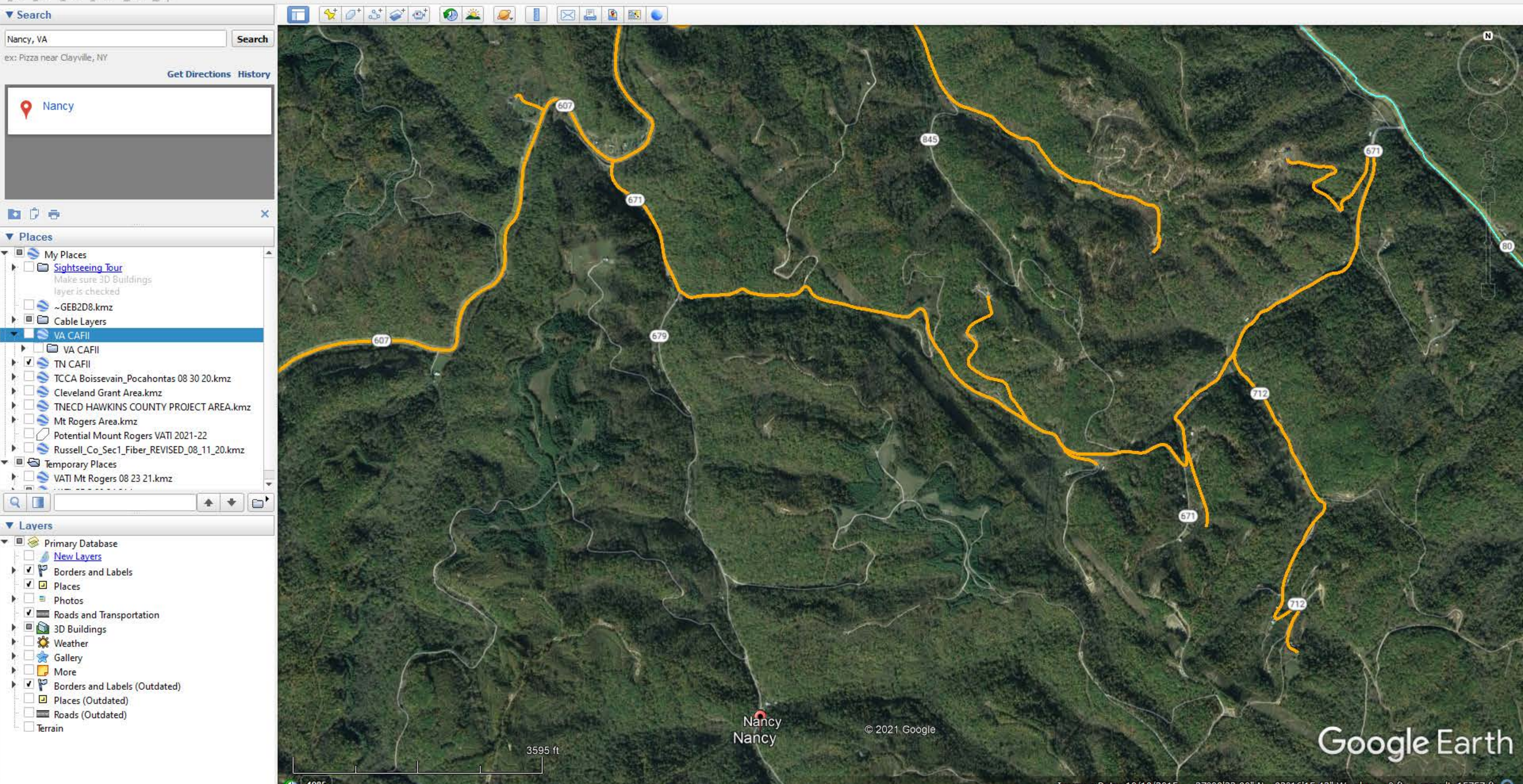
Census block ID: 510510404003012

**Number of Fixed Residential Broadband Providers**

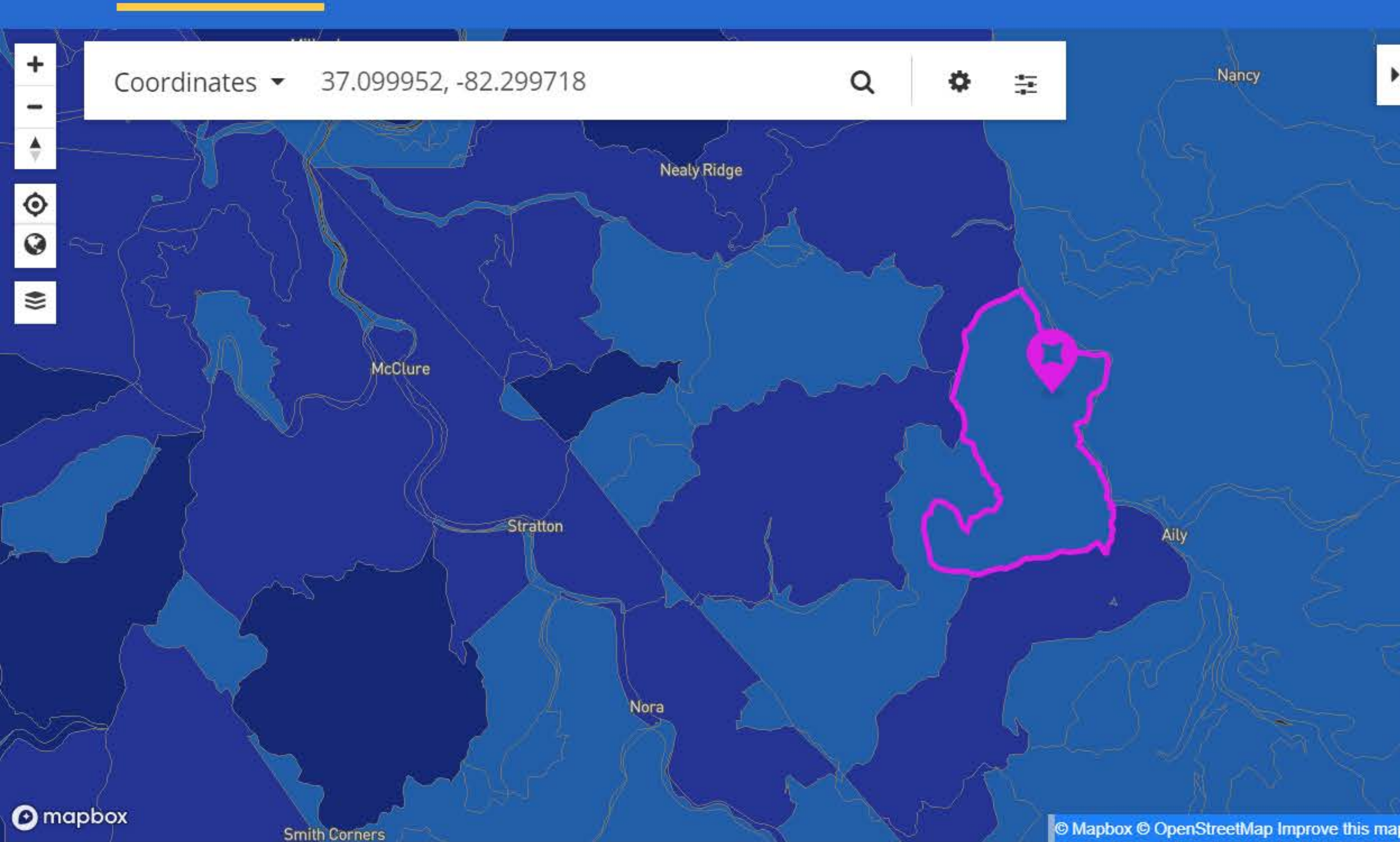
**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3







**All Providers Reporting Service**

Census block ID: 510510404001021

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Nancy, VA

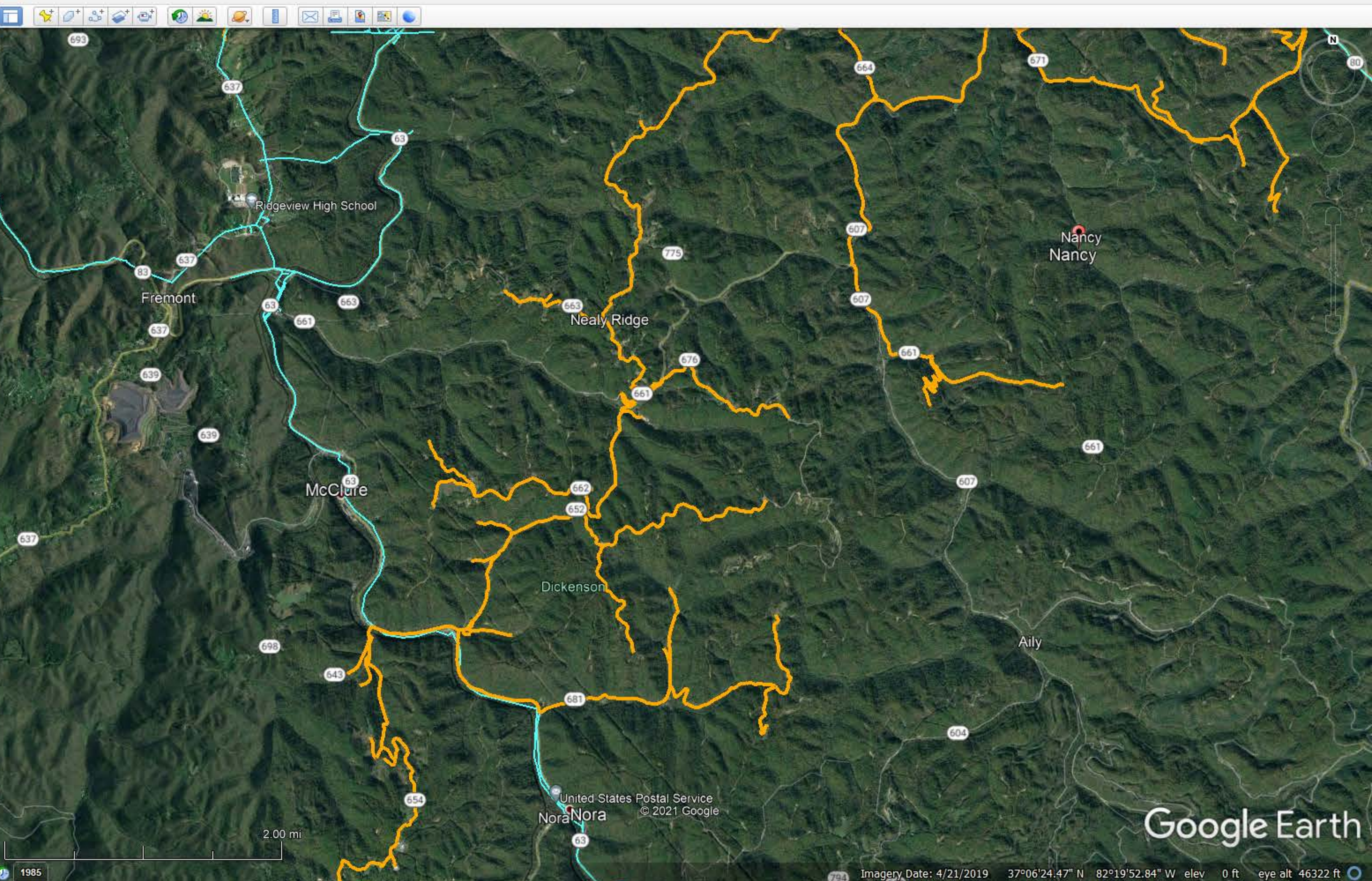
Get Directions History

Places

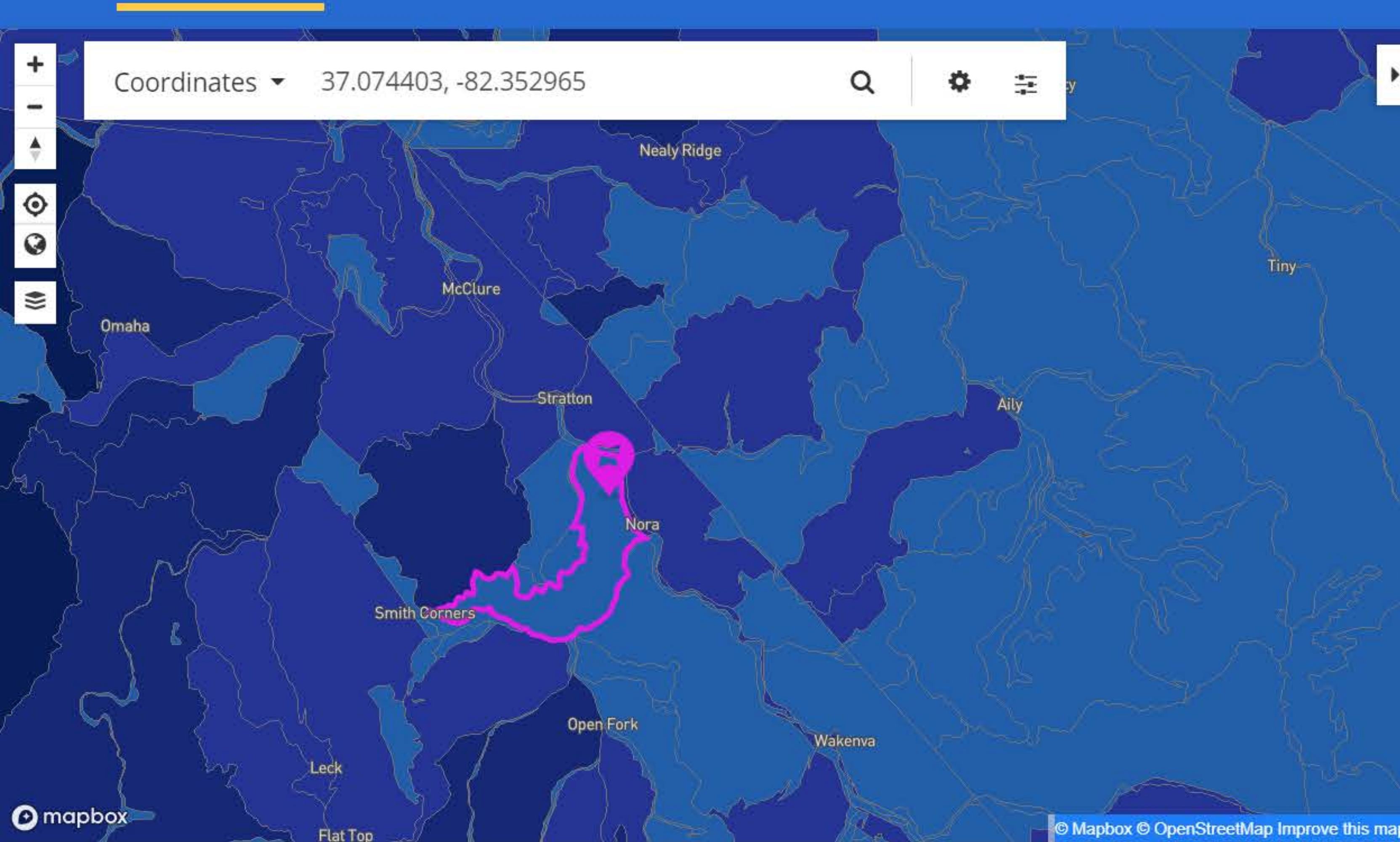
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







### All Providers Reporting Service

Census block ID: 510510404004019

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Nancy, VA

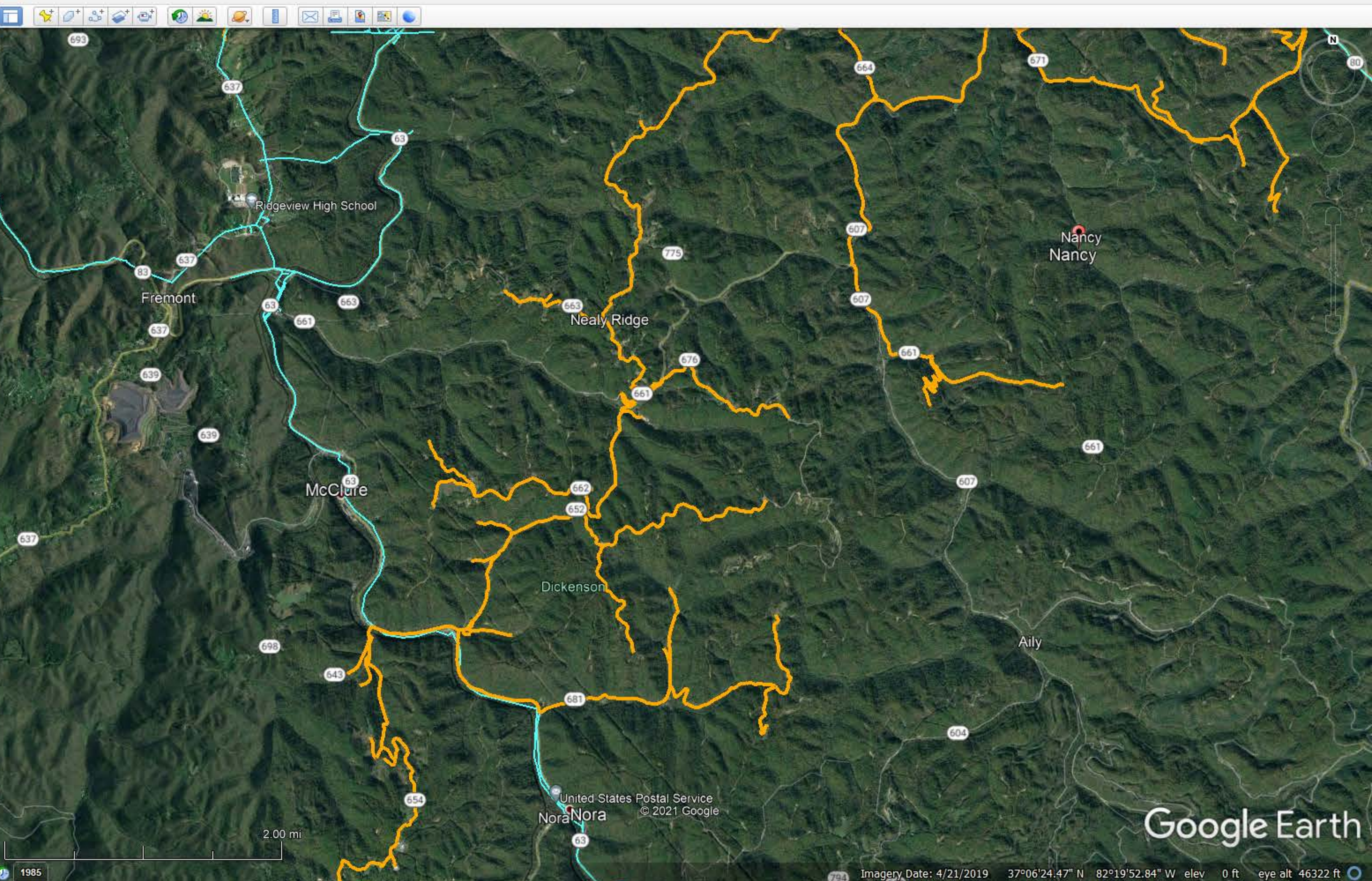
Get Directions History

Places

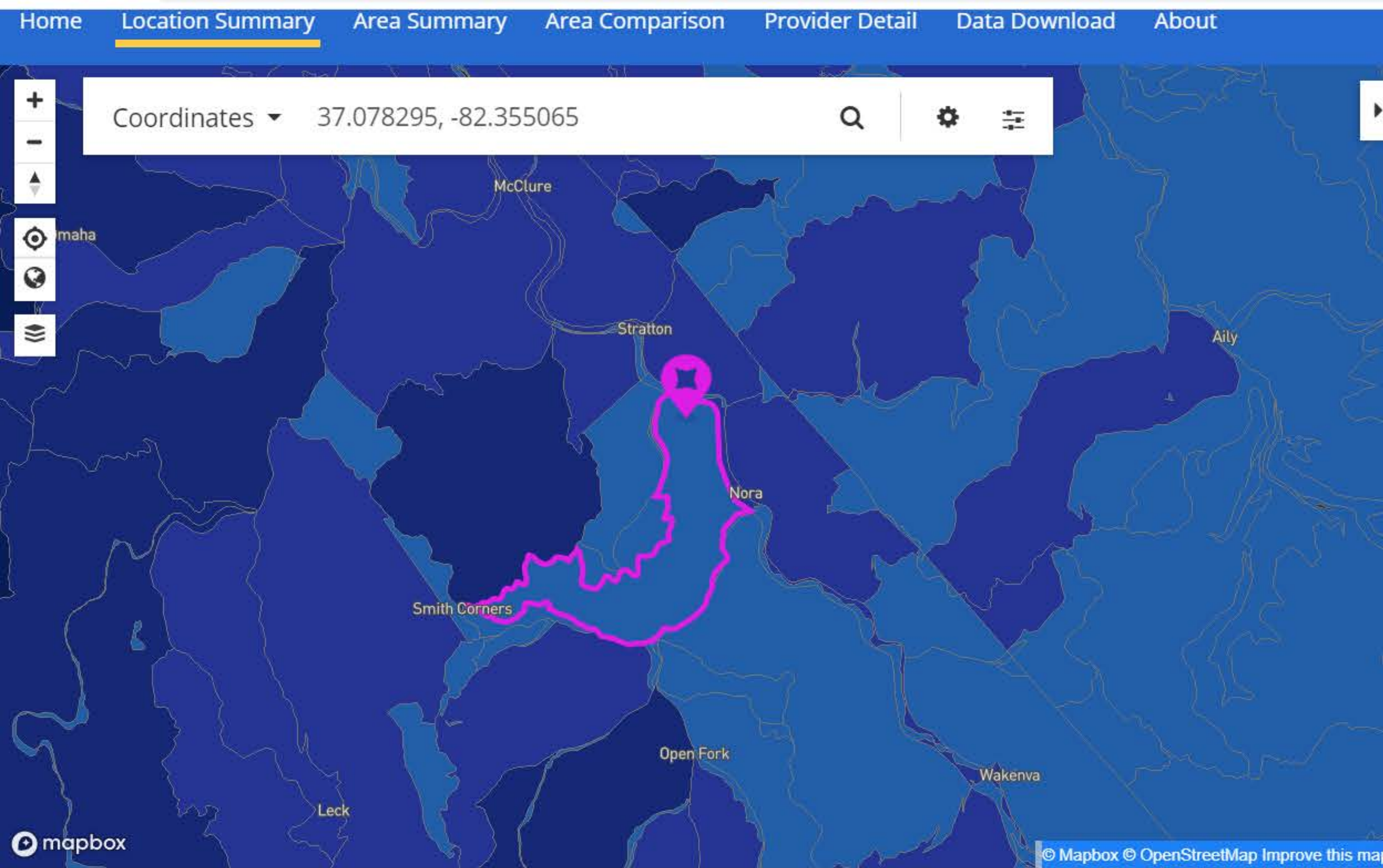
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
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- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
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- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

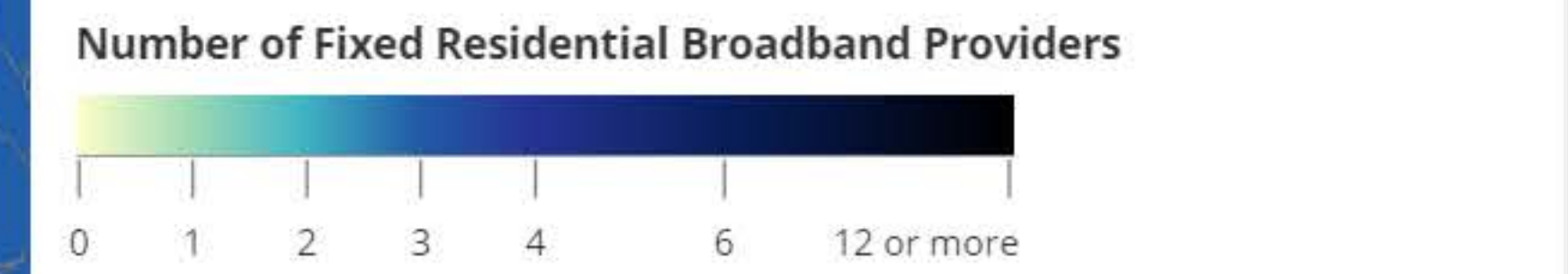






### All Providers Reporting Service

Census block ID: 510510404004019



**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Nancy, VA

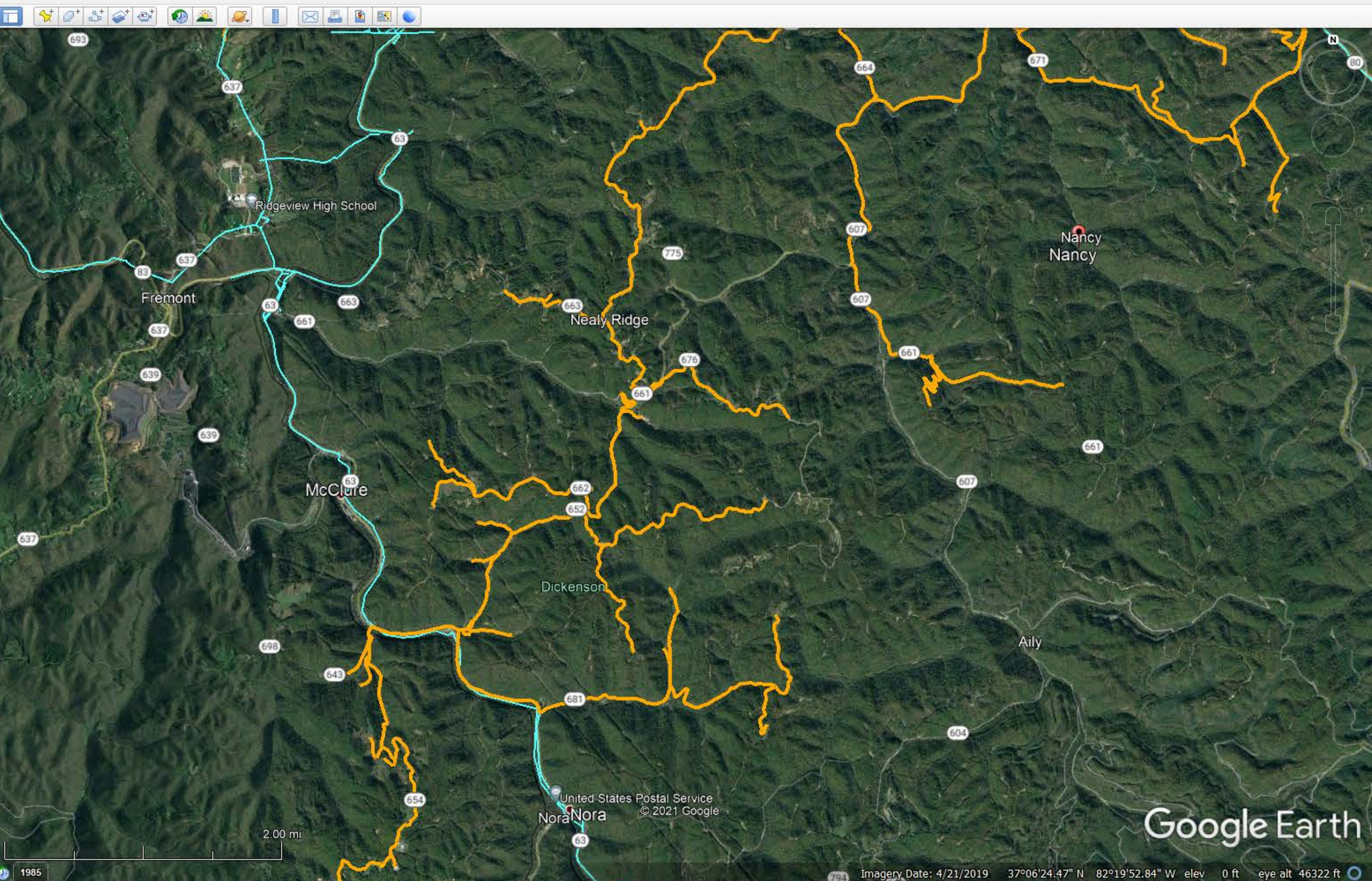
Get Directions History

Places

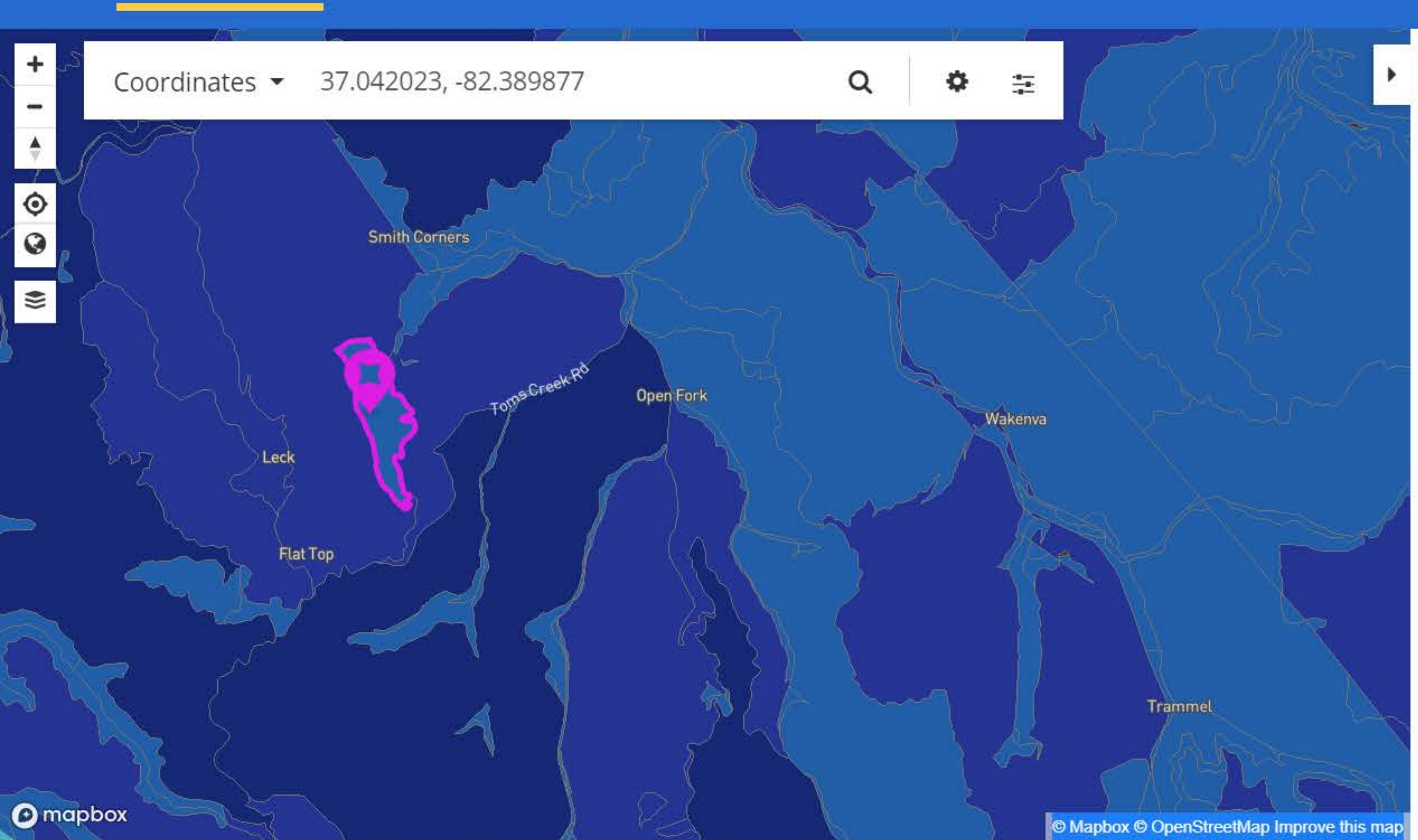
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boisevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







**All Providers Reporting Service**

Census block ID: 510510404004015

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Nancy, VA

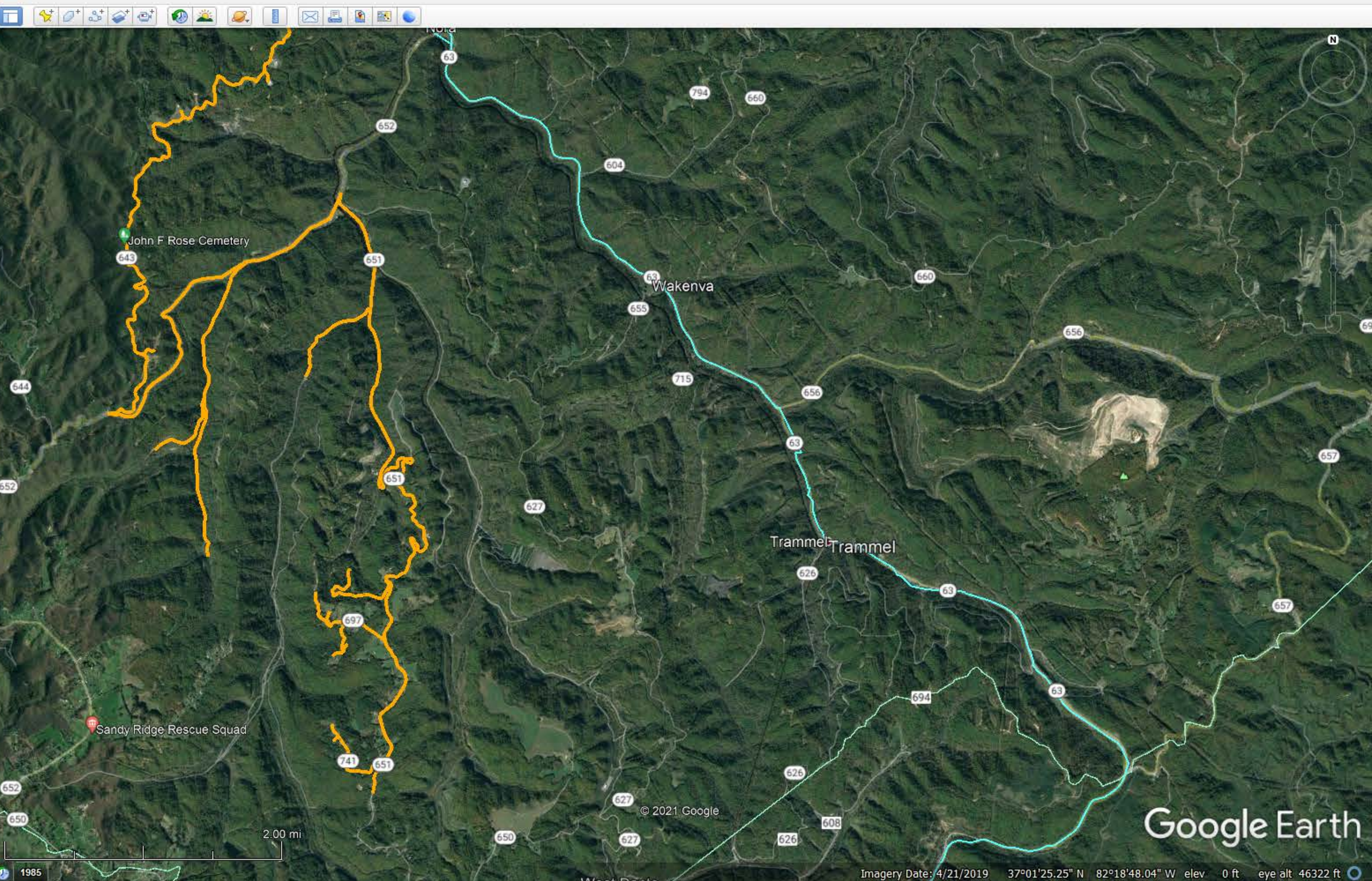
Get Directions History

Places

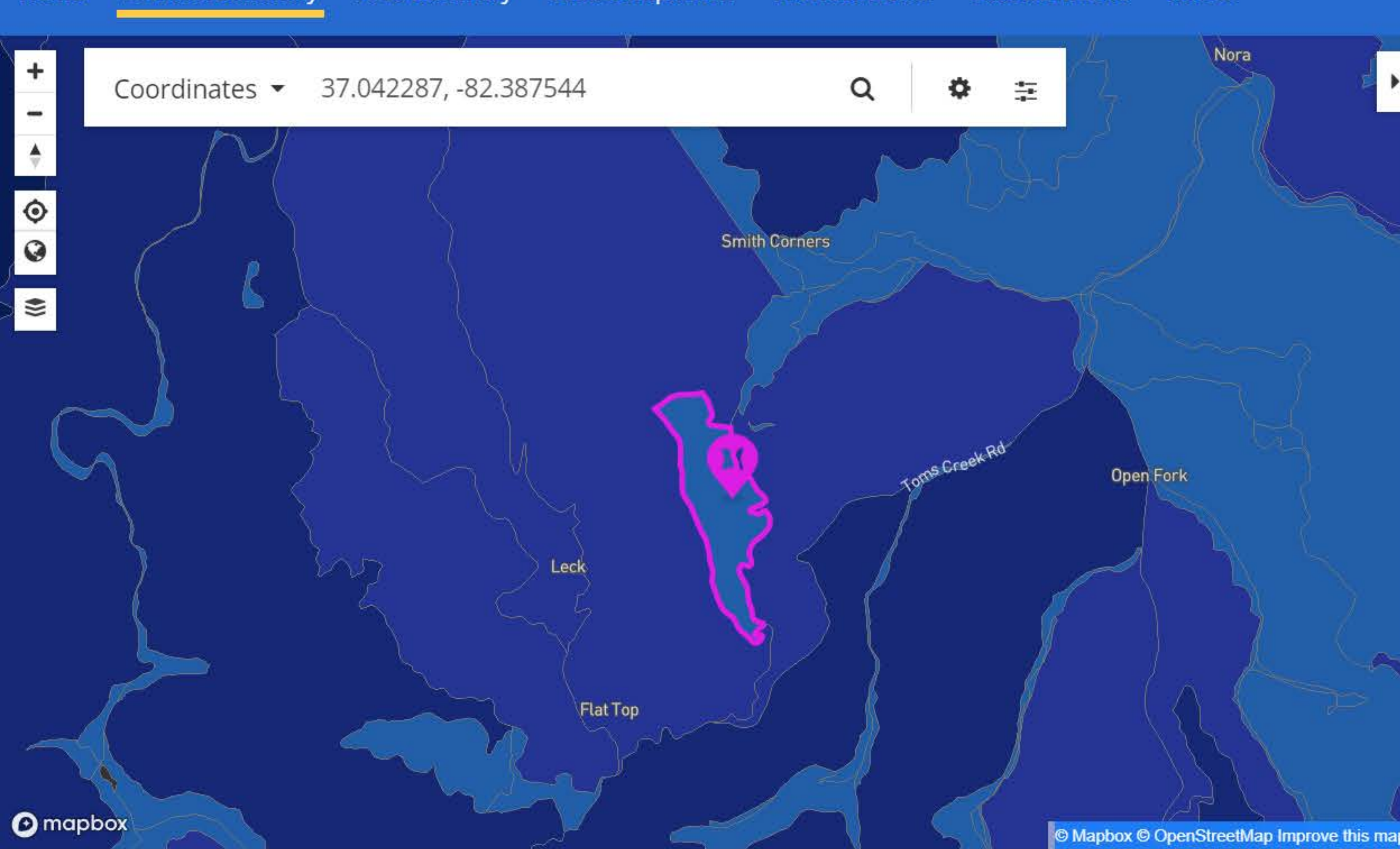
- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

Layers

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- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







### All Providers Reporting Service

Census block ID: 510510404004015

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Smith Corners, VA

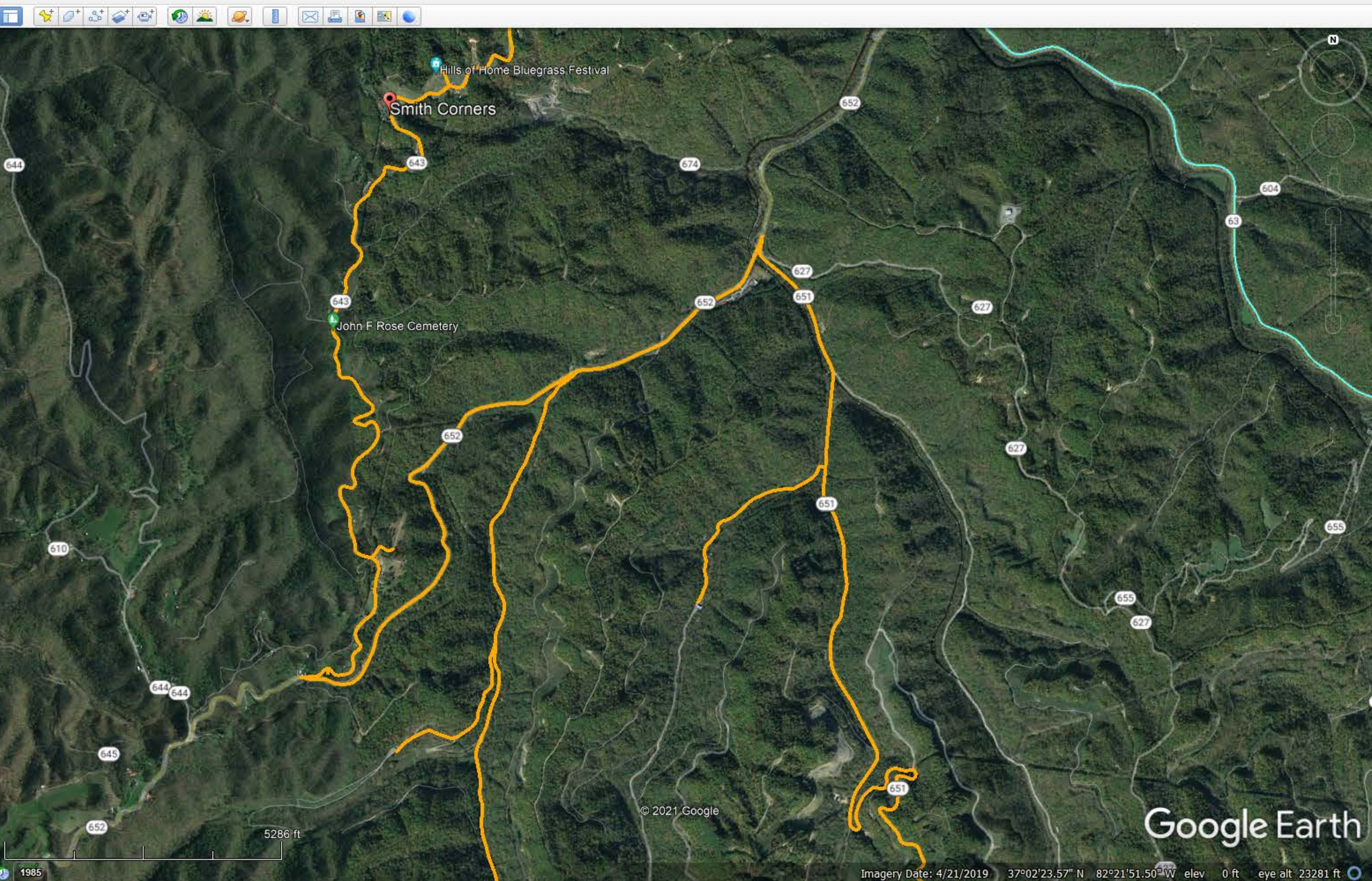
Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
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- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.023349, -82.381318

**All Providers Reporting Service**

Census block ID: 510510404002014

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

© Mapbox © OpenStreetMap Improve this map

Google Earth Pro

Search Smith Corners, VA

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

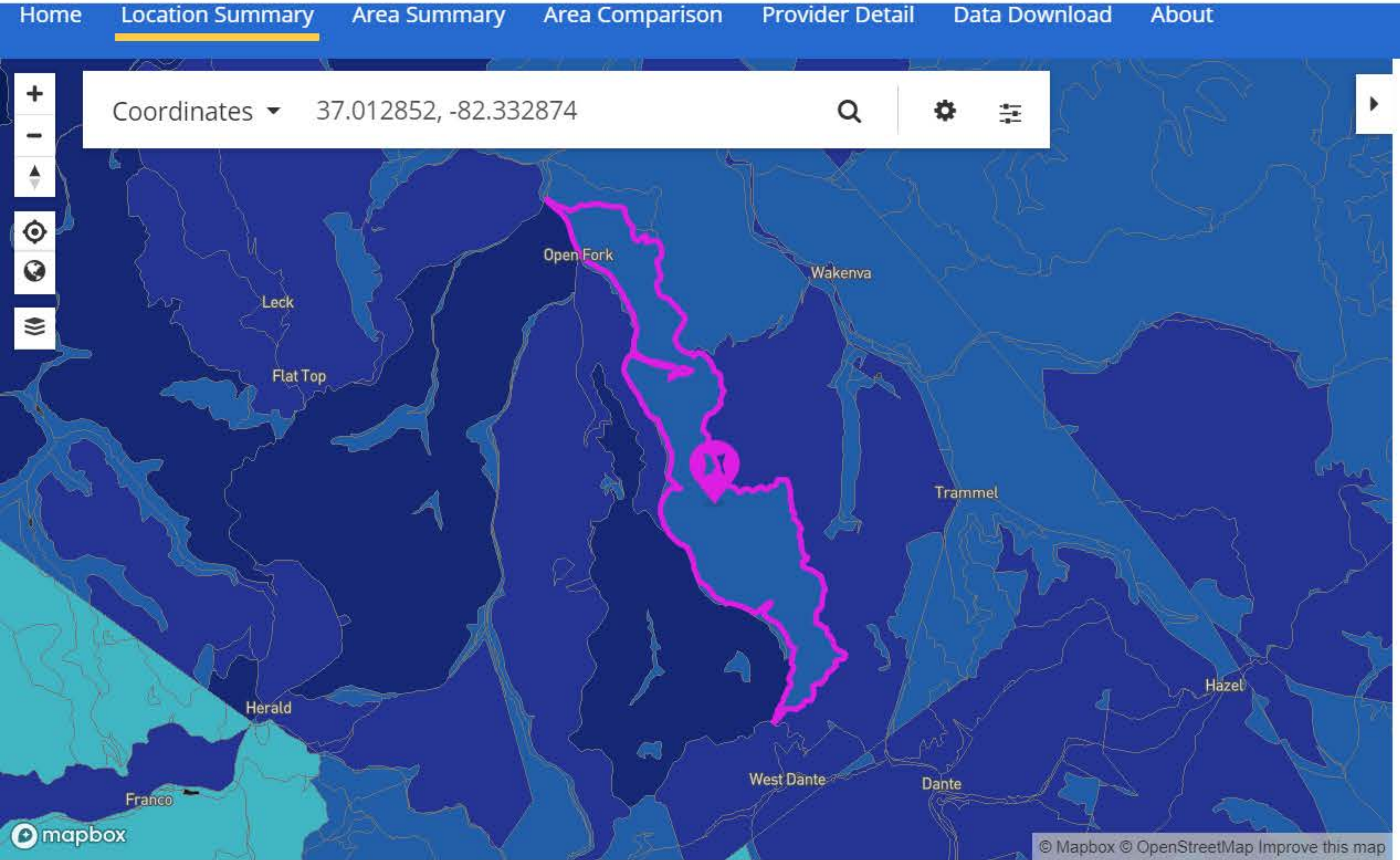
Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 4/21/2019 37°02'23.57" N 82°21'51.50" W elev 0 ft eye alt 23281 ft





### All Providers Reporting Service

Census block ID: 510510404002003

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Open Fork, Virginia

Get Directions History

Places

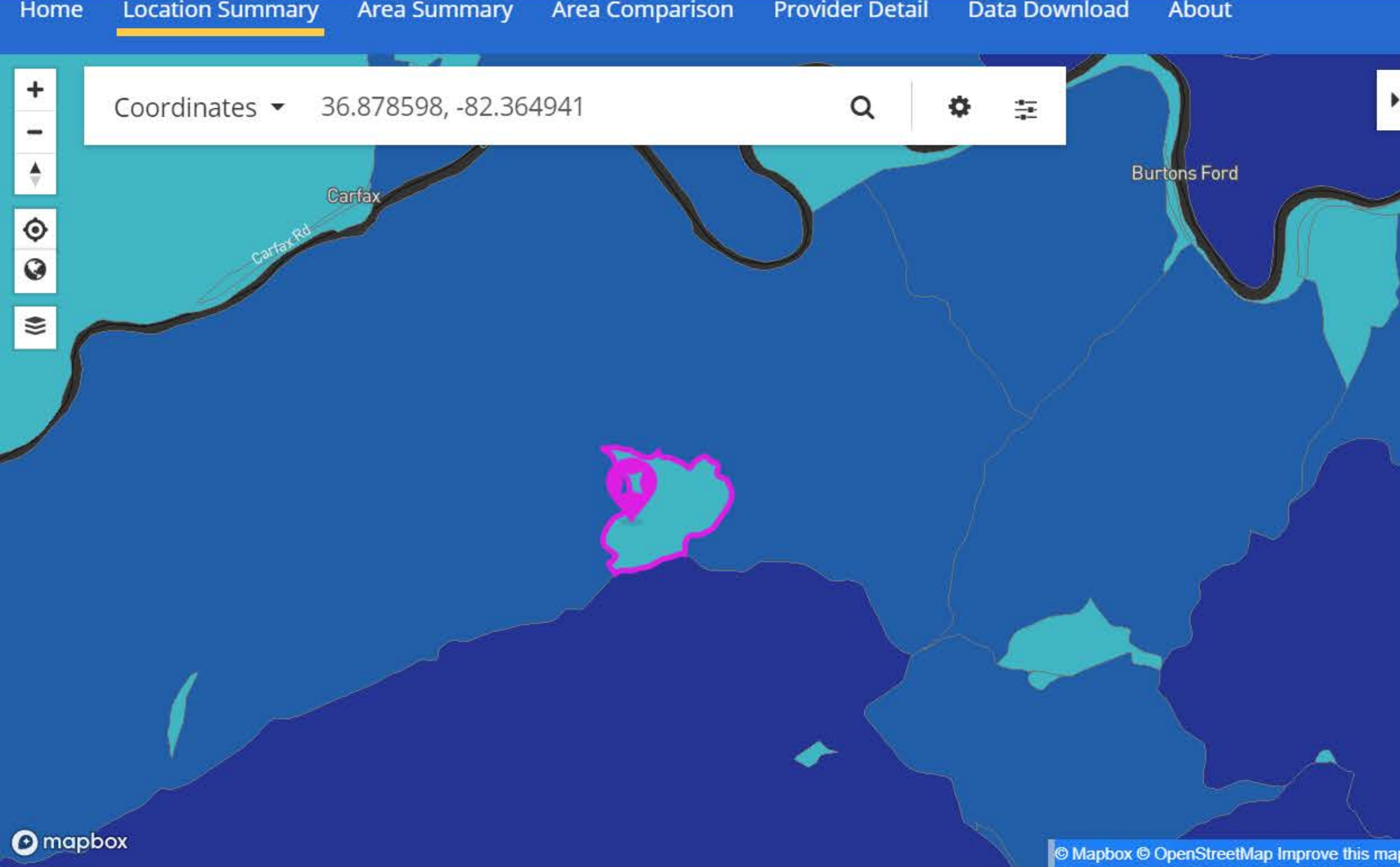
- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

- Layers
- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Map showing the location of Open Fork, Virginia, with a yellow outline highlighting the service area. The map includes labels for John F. Rose Cemetery, Sandy Ridge Rescue Squad, and various roads (643, 652, 651, 644, 645, 650, 627, 63, 655, 715, 656, 63, 626, 694, 608, 626, 627, 650, 627, 741, 651).

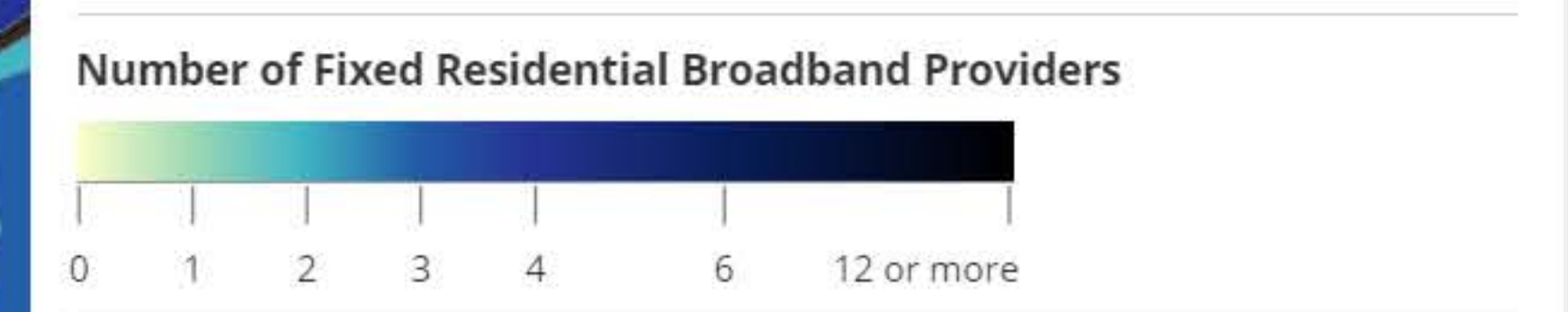
Imagery Date: 4/21/2019 37°00'52.99" N 82°19'56.67" W elev 0 ft eye alt 35780 ft





### All Providers Reporting Service

Census block ID: 511670303001034



**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Burtons Ford Road, Saint Paul, VA

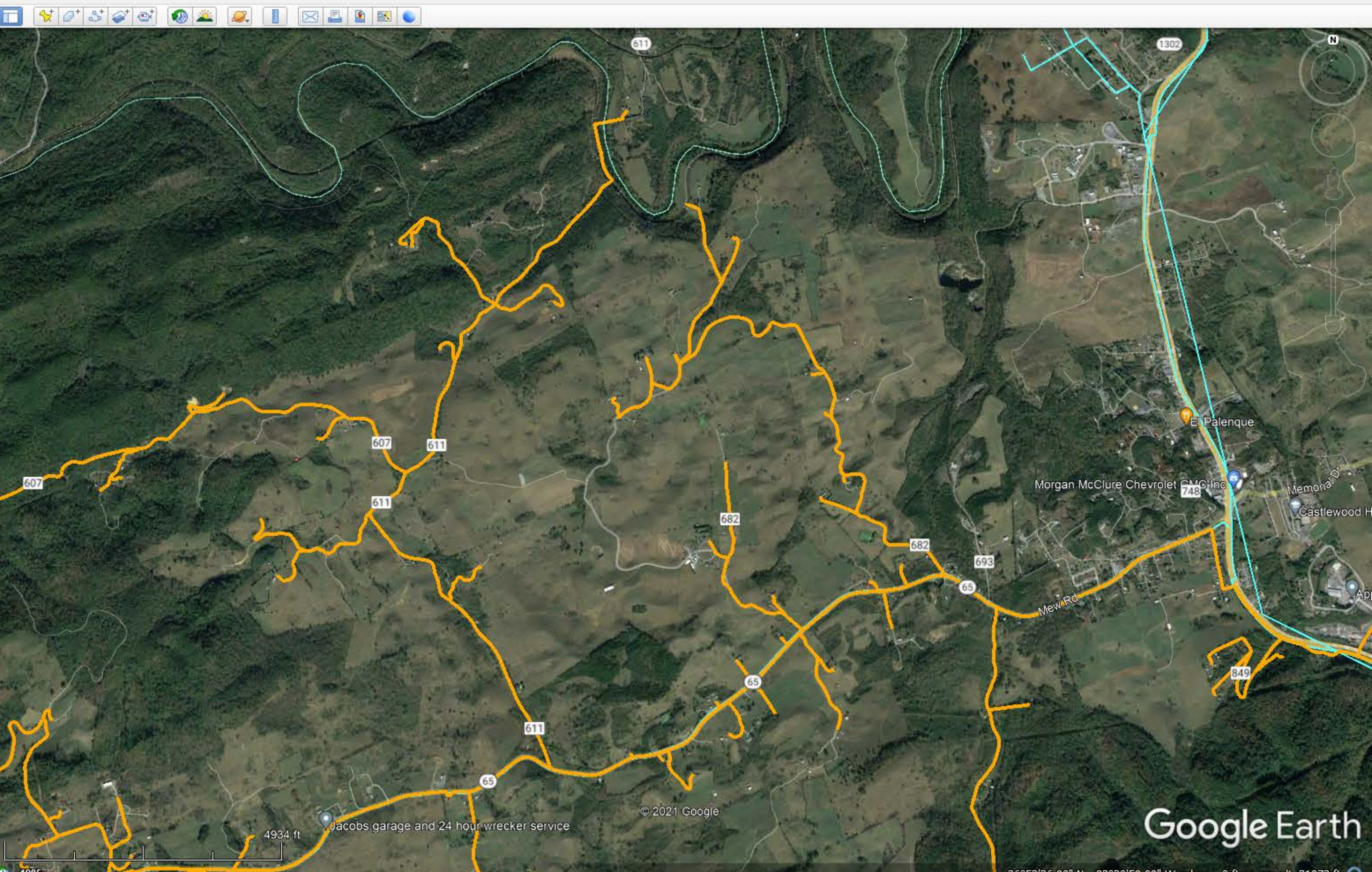
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 36.874692, -82.346169

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**All Providers Reporting Service**

Census block ID: 511670303001049

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Burtons Ford Road, Saint Paul, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/17/2019 36°52'28.72" N 82°20'05.36" W elev 0 ft eye alt 21973 ft



Coordinates 36.84641, -82.38173

mapbox

**All Providers Reporting Service**

Census block ID: 511670303001085



**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

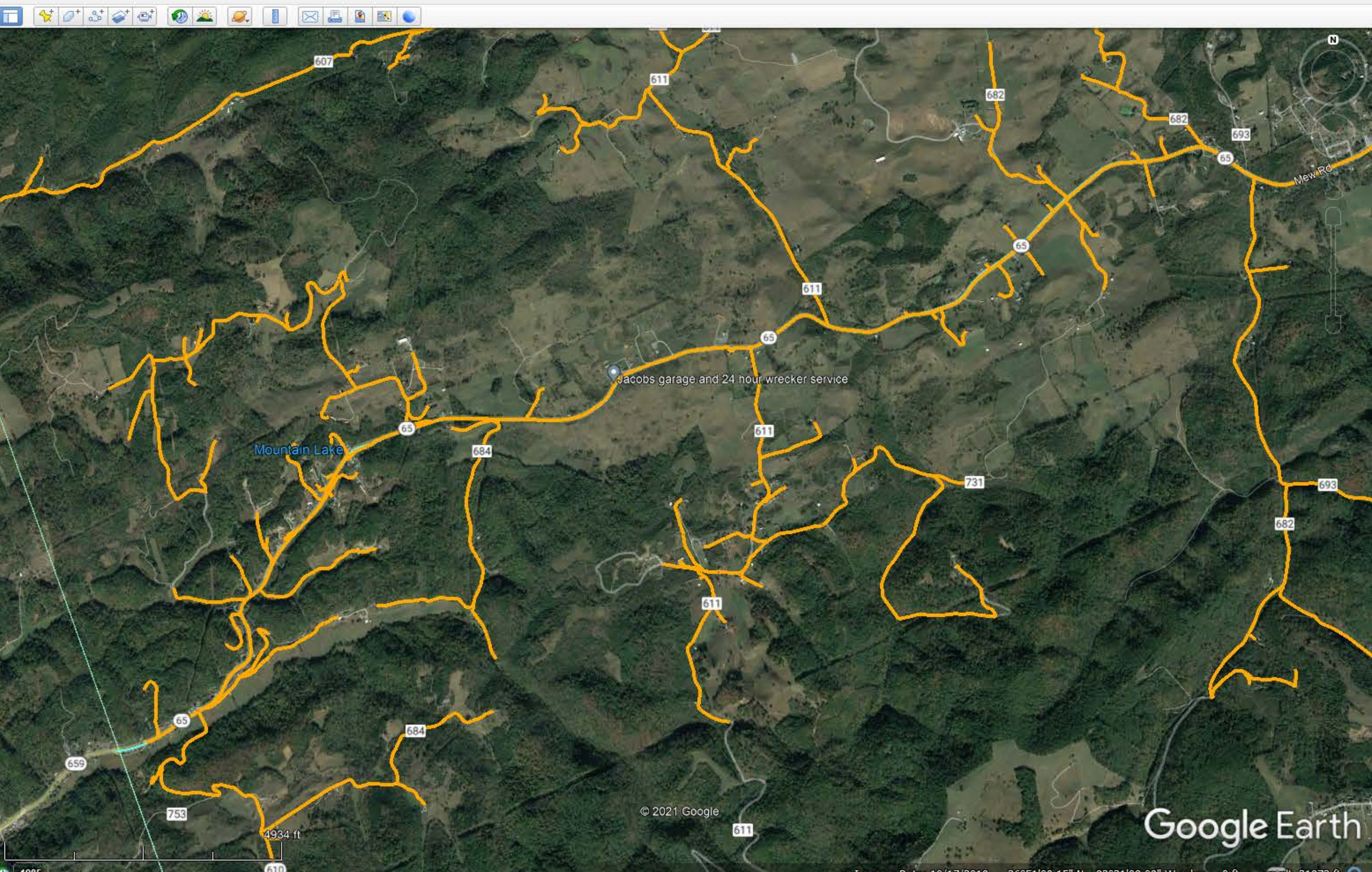
Search: Burtons Ford Road, Saint Paul, VA

Places:

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Location Summary | Fixed Broadband

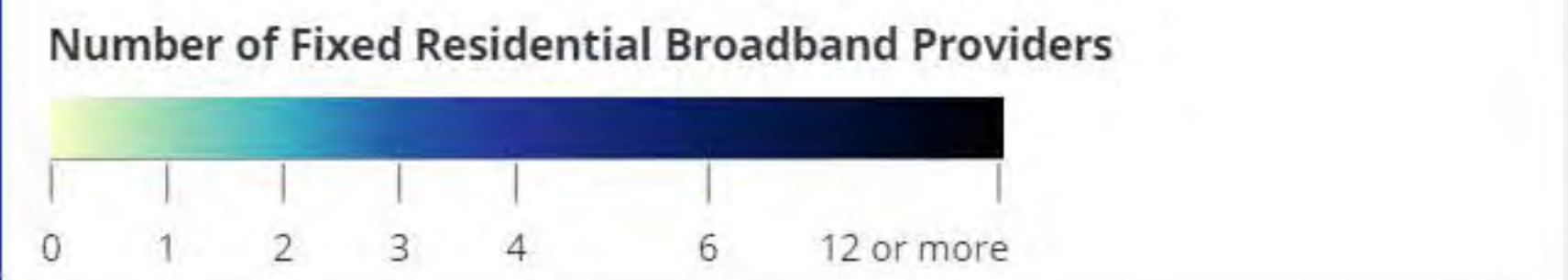
Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.841489, -82.365234

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### All Providers Reporting Service

Census block ID: 511670303002042



**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Google Earth Pro

Search Venus Drive, Castlewood, VA

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

Layers

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  - Borders and Labels
  - Places
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  - Roads and Transportation
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  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain

Google Earth

Imagery Date: 10/17/2019 36°50'15.55" N 82°21'45.70" W elev 0 ft eye alt 13204 ft



Coordinates 36.852485, -82.309835

36.852485, -82.309835  
Report an error

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### All Providers Reporting Service

Census block ID: 511670303002019

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
Speed ≥ 25/3 Mbps  
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Venus Drive, Castlewood, VA  
ex: Pizza near Clayville, NY

Get Directions History

Venus Dr

#### Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

#### Layers

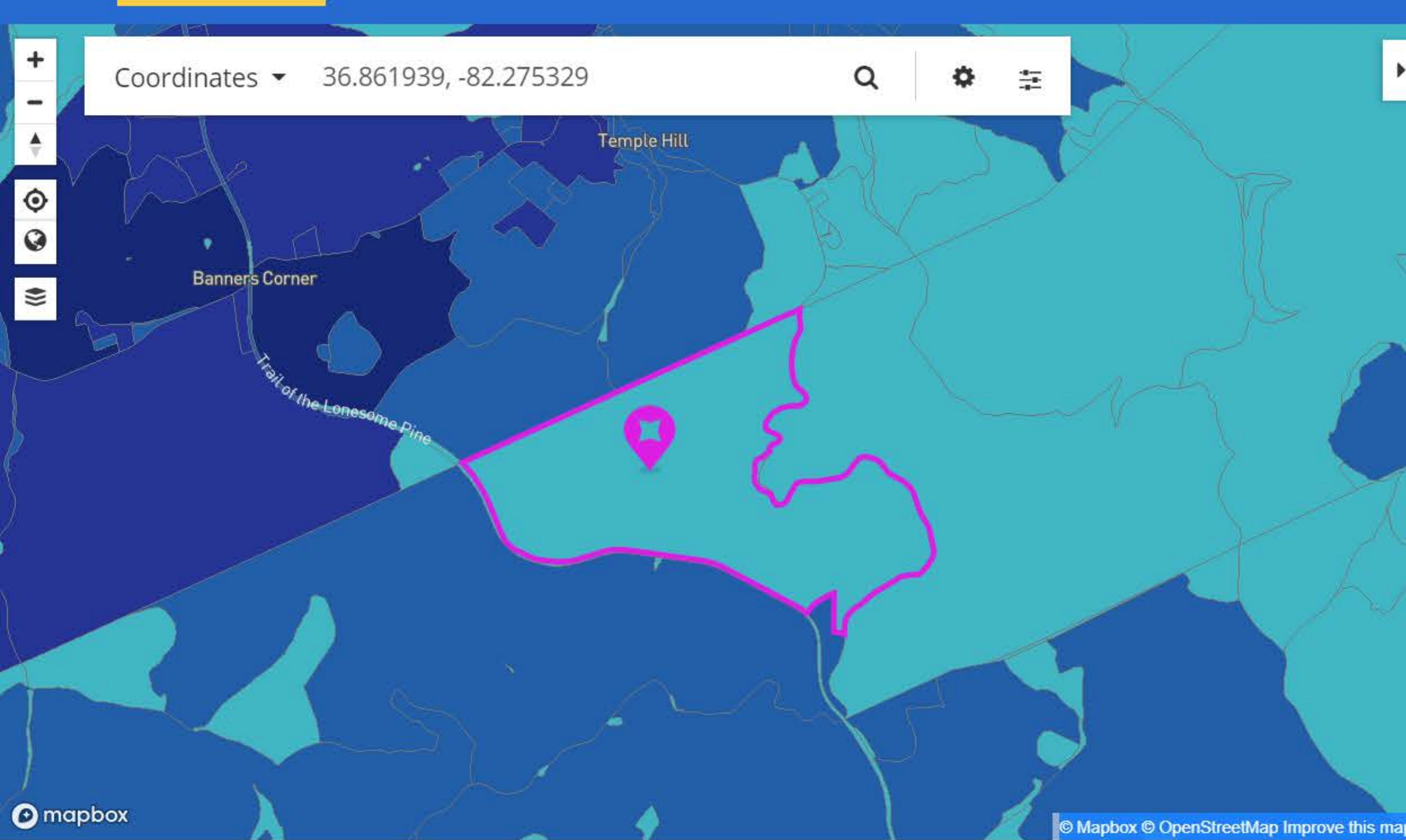
- Primary Database
  - New Layers
  - Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain

© 2021 Google

Google Earth

Imagery Date: 10/17/2019 36°51'04.79" N 82°19'46.33" W elev 0 ft eye alt 13204 ft





**All Providers Reporting Service**

Census block ID: 511670306003040

**Number of Fixed Residential Broadband Providers**

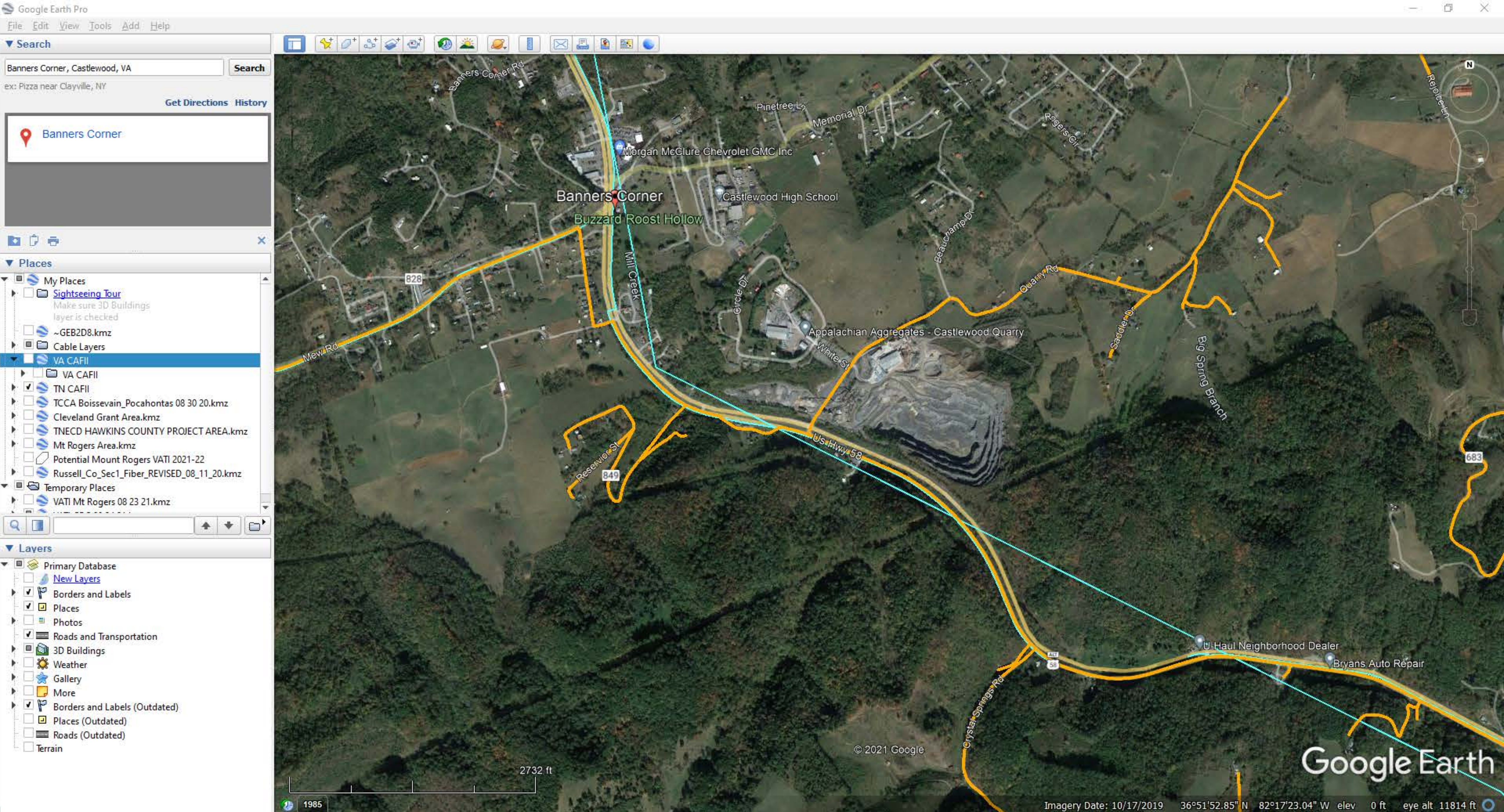
**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3





Coordinates 36.855421, -82.223333

mapbox

**All Providers Reporting Service**

Census block ID: 511670306002060

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Banners Corner, Castlewood, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
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- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/17/2019 36°51'57.54" N 82°15'40.80" W elev 0 ft eye alt 11814 ft



Coordinates

Mapbox © OpenStreetMap Improve this map

**All Providers Reporting Service**

Census block ID: 511670306002060

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

**Search**

Banners Corner, Castlewood, VA

ex: Pizza near Clayville, NY

**Places**

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/17/2019 36°51'48.42" N 82°14'56.69" W elev 0 ft eye alt 18164 ft





**All Providers Reporting Service**

Census block ID: 511670306002028

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

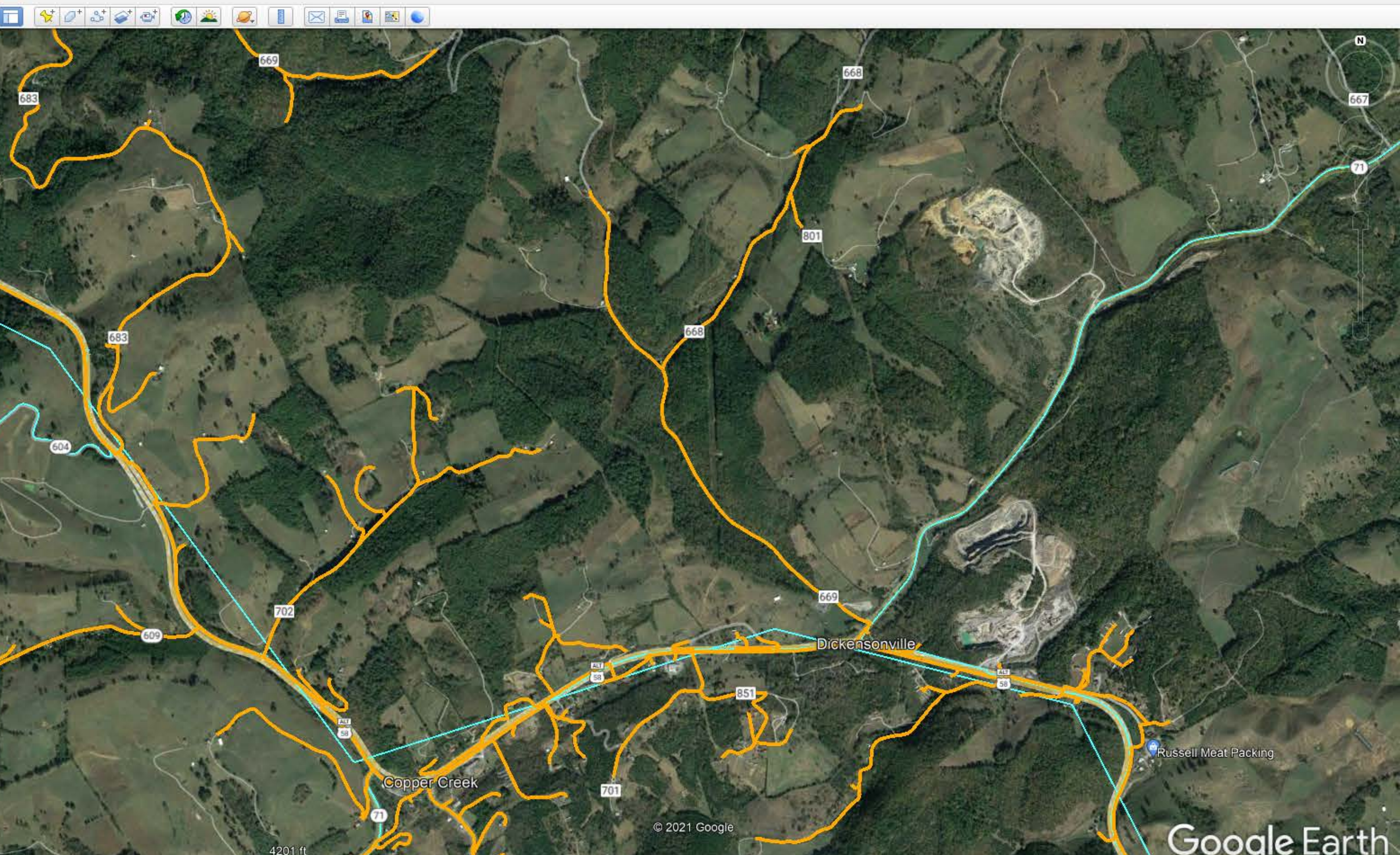
Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
iGo Technology, Inc.	Fixed Wireless	20	2
VSAT Systems, LLC	Satellite	2	1.3

**Places**

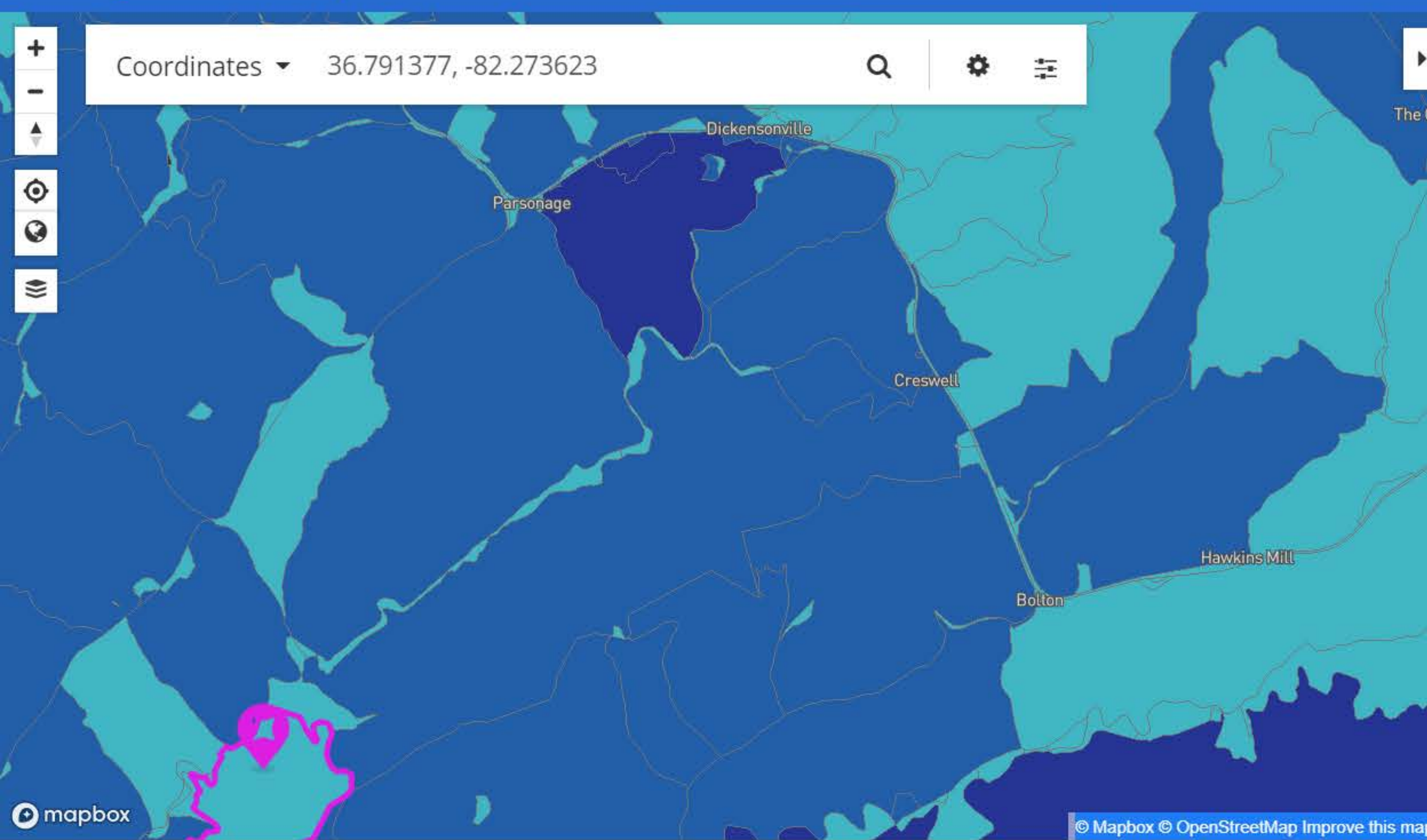
- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







### All Providers Reporting Service

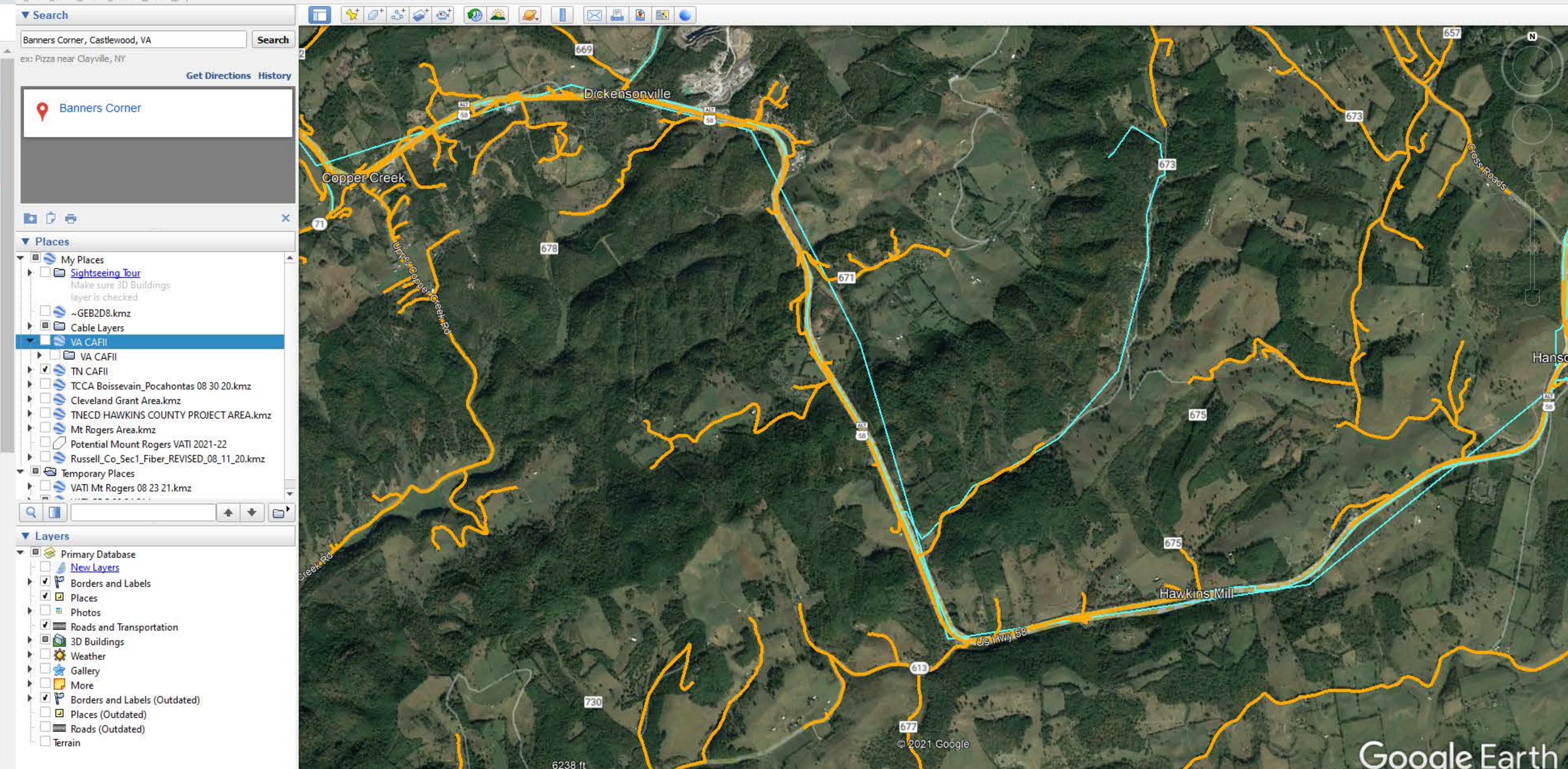
Census block ID: 511670303004085

#### Number of Fixed Residential Broadband Providers

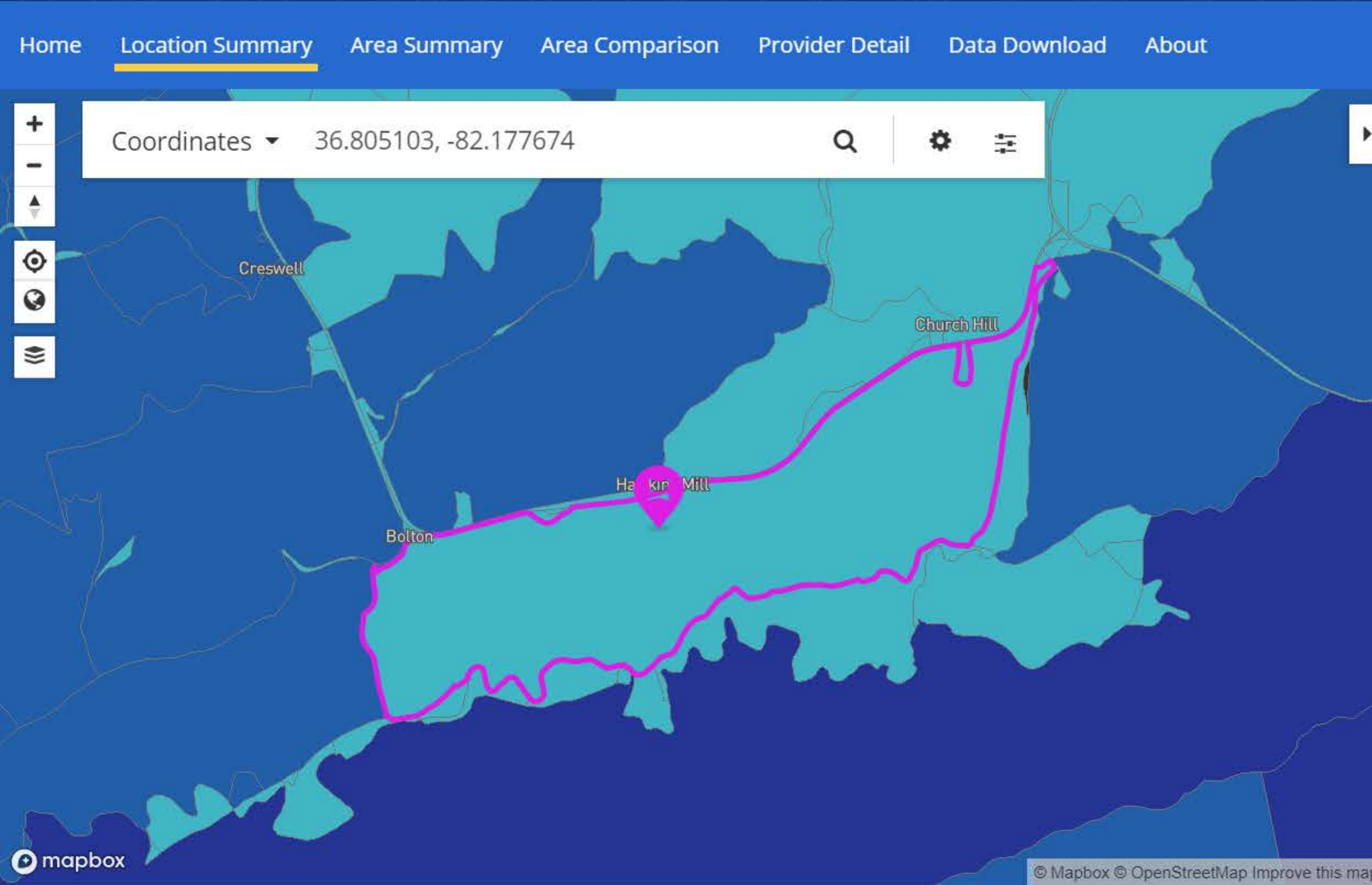
#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3







**All Providers Reporting Service**

Census block ID: 511670303004034

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

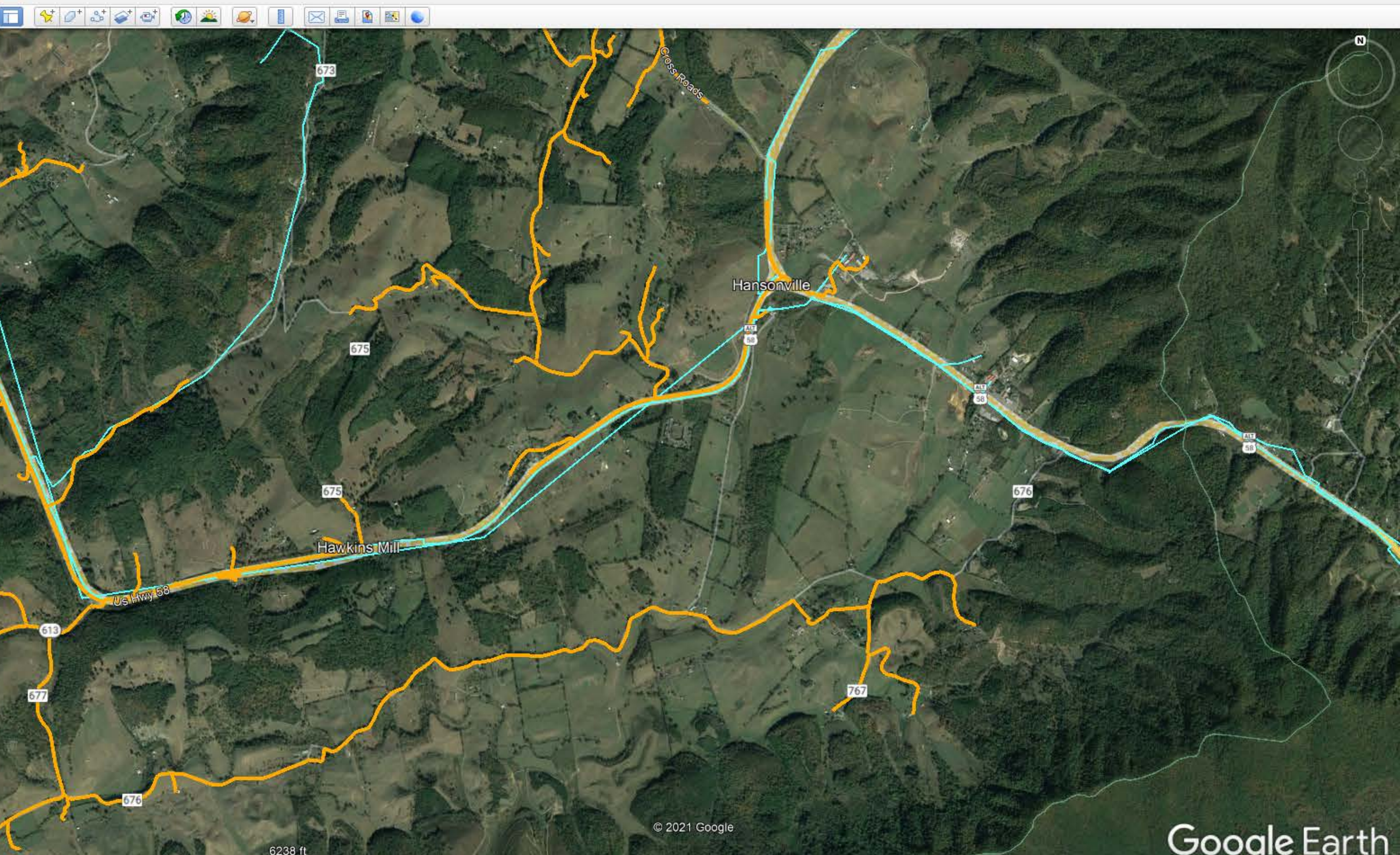
Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
iGo Technology, Inc.	Fixed Wireless	20	2
VSAT Systems, LLC	Satellite	2	1.3

**Places**

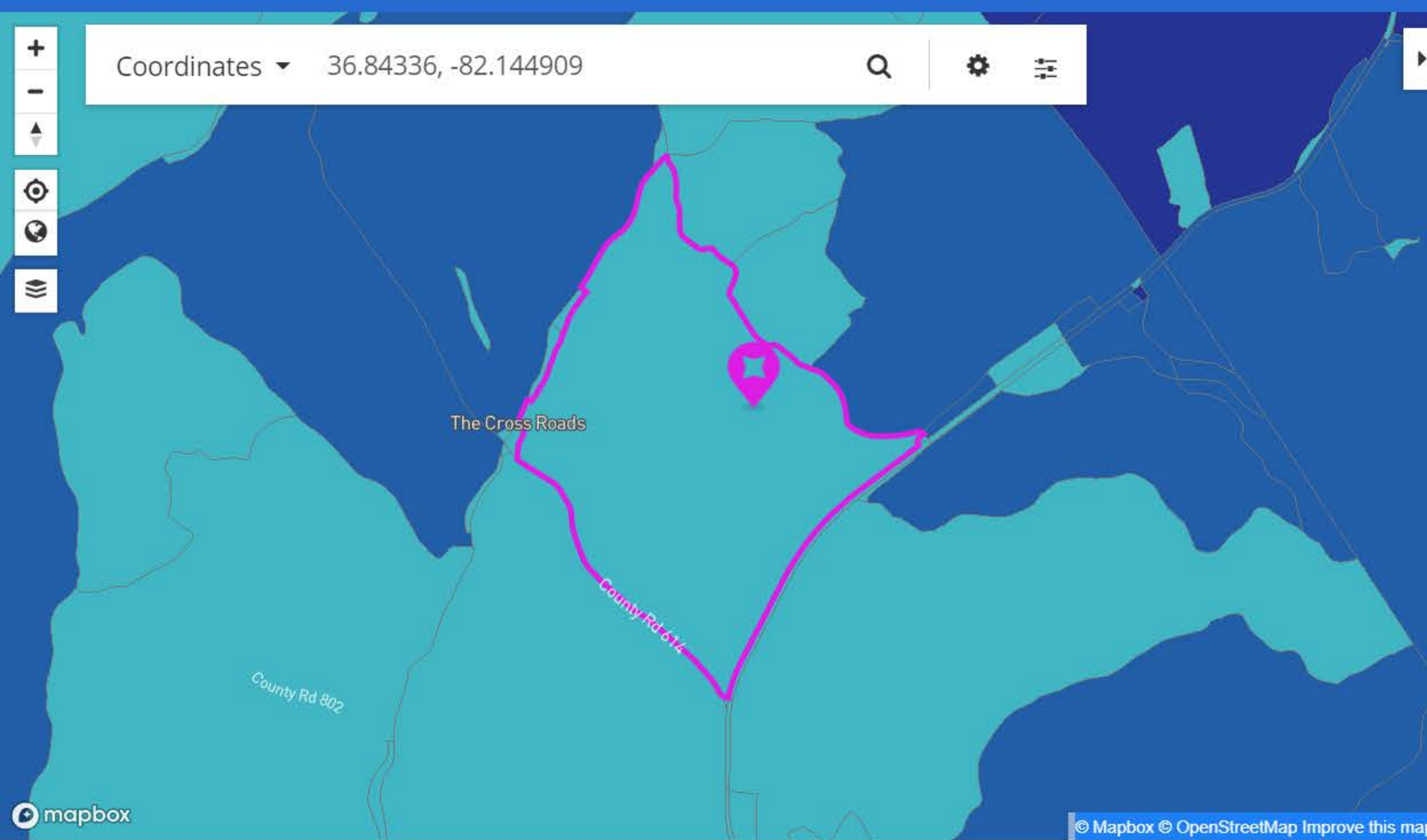
- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







**All Providers Reporting Service**

Census block ID: 511670304013054

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
iGo Technology, Inc.	Fixed Wireless	20	2
VSAT Systems, LLC	Satellite	2	1.3

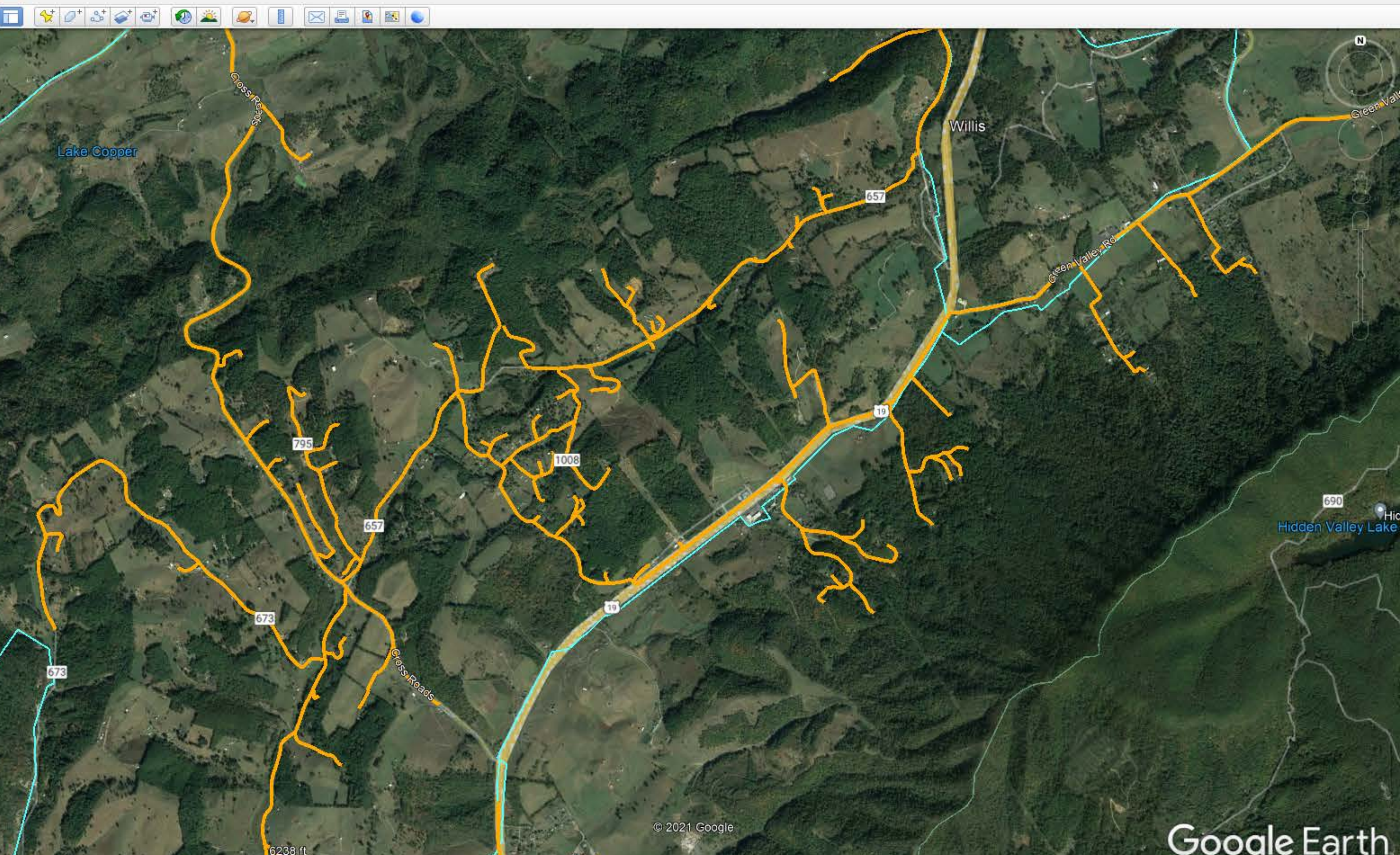
Search: Banners Corner, Castlewood, VA

Places:

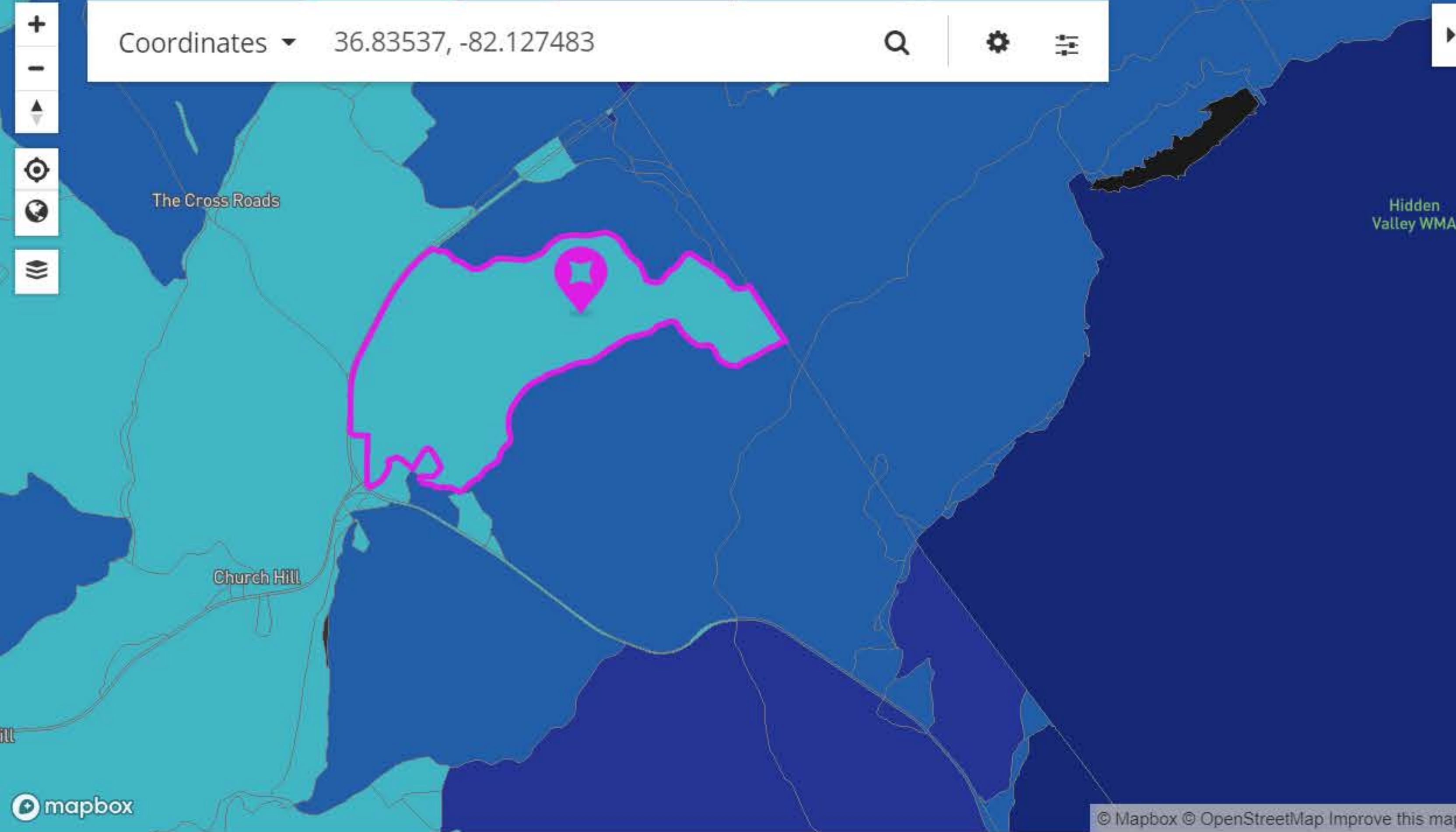
- My Places
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

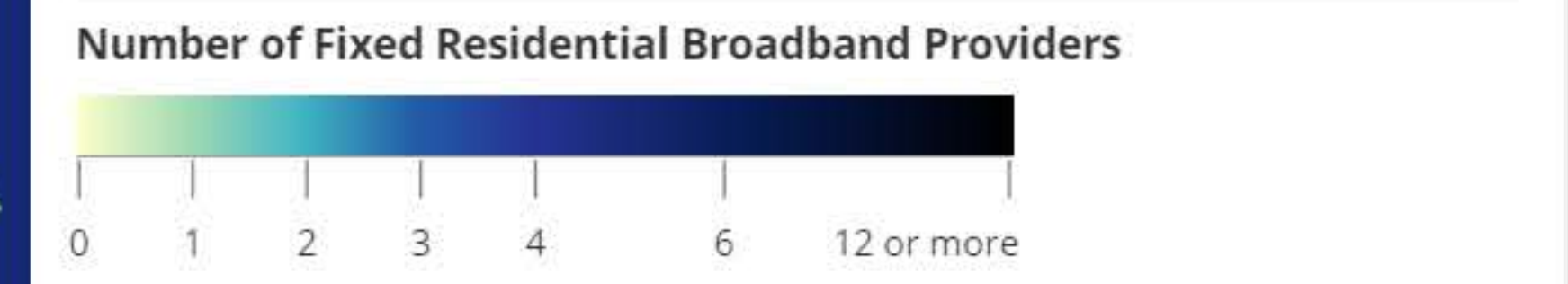






**All Providers Reporting Service**

Census block ID: 511670304011100



**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

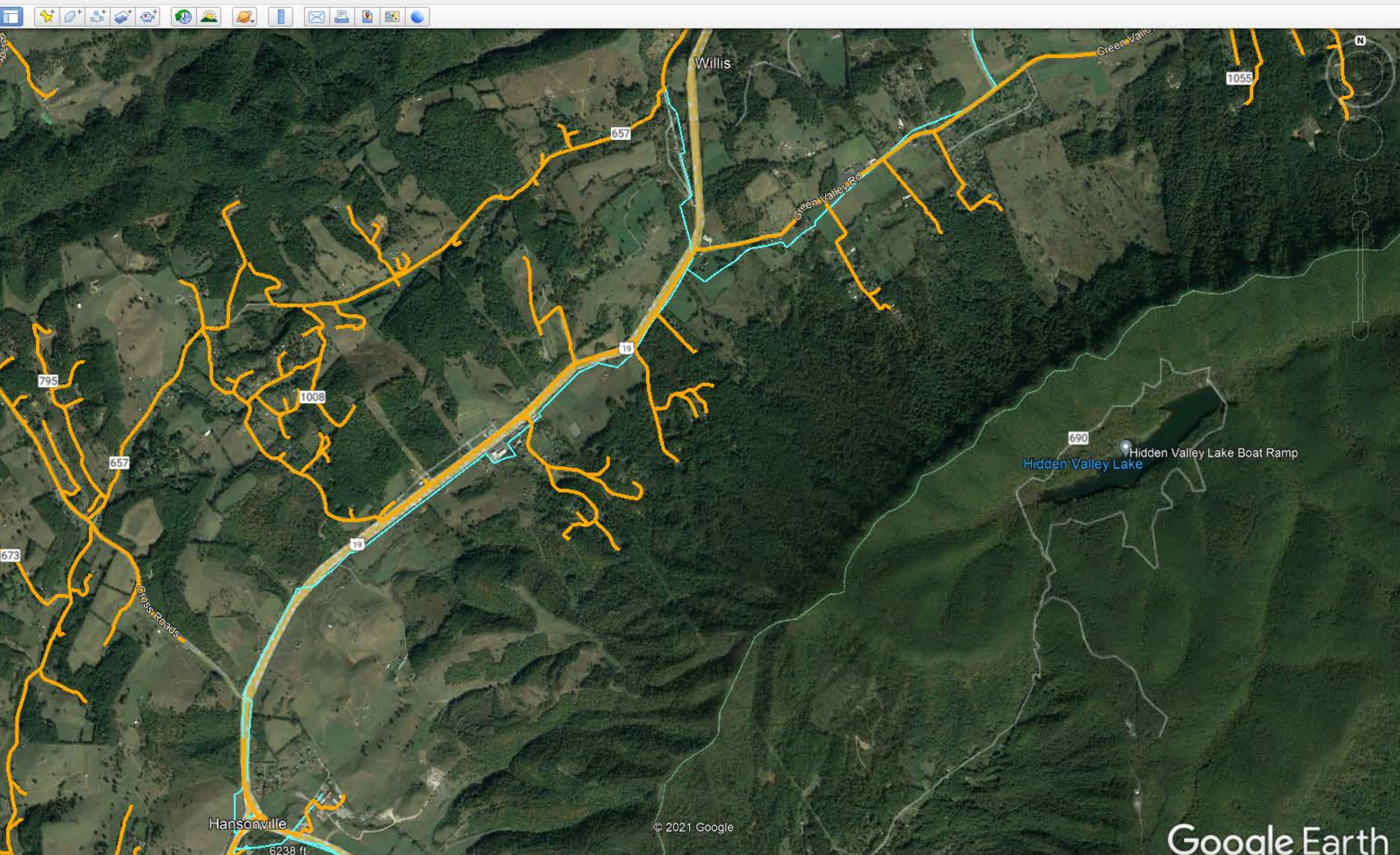
Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
iGo Technology, Inc.	Fixed Wireless	20	2
VSAT Systems, LLC	Satellite	2	1.3

**Places**

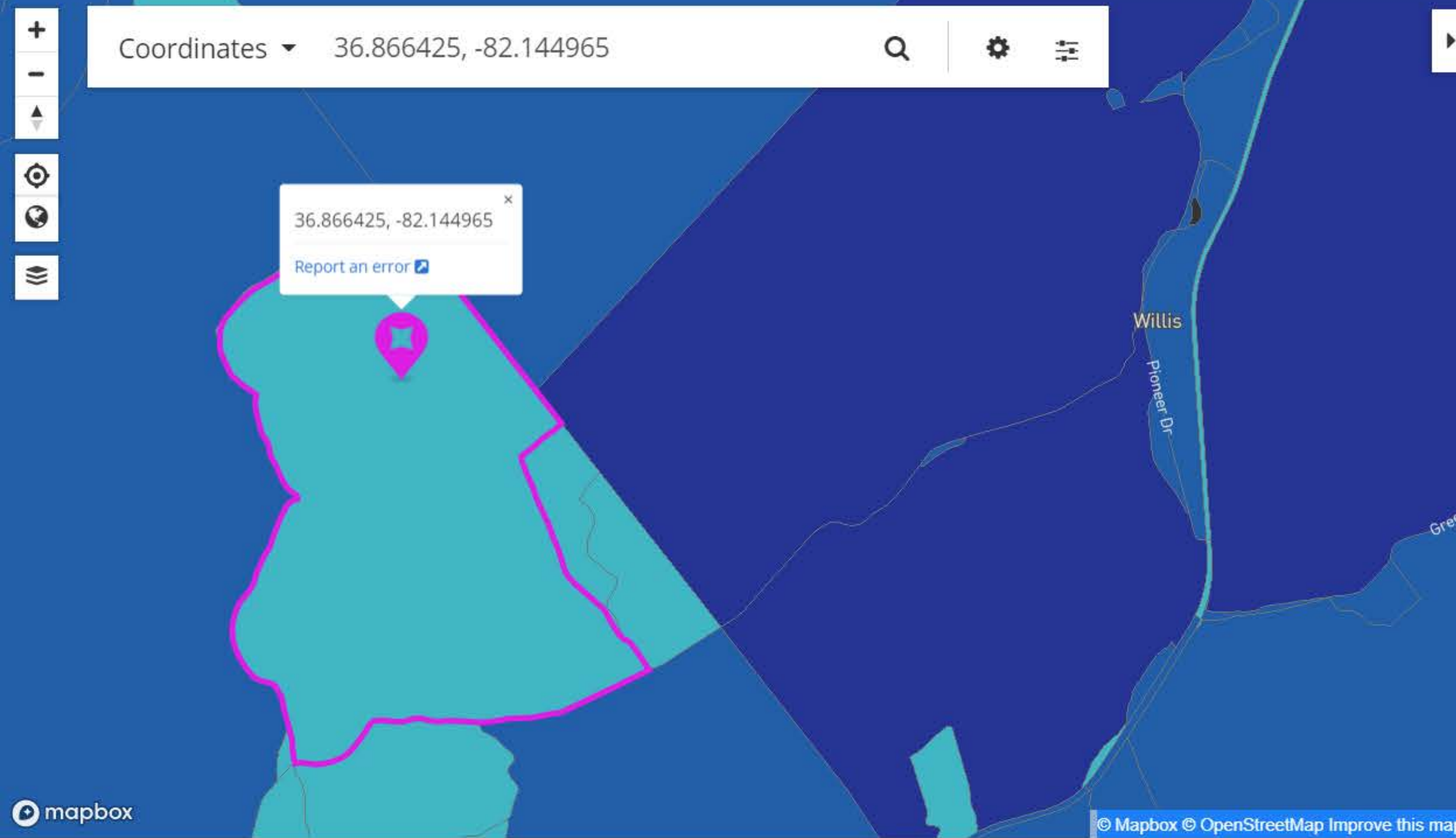
- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

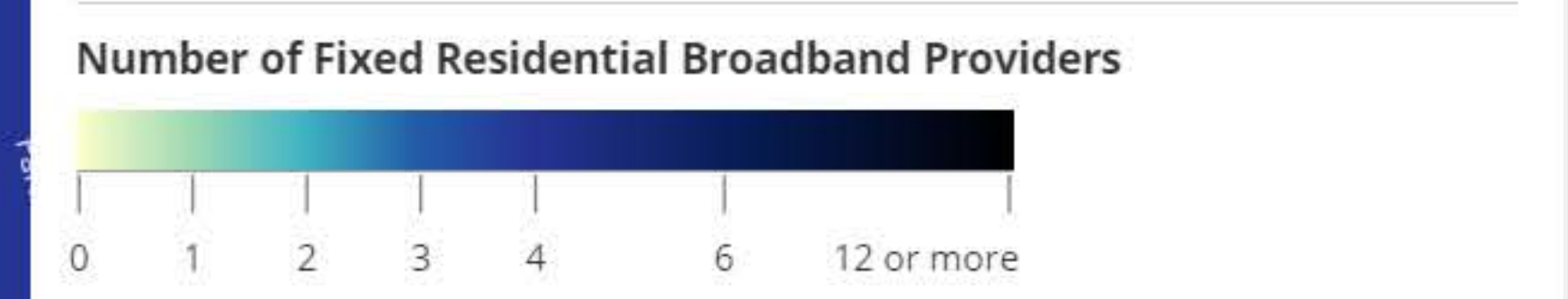






**All Providers Reporting Service**

Census block ID: 511670304013027



**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

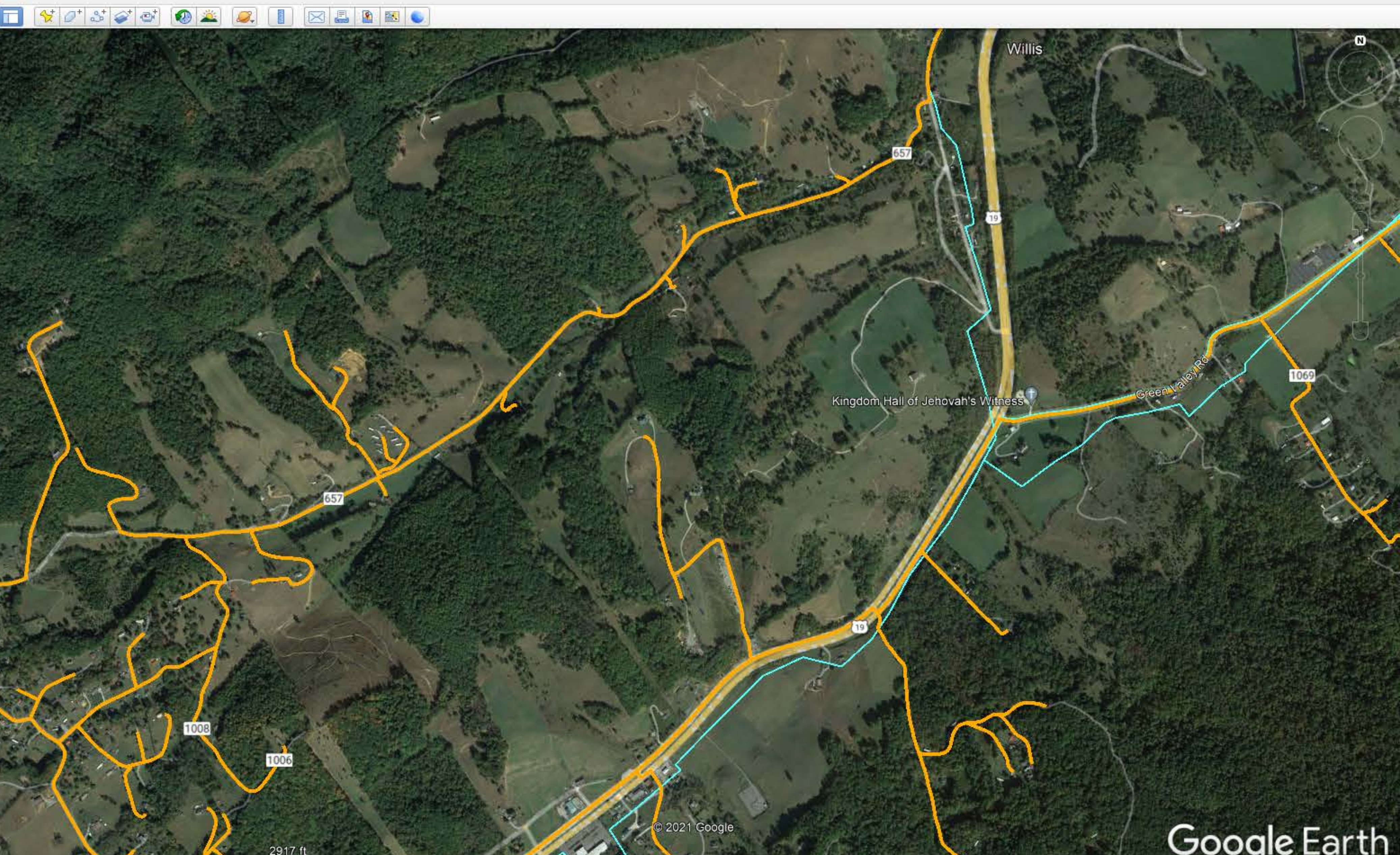
Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

**Places**

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 36.902561, -82.167693

Report an error

**All Providers Reporting Service**

Census block ID: 511670306002000

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth



Coordinates 36.899112, -82.155688

36.899112, -82.155688  
Report an error

**All Providers Reporting Service**

Census block ID: 511670304014029

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

ex: Pizza near Clayville, NY

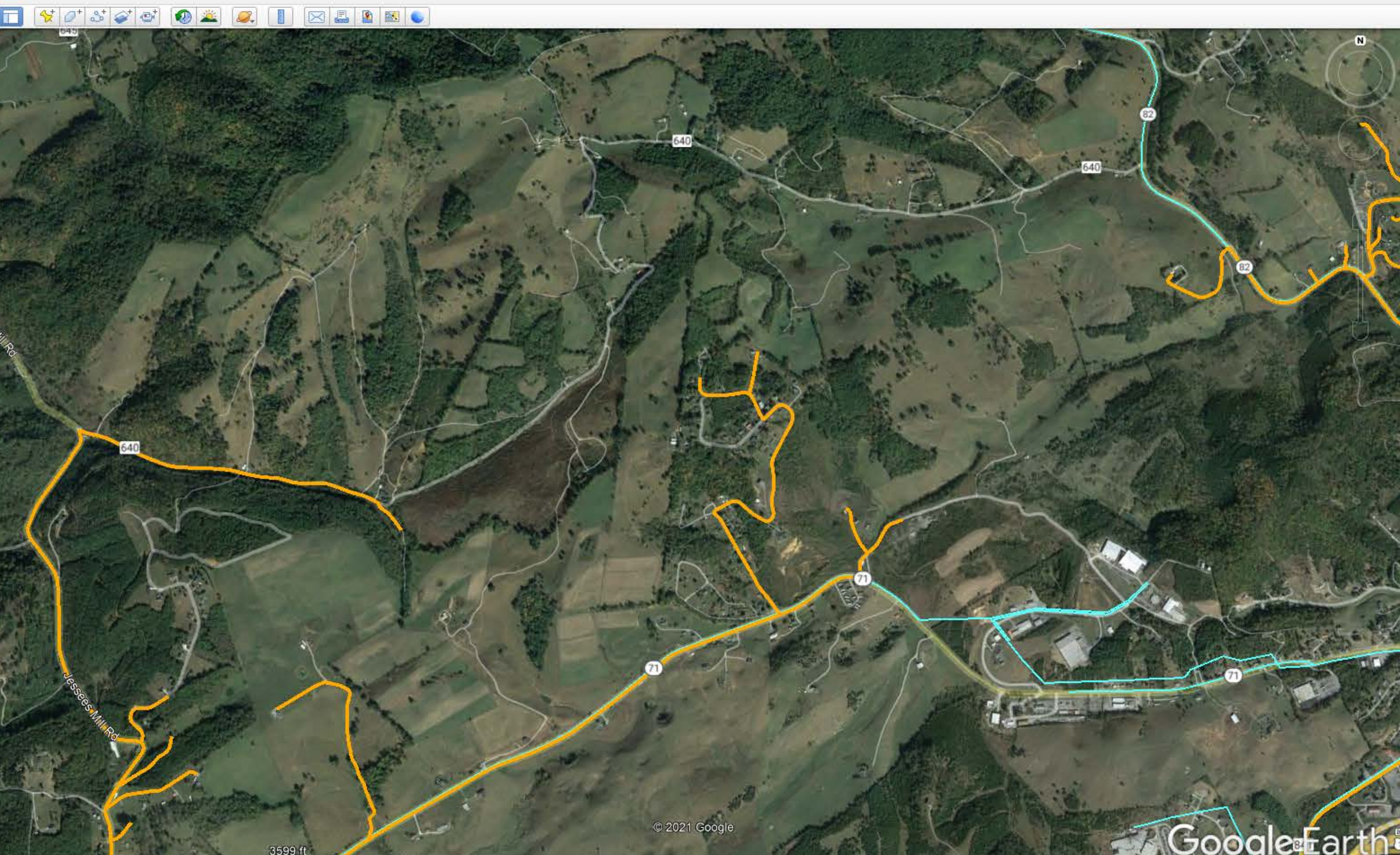
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 36.912865, -82.094588

36.912865, -82.094588  
Report an error

River Mountain Rd  
County Rd 867

mapbox © Mapbox © OpenStreetMap Improve this map

**All Providers Reporting Service**

Census block ID: 511670302005132

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Candler, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/17/2019 36°54'37.64" N 82°04'56.86" W elev 0 ft eye alt 16174 ft



**Federal Communications Commission** Fixed Broadband Deployment

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.9206, -82.038456

**All Providers Reporting Service**

Census block ID: 511670302005100

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

Places:

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

36°54'57.08" N 82°03'38.90" W elev 0 ft eye alt 16174 ft



### All Providers Reporting Service

Census block ID: 511670304022132

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

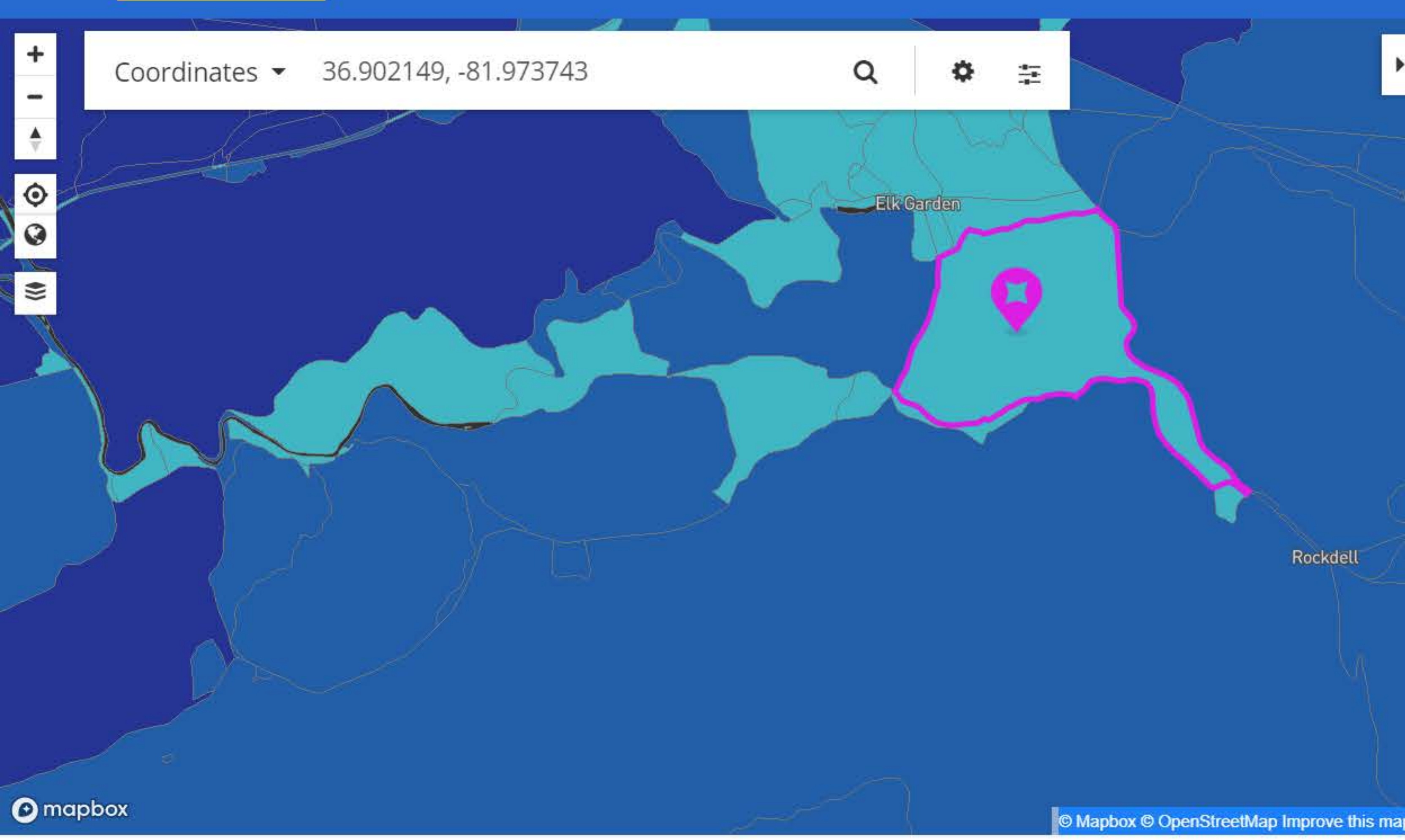
Places:

- My Places
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers:

- Primary Database
- Borders and Labels
- Places
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





**All Providers Reporting Service**

Census block ID: 511670304011057

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Verizon Communications Inc.	ADSL	1.5	0.384

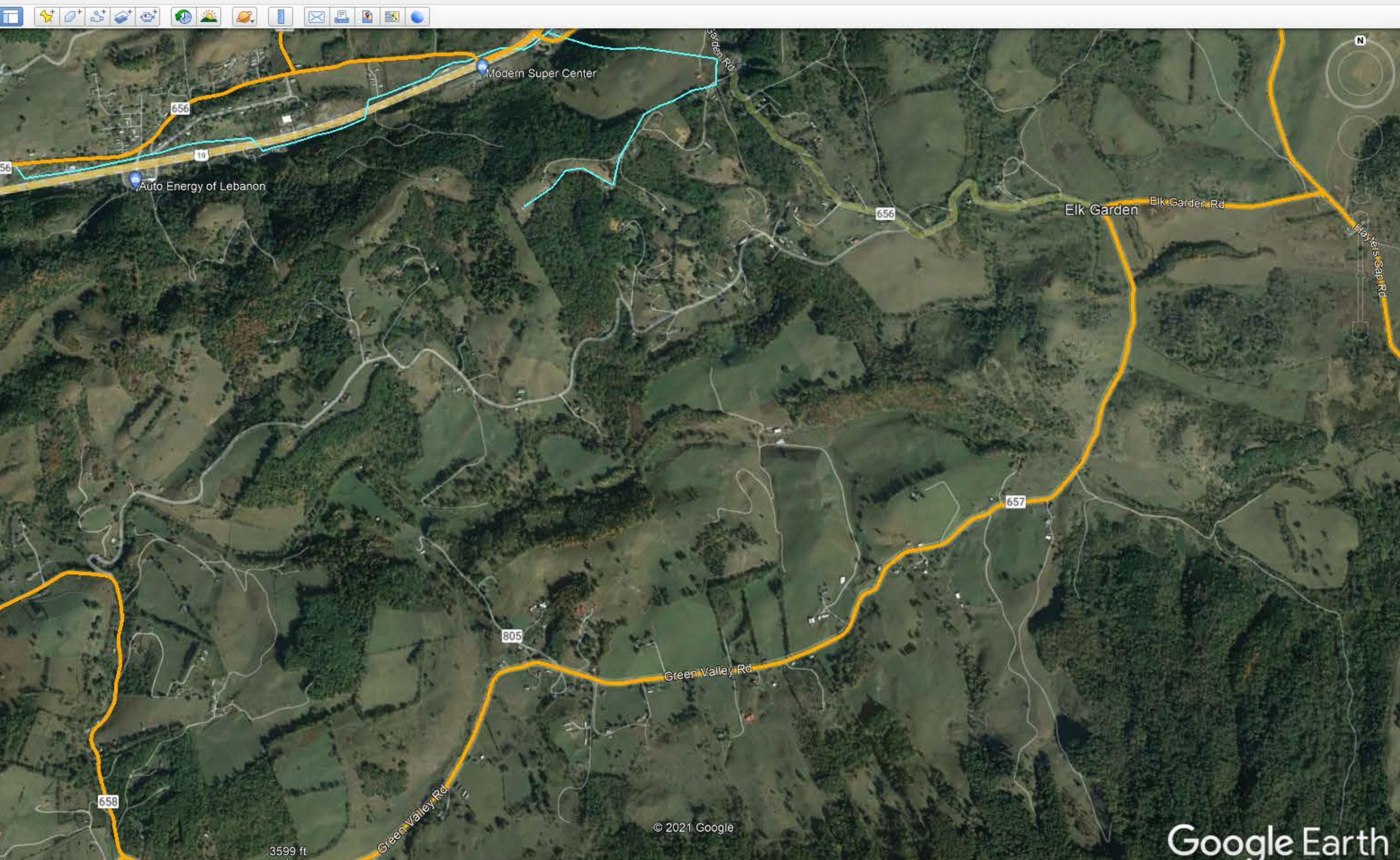
Search: Candler, VA

Places:

- My Places
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- Borders and Labels
- Places
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 36.898805, -82.009948

36.898805, -82.009948  
Report an error

Elk Garden

Rockdell

mapbox

### All Providers Reporting Service

Census block ID: 511670304011036

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Candler, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Auto Energy of Lebanon

Modern Super Center

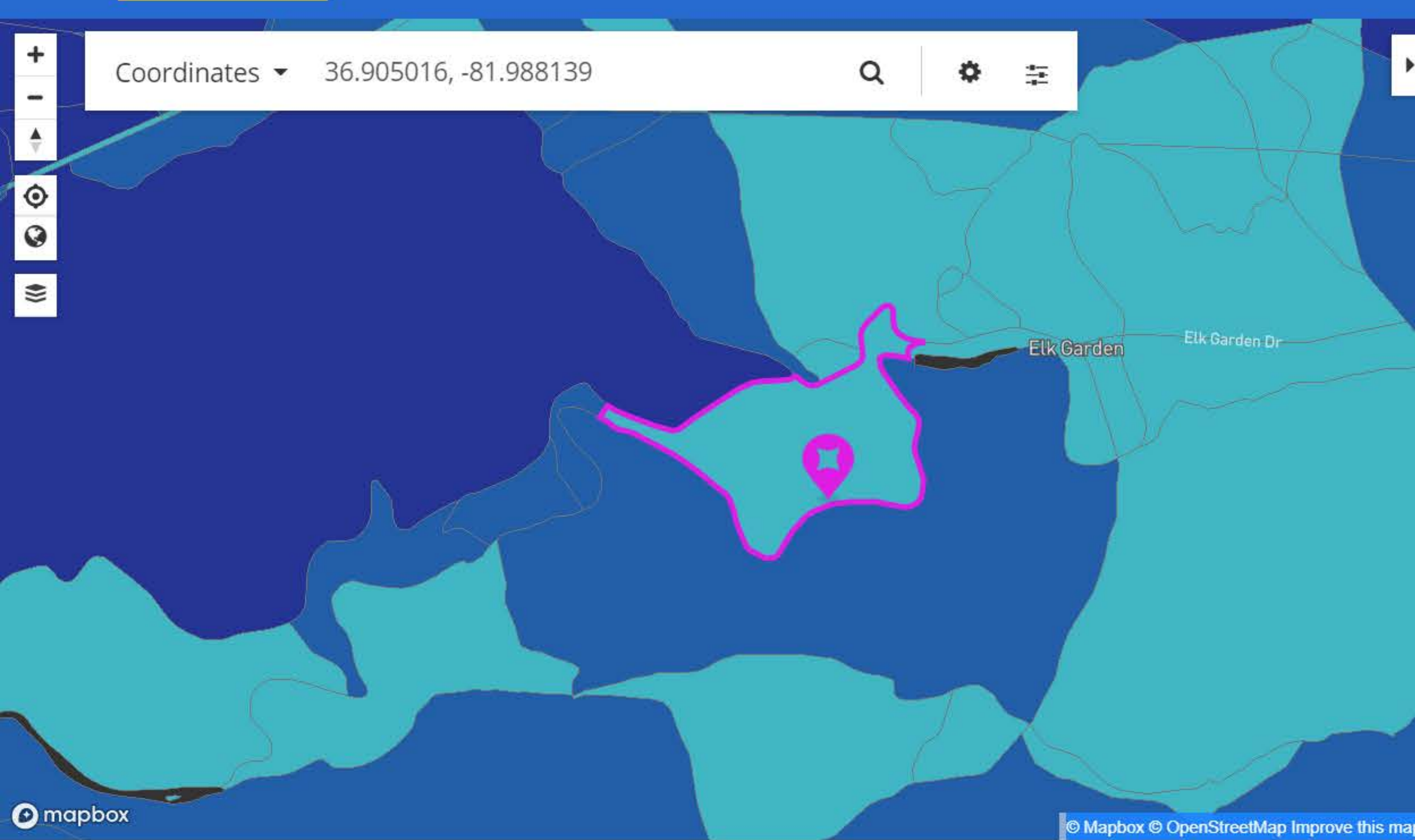
Elk Garden

Green Valley Rd

Google Earth

Imagery Date: 10/17/2019 36°53'57.42" N 81°59'57.69" W elev 0 ft eye alt 16174 ft





**All Providers Reporting Service**

Census block ID: 511670304011059

**Number of Fixed Residential Broadband Providers**

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

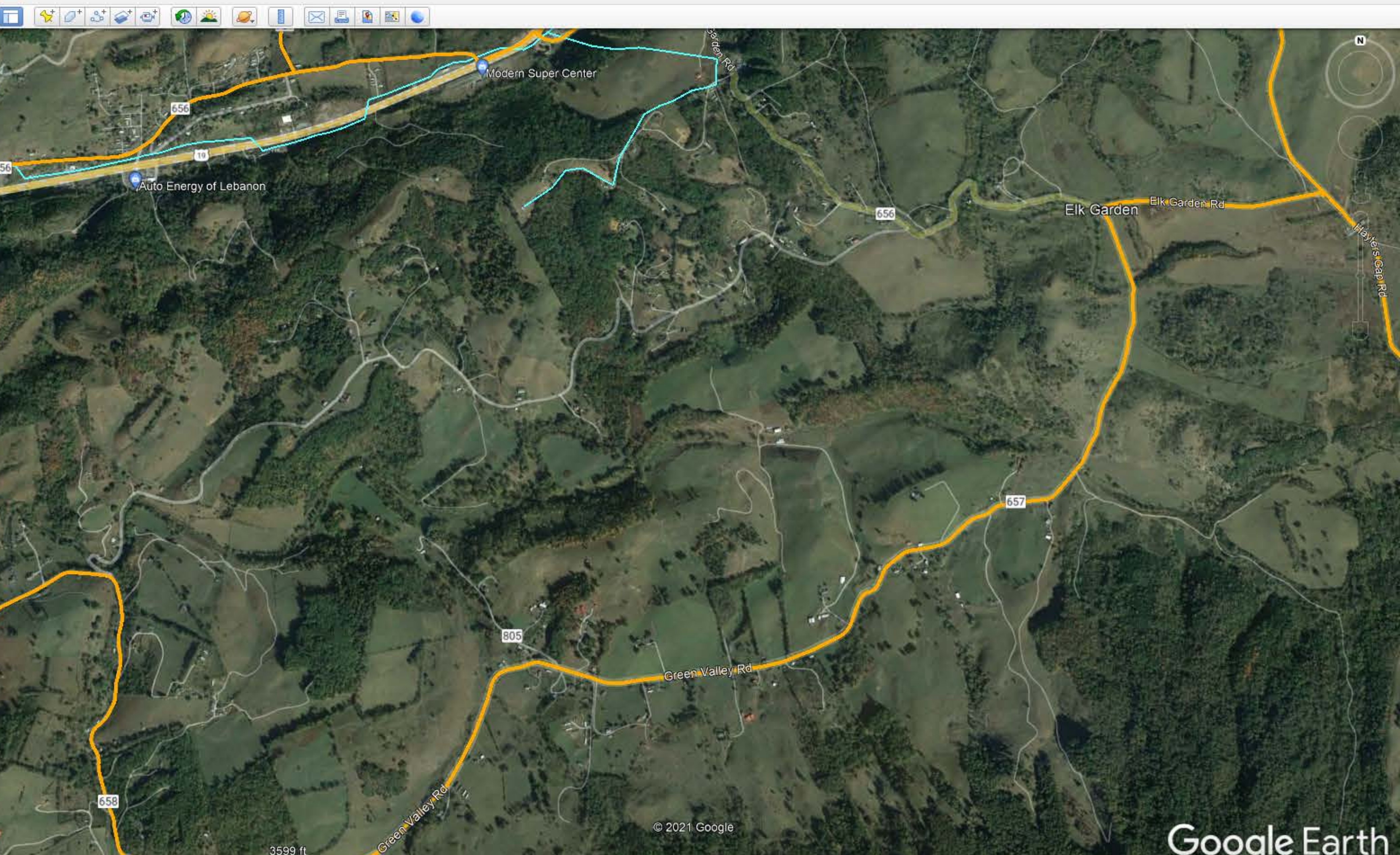
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 36.901695, -81.954606

mapbox © Mapbox © OpenStreetMap Improve this map

**All Providers Reporting Service**

Census block ID: 511670304021146

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Candler, VA

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/17/2019 36°54'20.70" N 81°54'45.95" W elev 0 ft eye alt 44203 ft



Coordinates 36.989064, -81.993275

mapbox © Mapbox © OpenStreetMap Improve this map

**All Providers Reporting Service**

Census block ID: 511670305002037

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
Verizon Communications Inc.	ADSL	3	0.768
VSAT Systems, LLC	Satellite	2	1.3

**Places**

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 36°58'59.66" N 82°01'50.96" W elev 0 ft eye alt 44203 ft



Coordinates 37.021258, -82.082878

Mapbox OpenStreetMap

### All Providers Reporting Service

Census block ID: 511670305001022

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

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Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
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- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 36°58'59.66" N 82°01'50.96" W elev 0 ft eye alt 44203 ft



Coordinates 36.973461, -82.080476

### All Providers Reporting Service

Census block ID: 511670302004031

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
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- Photos
- Roads and Transportation
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- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 36°58'59.66" N 82°01'50.96" W elev 0 ft eye alt 44203 ft



Coordinates 37.054979, -82.072496

### All Providers Reporting Service

Census block ID: 510270107002004

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

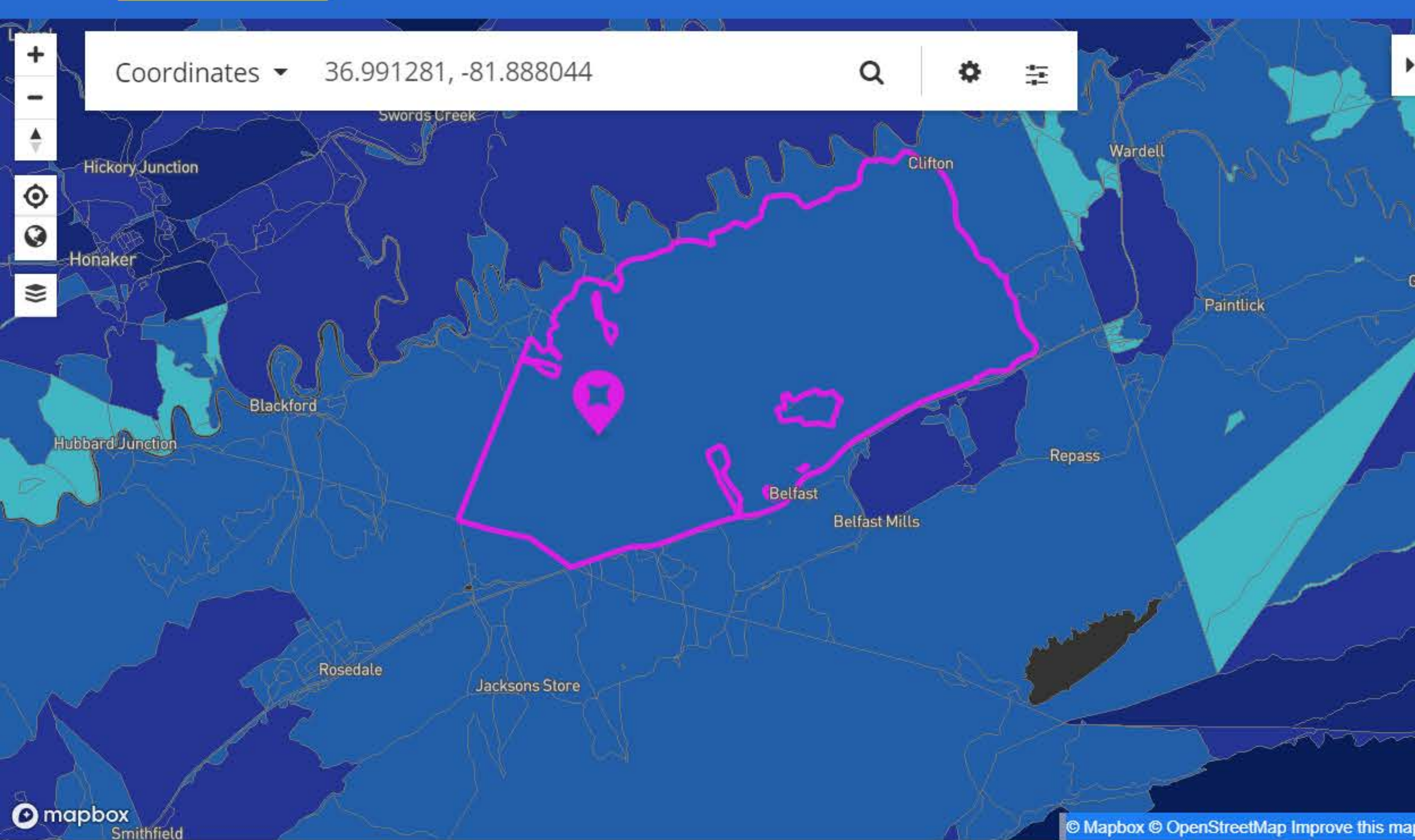
Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

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- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





**All Providers Reporting Service**

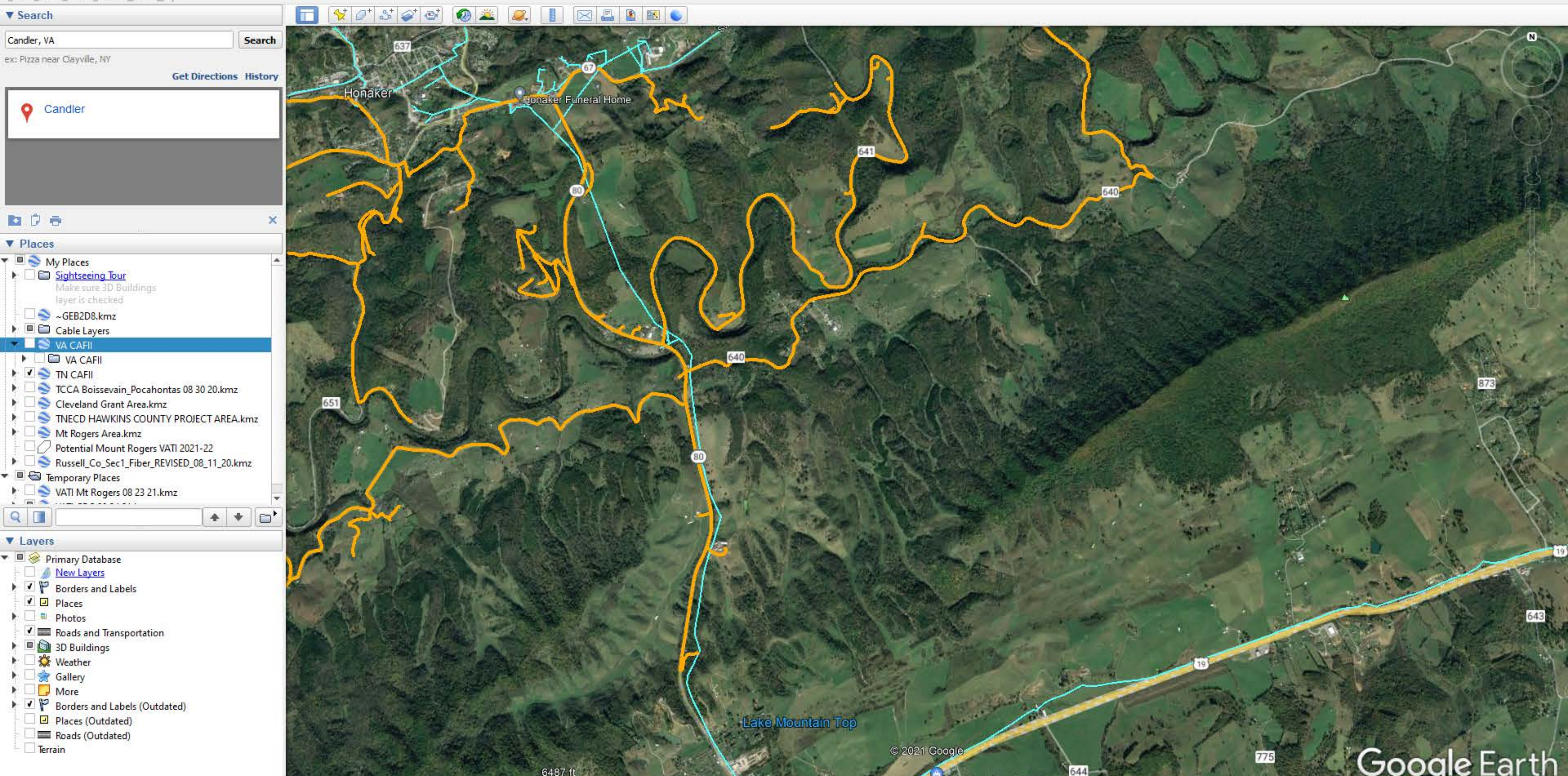
Census block ID: 511670304022010

**Number of Fixed Residential Broadband Providers**

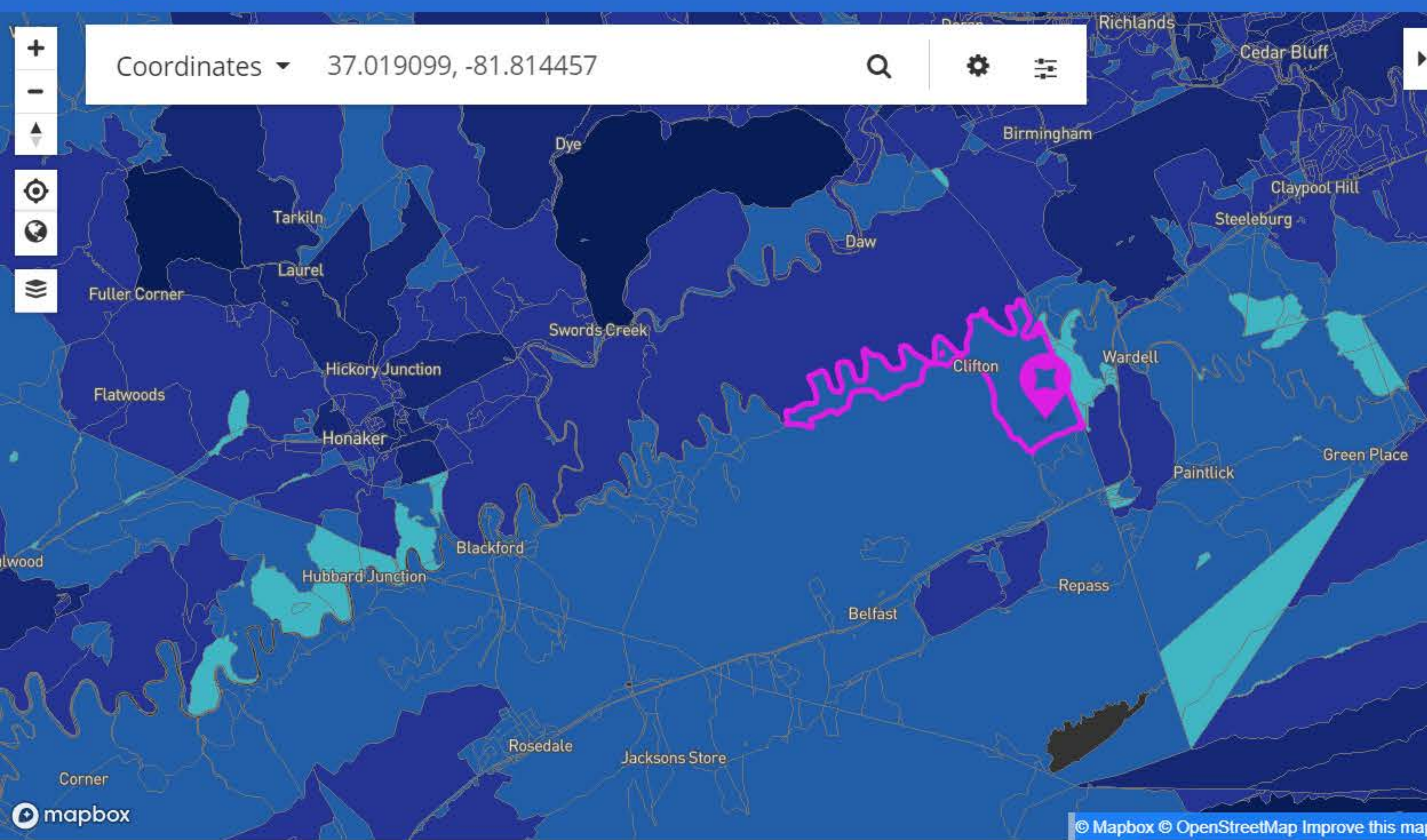
**Broadband**

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
iGo Technology, Inc.	Fixed Wireless	20	2
Verizon Communications Inc.	ADSL	3	0.768







**All Providers Reporting Service**

Census block ID: 511670304022001

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
Verizon Communications Inc.	ADSL	5	0.768
VSAT Systems, LLC	Satellite	2	1.3

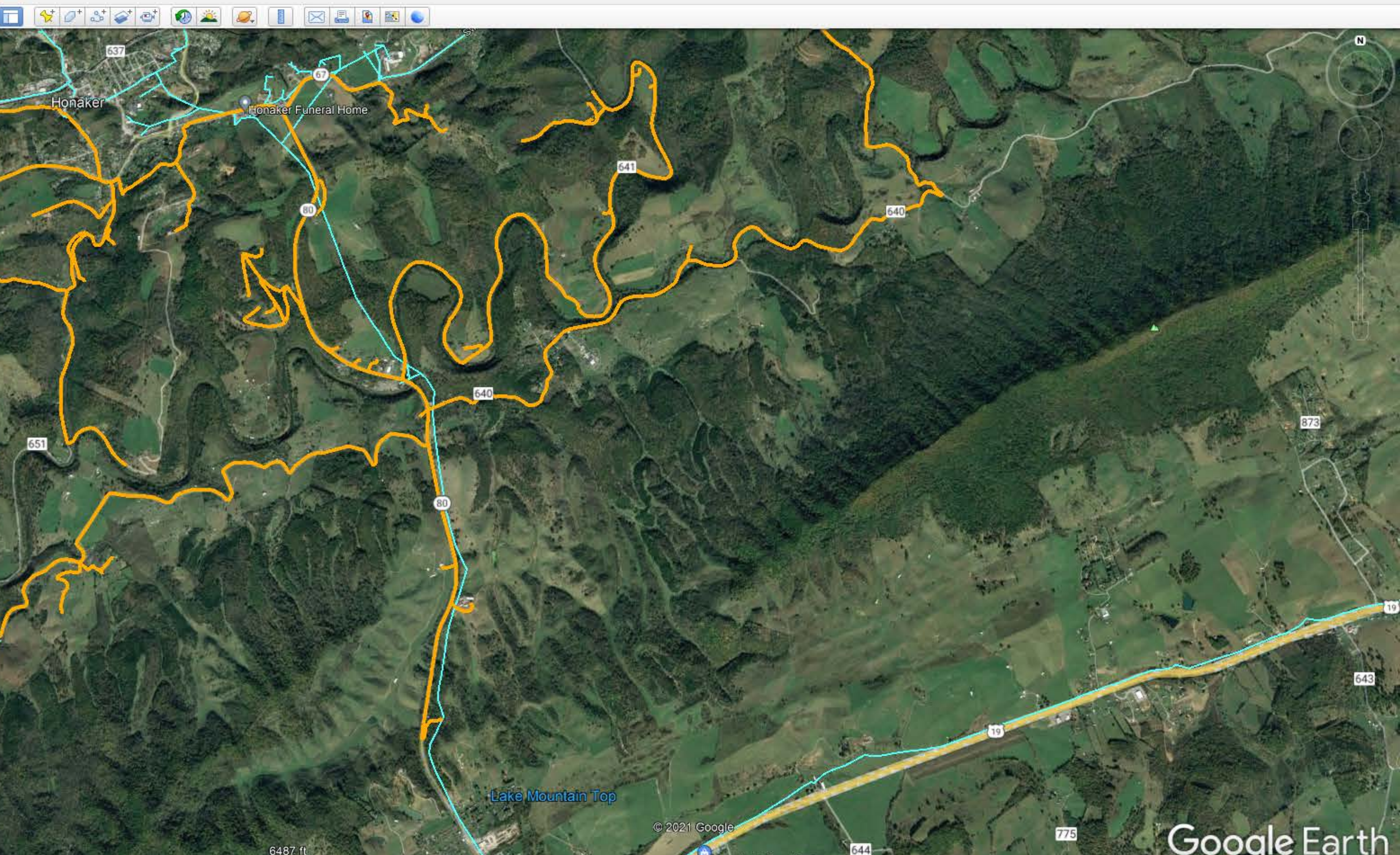
Search: Candler, VA

Places:

- My Places
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 37.050999, -81.8829

### All Providers Reporting Service

Census block ID: 511670301002010

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

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Places

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- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
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- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

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Imagery Date: 10/18/2015 37°01'22.90" N 81°52'57.32" W elev 0 ft eye alt 29297 ft



Coordinates 37.030581, -81.924662

Swords Creek Gardner County Rd

mapbox © Mapbox © OpenStreetMap Improve this map

### All Providers Reporting Service

Census block ID: 511670301004003

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

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Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
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- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Country Mart Swords Creek

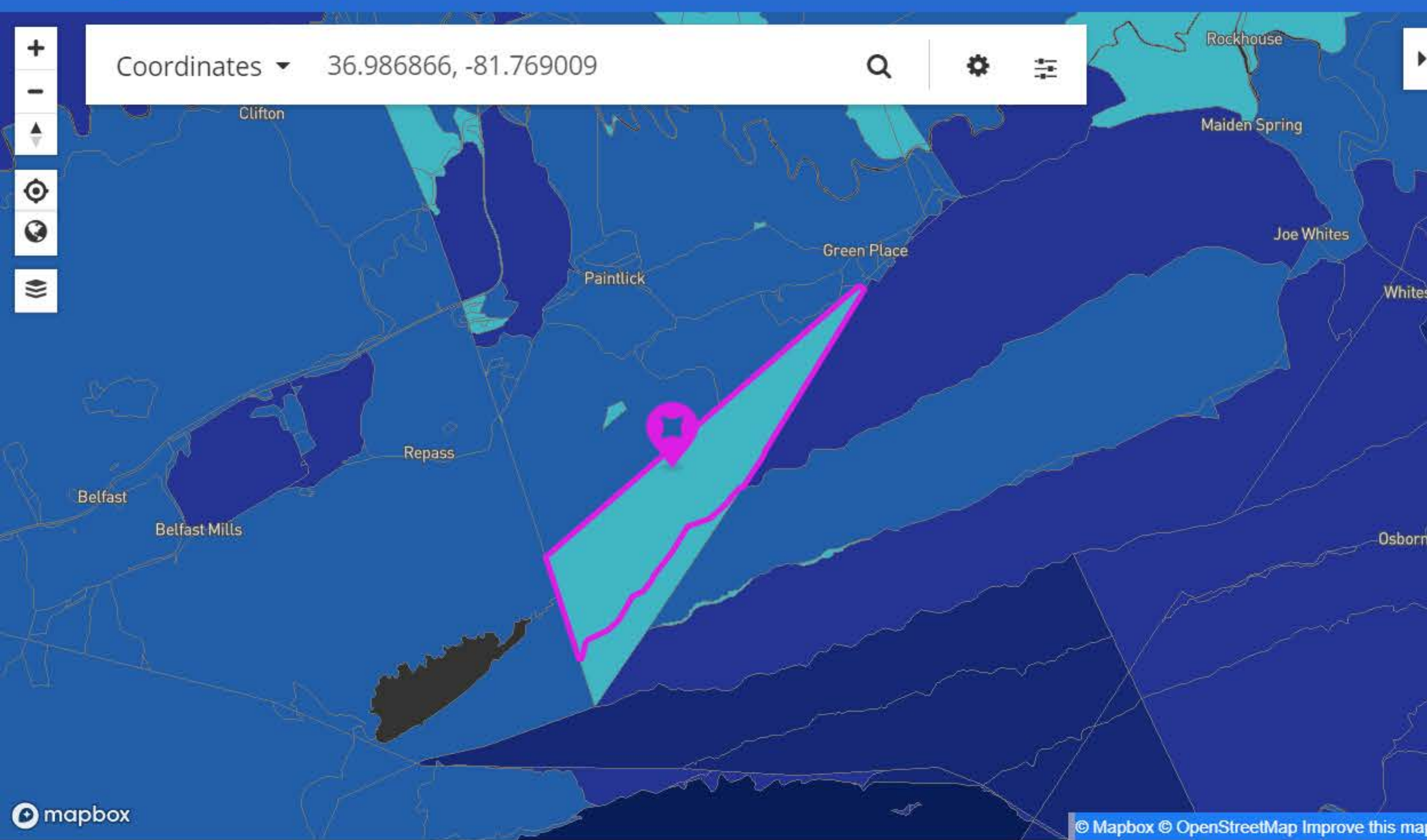
6487 ft

© 2021 Google

Google Earth

Imagery Date: 10/18/2015 37°01'22.90" N 81°52'57.32" W elev 0 ft eye alt 29297 ft





### All Providers Reporting Service

Census block ID: 511850206003107

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

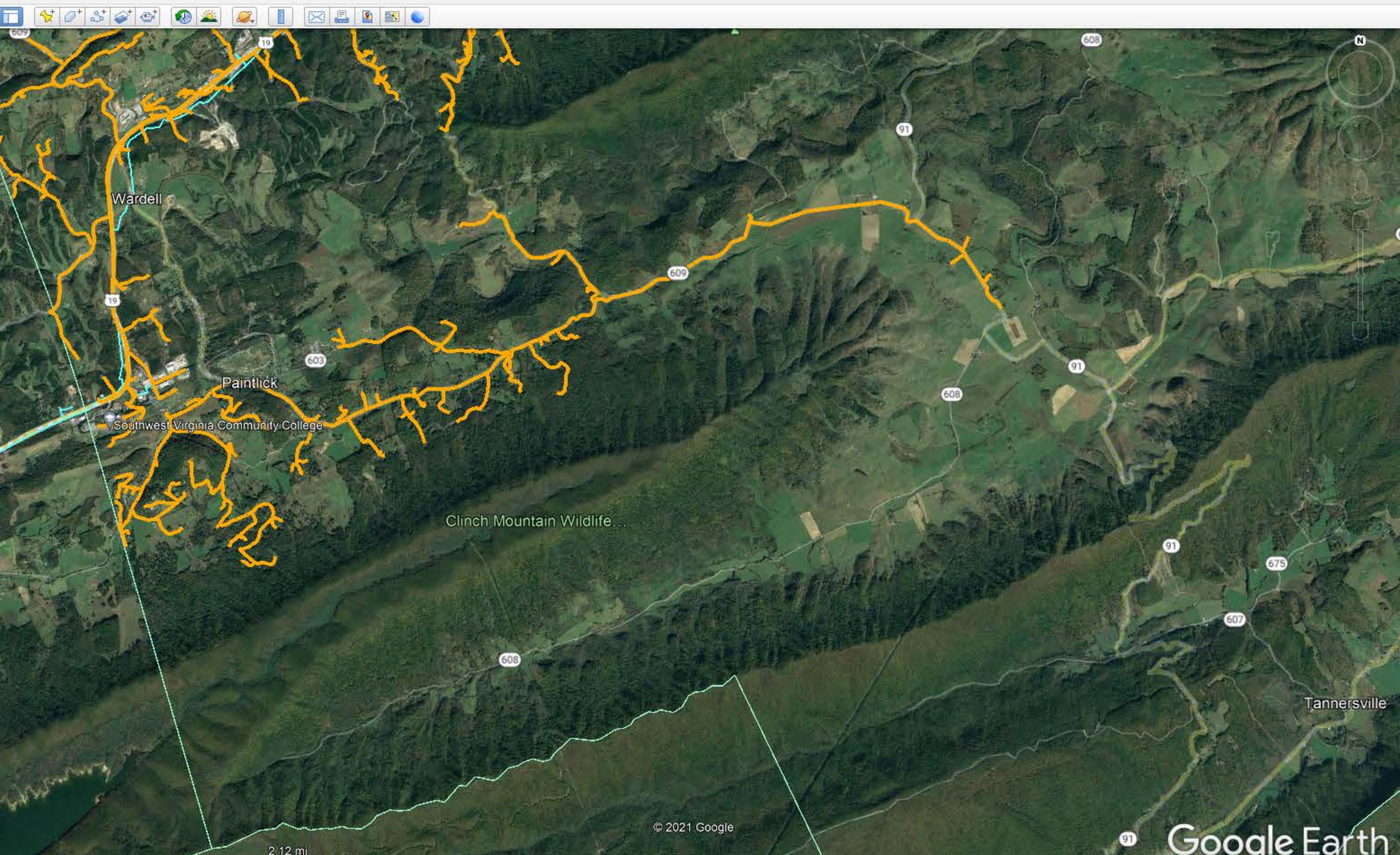
Search: Candler, VA

Places:

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 36.995725, -81.724774

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### All Providers Reporting Service

Census block ID: 511850206003105

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
WVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Candler, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

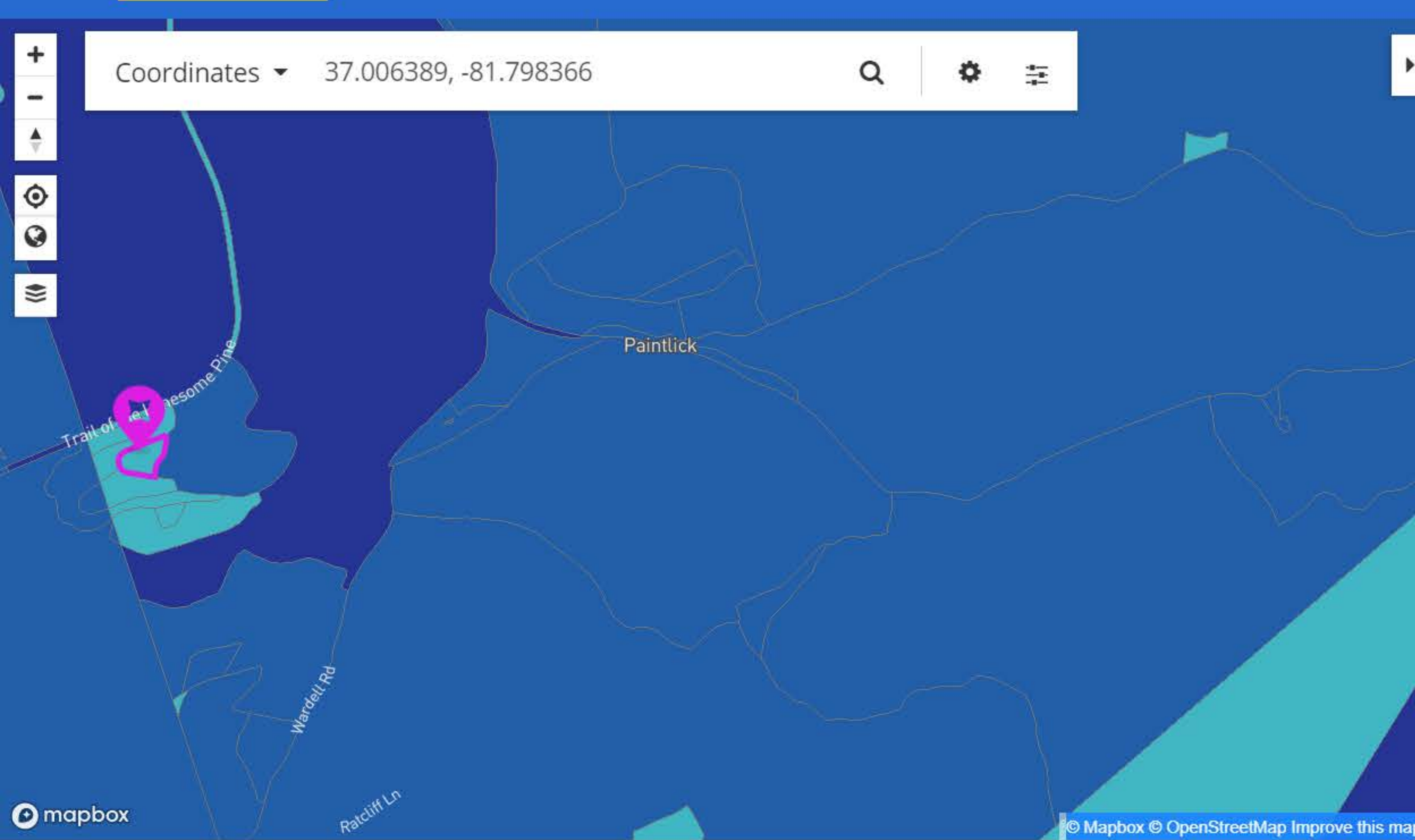
Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°00'00.91" N 81°42'52.71" W elev 0 ft eye alt 49836 ft





**All Providers Reporting Service**

Census block ID: 511850206001212

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

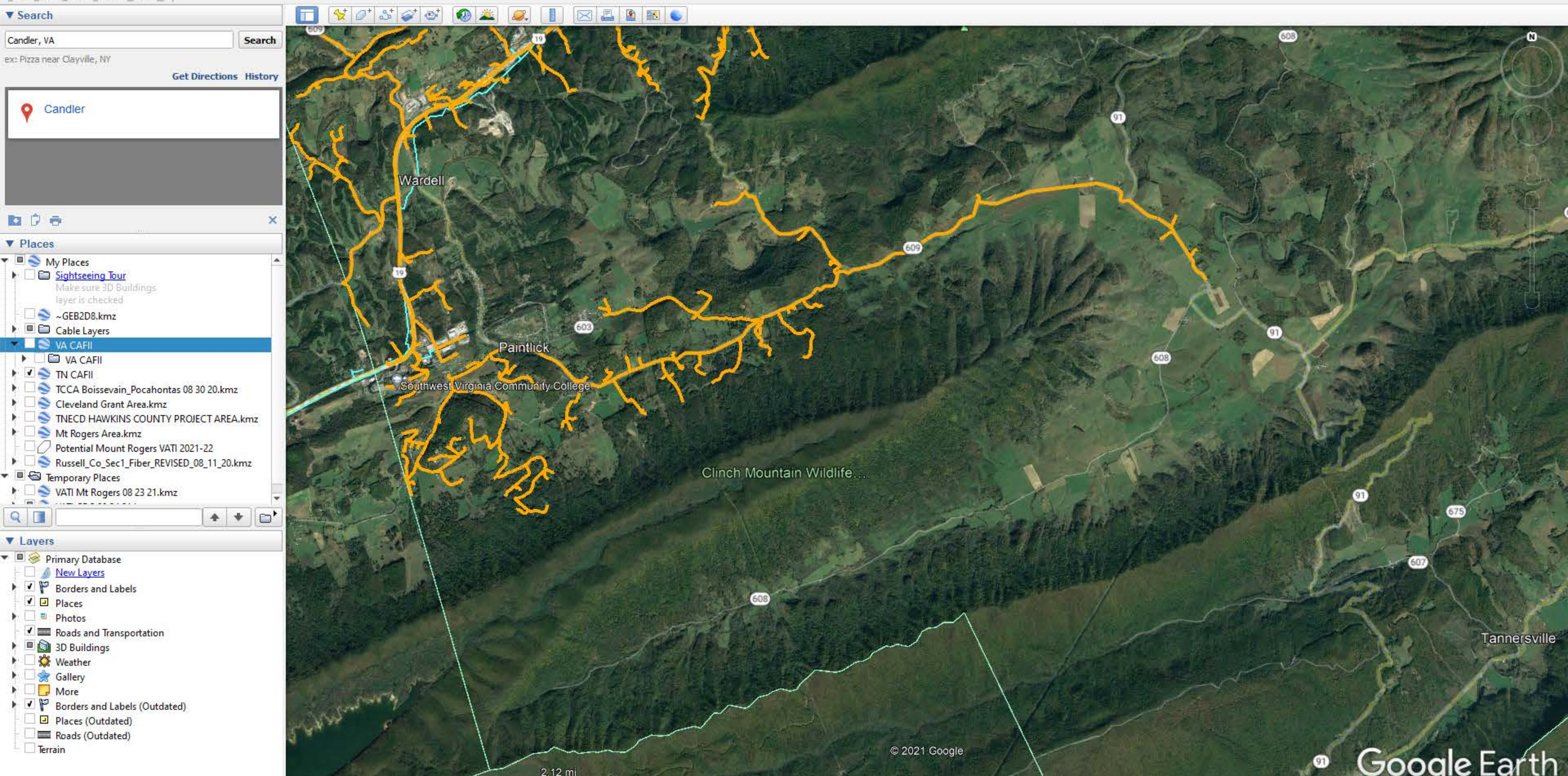
**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3





### All Providers Reporting Service

Census block ID: 511850210001063

**Number of Fixed Residential Broadband Providers**

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
Verizon Communications Inc.	ADSL	5	0.768
VSAT Systems, LLC	Satellite	2	1.3

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Places:

- My Places
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- VATI Mt Rogers 08 23 21.kmz

Layers:

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- Borders and Labels
- Places
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Coordinates 37.039136, -81.764487

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**All Providers Reporting Service**

Census block ID: 511850206001111

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

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Places

- My Places
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- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
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Layers

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- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°01'35.14" N 81°43'47.58" W elev 0 ft eye alt 49836 ft



Coordinates 37.029941, -81.693962

Rockhouse  
Wardell Rd  
Maiden Spring  
Joe Whites  
Whites Store

**All Providers Reporting Service**

Census block ID: 511850206001216

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
Speed ≥ 25/3 Mbps  
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Rodhouse, VA

Get Directions History

Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
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- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

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- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Rockhouse

Wardell Rd

609

610

608

91

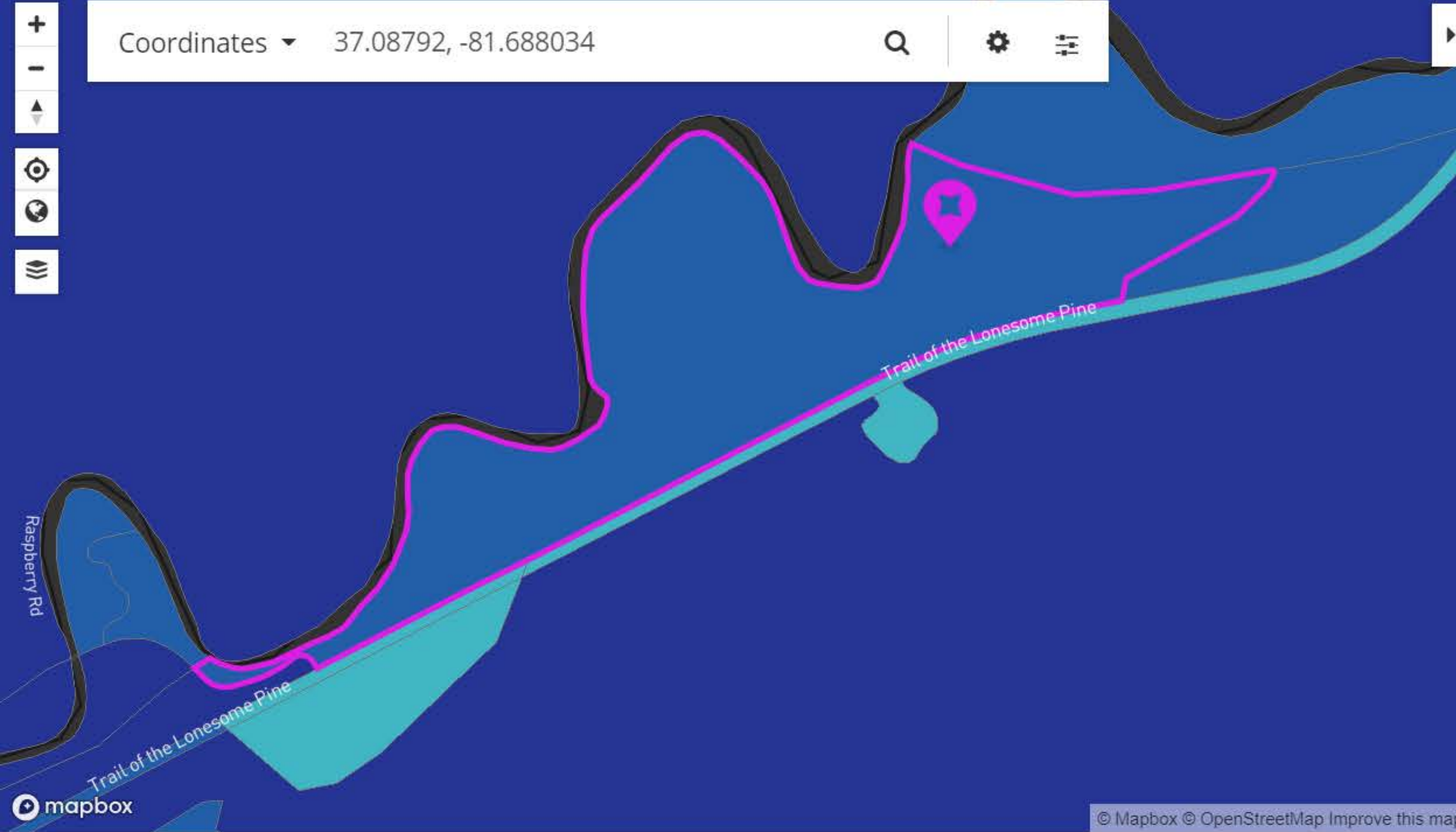
3853 ft

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Google Earth

Imagery Date: 10/18/2015 37°01'23.55" N 81°41'44.19" W elev 0 ft eye alt 17011 ft





**All Providers Reporting Service**

Census block ID: 511850203005070

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

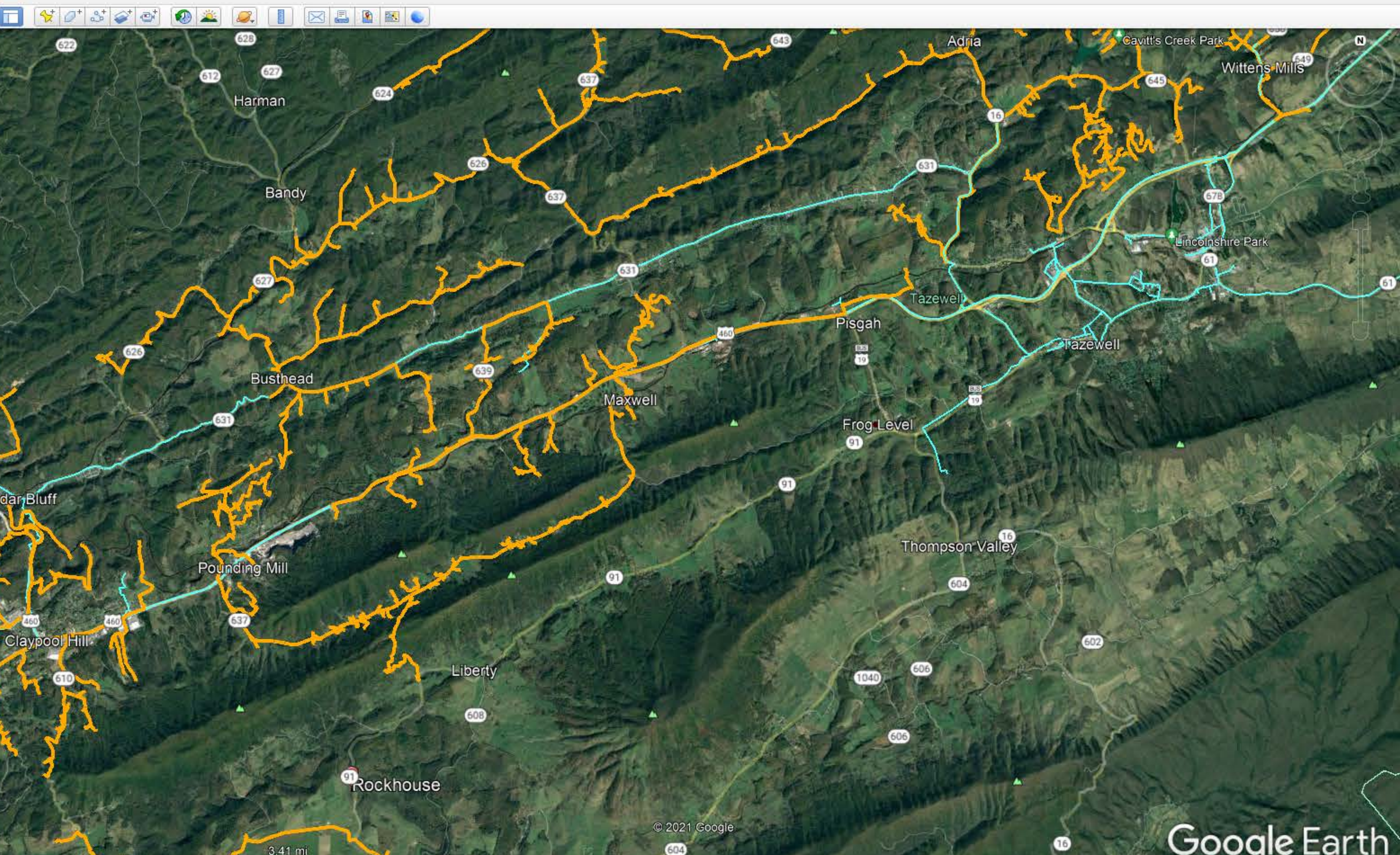
Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Verizon Communications Inc.	ADSL	1	0.384

**Places**

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates: 37.086026, -81.688575

### All Providers Reporting Service

Census block ID: 511850206001040

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology:** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed:** ≥ 25/3 Mbps  
**Date:** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Rockhouse, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
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- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
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- Places (Outdated)
- Roads (Outdated)
- Terrain



Coordinates 37.108878, -81.61067

### All Providers Reporting Service

Census block ID: 511850206001002

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3

Search: Rodhouse, VA

Get Directions History

Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

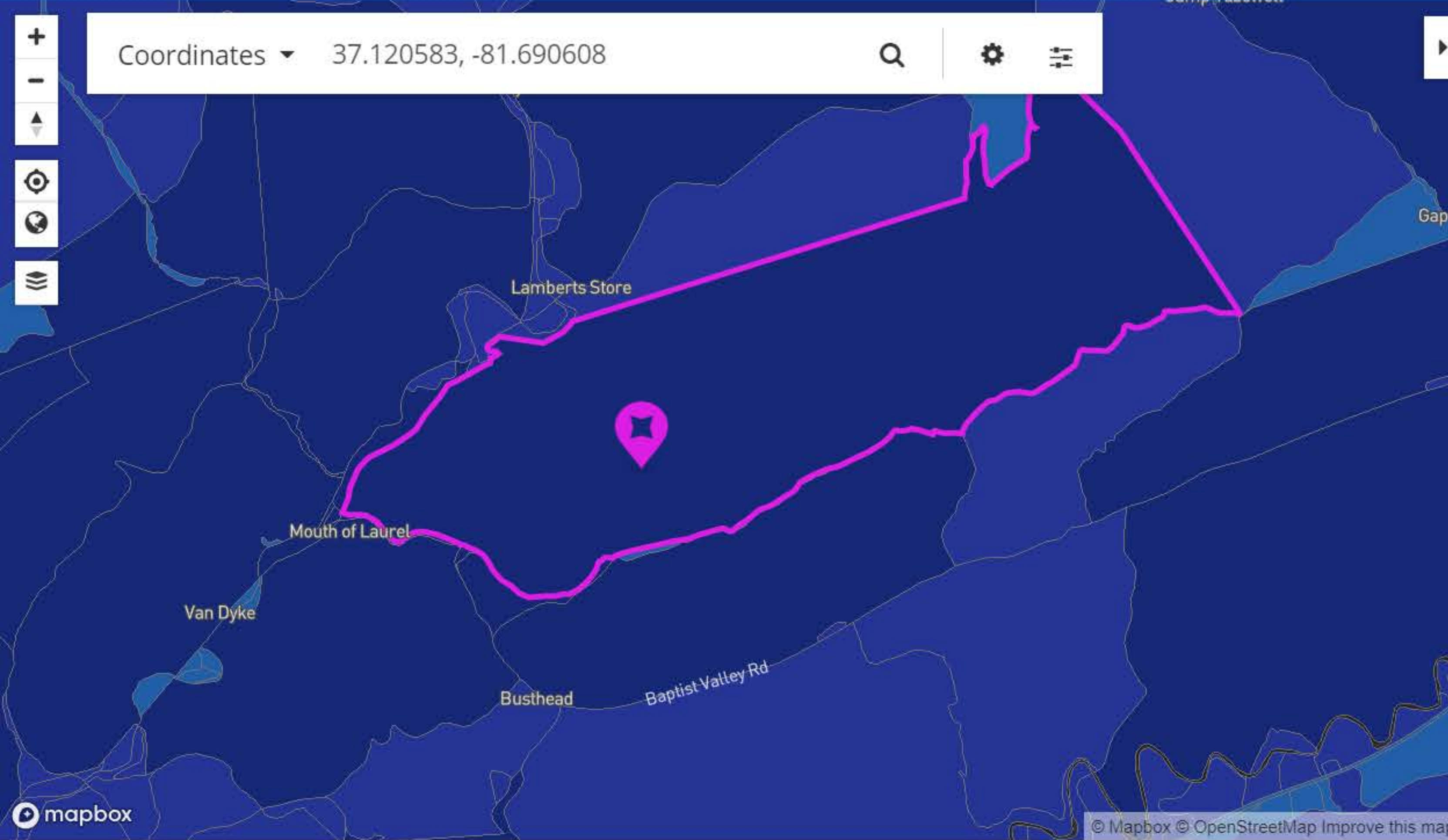
Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 37°05'36.49" N 81°36'29.94" W elev 0 ft eye alt 15.01 mi





**All Providers Reporting Service**

Census block ID: 511850203005023

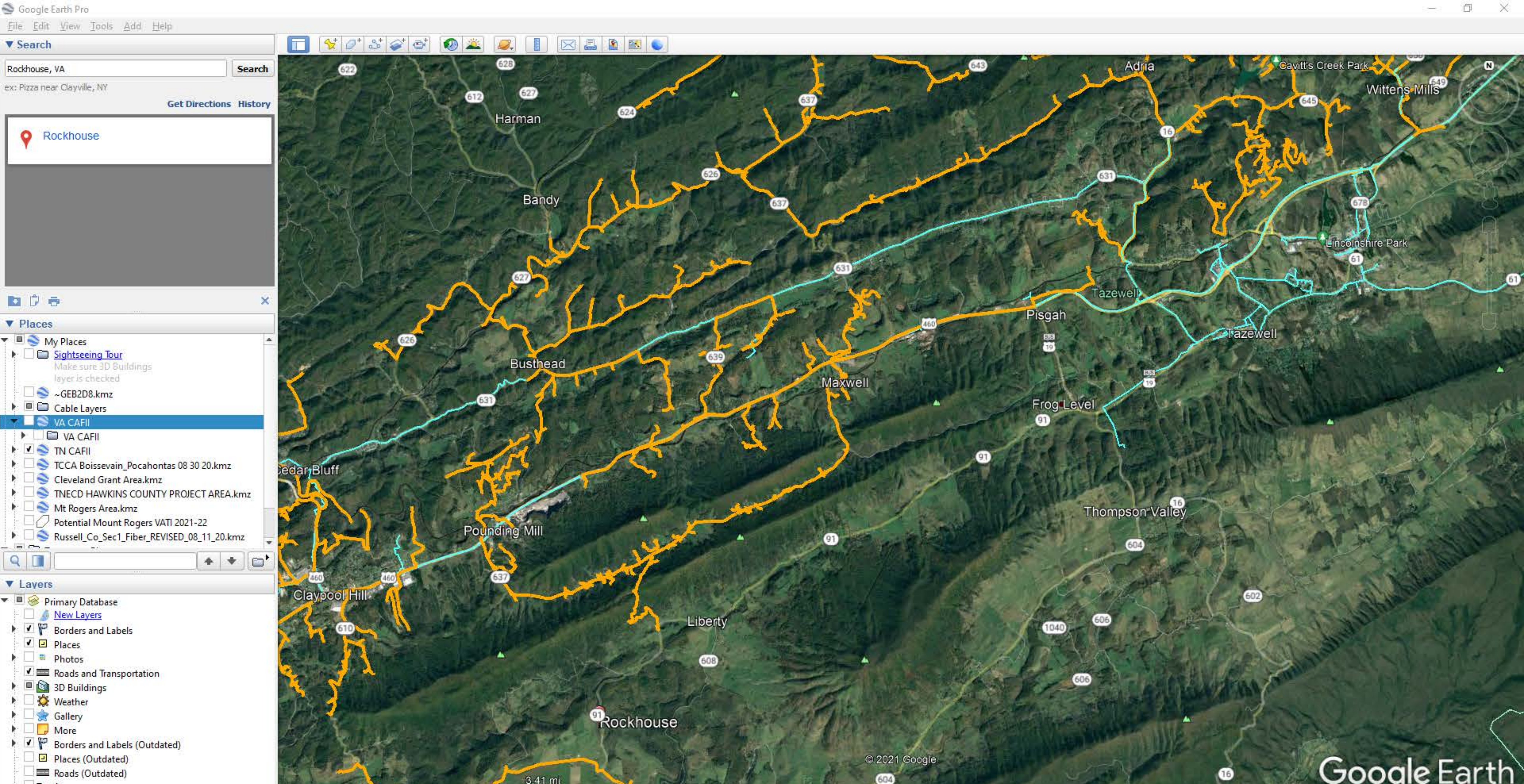
**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Verizon Communications Inc.	ADSL	15	1
Point Broadband Fiber Holding, LLC	Fiber	1000	1000





Coordinates 37.134353, -81.635527

37.134353, -81.635527  
Report an error

Gap Store

State Route 636

© Mapbox © OpenStreetMap Improve this map

**All Providers Reporting Service**

Census block ID: 511850203004014

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	100	3
Verizon Communications Inc.	ADSL	1	0.384
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Rockhouse, VA

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Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Rockhouse

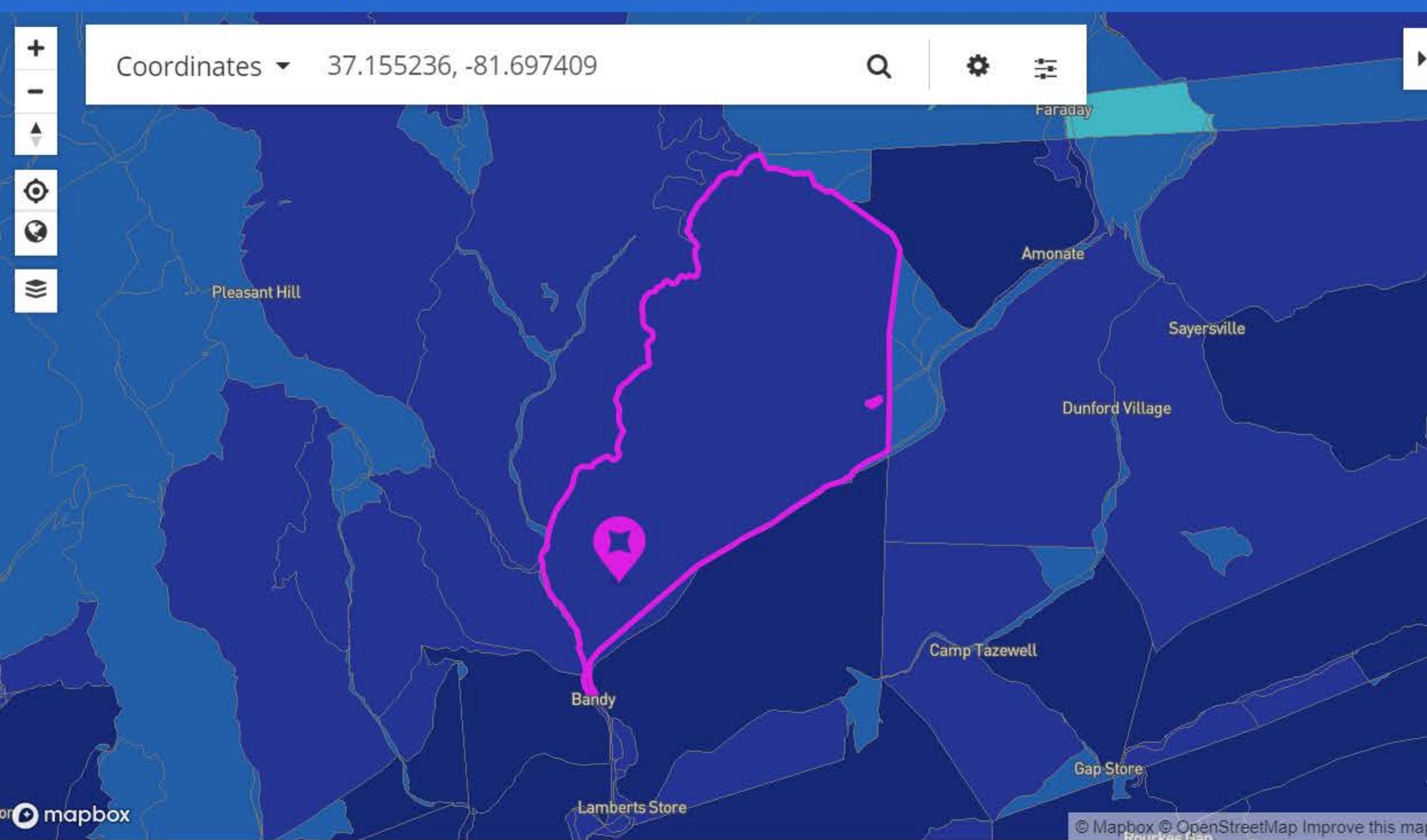
3.41 mi

© 2021 Google

Imagery Date: 3/18/2019 37°05'36.49" N 81°36'29.94" W elev 0 ft eye alt 15.01 mi

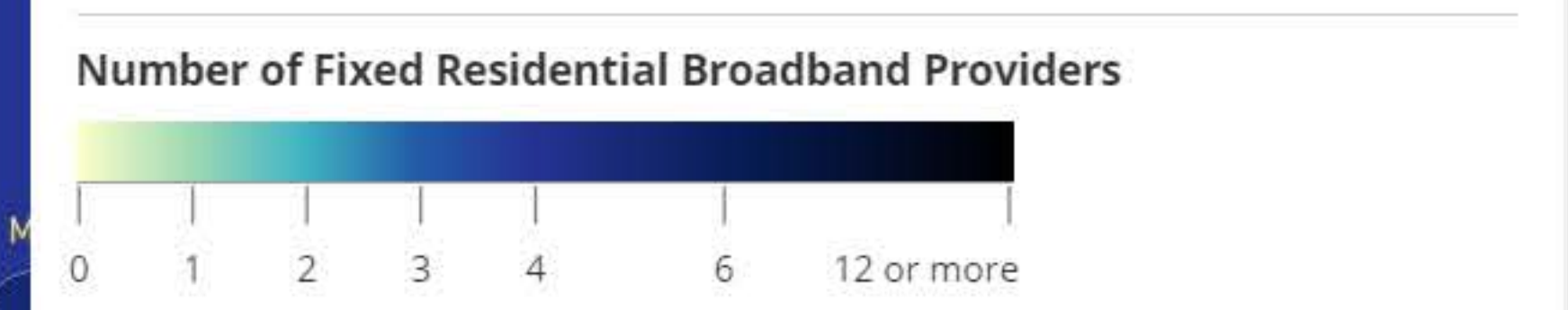
Google Earth





### All Providers Reporting Service

Census block ID: 511850204004058



**Broadband**  
 Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Verizon Communications Inc.	ADSL	15	1
Point Broadband Fiber Holding, LLC	Fiber	1000	1000

Search: Rodhouse, VA

Get Directions History

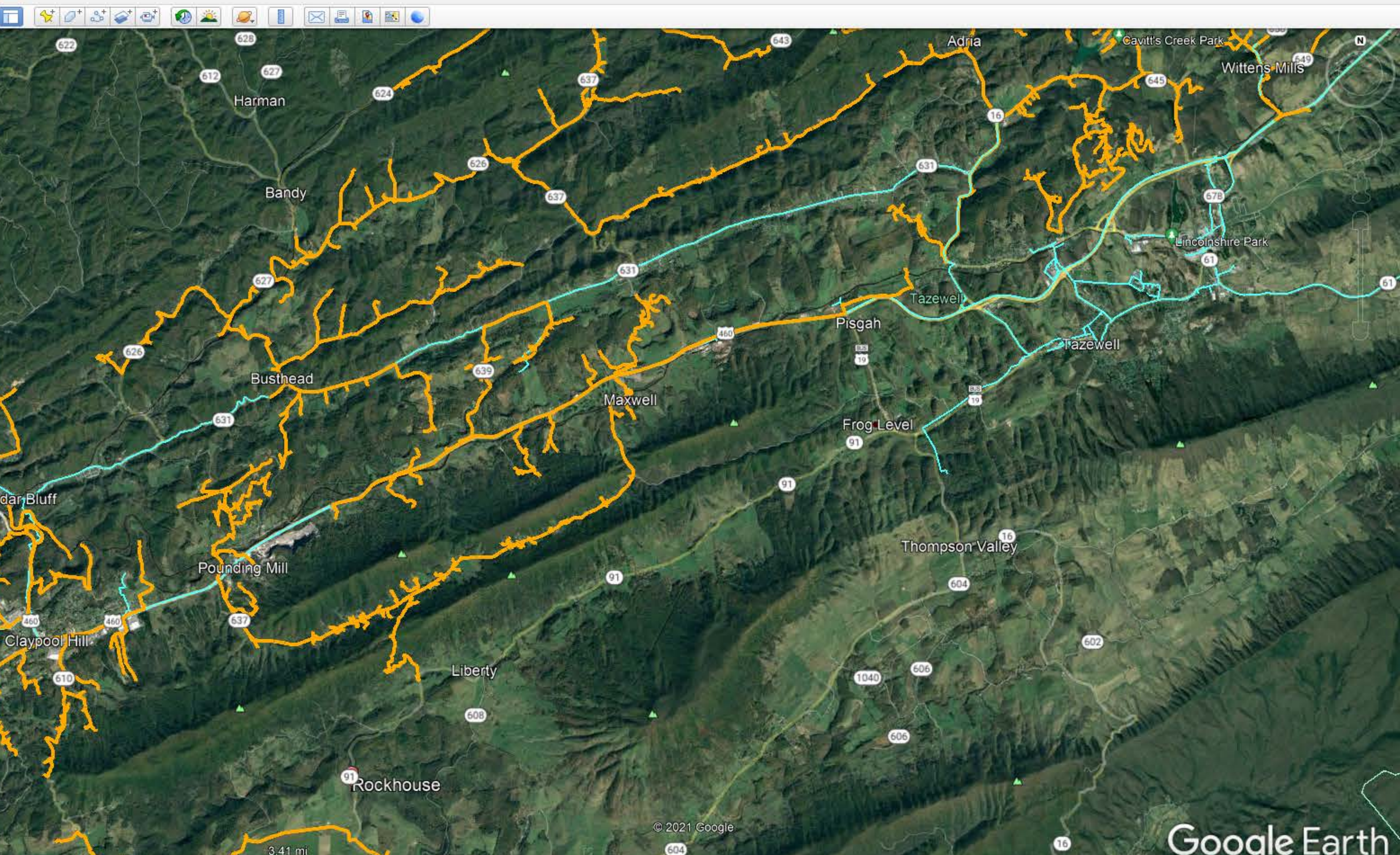
Rockhouse

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





**Federal Communications Commission** Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.194856, -81.629078

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**All Providers Reporting Service**

Census block ID: 511850203006021

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	100	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Rodhouse, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

37°08'56.64" N 81°39'06.32" W elev 0 ft eye alt 15.01 mi



**Federal Communications Commission**

# Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates: 37.190197, -81.592586

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**All Providers Reporting Service**

Census block ID: 511850203006017

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Verizon Communications Inc.	ADSL	1	0.384
Point Broadband Fiber Holding, LLC	Fiber	1000	1000

Search: Rodhouse, VA

Get Directions History

Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 37°08'38.96" N 81°31'44.26" W elev 0 ft eye alt 15.01 mi



Coordinates 37.236806, -81.415071

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**All Providers Reporting Service**

Census block ID: 511850208001065

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3

**Places**

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 37°11'30.26" N 81°25'36.54" W elev 0 ft eye alt 15.01 mi



Location Summary | Fixed Broadband

**Federal Communications Commission** Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.253606, -81.370532

**All Providers Reporting Service**

Census block ID: 511850202001037

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3

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Places

- My Places
- Sightseeing Tour
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- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 37°12'30.25" N 81°20'29.93" W elev 0 ft eye alt 15.01 mi



Coordinates 37.271506, -81.365768

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**All Providers Reporting Service**

Census block ID: 511850201001110

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Verizon Communications Inc.	ADSL	10	1
Point Broadband Fiber Holding, LLC	Fiber	1000	1000

**Places**

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth Imagery Date: 3/18/2019 37°12'30.25" N 81°20'29.93" W elev 0 ft eye alt 15.01 mi



### All Providers Reporting Service

Census block ID: 511850201001075

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
Point Broadband Fiber Holding, LLC	Fiber	1000	1000

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Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 37°14'15.71" N 81°19'42.40" W elev 0 ft eye alt 15.01 mi

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Coordinates 37.196489, -81.398469

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**All Providers Reporting Service**

Census block ID: 511850211003025

**Number of Fixed Residential Broadband Providers**

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Verizon Communications Inc.	ADSL	7	0.768
Hughes Network Systems, LLC	Satellite	25	3

Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

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8698 ft

1985

37°11'30.06" N 81°23'57.20" W elev 0 ft eye alt 38717 ft



Coordinates 37.197646, -81.405677

mapbox

**All Providers Reporting Service**

Census block ID: 511850208002048

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Verizon Communications Inc.	ADSL	10	1
Hughes Network Systems, LLC	Satellite	25	3

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- TN CAFII
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- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth



Coordinates 37.198973, -81.427384

37.198973, -81.427384  
Report an error

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**All Providers Reporting Service**

Census block ID: 511850208001096

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3

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Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

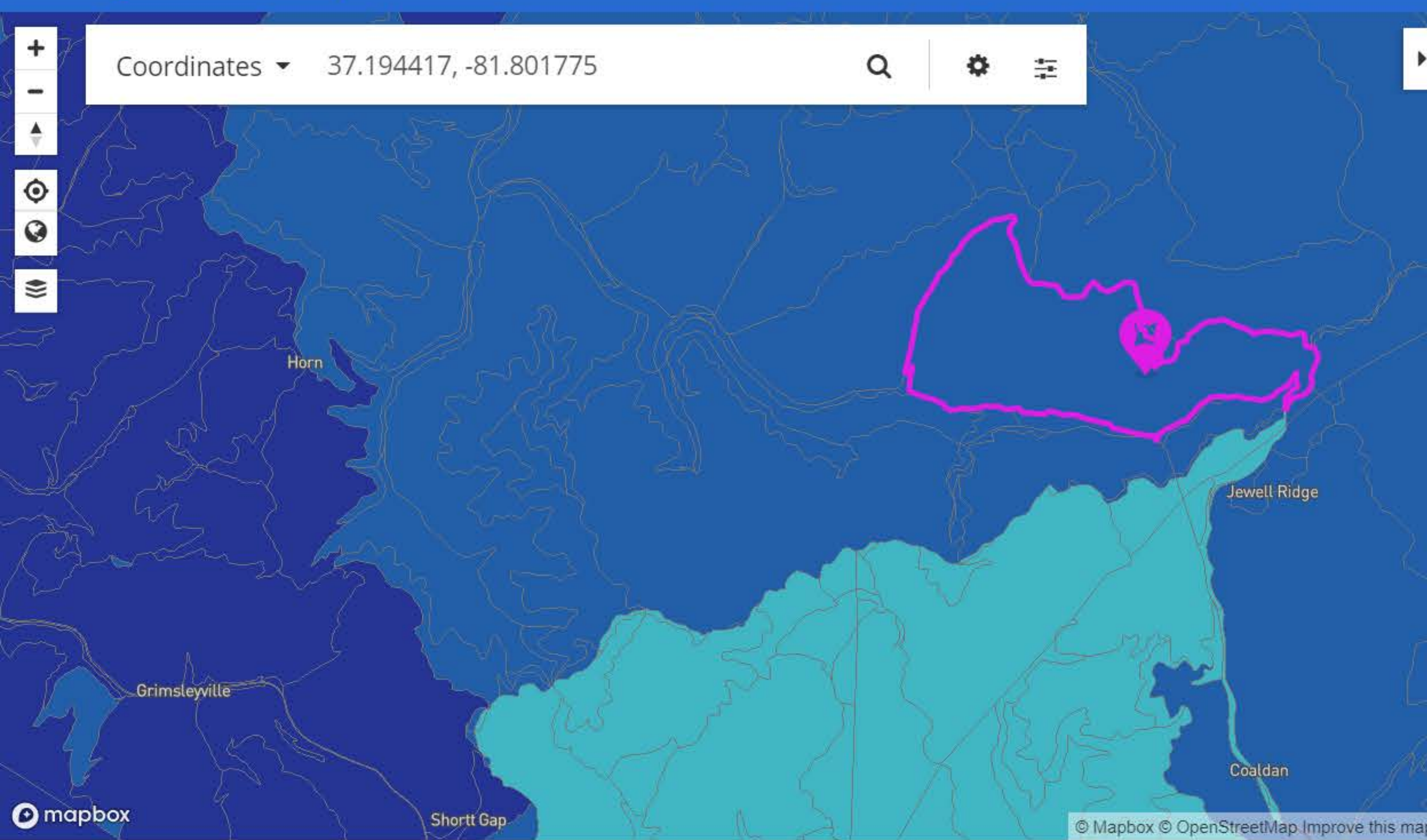
- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

8698 ft

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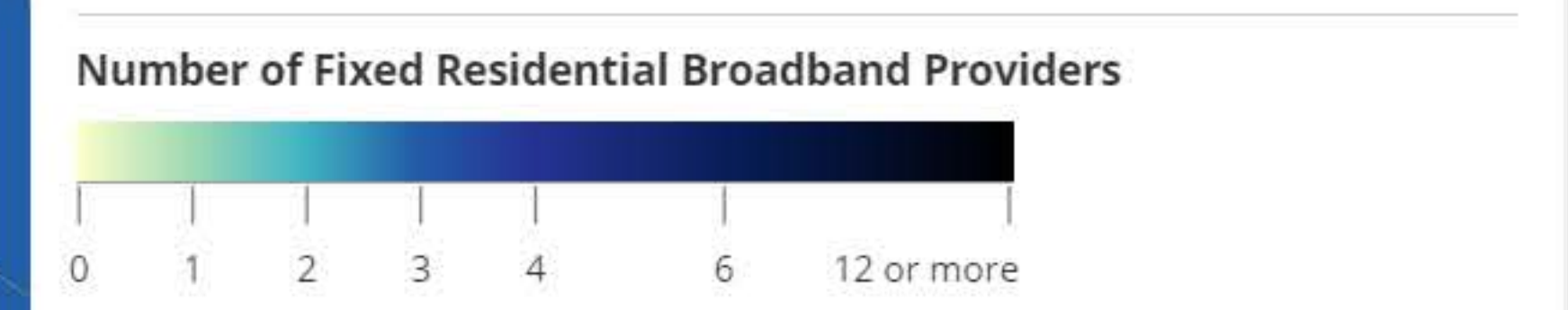
Google Earth





**All Providers Reporting Service**

Census block ID: 510270105002107



**Broadband**  
 Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Verizon Communications Inc.	ADSL	10	1
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Rodhouse, VA

Get Directions History

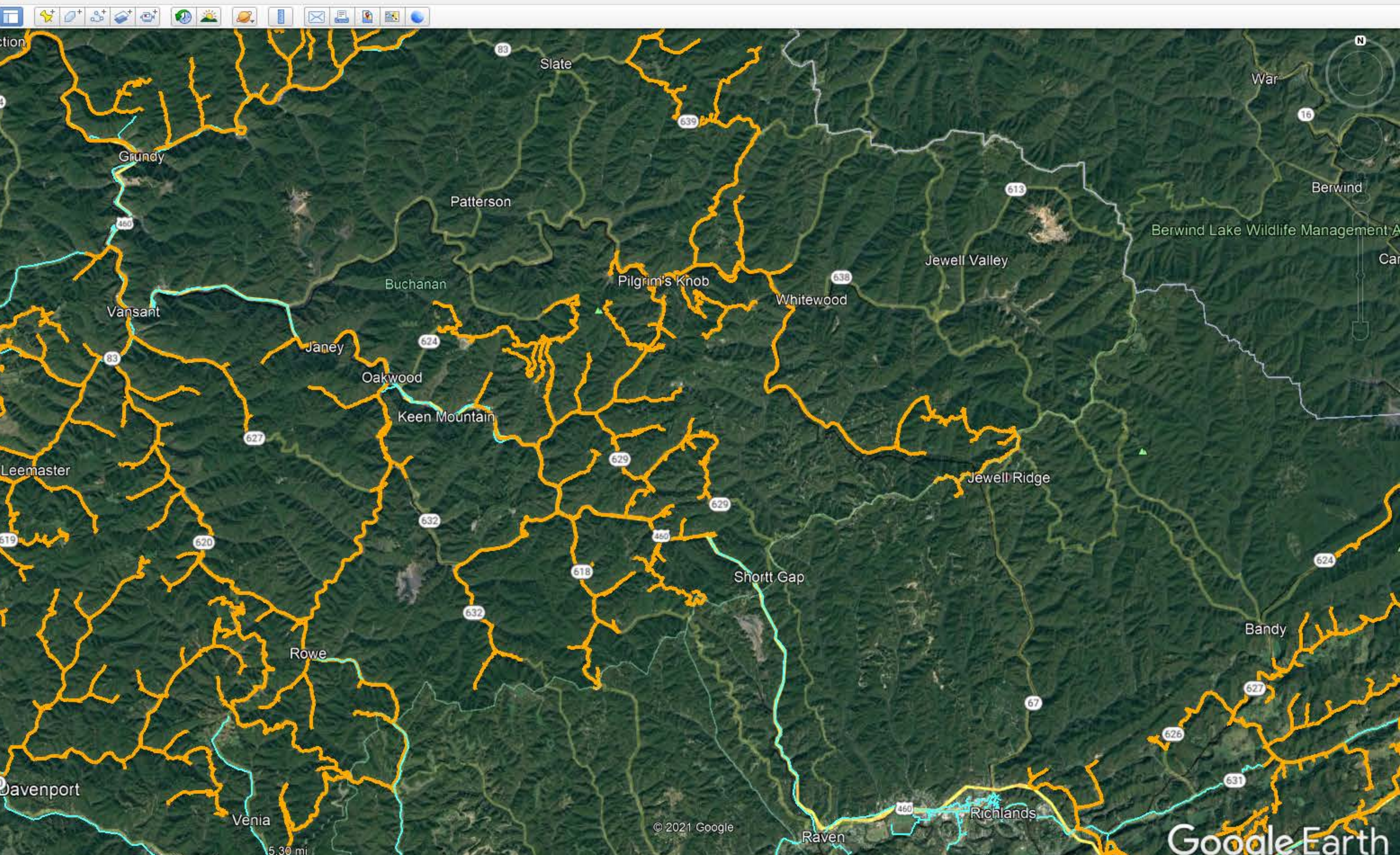
Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 37.144836, -81.89395

Shortt Gap

Gov. George C. Perry Hwy

mapbox

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**All Providers Reporting Service**

Census block ID: 511850205002008

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3

Search: Rodhouse, VA

Get Directions History

Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015

37°11'19.14" N 81°53'54.29" W elev. 0 ft eye alt. 23.58 mi

4:10 PM 9/13/2021



Coordinates 37.165279, -81.912685

37.165279, -81.912685  
Report an error

### All Providers Reporting Service

Census block ID: 510270106004017

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Rodhouse, VA

Get Directions History

Rockhouse

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz

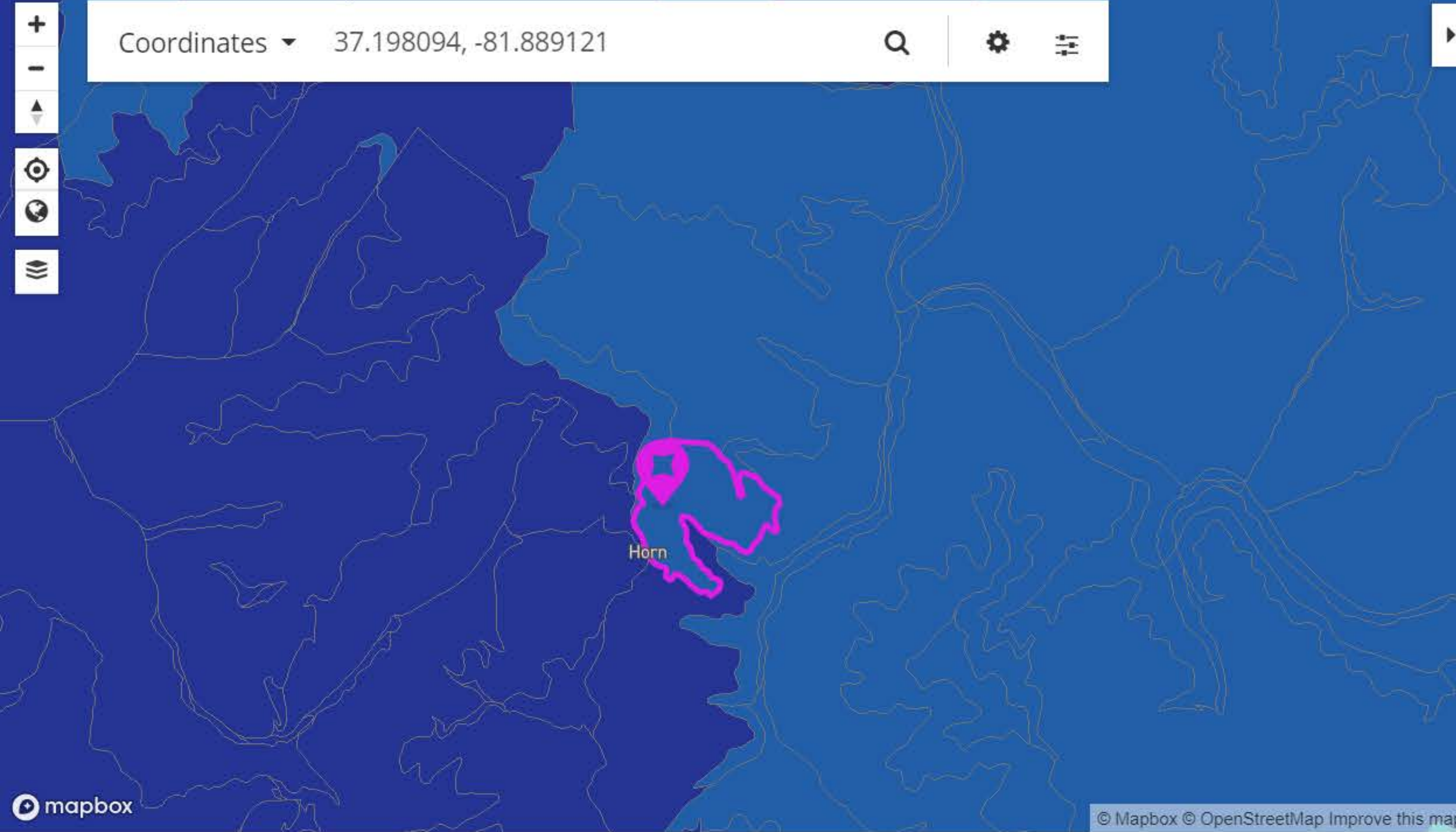
Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°11'19.14" N 81°53'54.29" W elev 0 ft eye alt 23.58 mi





**All Providers Reporting Service**

Census block ID: 510270105002087

**Number of Fixed Residential Broadband Providers**

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Horn, VA

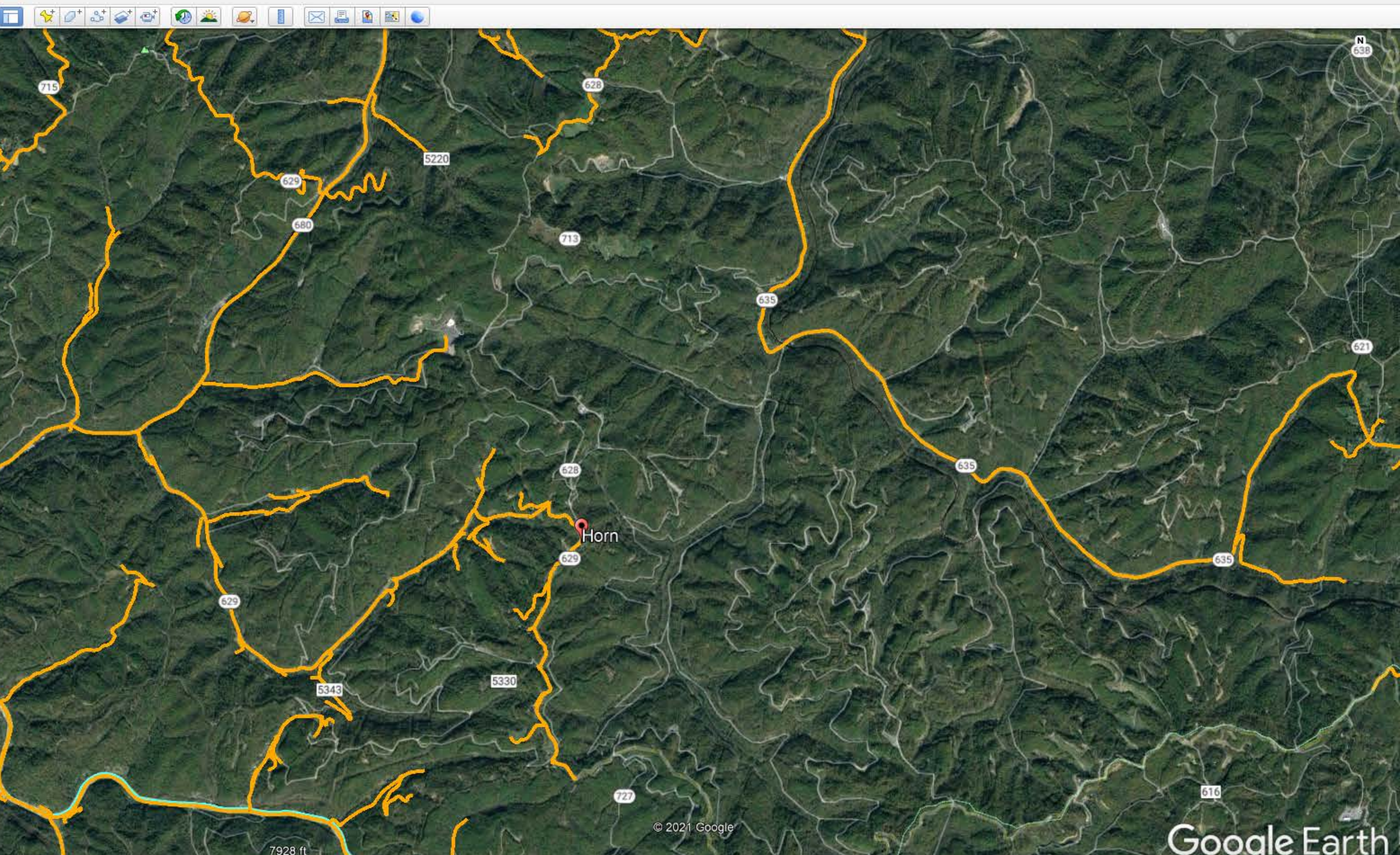
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





**Federal Communications Commission** Fixed Broadband Deployment

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.211241, -81.856947

mapbox © Mapbox © OpenStreetMap Improve this map

**All Providers Reporting Service**

Census block ID: 510270105002041

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search Horn, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

© 2021 Google

37°12'04.72" N 81°53'20.15" W elev 0 ft eye alt 34303 ft



FC Location Summary | Fixed Broadband

**Federal Communications Commission** Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.22513, -81.929839

**All Providers Reporting Service**

Census block ID: 510270106001051

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Google Earth Pro

Search: Pizza near Clayville, NY

Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Map showing terrain, roads, and broadband service areas (yellow/orange lines) in a mountainous region. Labels include Buchanan, Keen Mountain Correctional Center, Oakwood, and Pilgrim's. Imagery Date: 10/18/2015. Coordinates: 37°14'01.91" N 81°57'58.06" W. Elevation: 0 ft. Altitude: 29072 ft.



Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.231707, -81.955286

**All Providers Reporting Service**

Census block ID: 510270106001130

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Pizza near Clayville, NY

Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

Layers

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- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°14'01.91" N 81°57'58.06" W elev 0 ft eye alt 29072 ft



Coordinates 37.071215, -82.031383

mapbox

### All Providers Reporting Service

Census block ID: 510270107001073

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
WVVA.net Inc.	Fixed Wireless	50	3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Pizza near Clayville, NY

Get Directions History

#### Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

- Primary Database
- New Layers
- Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain

Google Earth

Imagery Date: 10/18/2015 37°05'54.32" N 82°01'22.27" W elev 0 ft eye alt 10.69 mi



Coordinates 37.078534, -82.049529

Mapbox OpenStreetMap

### All Providers Reporting Service

Census block ID: 510270107001028

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
iGo Technology, Inc.	Fixed Wireless	20	2
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search ex: Pizza near Clayville, NY

Get Directions History

#### Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz
  - VATI CPC 08 24 21.kmz

#### Layers

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- Weather
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- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°05'54.32" N 82°01'22.27" W elev 0 ft eye alt 10.69 mi



Coordinates 37.132439, -82.092964

37.132439, -82.092964 Report an error

### All Providers Reporting Service

Census block ID: 510270107004083

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search ex: Pizza near Clayville, NY

Get Directions History

#### Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

- Primary Database
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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Rowe

Venia

Council

Lynn Spring

Dye

2.46 mi

Imagery Date: 10/18/2015 37°05'54.32" N 82°01'22.27" W elev 0 ft eye alt 10.69 mi



Coordinates 37.132593, -82.059951

Rowe

mapbox

### All Providers Reporting Service

Census block ID: 510270107001016

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search ex: Pizza near Clayville, NY

Get Directions History

#### Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz
- VATI CPC 08 24 21.kmz

#### Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Rowe

Venia

Council

Lynn Spring

Dye

2.46 mi

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Imagery Date: 10/18/2015 37°05'54.32" N 82°01'22.27" W elev 0 ft eye alt 10.69 mi

Google Earth



Coordinates 37.14883, -82.133213

37.148830, -82.133213  
Report an error

### All Providers Reporting Service

Census block ID: 510270107004052

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Verizon Communications Inc.	ADSL	15	1
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Rowe  
Venia  
Council  
Lynn Spring  
Dye

2.46 mi

Imagery Date: 10/18/2015 37°05'54.32" N 82°01'22.27" W elev 0 ft eye alt 10.69 mi



Coordinates 37.190094, -82.201803

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### All Providers Reporting Service

Census block ID: 510270107003043

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search ex: Pizza near Clayville, NY Get Directions History

Places

- My Places
- Sightseeing Tour
- GEB2D8.kmz
- Cable Layers
- VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz
  - VATI CPC 08 24 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth Imagery Date: 10/18/2015 37°09'10.46" N 82°04'22.26" W elev 0 ft eye alt 10.69 mi



Coordinates 37.206611, -82.231712

mapbox

### All Providers Reporting Service

Census block ID: 510270107003065

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

#### Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
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  - VA CAFII
    - VA CAFII
    - TN CAFII
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    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

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    - Roads and Transportation
    - 3D Buildings
    - Weather
    - Gallery
    - More
  - Borders and Labels (Outdated)
    - Places (Outdated)
    - Roads (Outdated)
  - Terrain

Google Earth

Imagery Date: 10/18/2015 37°13'55.08" N 82°09'14.45" W elev 0 ft eye alt 10.69 mi



Coordinates 37.220105, -82.22187

### All Providers Reporting Service

Census block ID: 510270103002075

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Verizon Communications Inc.	ADSL	15	1
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Pizza near Clayville, NY

Get Directions History

#### Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

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Imagery Date: 10/18/2015 37°13'55.08" N 82°09'14.45" W elev 0 ft eye alt 10.69 mi



Coordinates 37.238955, -82.179341

Report an error

### All Providers Reporting Service

Census block ID: 510270103001032

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

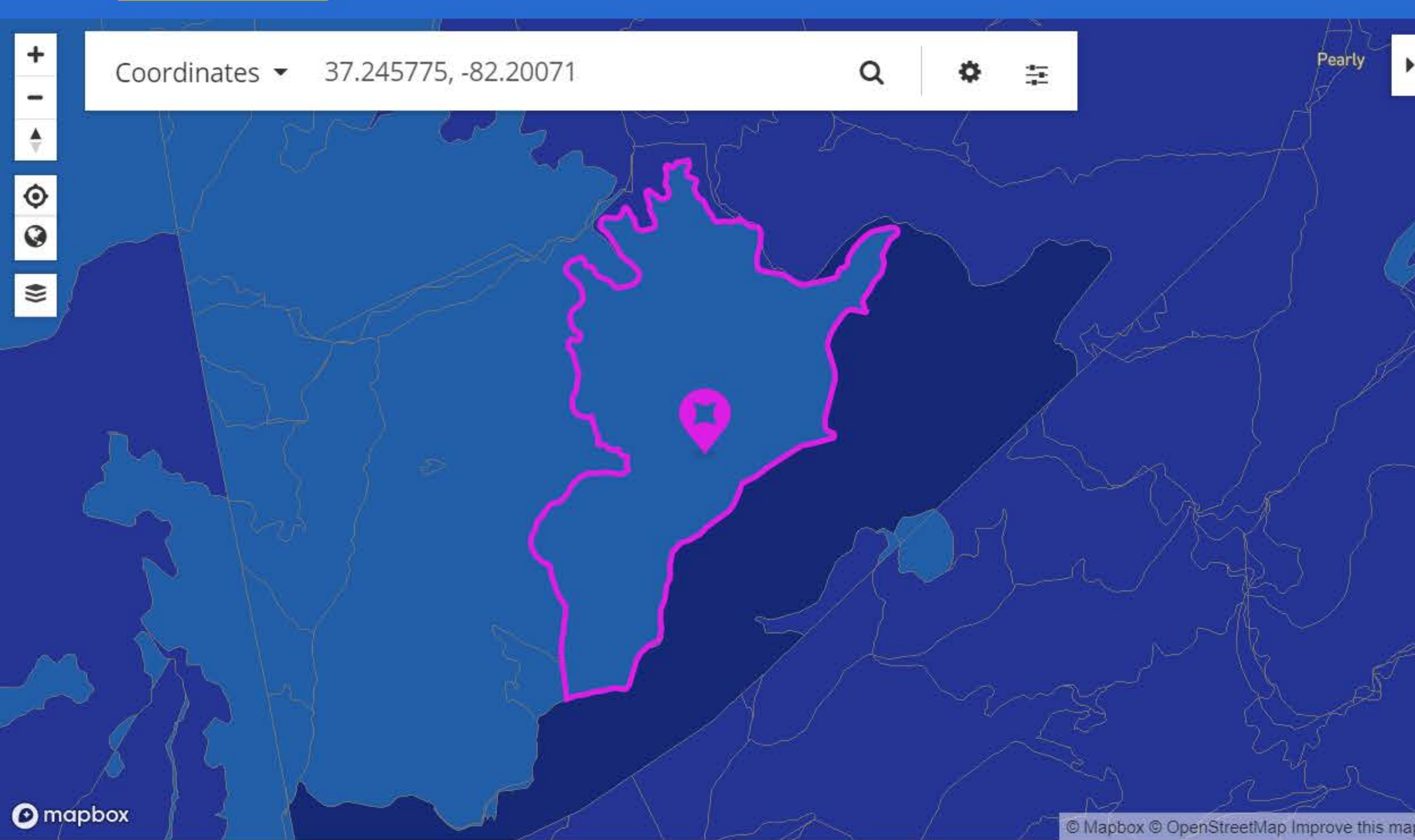
#### Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

- Primary Database
- New Layers
- Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain





### All Providers Reporting Service

Census block ID: 510270103002069

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

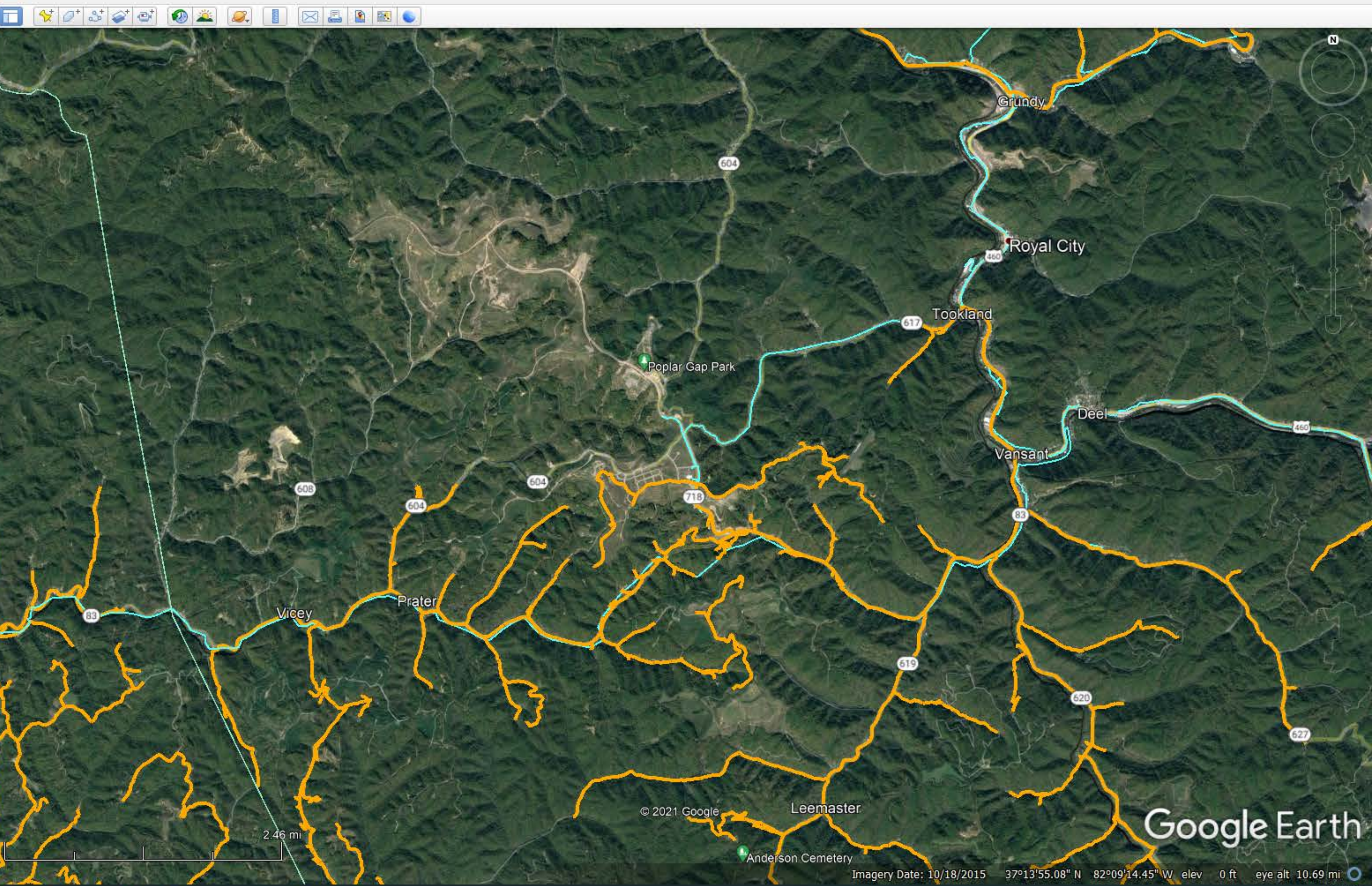
Search: Pizza near Clayville, NY

Places:

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Coordinates 37.235338, -82.121609

mapbox © Mapbox © OpenStreetMap Improve this map

### All Providers Reporting Service

Census block ID: 510270103001096

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Verizon Communications Inc.	ADSL	7	0.768
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

#### Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

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  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain

© 2021 Google Imagery Date: 10/18/2015 37°13'55.08" N 82°09'14.45" W elev 0 ft eye alt 10.69 mi

Google Earth



Coordinates 37.228918, -82.077059

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### All Providers Reporting Service

Census block ID: 510270106003050

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

#### Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth Imagery Date: 10/18/2015 37°13'55.08" N 82°09'14.45" W elev 0 ft eye alt 10.69 mi



**Federal Communications Commission**

# Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.228918, -82.077059

mapbox © Mapbox © OpenStreetMap Improve this map

### All Providers Reporting Service

Census block ID: 510270106003050

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search ex: Pizza near Clayville, NY [Get Directions](#) [History](#)

#### Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

#### Layers

- Primary Database
- New Layers
- Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain

© 2021 Google

Imagery Date: 10/18/2015 37°13'55.08" N 82°09'14.45" W elev 0 ft eye alt 10.69 mi

Google Earth



FC Location Summary | Fixed Broadband

Federal Communications Commission Fixed Broadband Deployment

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.353487, -82.161834

**All Providers Reporting Service**

Census block ID: 510270102001064

**Number of Fixed Residential Broadband Providers**

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Google Earth Pro

Search: Pizza near Clayville, NY

Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Imagery Date: 10/18/2015 37°20'57.62" N 82°03'17.41" W elev 0 ft eye alt 14.75 mi

Google Earth







### All Providers Reporting Service

Census block ID: 510270102001019

#### Number of Fixed Residential Broadband Providers

#### Broadband

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed: ≥ 25/3 Mbps  
 Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search: Pizza near Clayville, NY

My Places: Sightseeing Tour, Cable Layers, VA CAFII, TN CAFII, TCCA Boissevain\_Pocahontas 08 30 20.kmz, Cleveland Grant Area.kmz, TNECD HAWKINS COUNTY PROJECT AREA.kmz, Mt Rogers Area.kmz, Potential Mount Rogers VATI 2021-22, Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz, Temporary Places, VATI Mt Rogers 08 23 21.kmz, VATI CPC 08 24 21.kmz

Layers: Primary Database, New Layers, Borders and Labels, Places, Photos, Roads and Transportation, 3D Buildings, Weather, Gallery, More, Borders and Labels (Outdated), Places (Outdated), Roads (Outdated), Terrain



Coordinates 37.394859, -82.067627

mapbox © Mapbox © OpenStreetMap Improve this map

### All Providers Reporting Service

Census block ID: 510270102001010

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search ex: Pizza near Clayville, NY Get Directions History

#### Places

- My Places
  - Sightseeing Tour
  - GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz
  - VATI CPC 08 24 21.kmz

Google Earth

Imagery Date: 10/18/2015 37°23'55.56" N 82°02'19.56" W elev 0 ft eye alt 14.75 mi



Location Summary | Fixed Broadband

**Federal Communications Commission** Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.35553, -81.948403

37.355530, -81.948403  
Report an error

**All Providers Reporting Service**

Census block ID: 510270101001077

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
Speed ≥ 25/3 Mbps  
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Google Earth Pro

Search: Pizza near Clayville, NY

Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI Mt Rogers 08 23 21.kmz
    - VATI CPC 08 24 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°21'25.55" N 81°58'58.16" W elev 0 ft eye alt 14.75 mi



Coordinates 37.29646, -81.990594

Mapbox OpenStreetMap

### All Providers Reporting Service

Census block ID: 510270104001047

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search Pizza near Clayville, NY

Get Directions History

#### Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz
  - VATI CPC 08 24 21.kmz

Google Earth

Imagery Date: 10/18/2015 37°21'25.55" N 81°58'58.16" W elev 0 ft eye alt 14.75 mi



Coordinates 37.287998, -82.000353

Mapbox OpenStreetMap

### All Providers Reporting Service

Census block ID: 510270104001048

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Verizon Communications Inc.	ADSL	10	1
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

Search Pizza near Clayville, NY

Get Directions History

#### Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz
  - VATI CPC 08 24 21.kmz

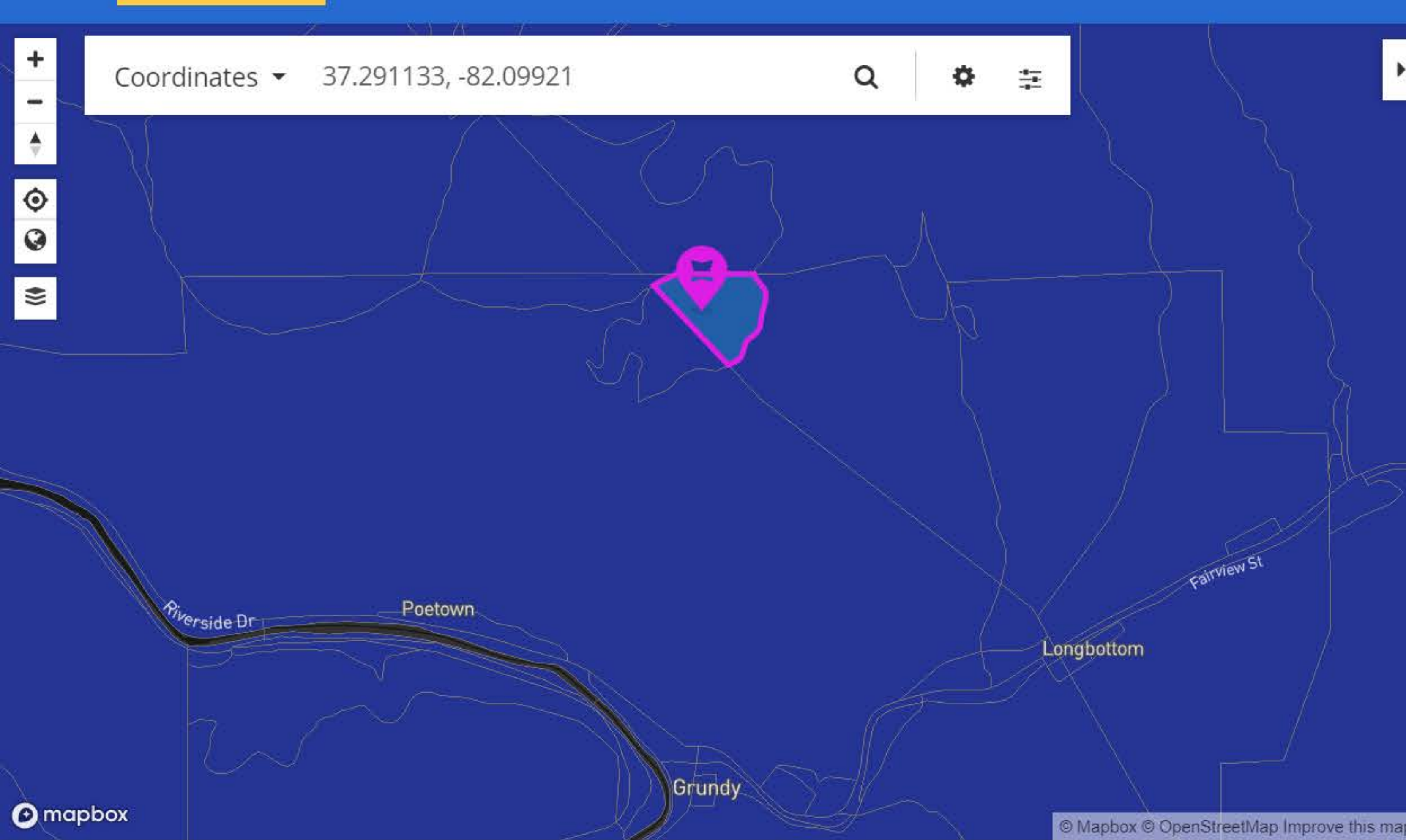
#### Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 37°21'25.55" N 81°58'58.16" W elev 0 ft eye alt 14.75 mi





**All Providers Reporting Service**

Census block ID: 510270101004016

**Number of Fixed Residential Broadband Providers**

**Broadband**

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

**Speed** ≥ 25/3 Mbps

**Date** June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
VSAT Systems, LLC	Satellite	2	1.3
ViaSat, Inc.	Satellite	35	3
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Hughes Network Systems, LLC	Satellite	25	3

**Search**

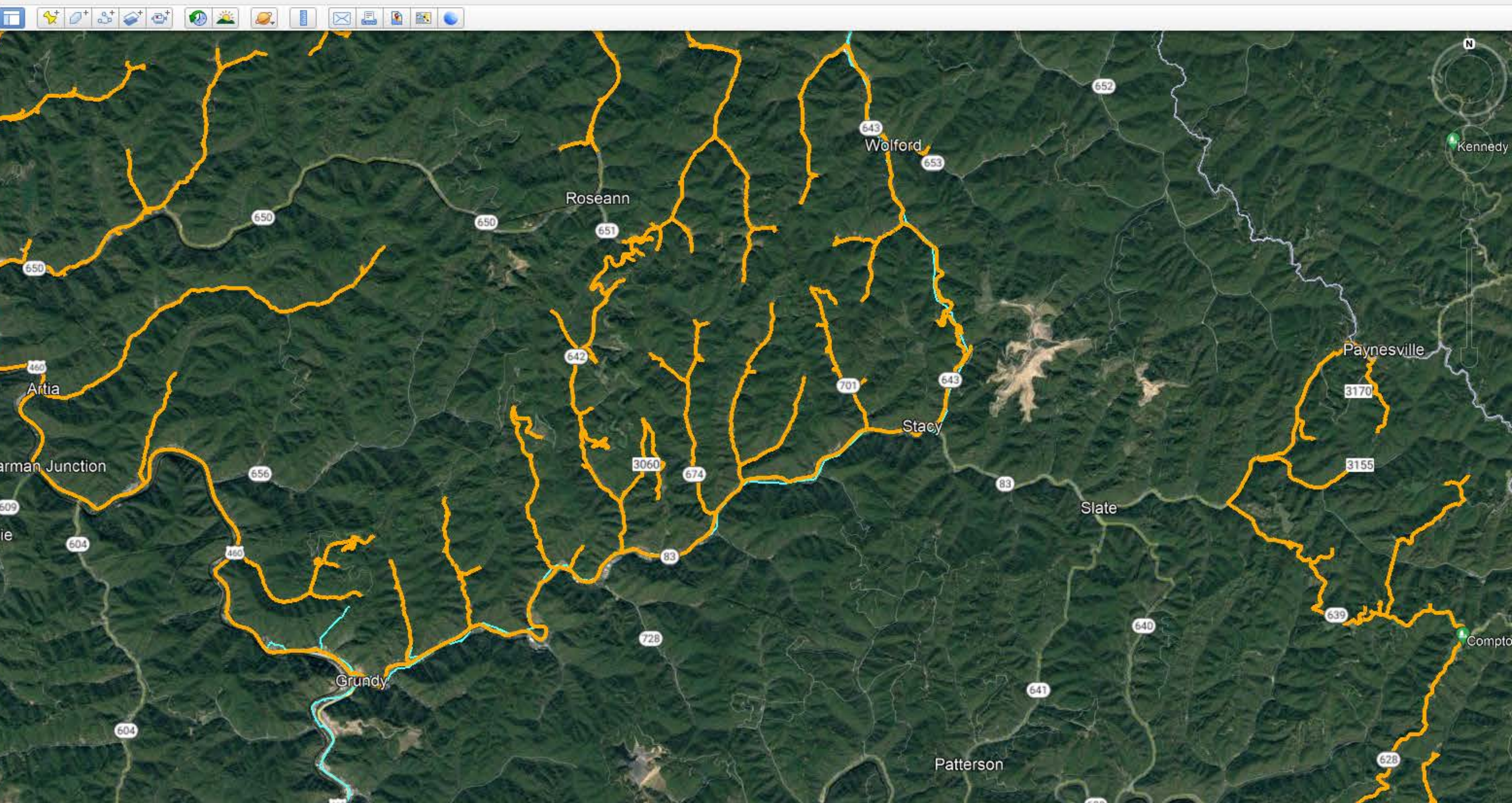
ex: Pizza near Clayville, NY

**Places**

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI Mt Rogers 08 23 21.kmz
  - VATI CPC 08 24 21.kmz

**Layers**

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





# We couldn't confirm your address

All we need is your address to get started.

STREET ADDRESS

UNIT

ZIP CODE

**The address you entered could not be recognized.**

Continue

### I WANT TO

- View & Pay Bill
- Check Email & Voicemail
- Manage My Account
- Check TV Listings
- Watch TV Online
- Contact Customer Support
- Refer-a-Friend
- Get Apps
- Manage Parental Controls
- Manage Users & Alerts
- Reset My Password
- Find My Account Number
- Monitor Home Security
- Upgrade My Service
- Find My Xfinity ID
- Get Help & Support
- Program My Remote
- Submit Feedback
- Find an Xfinity Store
- Move My Services
- Run Internet Speed Test

Search

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI CPC Boundary 09 06 21.kmz
- VATI CPC 08 24 21.kmz
- VATI CPC
- VATI CPC 08 20 21
- CPC Area
- CPC Area Competitors
- Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **656 BRYANTS CEMETERY RD, 24228**. To find a local provider, please contact SmartMove for assistance.

Try a different address, including apartment number



Please call toll-free: 1-855-718-0392 to get connected to the best TV, internet and phone services.

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Search

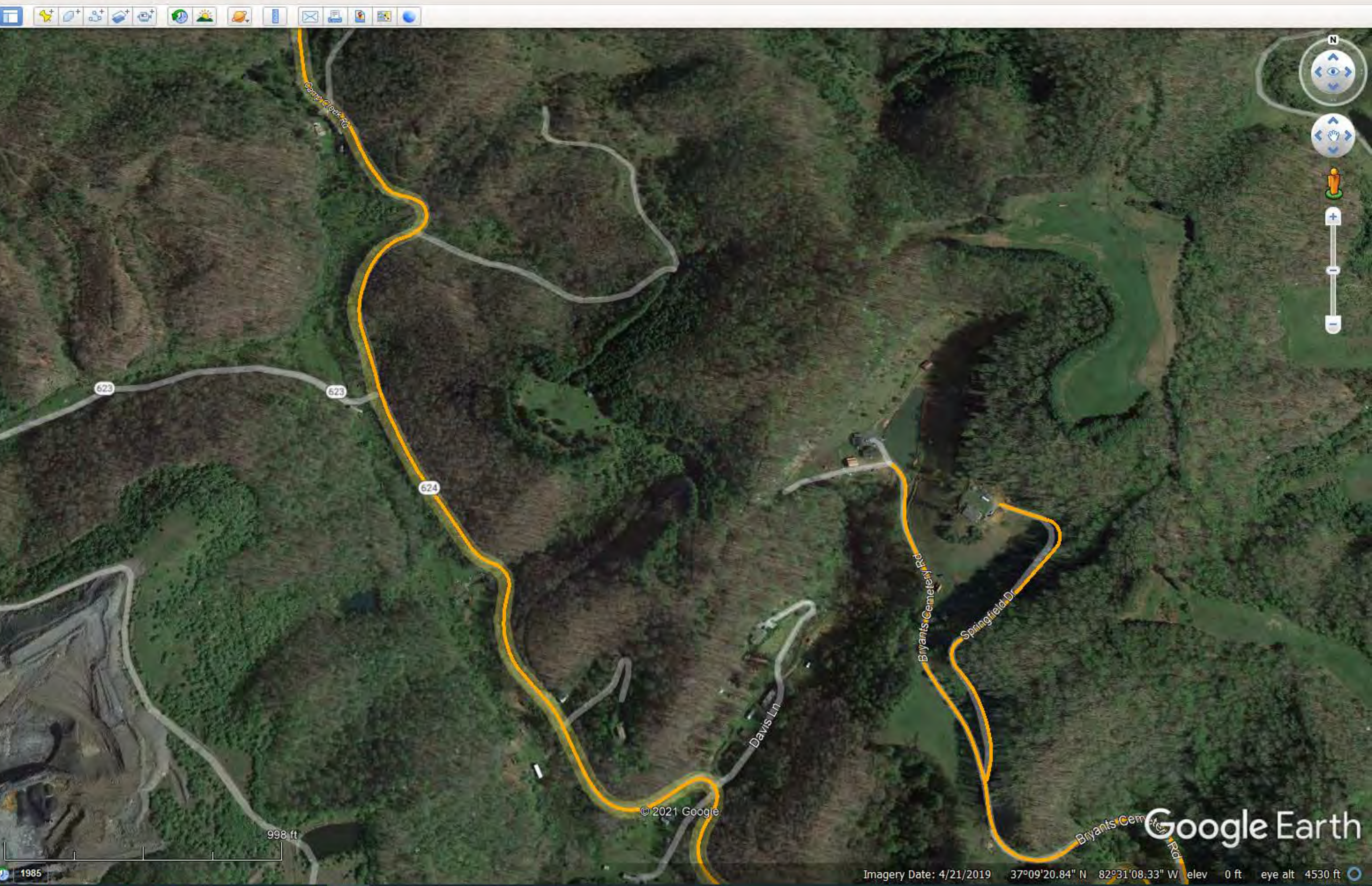
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
    - VA CAFII
      - VA CAFII
      - TN CAFII
      - TCCA Boissevain\_Pocahontas 08 30 20.kmz
      - Cleveland Grant Area.kmz
      - TNECD HAWKINS COUNTY PROJECT AREA.kmz
      - Mt Rogers Area.kmz
      - Potential Mount Rogers VATI 2021-22
      - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
        - CPC Area
          - CPC Area Competitors
          - Tazewell Co Area

Layers

- Primary Database
  - New Layers
  - Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **117 CAMP JACOB RD, 24228**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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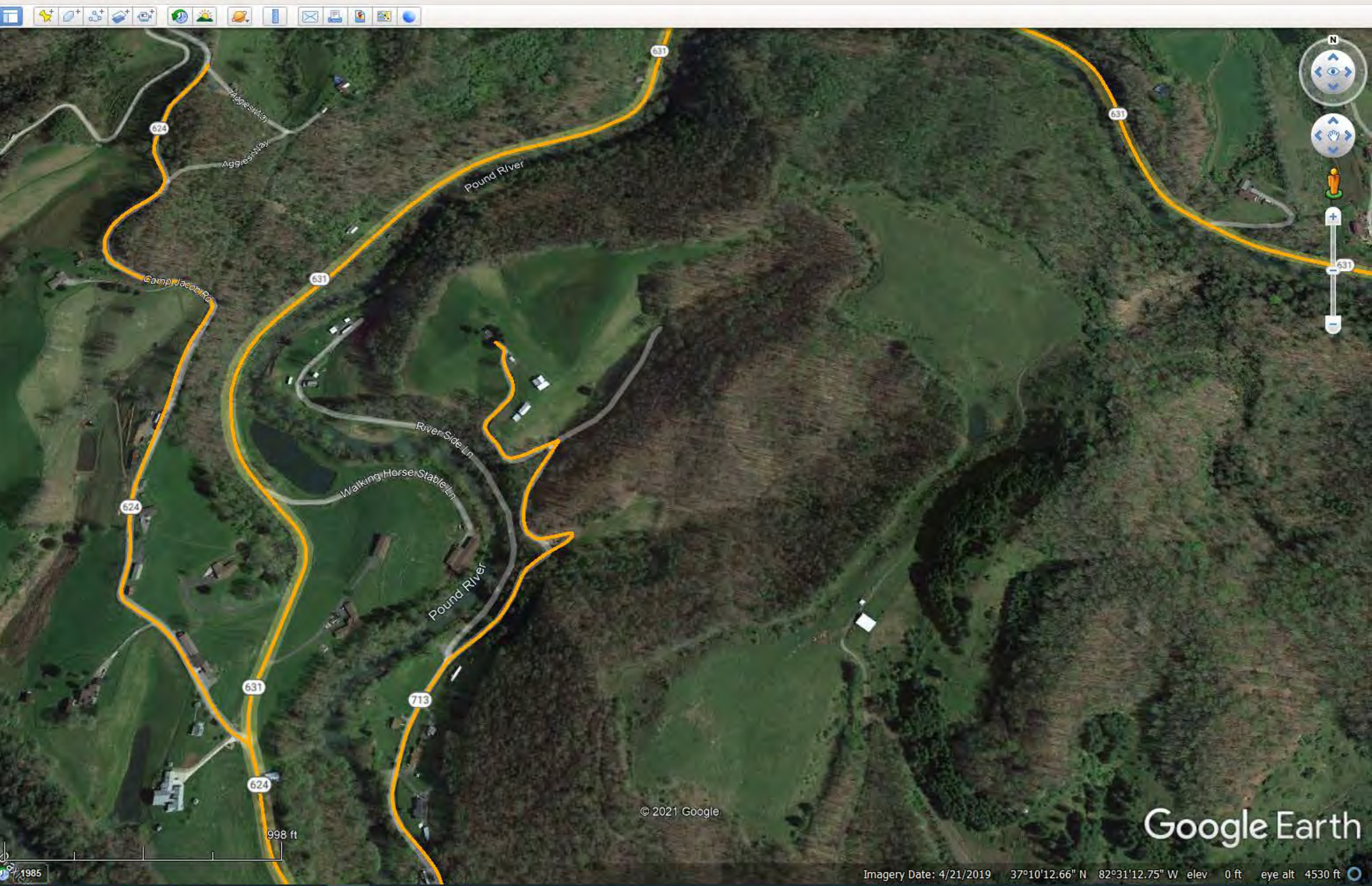
Search bar with search icon and text input field.

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
    - VA CAFII
      - VA CAFII
      - TN CAFII
      - TCCA Boissevain\_Pocahontas 08 30 20.kmz
      - Cleveland Grant Area.kmz
      - TNECD HAWKINS COUNTY PROJECT AREA.kmz
      - Mt Rogers Area.kmz
      - Potential Mount Rogers VATI 2021-22
      - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
          - CPC Area
          - CPC Area Competitors
          - Tazewell Co Area

Layers

- Primary Database
  - New Layers
  - Borders and Labels
    - Places
    - Photos
    - Roads and Transportation
    - 3D Buildings
    - Weather
    - Gallery
    - More
    - Borders and Labels (Outdated)
      - Places (Outdated)
      - Roads (Outdated)
    - Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **130 OSBORNES GAP RD, 24228**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



Please call toll-free: 1-855-718-0392 to get connected to the best TV, internet and phone services.

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Search

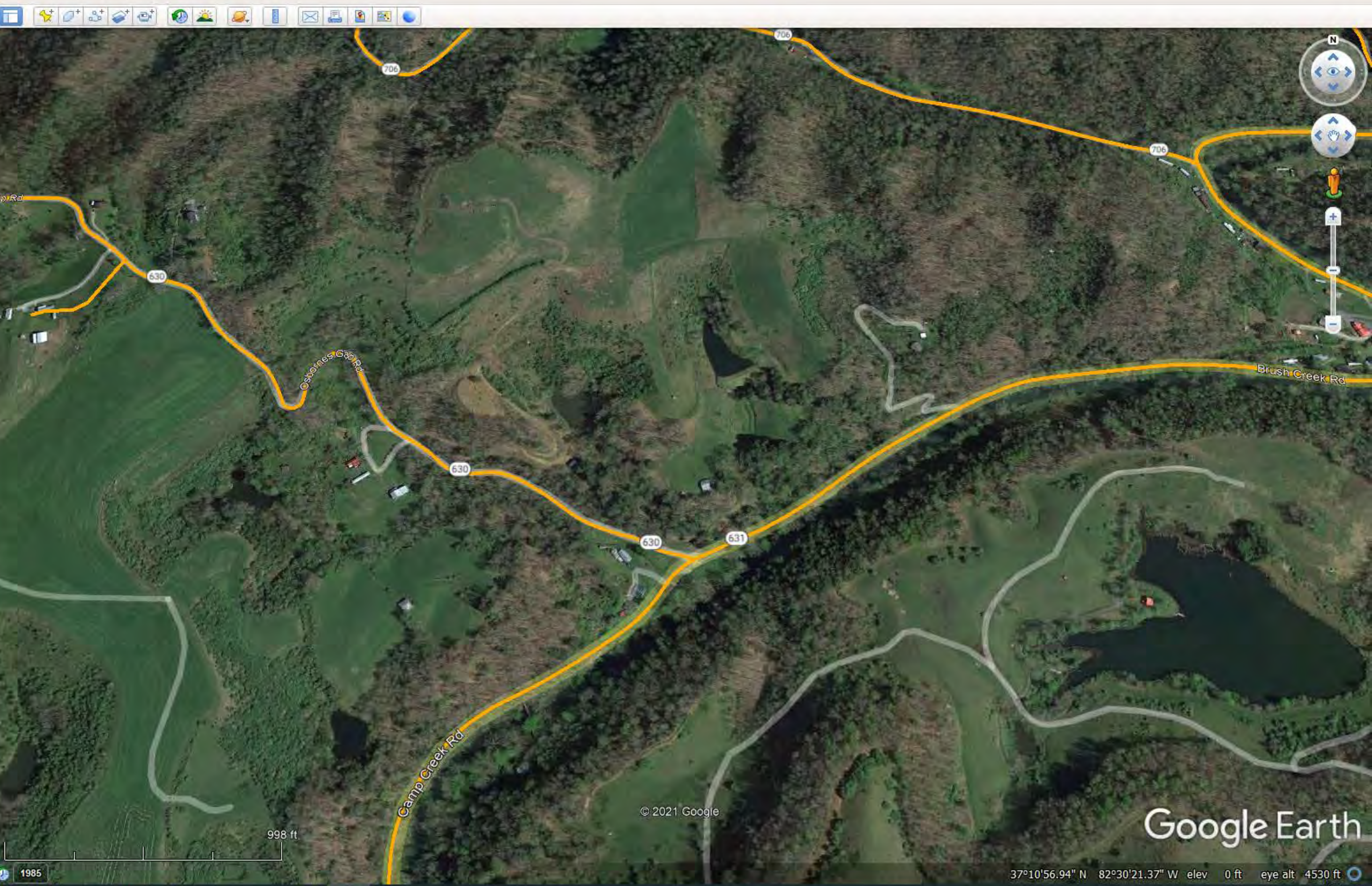
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
    - VA CAFII
      - VA CAFII
      - TN CAFII
      - TCCA Boissevain\_Pocahontas 08 30 20.kmz
      - Cleveland Grant Area.kmz
      - TNECD HAWKINS COUNTY PROJECT AREA.kmz
      - Mt Rogers Area.kmz
      - Potential Mount Rogers VATI 2021-22
      - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
        - CPC Area
          - CPC Area Competitors
          - Tazewell Co Area

Layers

- Primary Database
  - New Layers
  - Borders and Labels
    - Places
    - Photos
    - Roads and Transportation
    - 3D Buildings
    - Weather
    - Gallery
    - More
    - Borders and Labels (Outdated)
      - Places (Outdated)
      - Roads (Outdated)
    - Terrain





## What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
315 RILEY KILLIAN LN	Unit	24228

! The address you entered could not be recognized.

[Continue](#)

[Existing customer? Shop Deals & Customize](#)

Google Earth Pro

File Edit View Tools Add Help

Search

Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
        - CPC Area
        - CPC Area Competitors
        - Tazewell Co Area

- Layers
- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

© 2021 Google

Google Earth

Imagery Date: 4/21/2019 37°11'49.81" N 82°28'19.08" W elev 0 ft eye alt 3640 ft



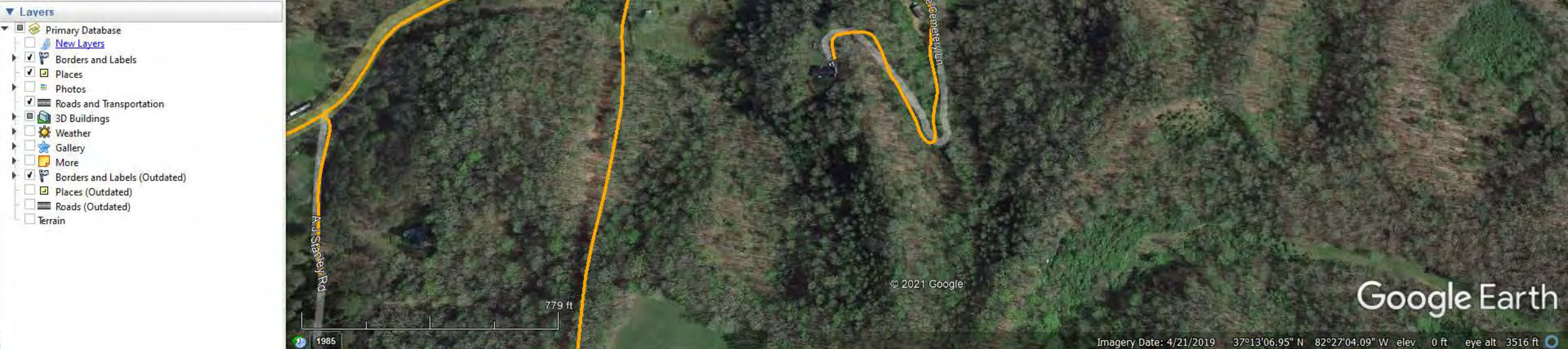
Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for 410 ROWE CEMETERY LN, 24228. To find a local provider, please contact SmartMove for assistance.

Try a different address, including apartment number

xfinity Please call toll-free: 1-855-718-0392 to get connected to the best TV, internet and phone services. powered by smartmove

Search Places My Places Sightseeing Tour ~GEB2D8.kmz Cable Layers VA CAFII VA CAFII TN CAFII TCCA Boissevain\_Pocahontas 08 30 20.kmz Cleveland Grant Area.kmz TNECD HAWKINS COUNTY PROJECT AREA.kmz Mt Rogers Area.kmz Potential Mount Rogers VATI 2021-22 Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz Temporary Places VATI CPC Boundary 09 06 21.kmz VATI CPC 08 24 21.kmz VATI CPC VATI CPC 08 20 21 CPC Area CPC Area Competitors Tazewell Co Area Layers Primary Database New Layers Borders and Labels Places Photos Roads and Transportation 3D Buildings Weather Gallery More Borders and Labels (Outdated) Places (Outdated) Roads (Outdated) Terrain





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for 112 BLOWING ROCK RD, 24228. To find a local provider, please contact SmartMove for assistance.

Try a different address, including apartment number



Please call toll-free: 1-855-718-0392 to get connected to the best TV, internet and phone services.

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Search

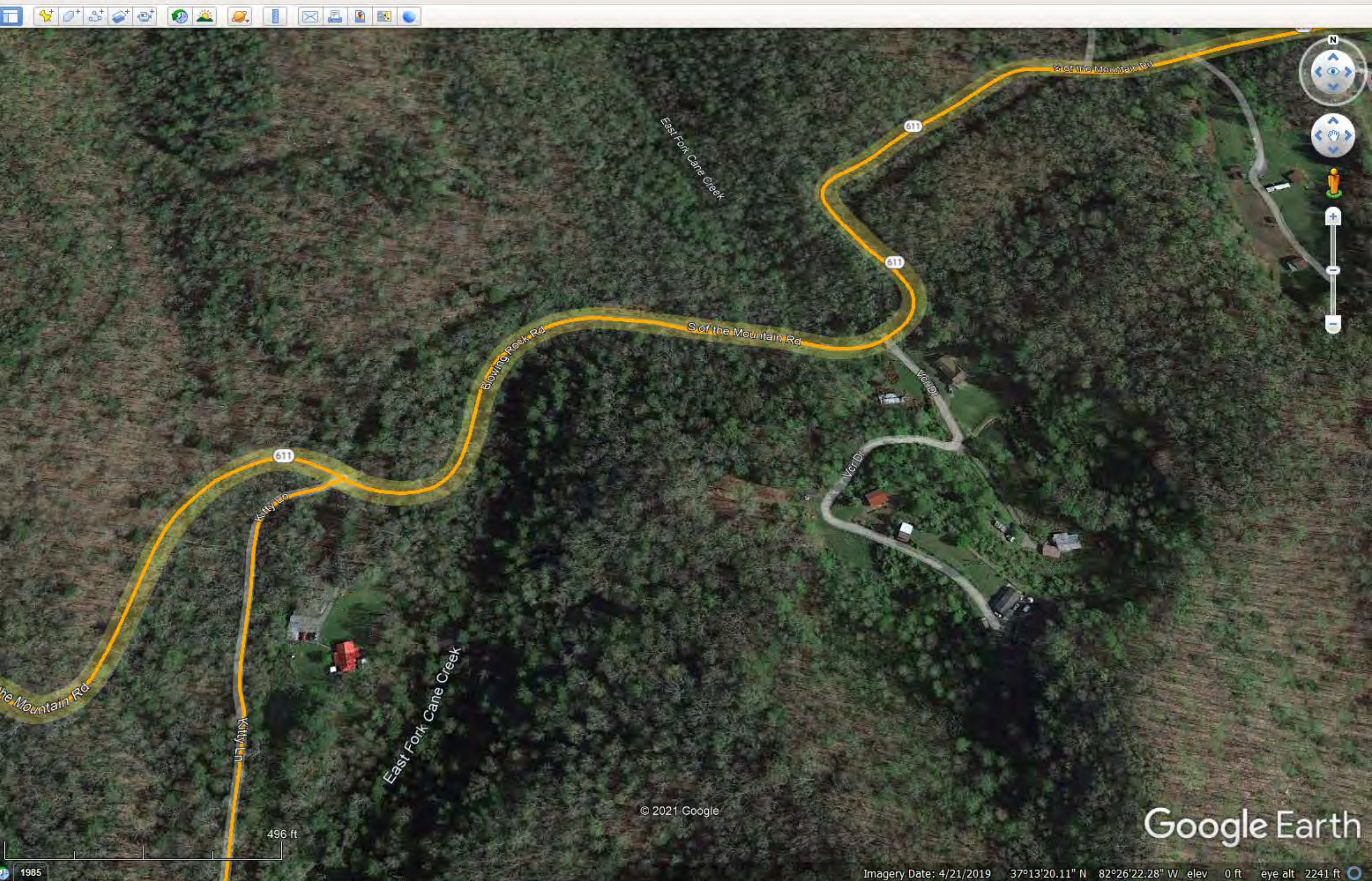
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI CPC Boundary 09 06 21.kmz
- VATI CPC 08 24 21.kmz
- VATI CPC
- VATI CPC 08 20 21
- CPC Area
- CPC Area Competitors
- Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **368 ANDY JACKSON RD, 24228**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



Please call toll-free: 1-855-718-0392  
to get connected to the best TV, internet and phone services.

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Search

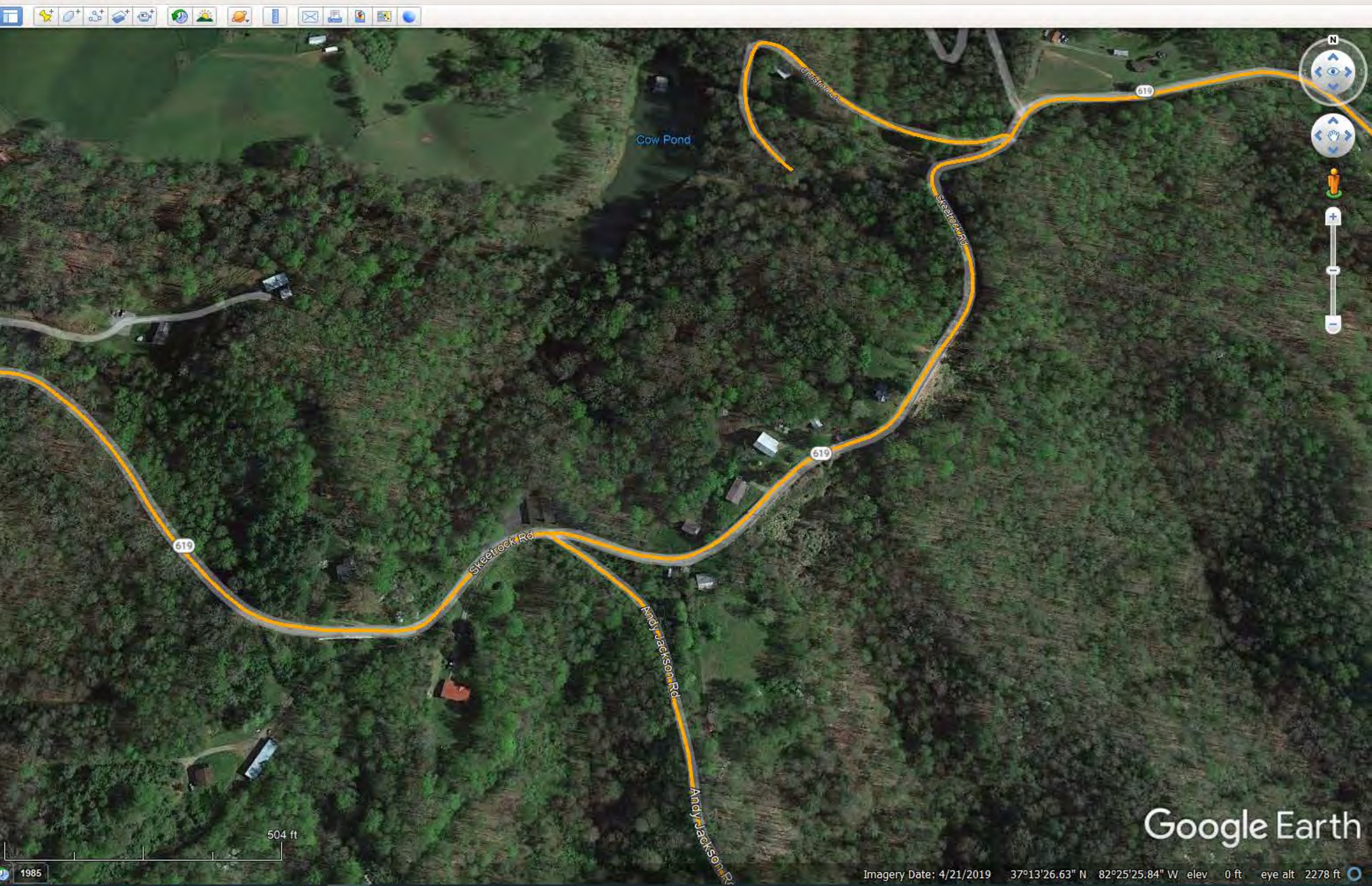
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
    - VA CAFII
      - VA CAFII
      - TN CAFII
      - TCCA Boissevain\_Pocahontas 08 30 20.kmz
      - Cleveland Grant Area.kmz
      - TNECD HAWKINS COUNTY PROJECT AREA.kmz
      - Mt Rogers Area.kmz
      - Potential Mount Rogers VATI 2021-22
      - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
        - CPC Area
          - CPC Area Competitors
          - Tazewell Co Area

Layers

- Primary Database
  - New Layers
  - Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **295 COVE RD, 24256**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

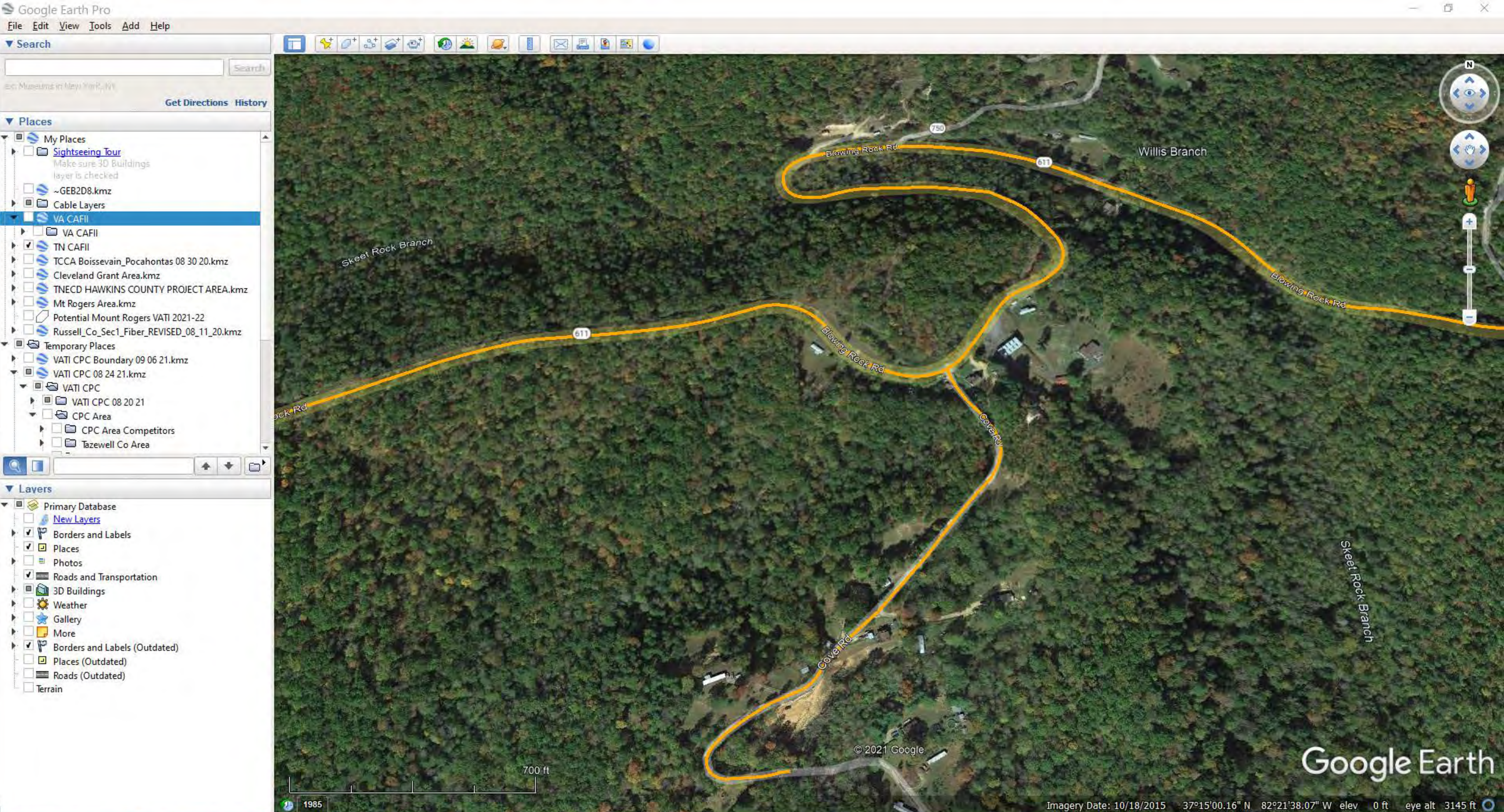
We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

295 COVE RD      APT/UNIT      24256      [Get Connected](#) →







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **159 BURCHETT LN, 24256**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

<b>159 BURCHETT LN</b>	<b>APT/UNIT</b>	<b>24256</b>	<b>Get Connected</b> →
------------------------	-----------------	--------------	------------------------

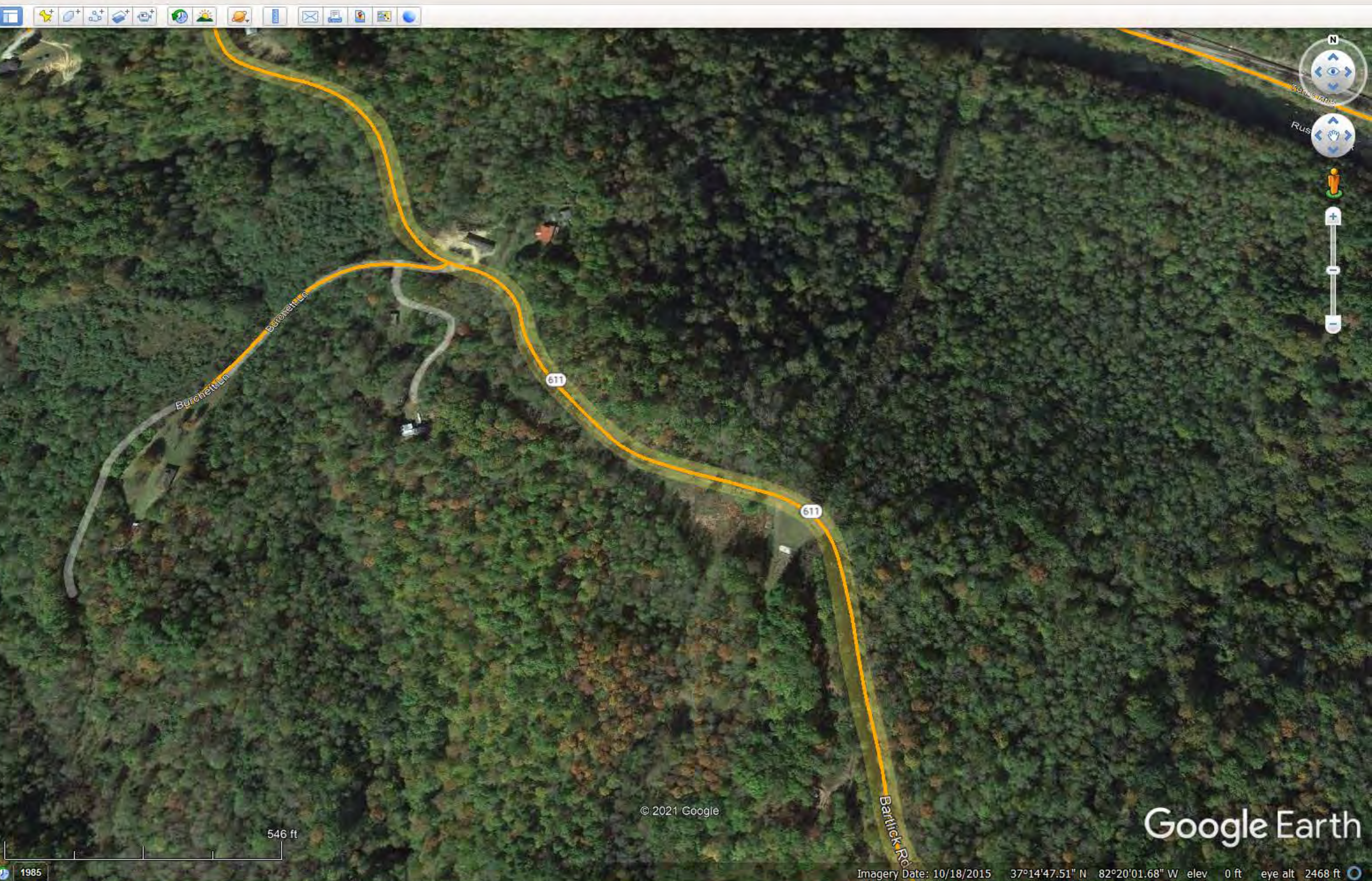
Search

My Places

- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII**
  - VA CAFII
  - TN CAFII
  - TCCA Boissevain\_Pocahontas 08 30 20.kmz
  - Cleveland Grant Area.kmz
  - TNECD HAWKINS COUNTY PROJECT AREA.kmz
  - Mt Rogers Area.kmz
  - Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
      - CPC Area
      - CPC Area Competitors
      - Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **718 TOMS BTM, 24256**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

<b>718 TOMS BTM</b>	<b>APT/UNIT</b>	<b>24256</b>	<b>Get Connected</b> →
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Search

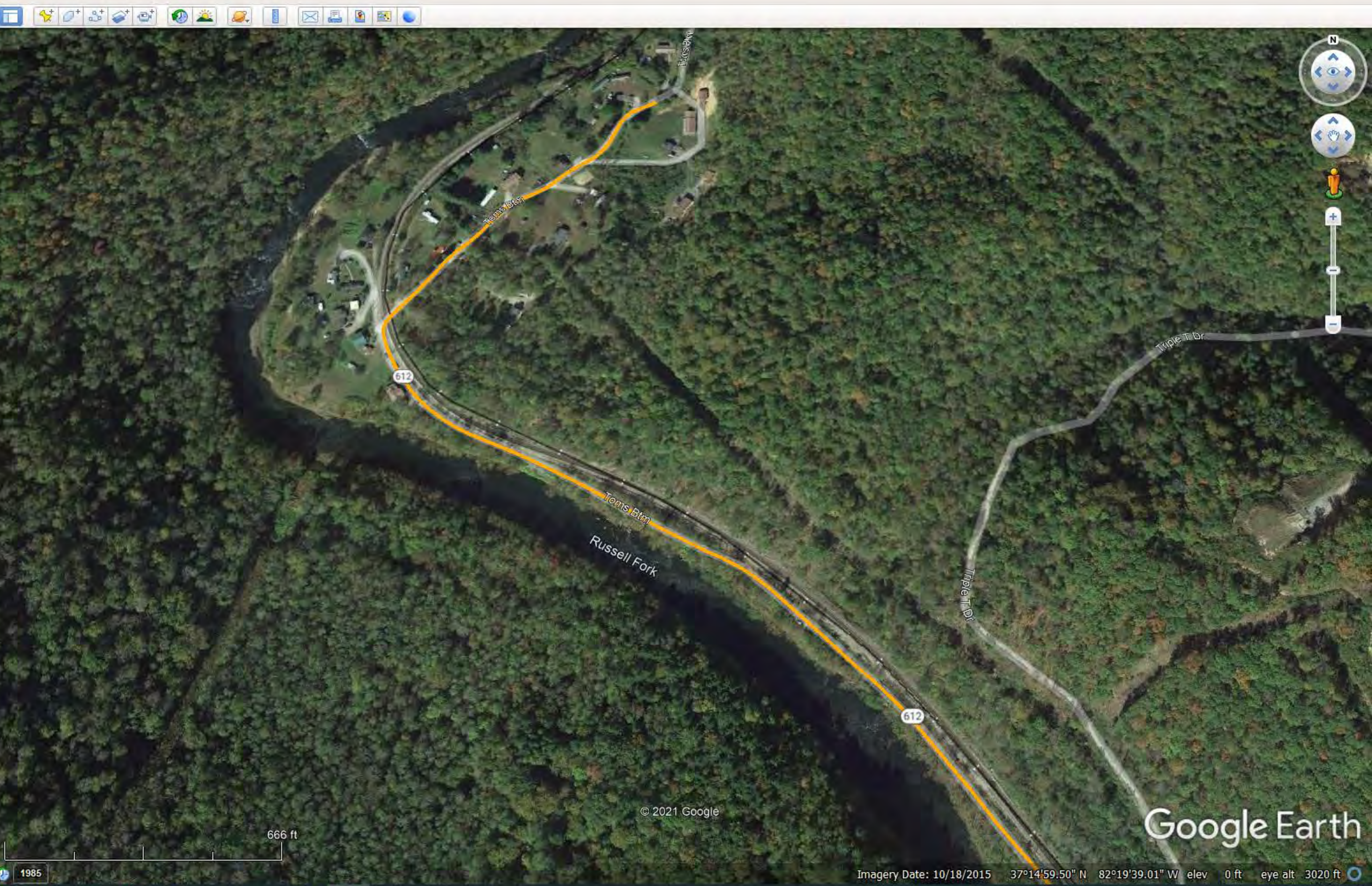
Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
      - CPC Area
      - CPC Area Competitors
      - Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **little lick creek rd, 24256**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

**LITTLE LICK CREEK RD**      **APT/UNIT**      **24256**      [Get Connected](#) →

Search

My Places

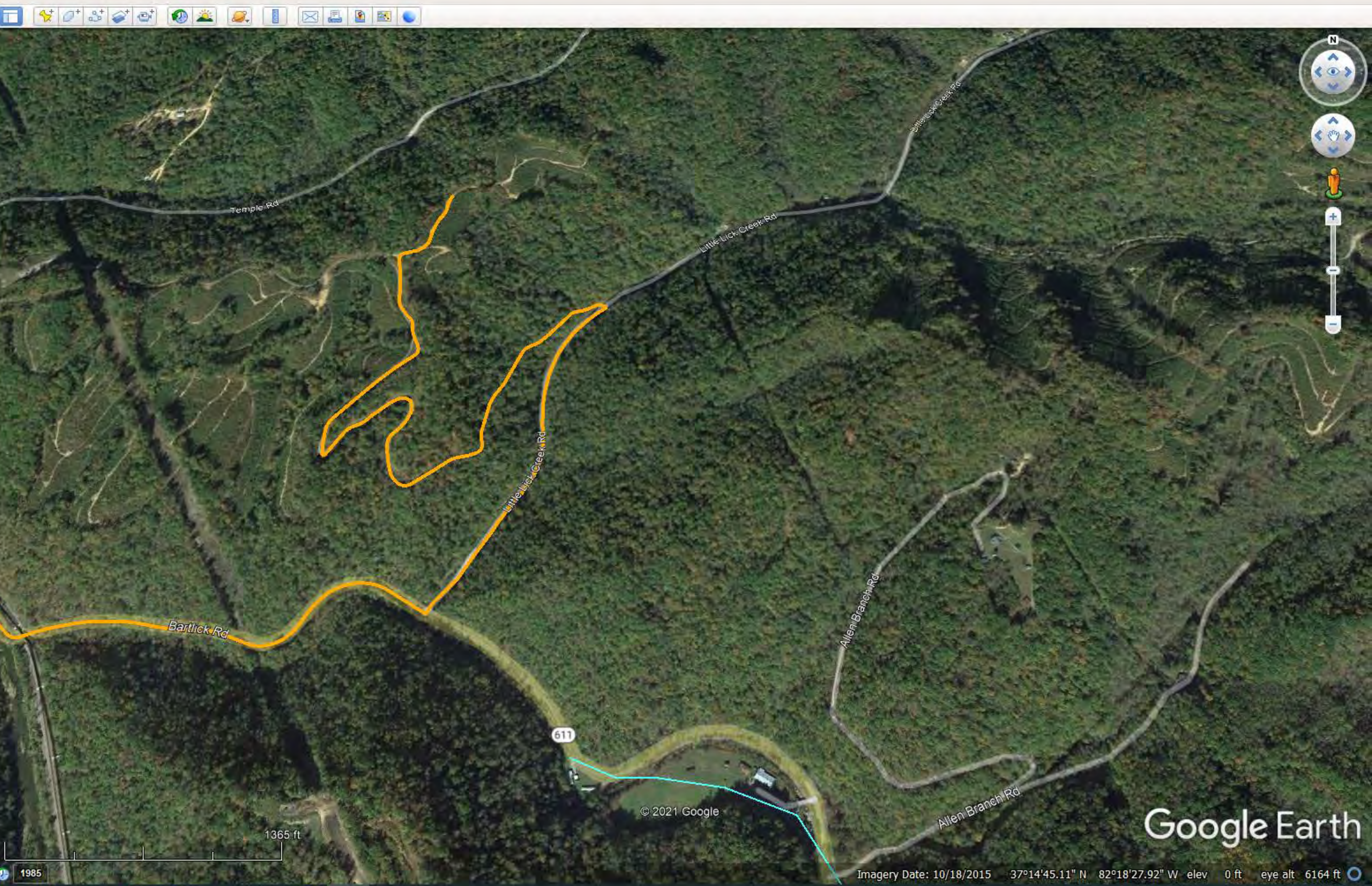
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII**
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz

Temporary Places

- VATI CPC Boundary 09 06 21.kmz
- VATI CPC 08 24 21.kmz
- VATI CPC
- VATI CPC 08 20 21
- CPC Area
- CPC Area Competitors
- Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **114 POKER FLTS, 24272**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search

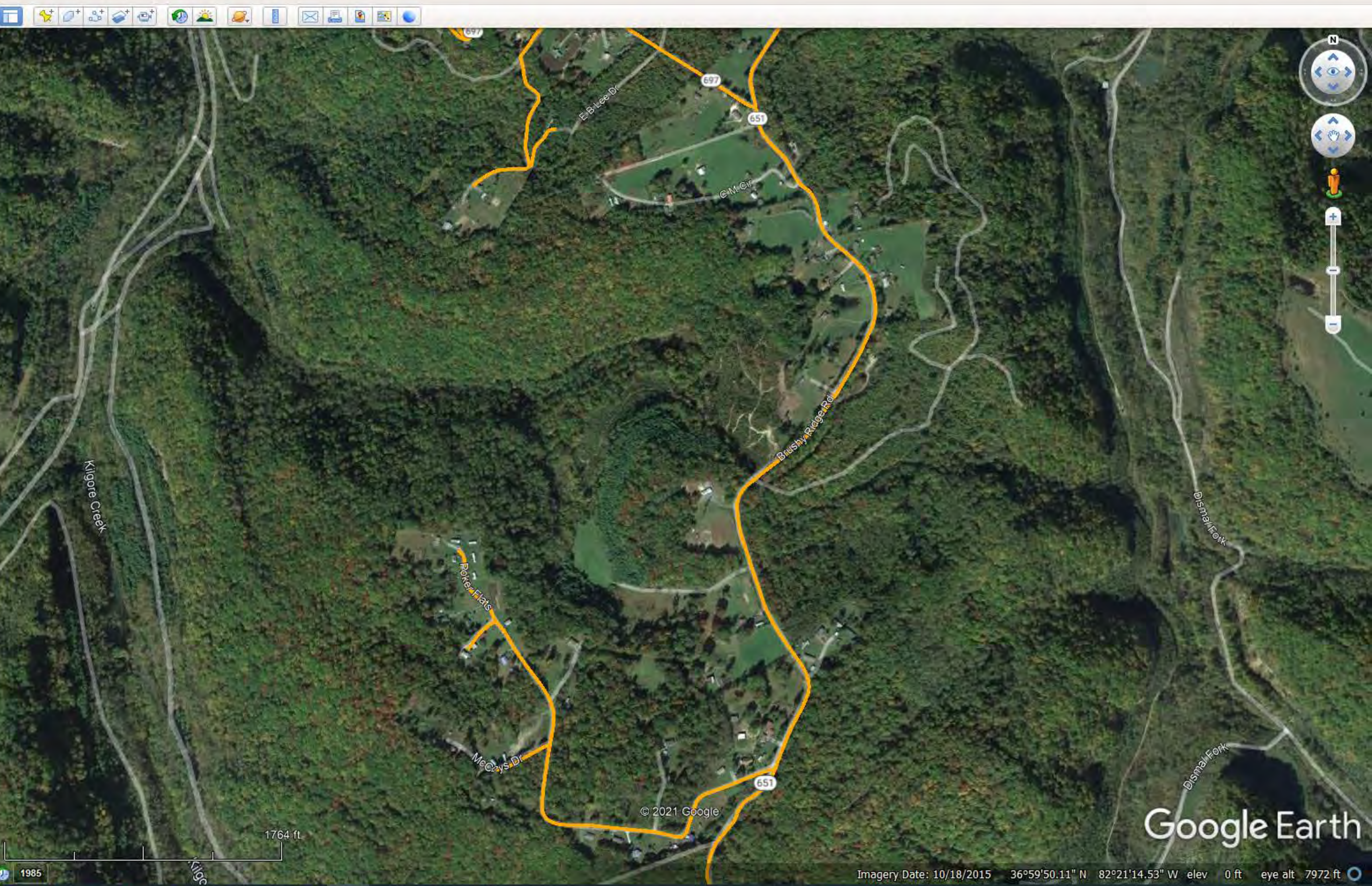
Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
      - CPC Area
      - CPC Area Competitors
      - Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **594 HIGHLAND RD, 24272**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



Please call toll-free: **1-855-718-0392**  
to get connected to the best TV, internet and phone services.

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Search

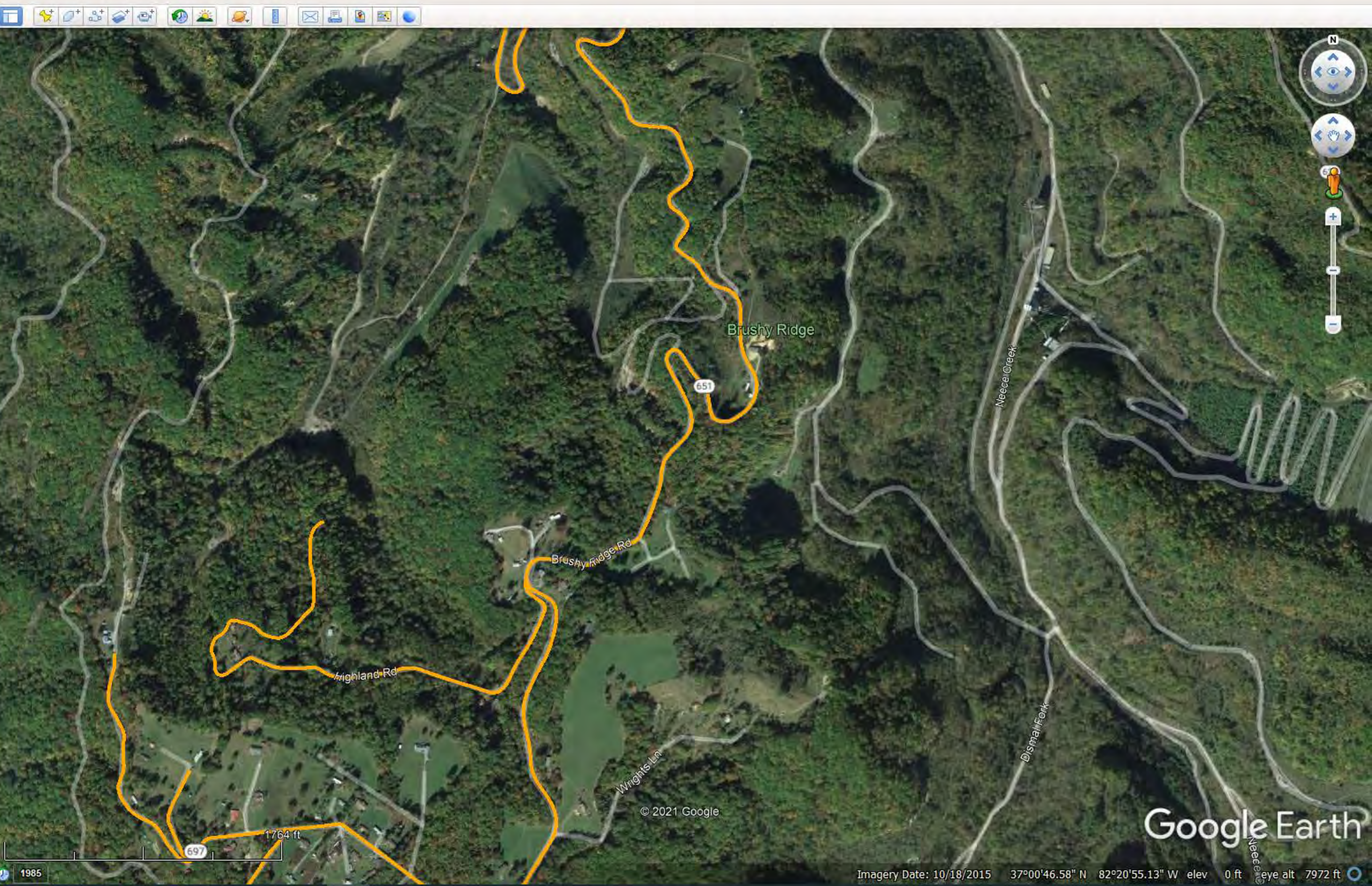
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
          - CPC Area
            - CPC Area Competitors
            - Tazewell Co Area

Layers

- Primary Database
  - New Layers
  - Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **331 JOSIE LN, 24269**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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**Clint Wiley**  
I already have quickbase access and Tom previously gave me pointers....

← Reply

Google Earth Pro interface showing a satellite map of a wooded area with a yellow path. The interface includes a search bar, a 'Places' sidebar with a tree view of saved locations (e.g., VA CAFI, TN CAFI, TCCA Boissevain\_Pocahontas 08 30 20.kmz), and a 'Layers' sidebar with various map layers (e.g., Borders and Labels, Photos, Roads and Transportation). The map shows roads like 'Carter Stanley Fwy' and 'South Park', and a river labeled 'McClure River'. A scale bar at the bottom indicates 745 ft.





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **110 DYERS CHAPEL RD, 24226**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search

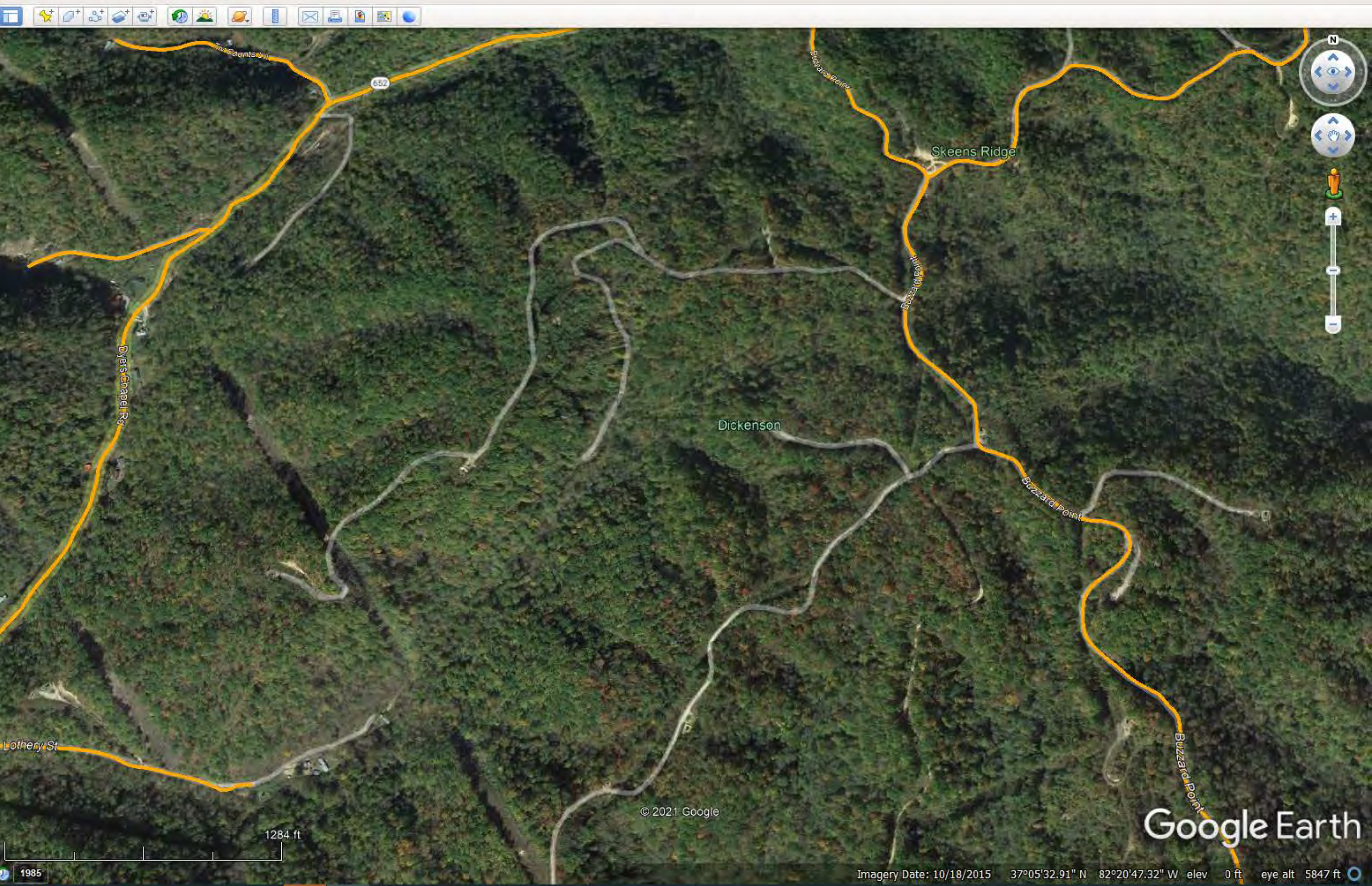
Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
        - CPC Area
          - CPC Area Competitors
          - Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **110 DYERS CHAPEL RD, 24226**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



Please call toll-free: 1-855-718-0392  
to get connected to the best TV, internet and phone services.

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Search

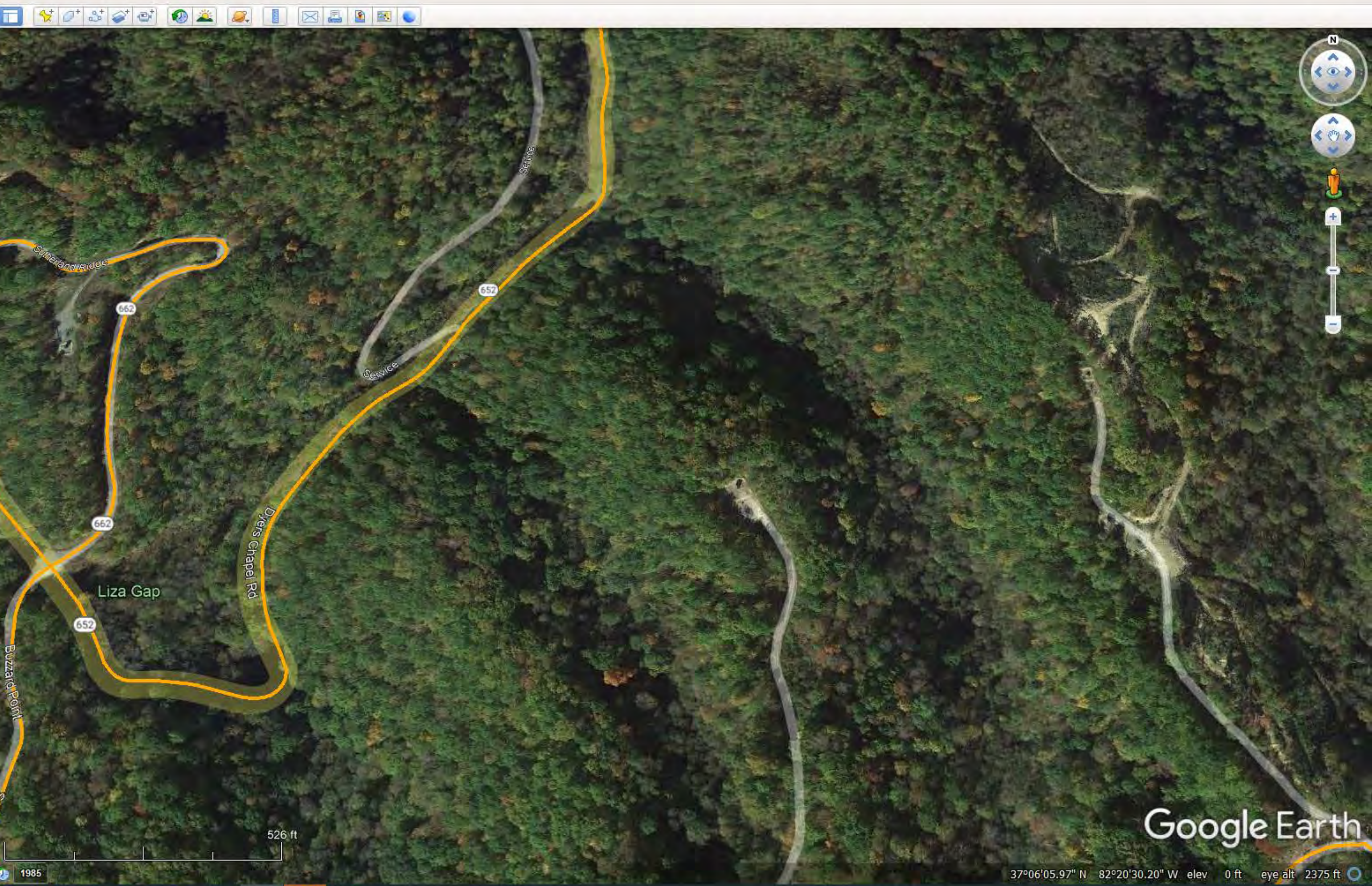
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
    - VA CAFII
      - VA CAFII
      - TN CAFII
      - TCCA Boissevain\_Pocahontas 08 30 20.kmz
      - Cleveland Grant Area.kmz
      - TNECD HAWKINS COUNTY PROJECT AREA.kmz
      - Mt Rogers Area.kmz
      - Potential Mount Rogers VATI 2021-22
      - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
          - CPC Area
            - CPC Area Competitors
            - Tazewell Co Area

Layers

- Primary Database
  - New Layers
  - Borders and Labels
    - Places
    - Photos
  - Roads and Transportation
    - 3D Buildings
    - Weather
    - Gallery
    - More
  - Borders and Labels (Outdated)
    - Places (Outdated)
    - Roads (Outdated)
  - Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **1017 ROOSE RD, 24226**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



Please call toll-free: 1-855-718-0392 to get connected to the best TV, internet and phone services.

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Search

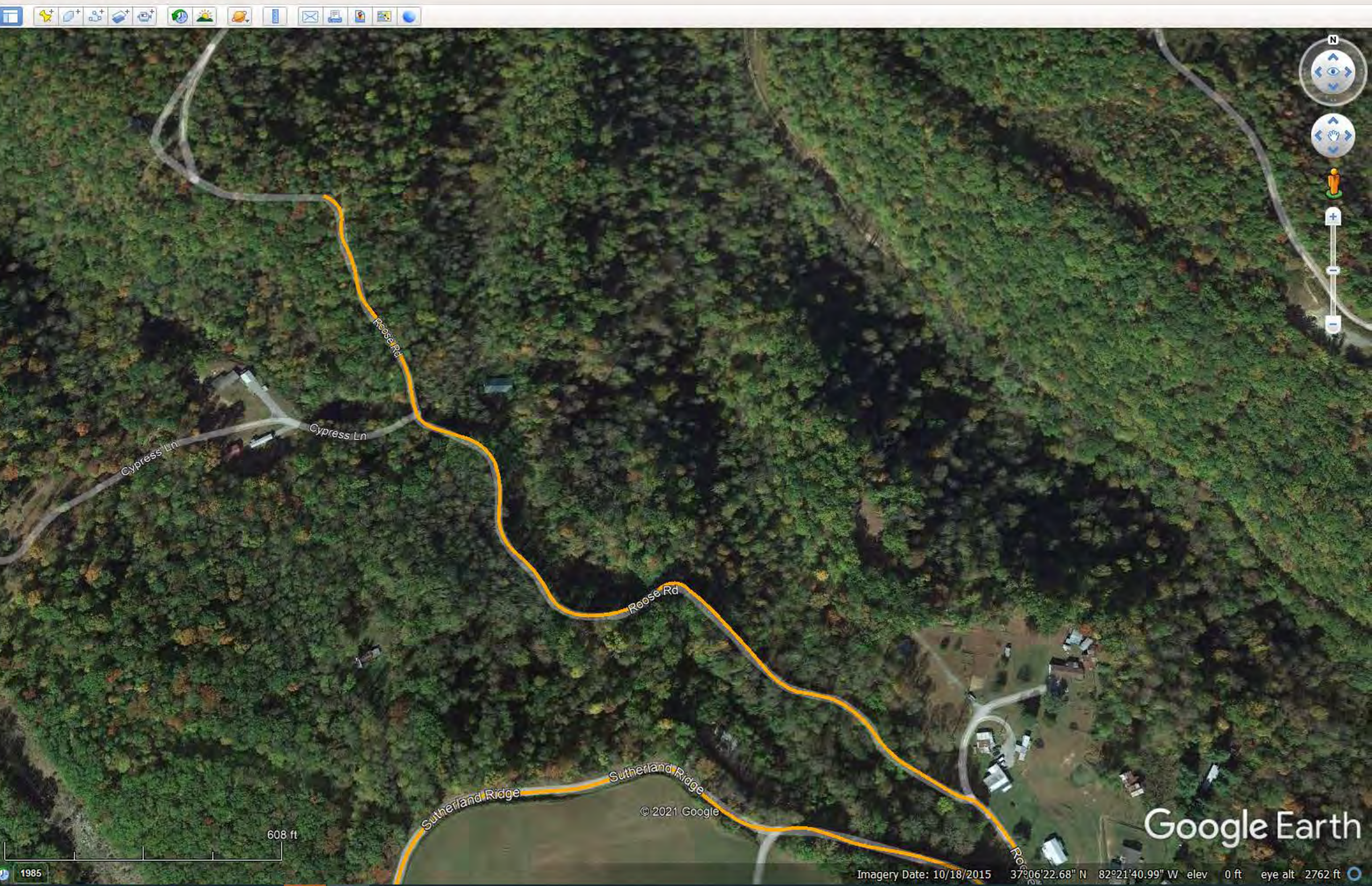
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain\_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
- VATI CPC Boundary 09 06 21.kmz
- VATI CPC 08 24 21.kmz
- VATI CPC
- VATI CPC 08 20 21
- CPC Area
- CPC Area Competitors
- Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **898 SAYRIC DR, 24237**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

<b>898 SAYRIC DR</b>	<b>APT/UNIT</b>	<b>24237</b>	<b>Get Connected</b> →
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Search

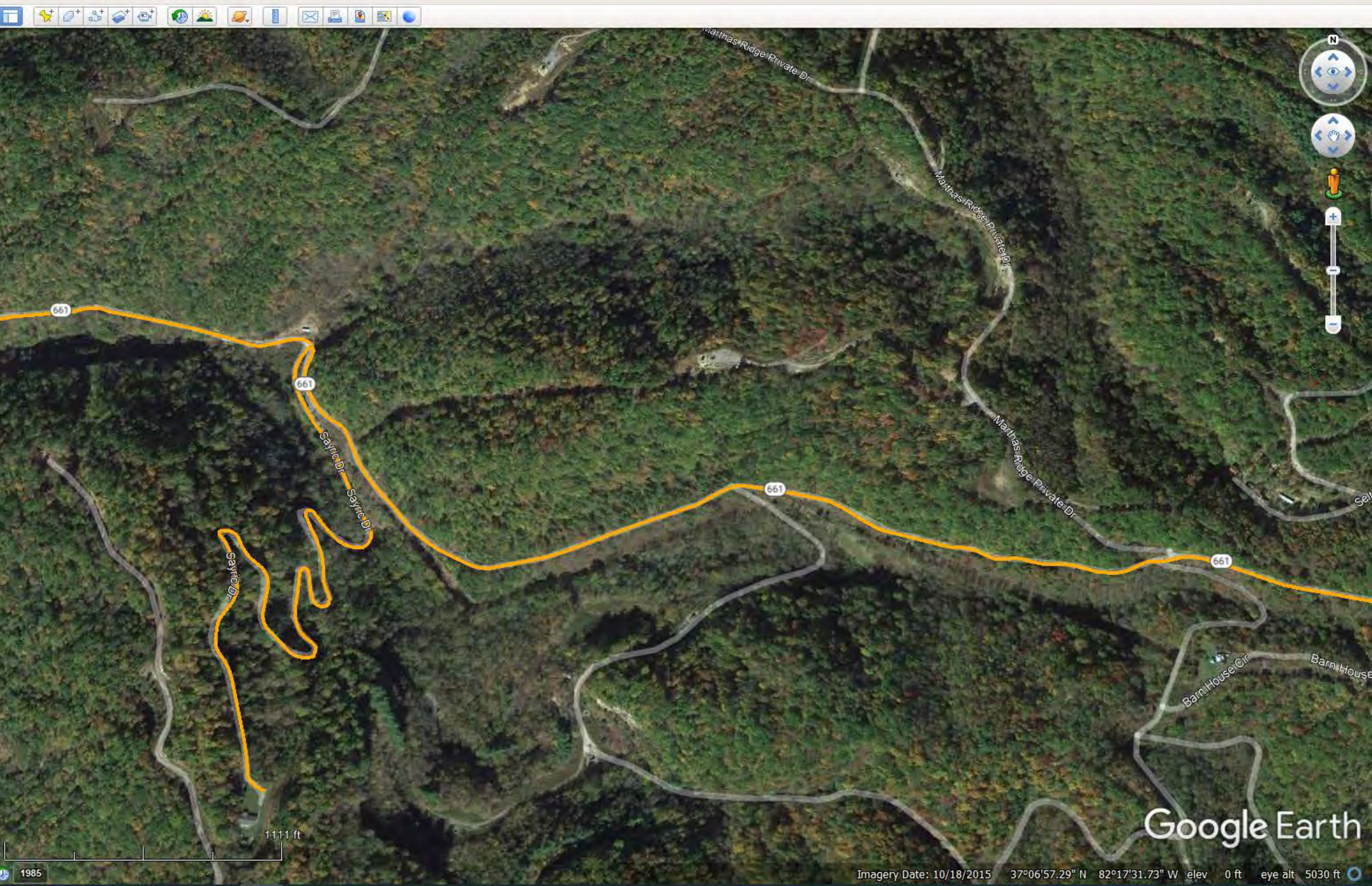
Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
      - CPC Area
      - CPC Area Competitors
      - Tazewell Co Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





### What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
520 RUSS EDWARDS RD	Unit	24226

**!** The address you entered could not be recognized.

[Continue](#)

[Existing customer? Shop Deals & Customize](#)

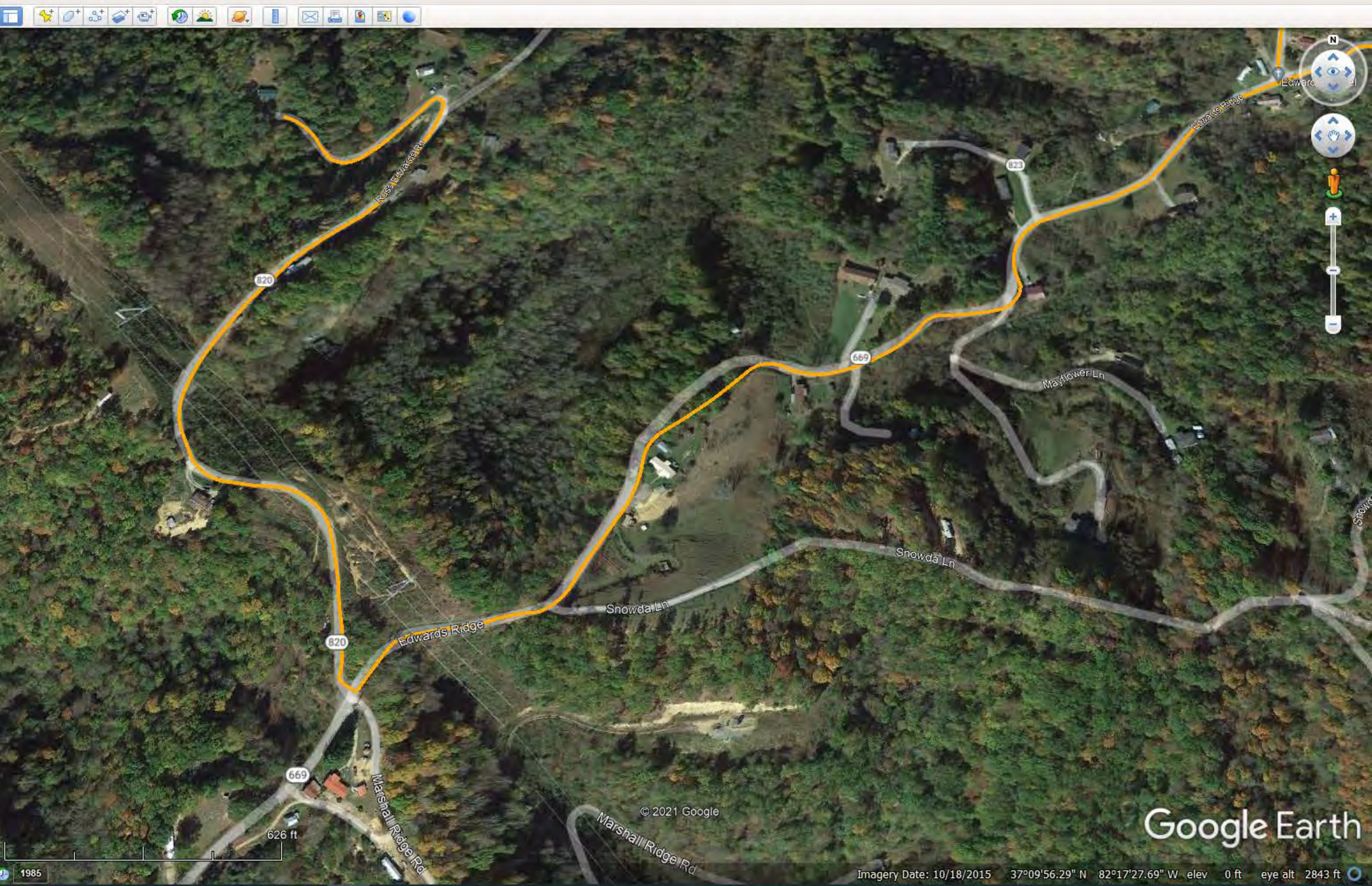
#### Search

Get Directions History

#### Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
        - CPC Area
        - CPC Area Competitors
        - Tazewell Co Area

- #### Layers
- Primary Database
    - New Layers
    - Borders and Labels
    - Places
    - Photos
    - Roads and Transportation
    - 3D Buildings
    - Weather
    - Gallery
    - More
    - Borders and Labels (Outdated)
    - Places (Outdated)
    - Roads (Outdated)
    - Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **maple dr, 1, 24226**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

MAPLE DR 1 24226 [Get Connected](#)

Search

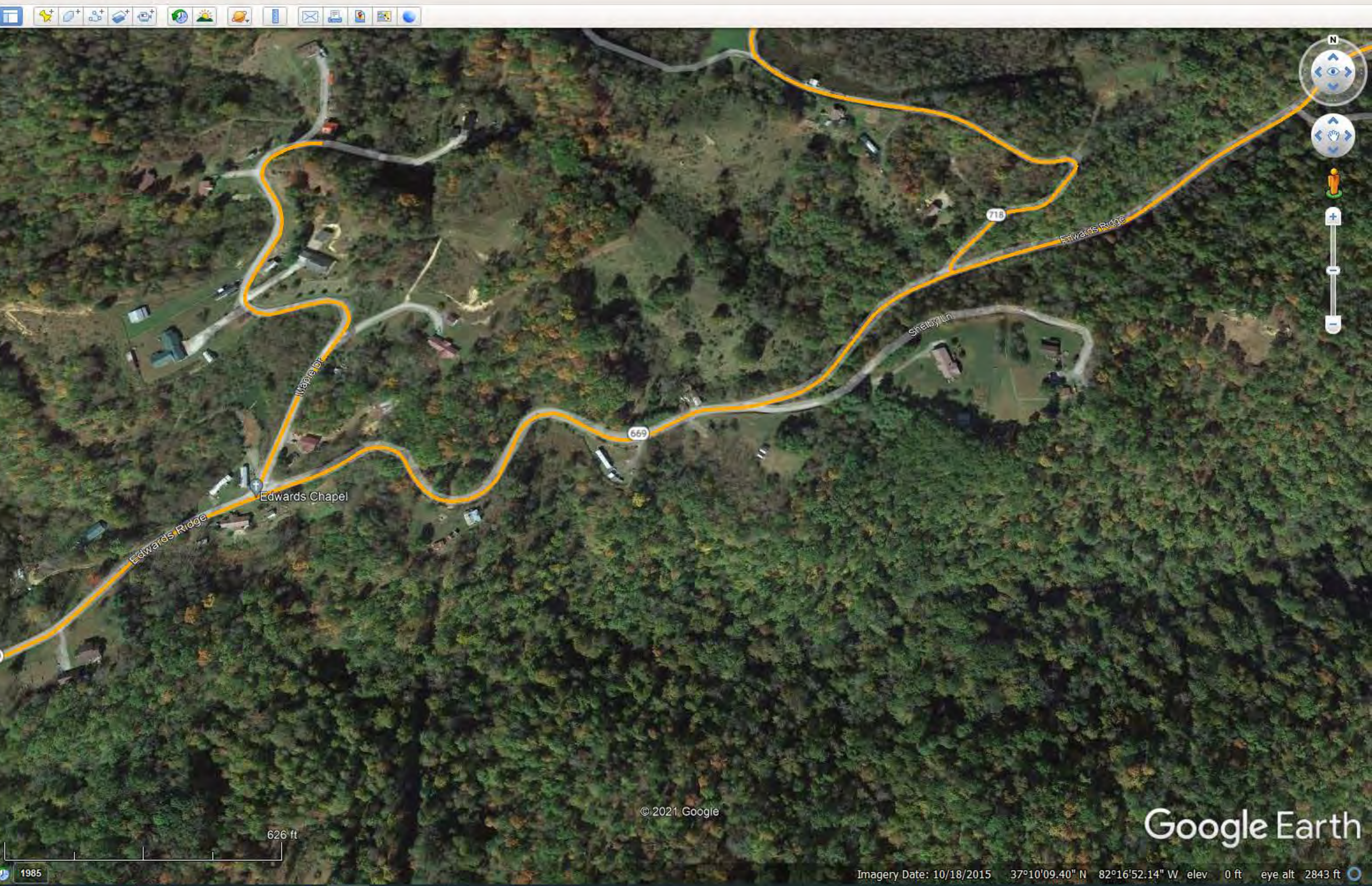
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
      - CPC Area
        - CPC Area Competitors
        - Tazewell Co Area

Layers

- Primary Database
  - New Layers
  - Borders and Labels
  - Places
  - Photos
  - Roads and Transportation
  - 3D Buildings
  - Weather
  - Gallery
  - More
  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **217 ROOSTER HOLW, 24256**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

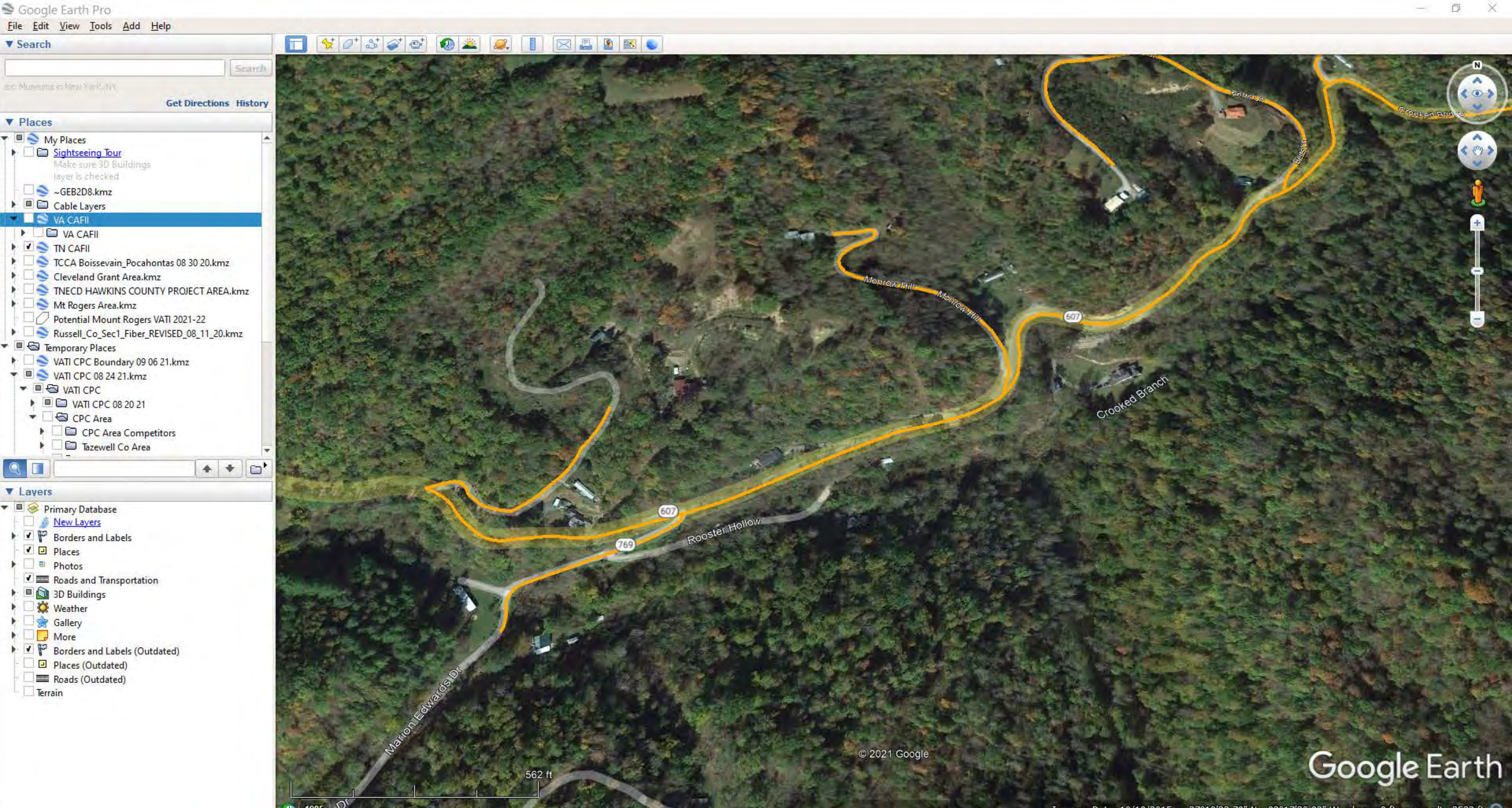
We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

217 ROOSTER HOLW      APT/UNIT      24256      [Get Connected](#)







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **317 VIERS RDG, 24256**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

<b>317 VIERS RDG</b>	<b>APT/UNIT</b>	<b>24256</b>	<b>Get Connected</b> →
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Search

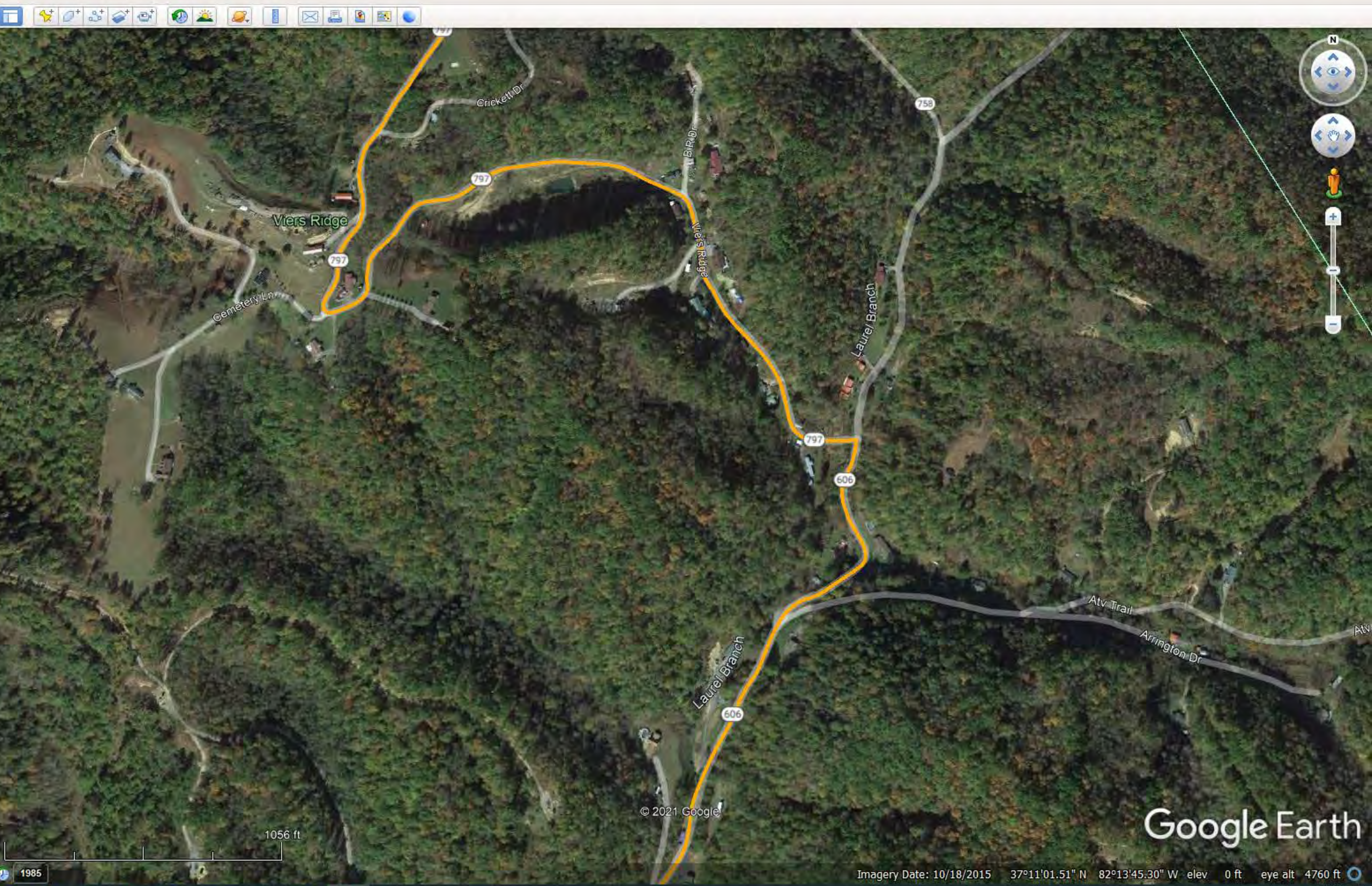
Get Directions History

Places

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
      - CPC Area
      - CPC Area Competitors
      - Tazewell Co Area

Layers

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- New Layers
- Borders and Labels
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- Photos
- Roads and Transportation
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- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **1264 TILDY BR, 24220**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

No worries! We've found another service provider. In just a moment you will be automatically redirected to their site, or you can click the button below.



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Google Earth interface showing a satellite map of a wooded area with a yellow path. The interface includes a search bar, a 'Places' sidebar with a tree view of saved locations (e.g., VA CAFI, TN CAFI, TCCA Boissevain\_Pocahontas), and a 'Layers' sidebar with map settings (e.g., Borders and Labels, Photos, Roads and Transportation). The map shows labels for 'Lower Rakes Branch', 'Viers Ridge', and 'Bartons Cadin Mountain'. A scale bar at the bottom indicates 1321 ft.





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **310 RAKES RIDGE RD, 24220**. To find a local provider, please contact SmartMove for assistance.

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Get new deals sent right to your inbox.

Email Address

Zip Code

[Send Deals](#)

By entering your email address, you agree to receive marketing communications from Comcast via email.

Search

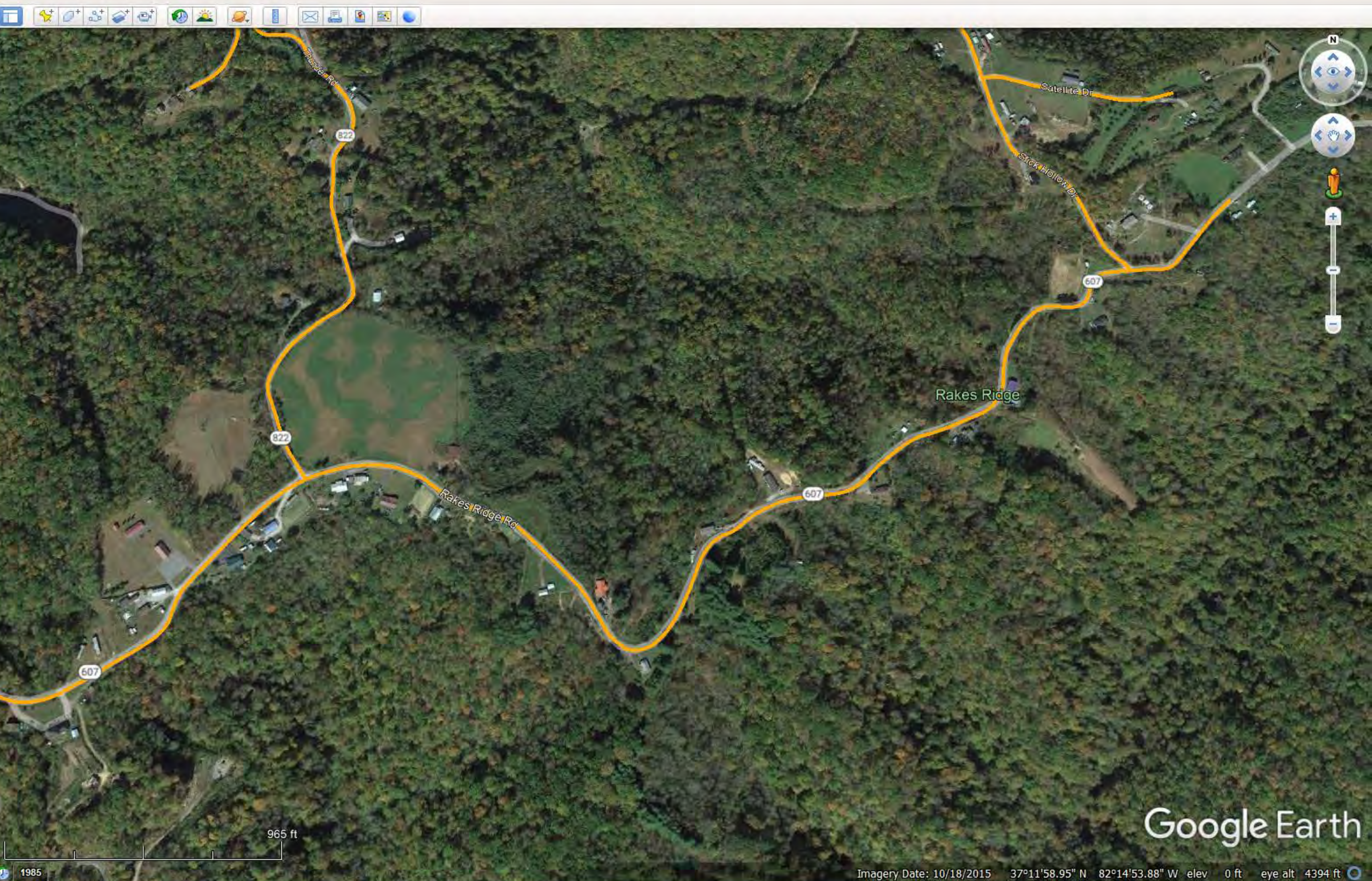
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
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        - VATI CPC 08 20 21
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Layers

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    - Gallery
    - More
    - Borders and Labels (Outdated)
      - Places (Outdated)
      - Roads (Outdated)
    - Terrain







Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **246 MEMORY DR, 24226**. To find a local provider, please contact SmartMove for assistance.

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Please call toll-free: 1-855-718-0392  
to get connected to the best TV, internet and phone services.

powered by smartmove

Google Earth Pro interface showing a satellite view of a wooded area with a yellow path. The interface includes a search bar, a 'Places' sidebar with a tree view of saved locations, and a 'Layers' sidebar with various map overlays. The main map area shows a yellow path winding through a forested hillside. The path starts near a road labeled '668' and winds through a valley with a stream. The path ends near a road labeled '668' and a road labeled 'Memory Dr'. The map is overlaid with a grid and a scale bar. The Google Earth logo is visible in the bottom right corner.



**SHENTEL**

Check Email | My Account | Residential | **Business**

User ID:  Password:  **Login** You're in 24266 [Change?](#)

[Register](#) [Account Recovery](#)

Please click here to see the latest updates regarding COVID-19.

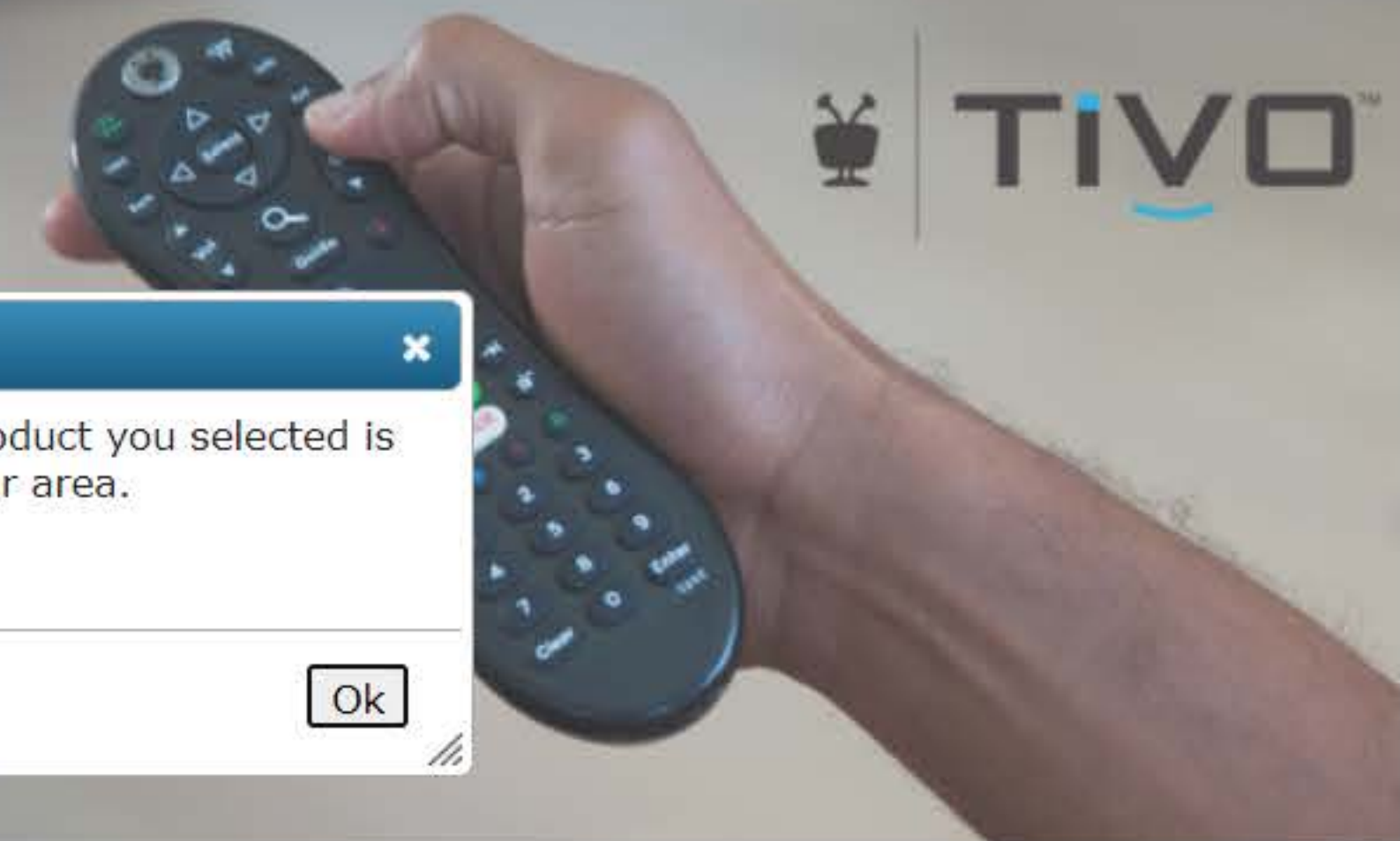
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**TiVo from Shentel**

One box, one remote, one search for all your live, recorded and streaming TV.

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We're sorry, the product you selected is not available in your area.

**Ok**

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Shentel has a bundle that's right for your family.

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**PowerHouse Internet**  
Get the speed you want that fits your needs.

**SHOP NOW**

**Home Phone**  
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**SHOP NOW**

**Digital Television**  
Choose from hundreds of channels.

**SHOP NOW**

**Shentel Connections**

**09/02/2021**  
Shentel Offers Emergency Broadband Benefit to Qualifying Customers

**08/24/2021**  
Shentel Expands its Glo Fiber High-Speed Fiber Optic Network to Frederick County, VA.

**07/29/2021**  
Shenandoah Telecommunications Company Reports Second Quarter 2021 Results

**07/15/2021**  
Shentel Expands its Digital Television Service to...

**Search**

Search

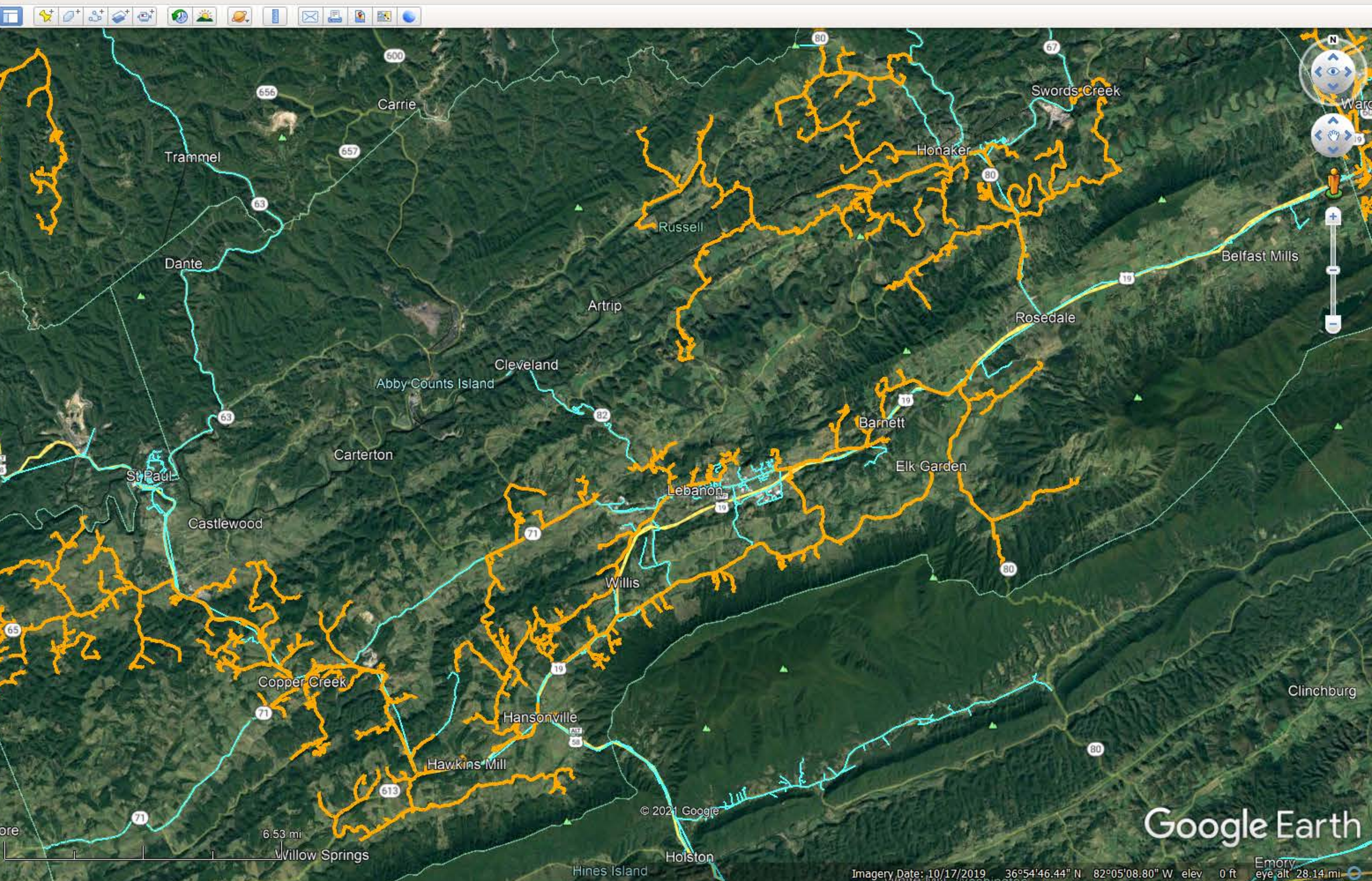
Get Directions History

**Places**

- My Places
  - Sightseeing Tour
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII**
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    - TN CAFII
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**Layers**

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- More
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- Places (Outdated)
- Roads (Outdated)
- Terrain







# Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox



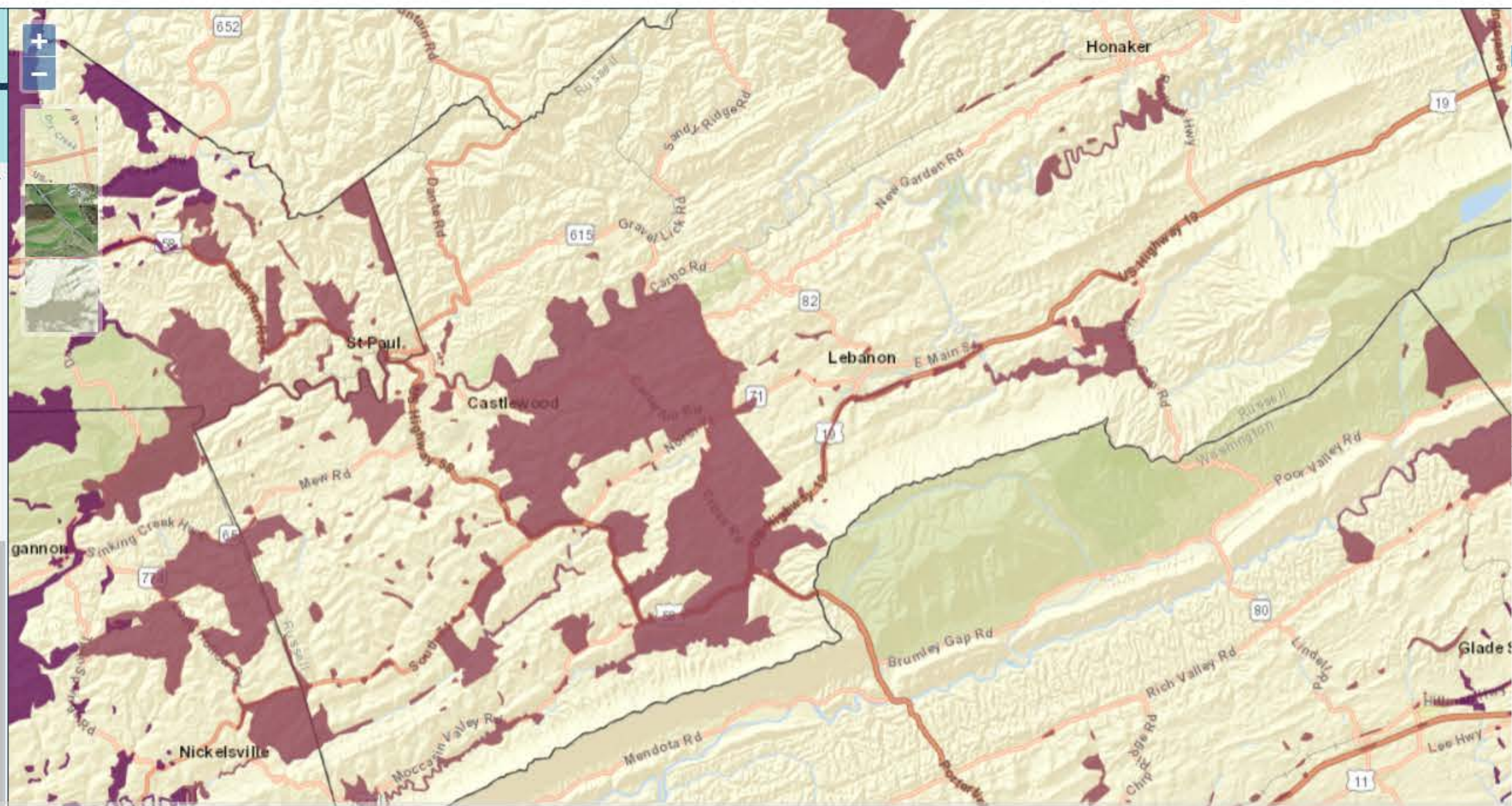
Home About Sponsors News



- Cable Wireless Coverage (June 2020)
- DSL/Copper Coverage (June 2020)
- Fiber Optic Coverage (June 2020)
- Fixed Wireless Coverage (June 2020)
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- Other Layers
- Cities/COUNTIES
  - Vertical Assets (updated daily)
  - 2010 Census Population
    - 0 - 71
    - 71 - 307



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Search

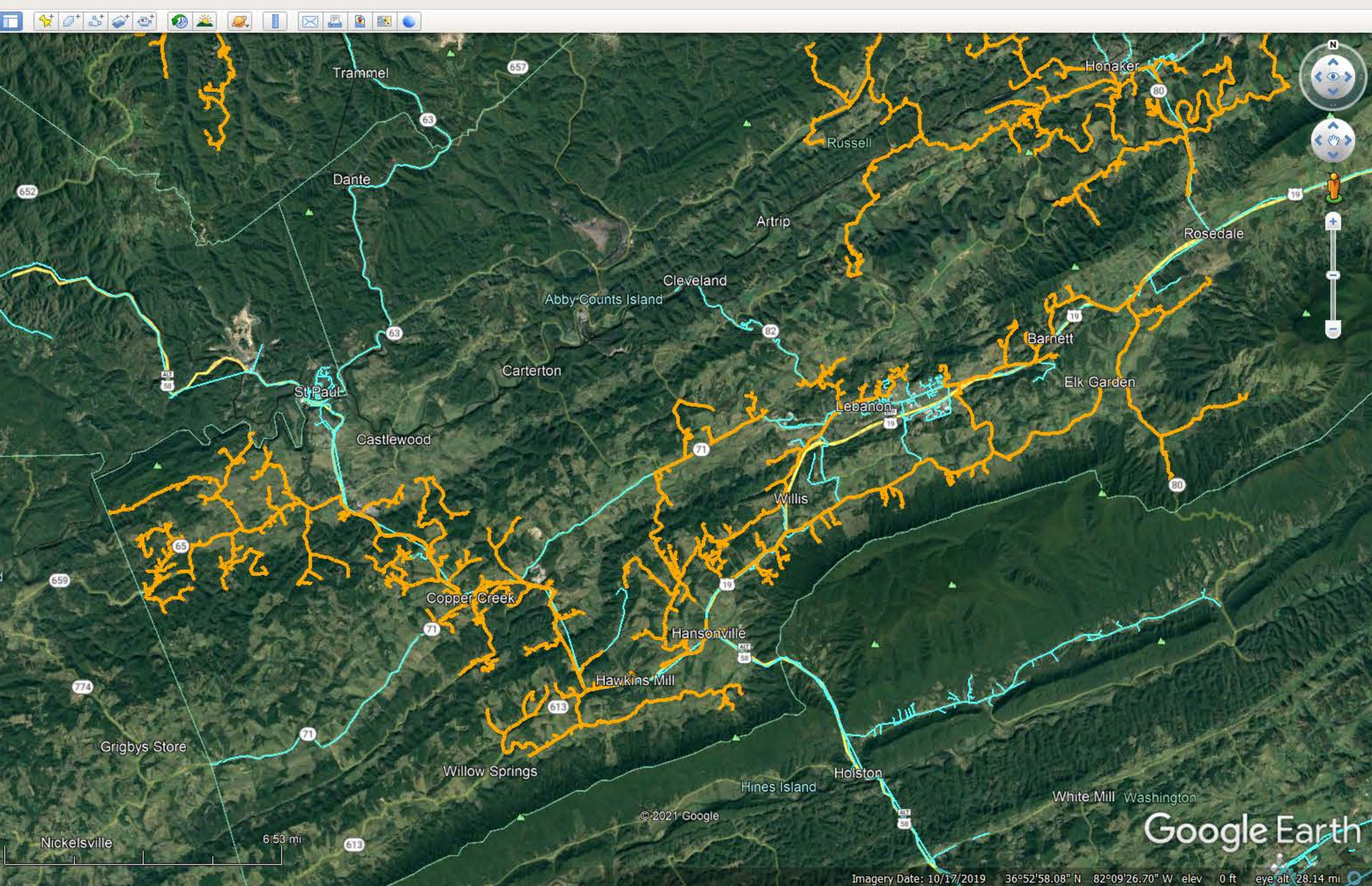
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Places

- My Places
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# Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox



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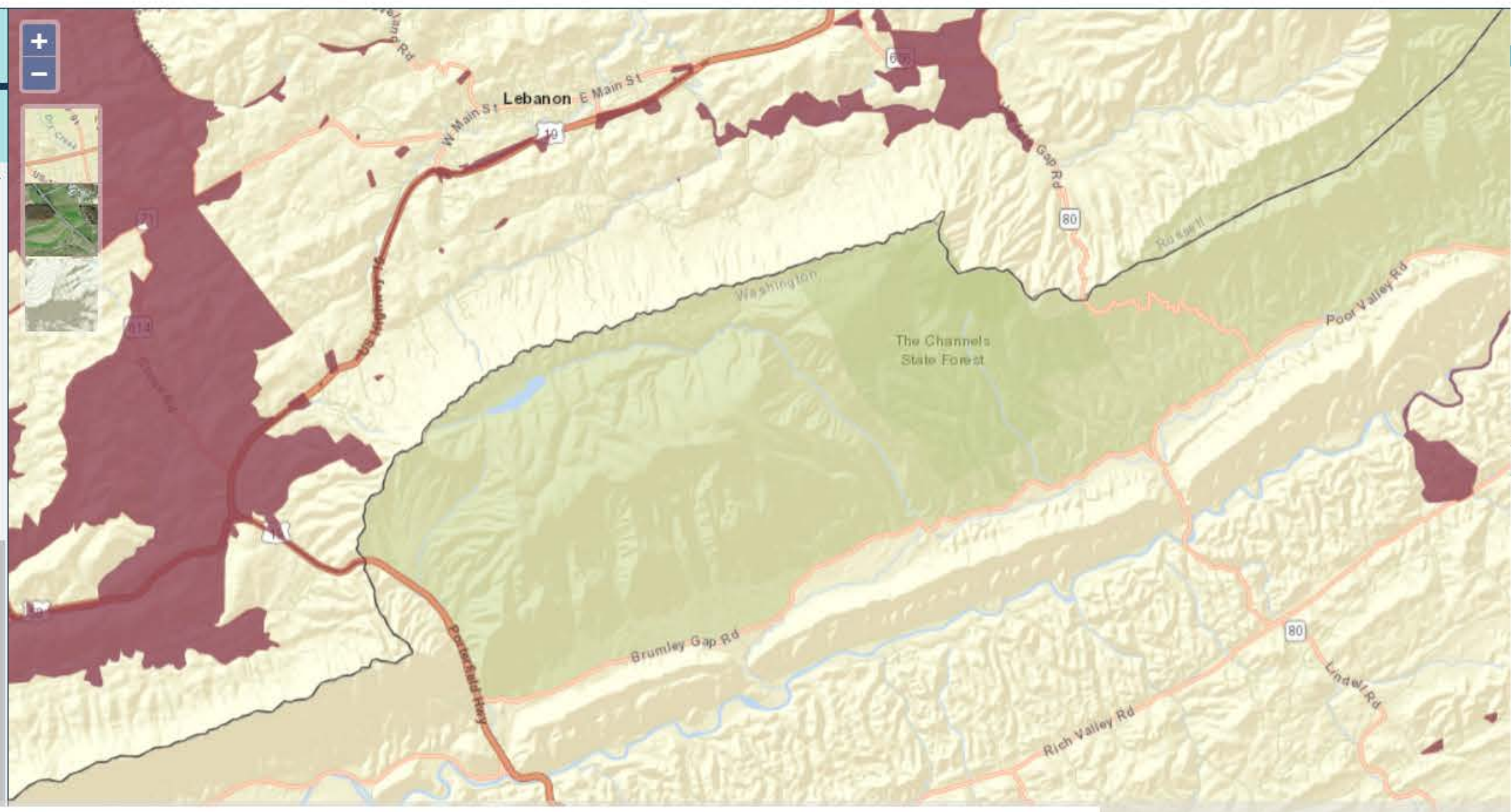
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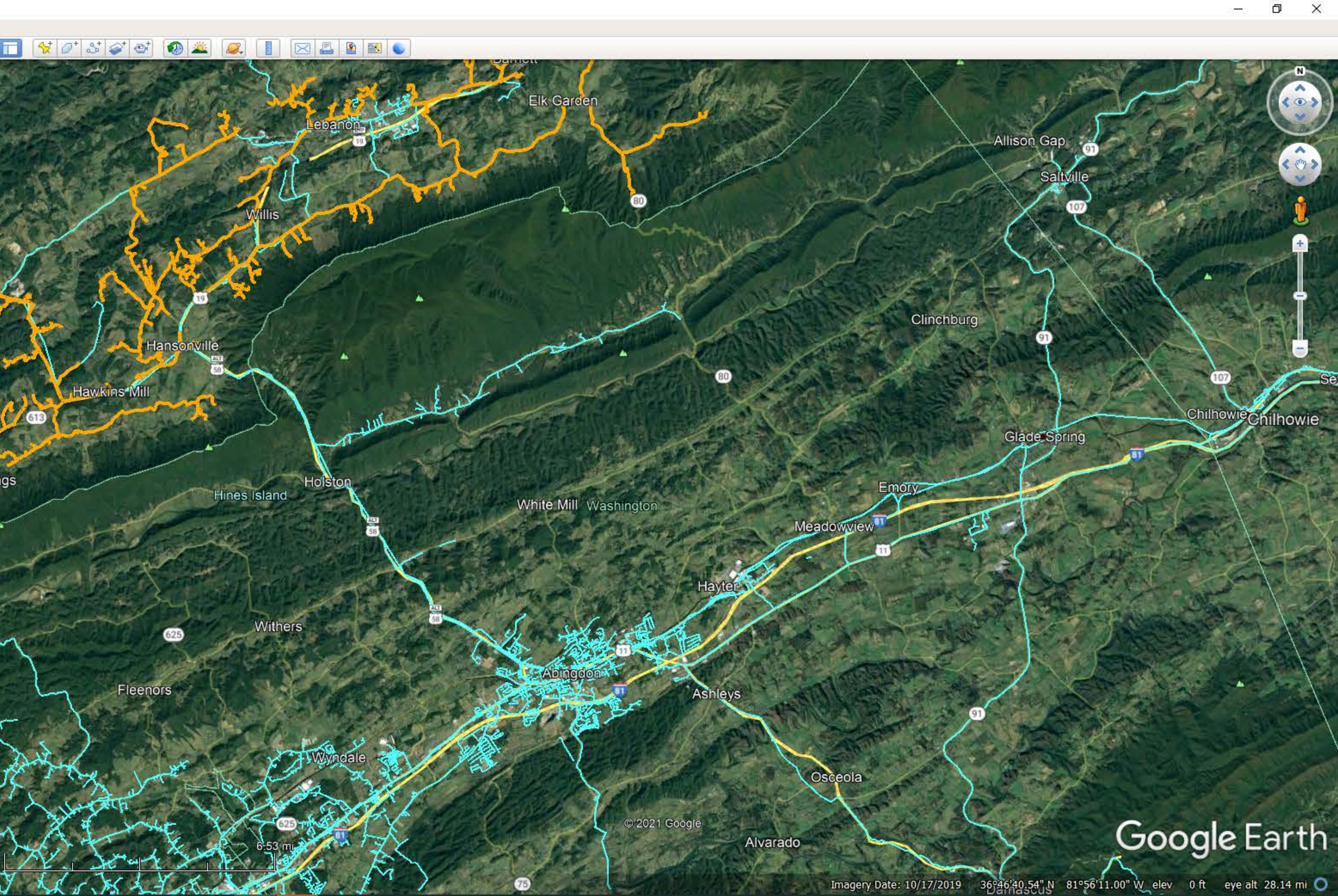


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Google Earth





# Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox



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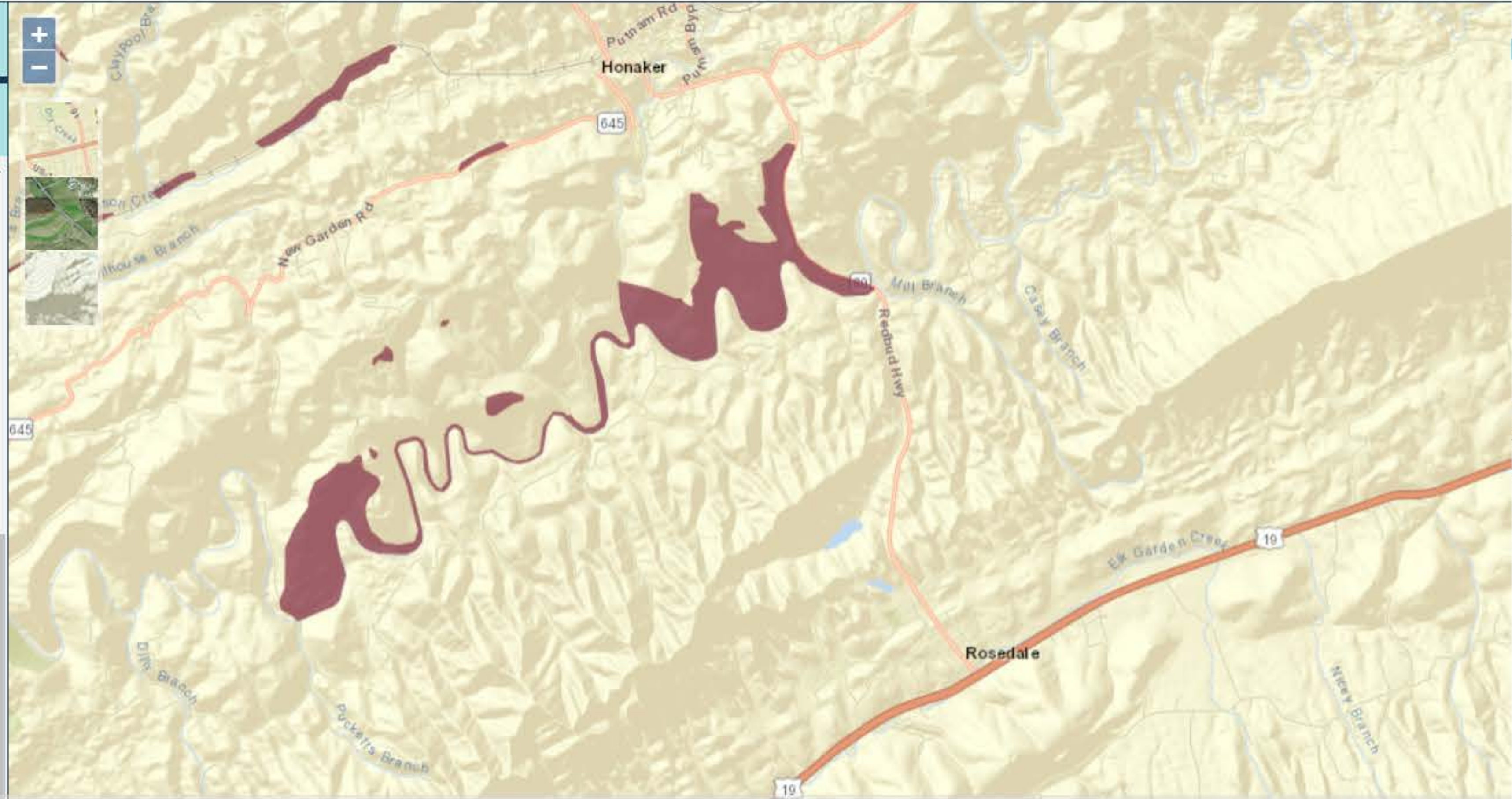
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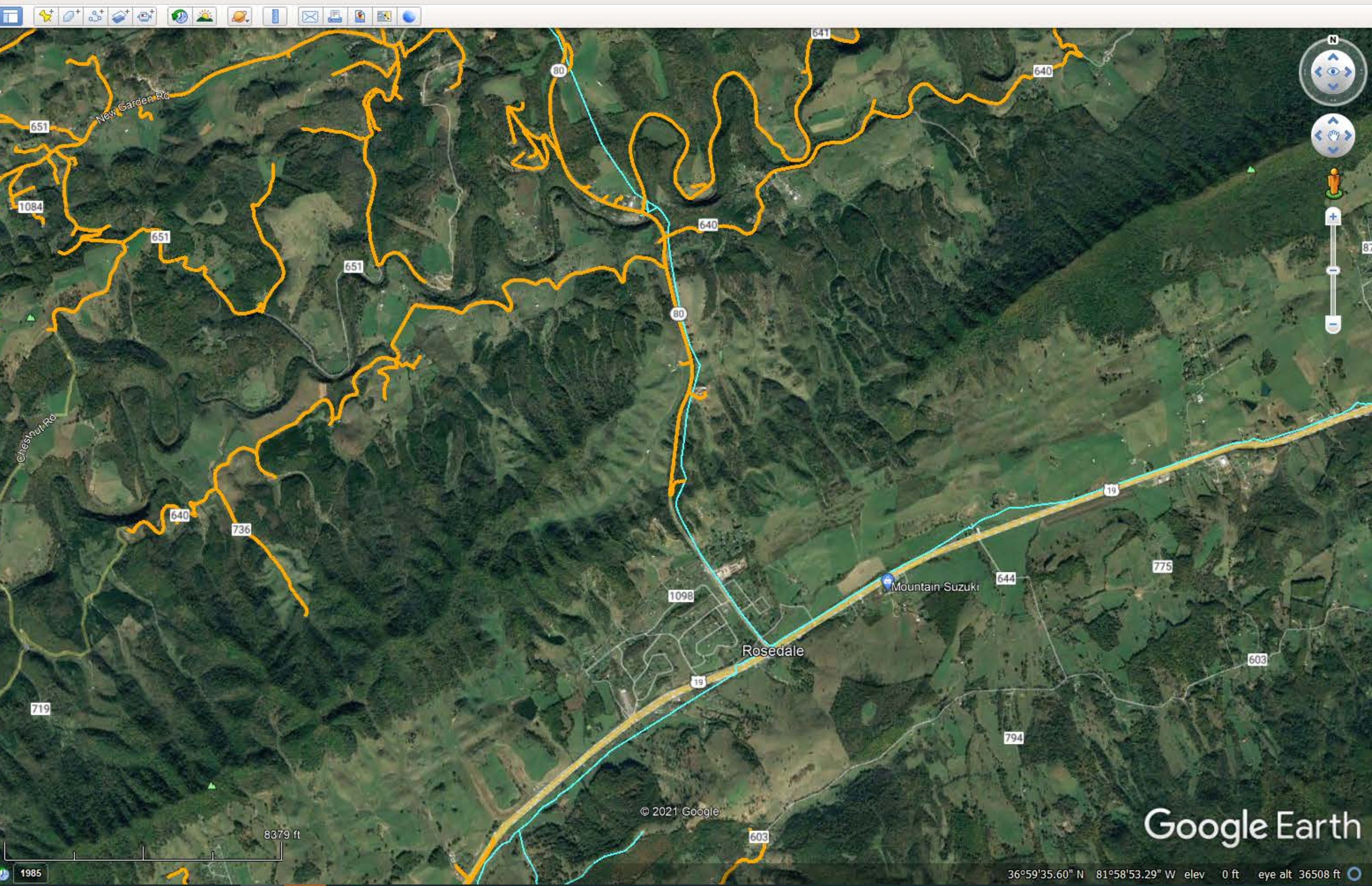
Search

Get Directions History

Places

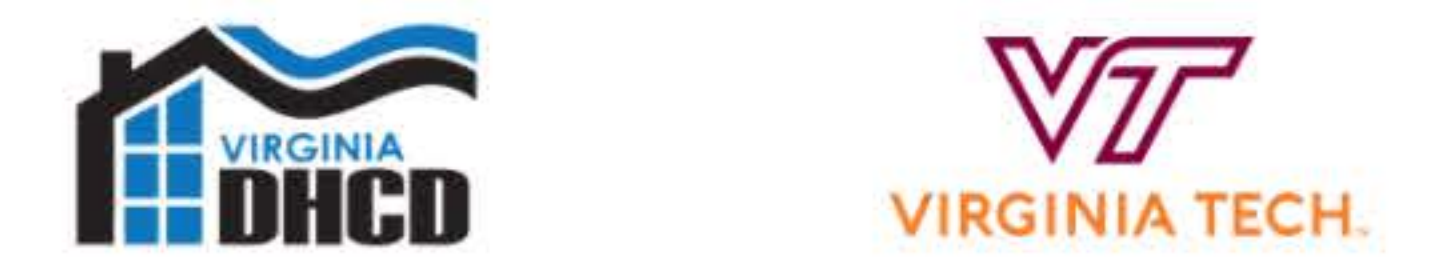
- My Places
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  - Terrain



Google Earth





# Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox



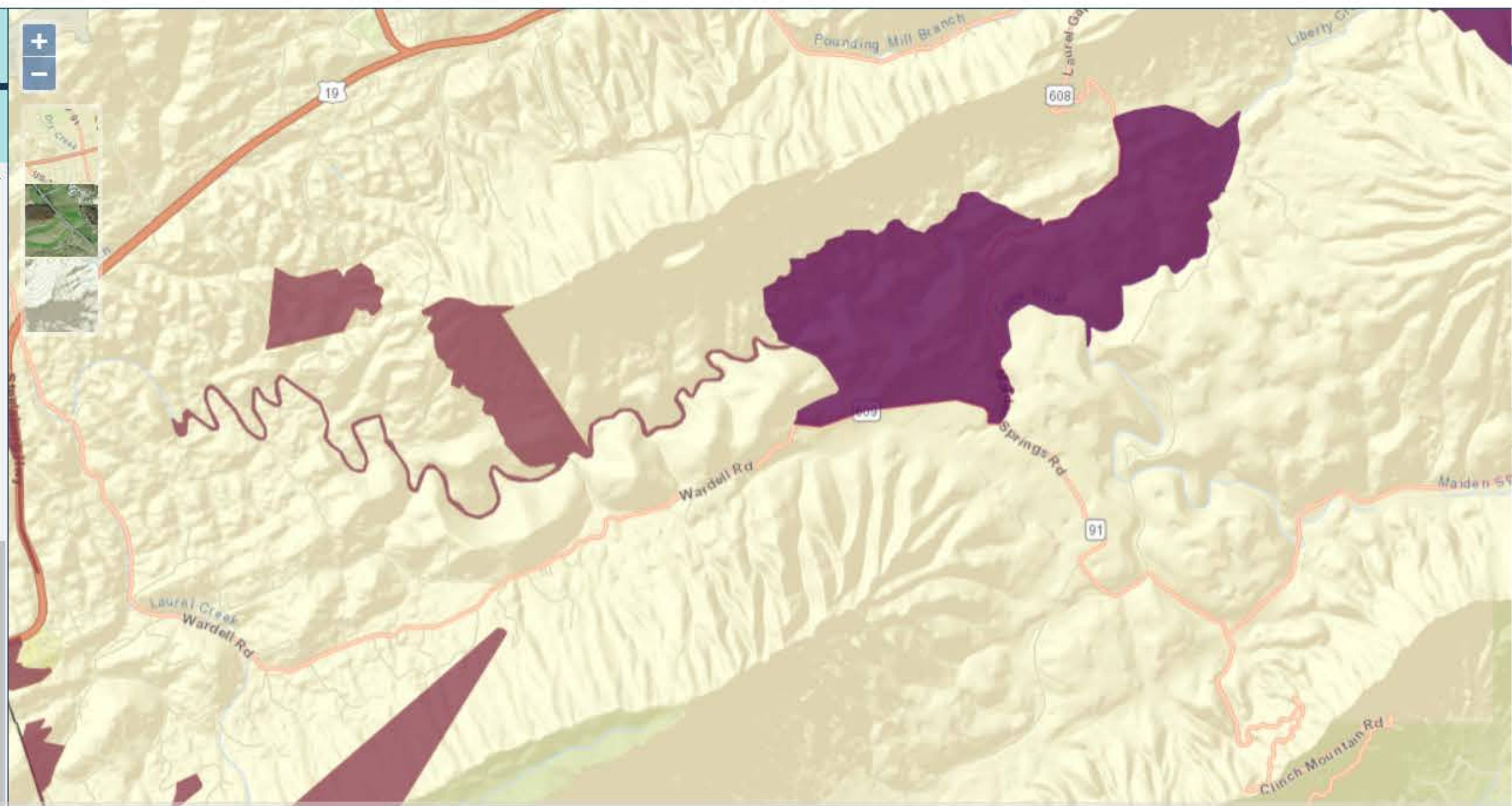
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Search

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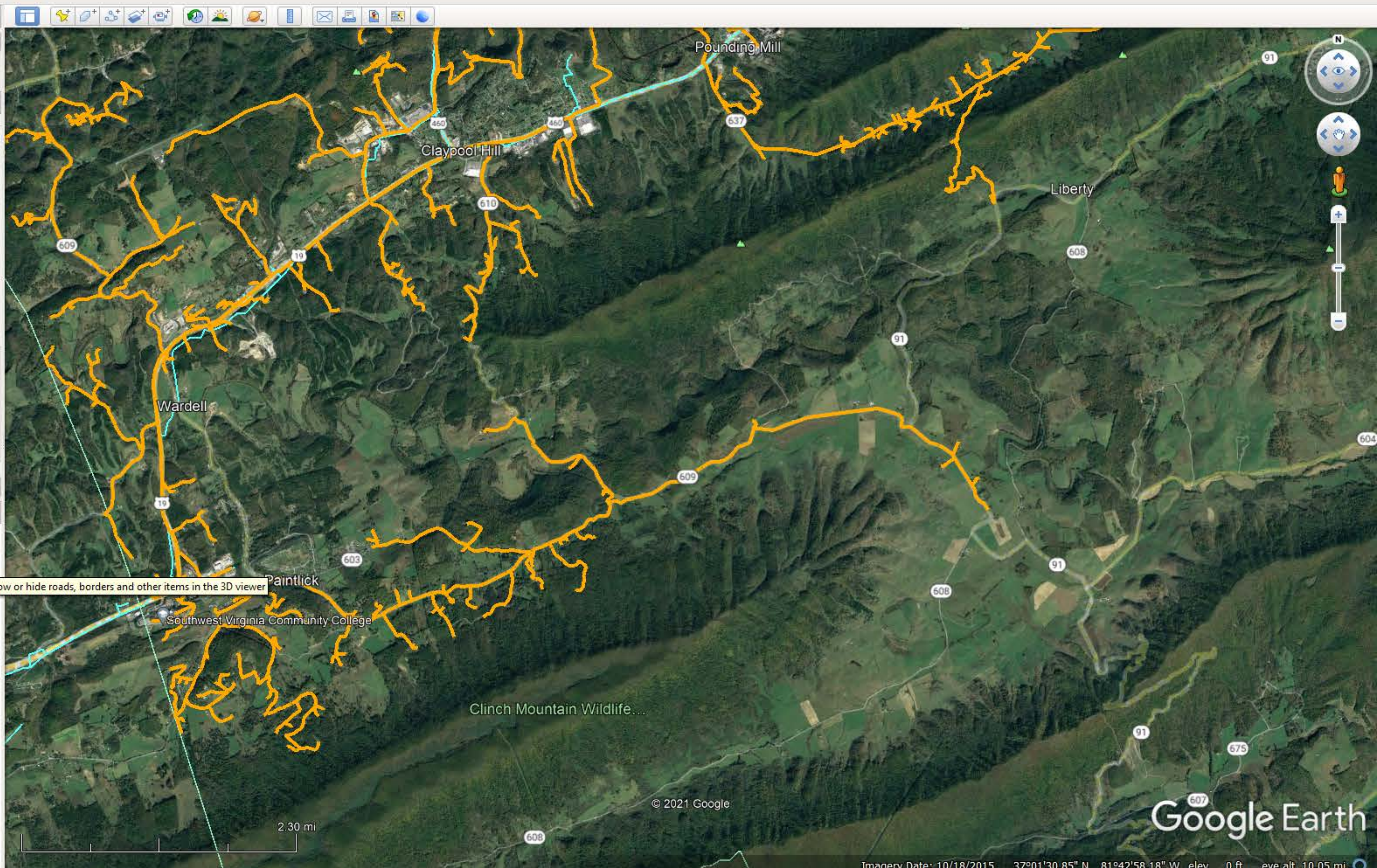
Places

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Show or hide roads, borders and other items in the 3D viewer







# Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox



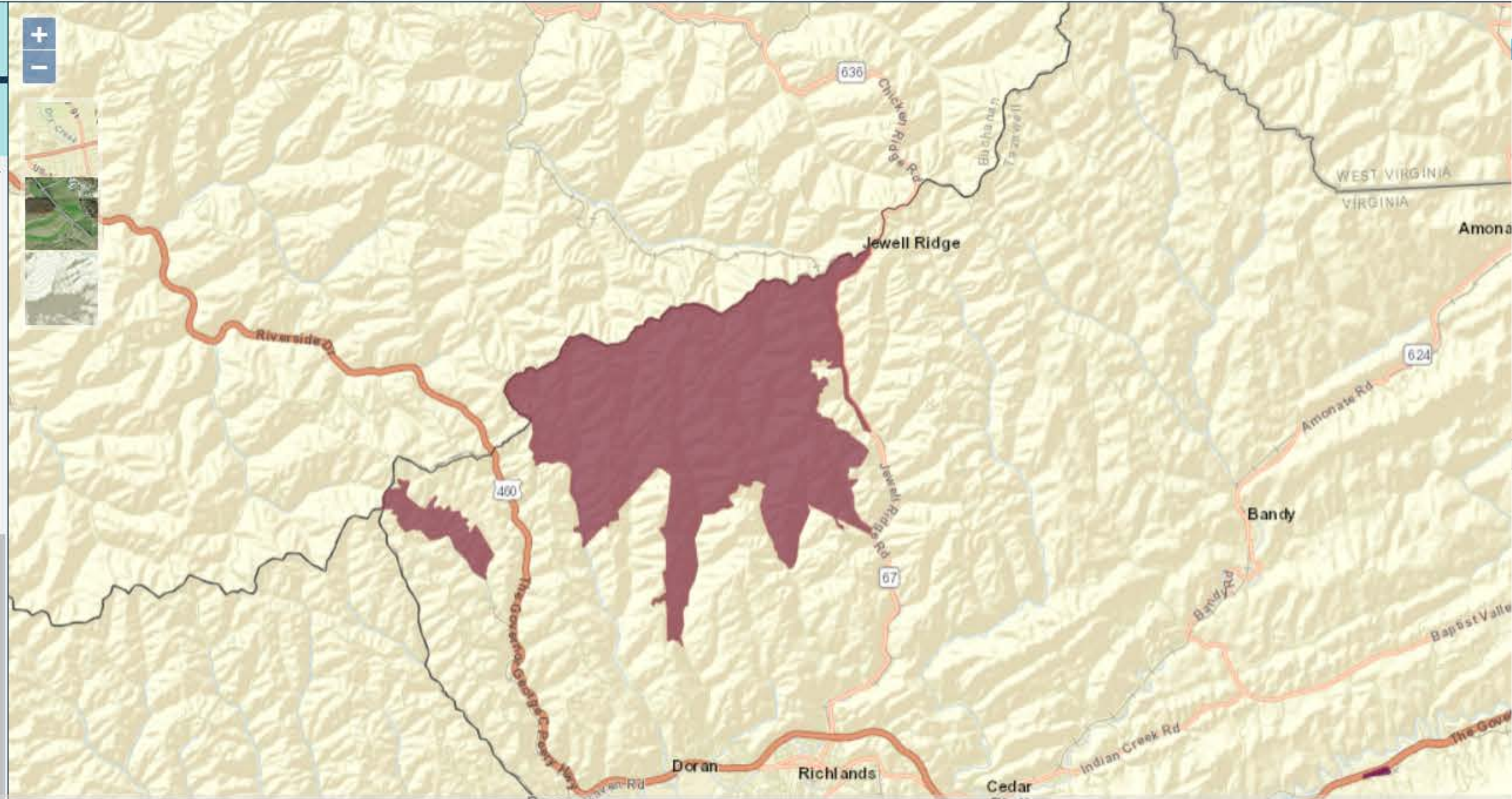
Home About Sponsors News



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**Search**

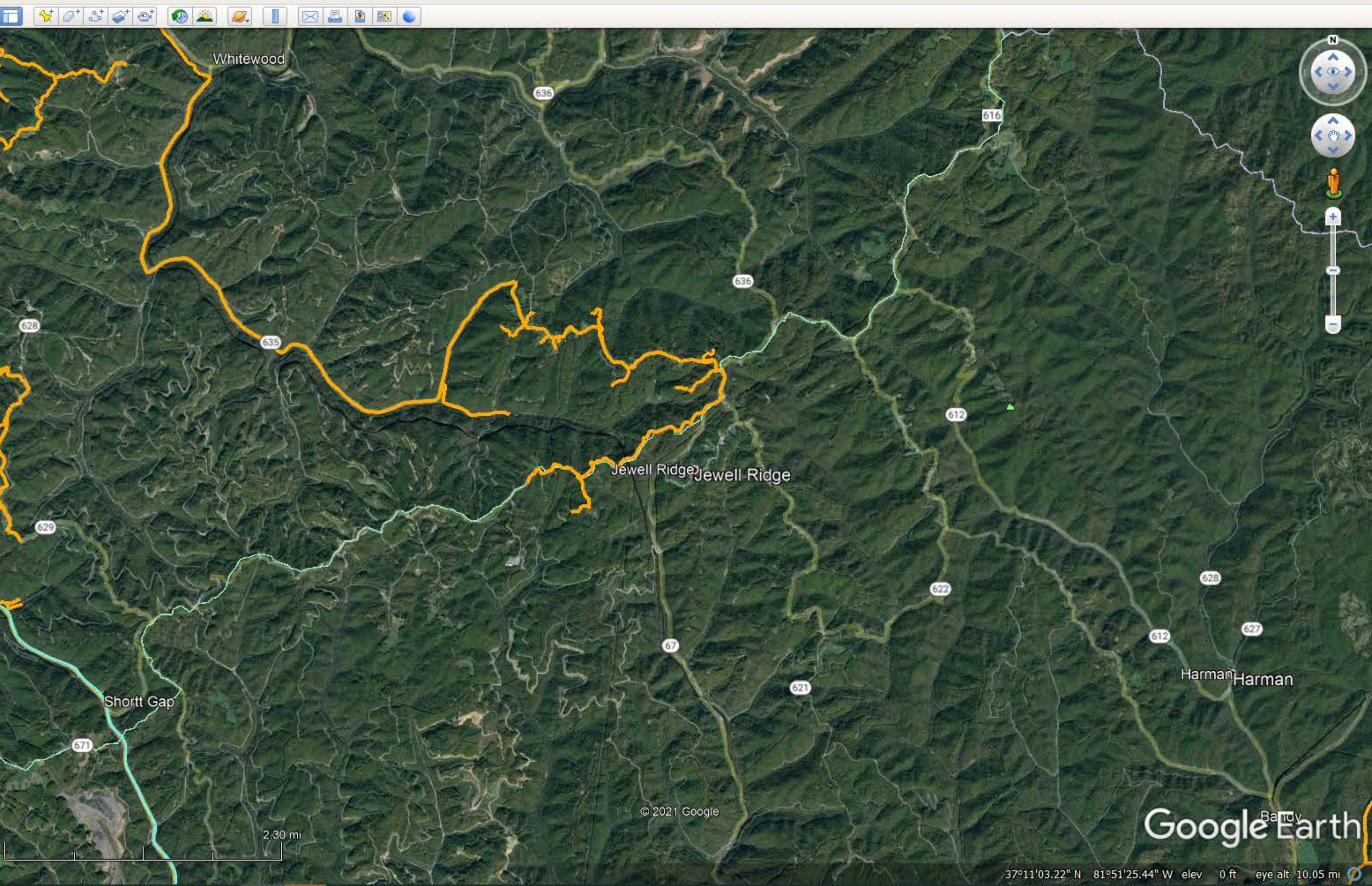
Search

Get Directions History

**Places**

- My Places
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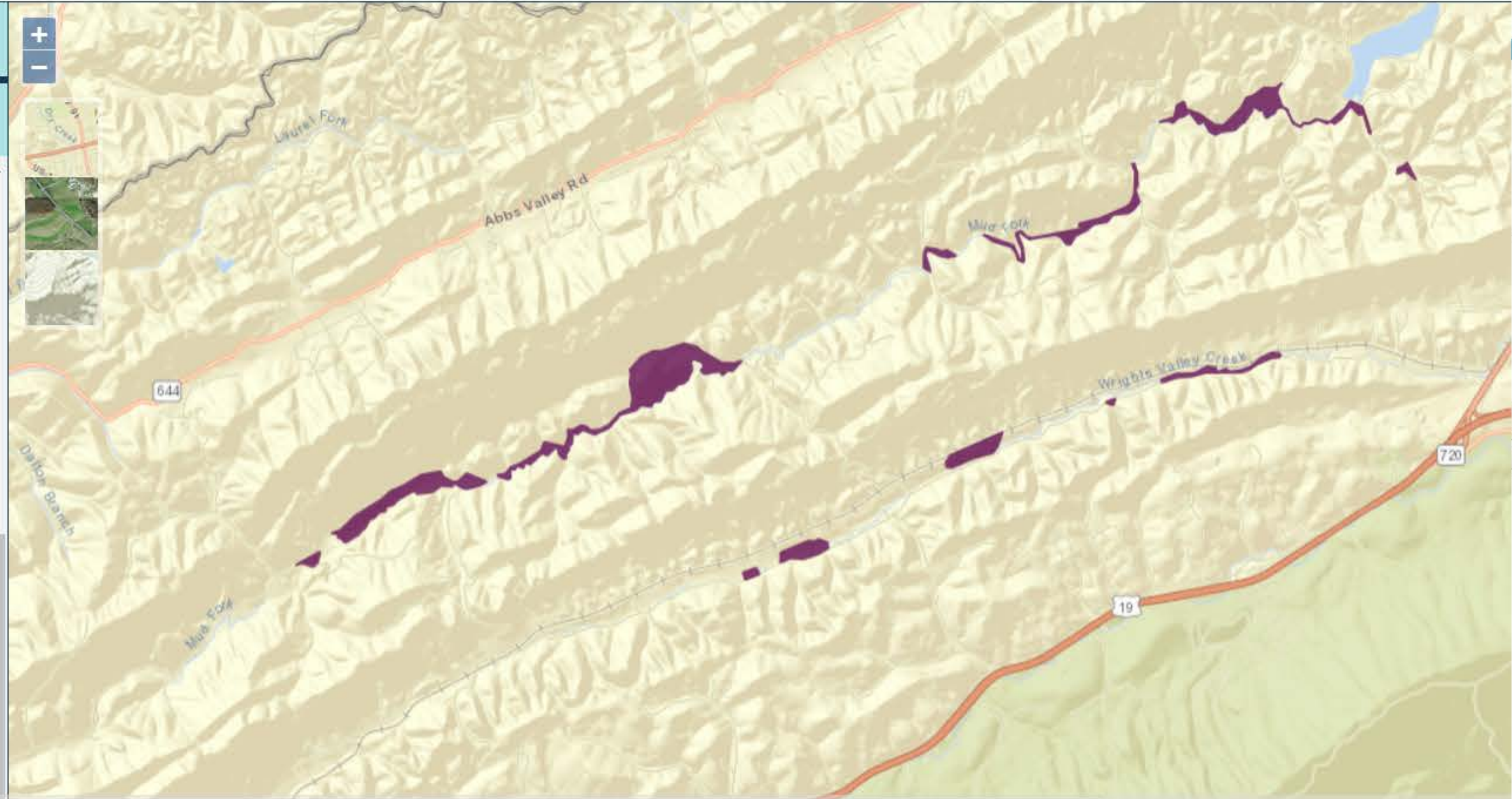
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Search: Museums in New York, NY

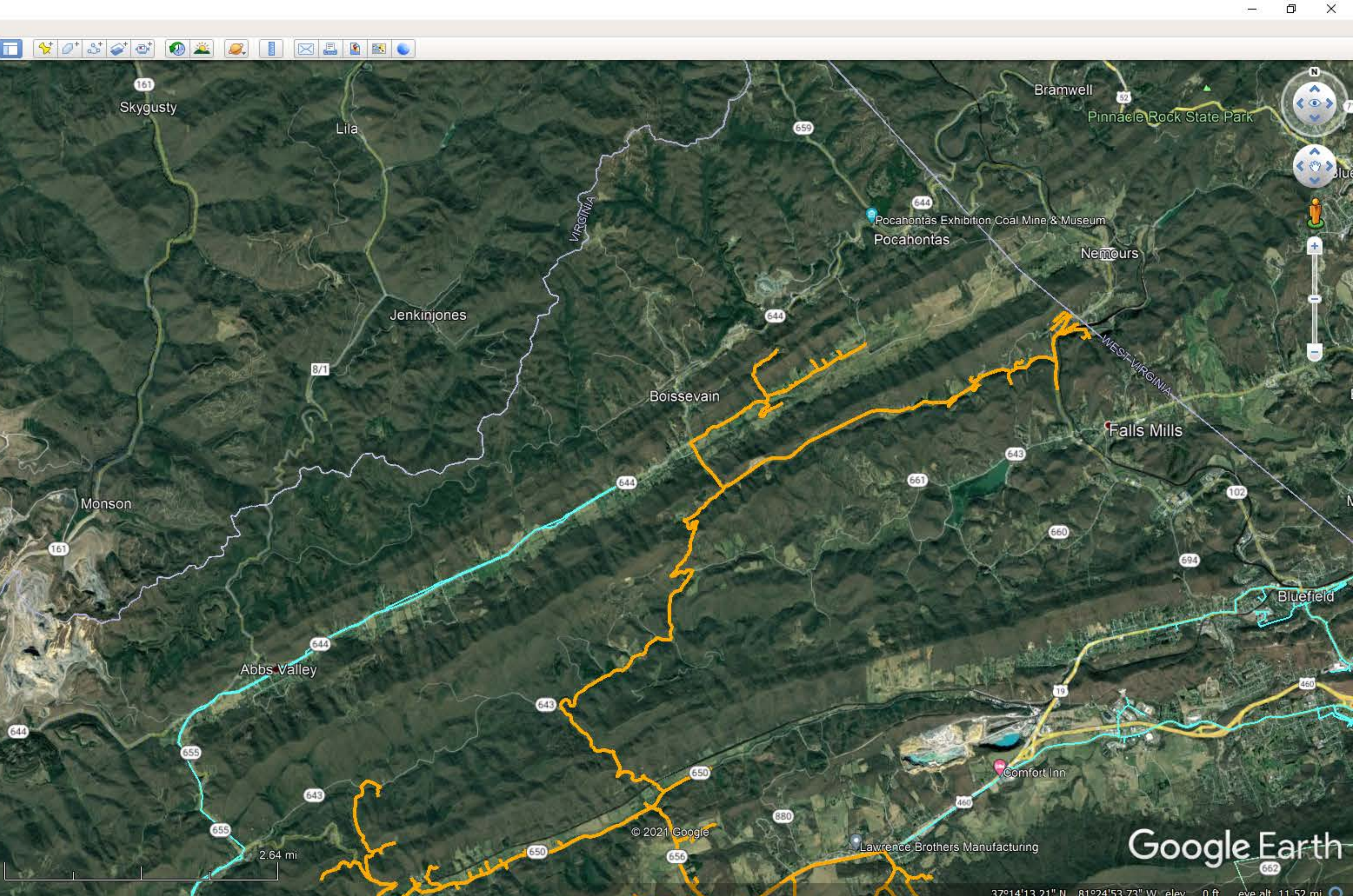
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- Roads (Outdated)
- Terrain







1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: 1 swan fork lane, 24620 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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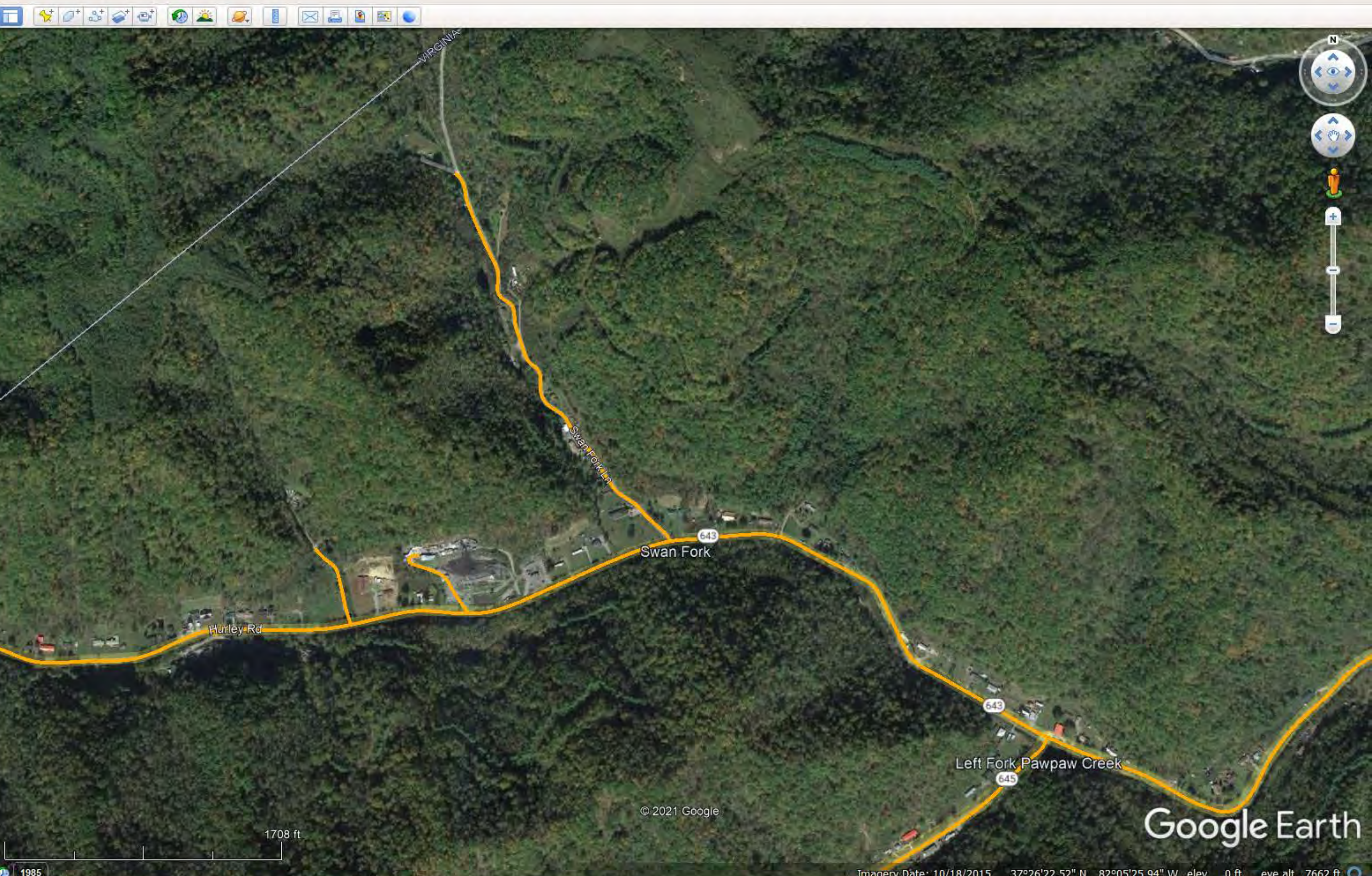
Search  
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Google Earth





1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: drakes fork Rd, 24620 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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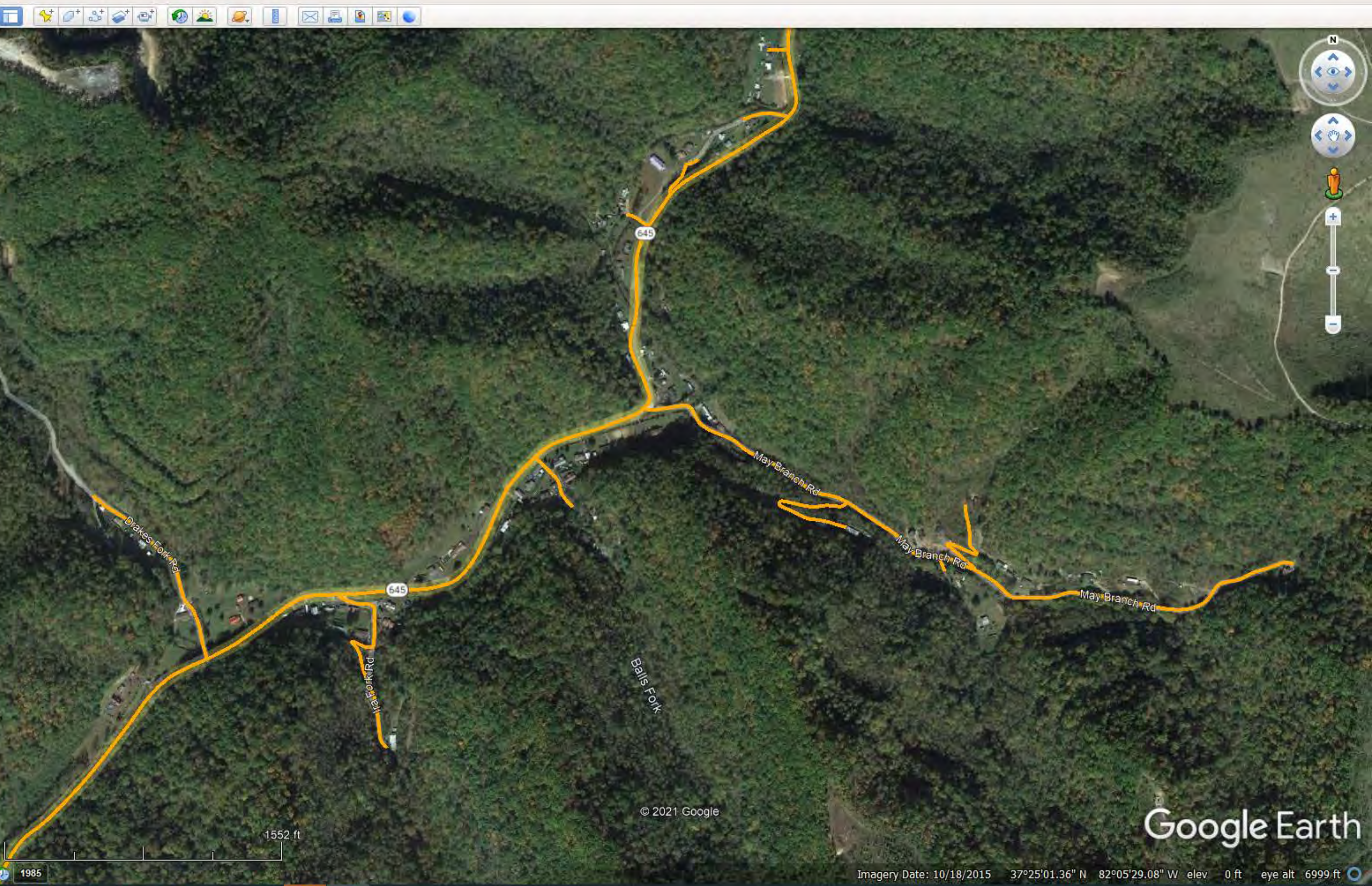
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
    - TCCA Boissevain\_Pocahontas 08 30 20.kmz
    - Cleveland Grant Area.kmz
    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
      - CPC Area
        - CPC Area Competitors
        - Tazewell Co Area

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    - Weather
    - Gallery
    - More
    - Borders and Labels (Outdated)
      - Places (Outdated)
      - Roads (Outdated)
    - Terrain







1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: may branch road, 24620 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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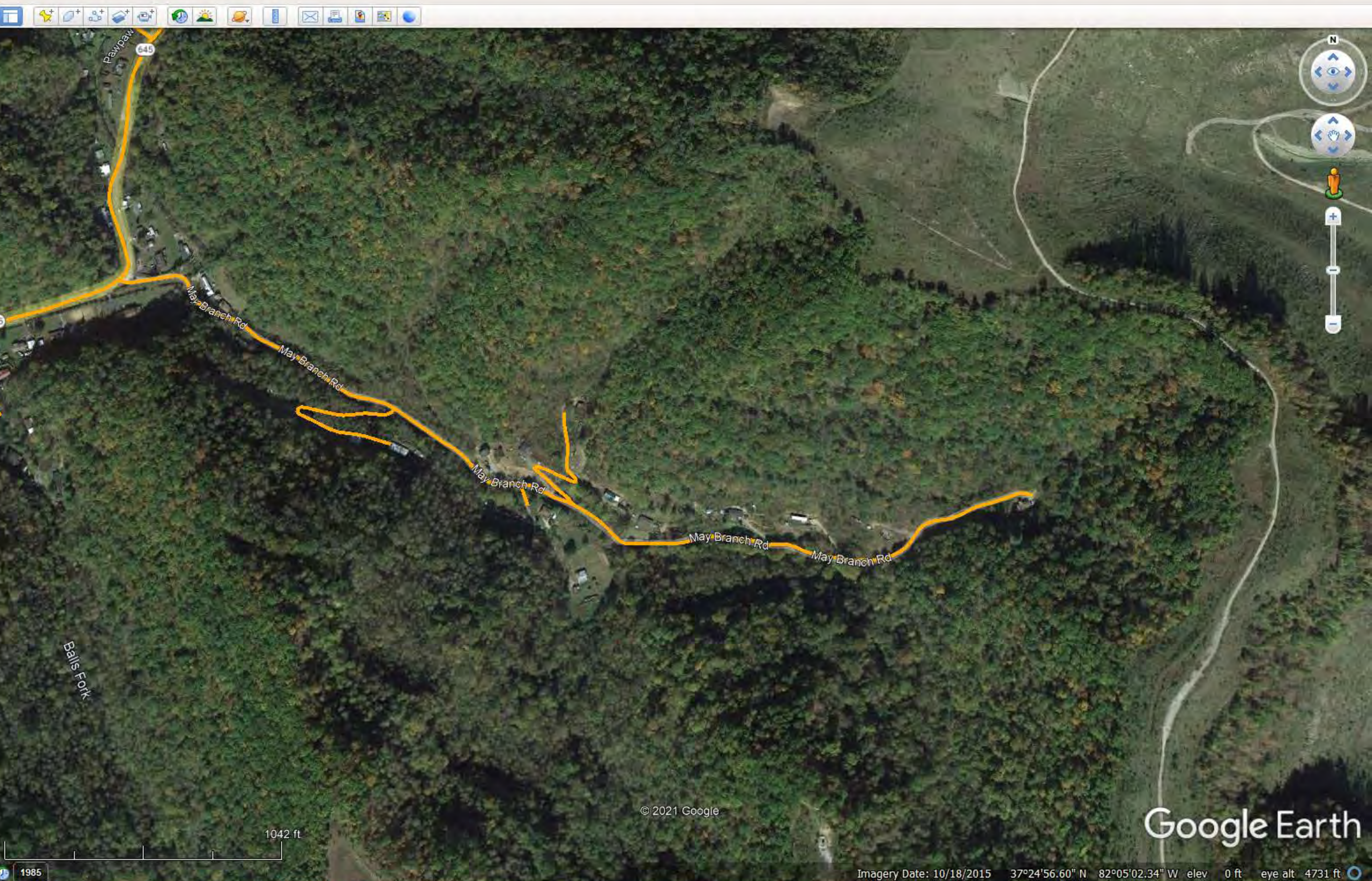
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
  - ~GEB2D8.kmz
  - Cable Layers
  - VA CAFII
    - VA CAFII
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    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
    - Mt Rogers Area.kmz
    - Potential Mount Rogers VATI 2021-22
    - Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
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    - VATI CPC
      - VATI CPC 08 20 21
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        - CPC Area Competitors
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  - Places (Outdated)
  - Roads (Outdated)
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **pounding mill road, 24620** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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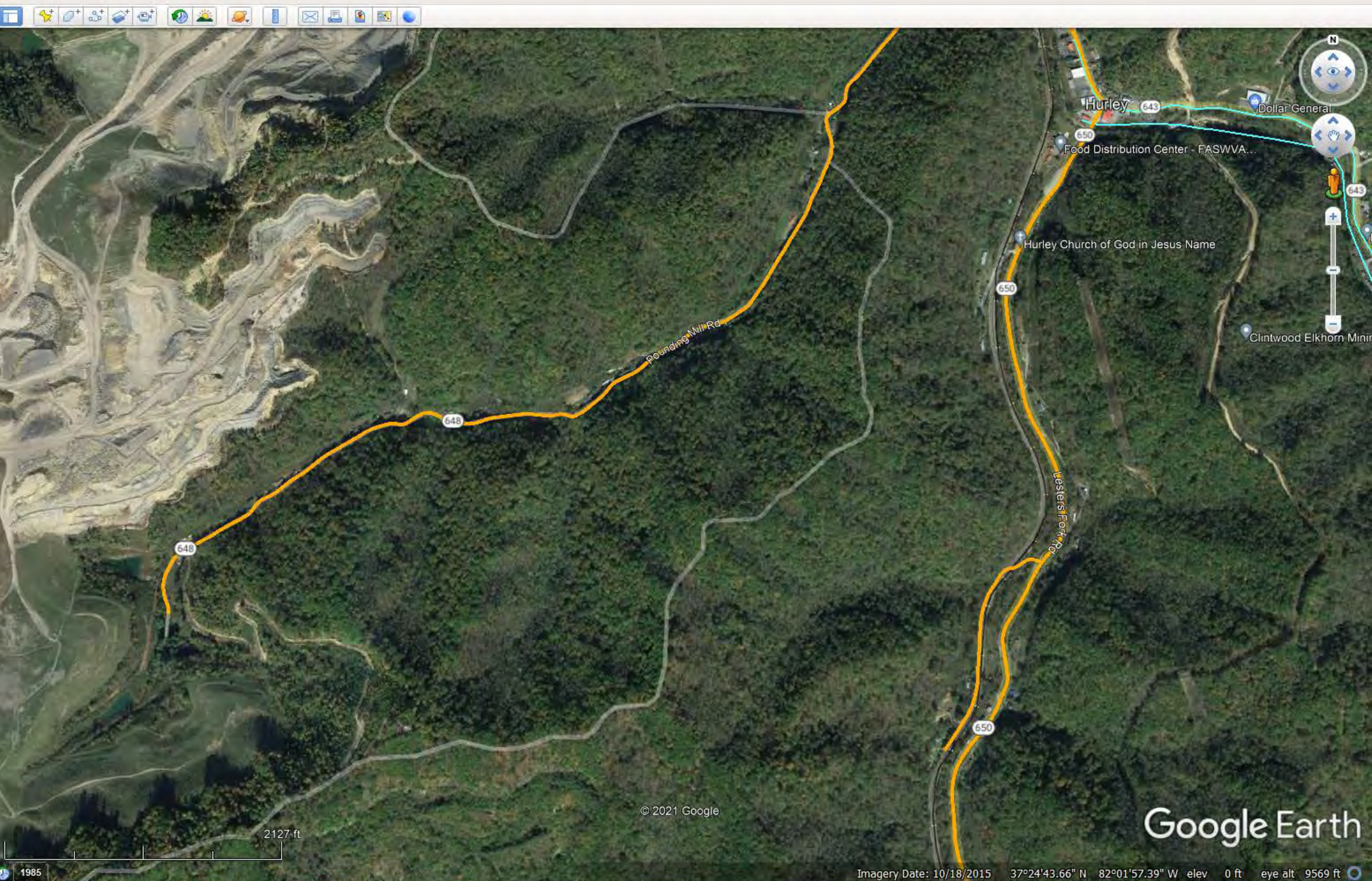
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
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  - Cable Layers
  - VA CAFII
    - VA CAFII
    - TN CAFII
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    - TNECD HAWKINS COUNTY PROJECT AREA.kmz
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  - Roads (Outdated)
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **lesters fork road, 24620** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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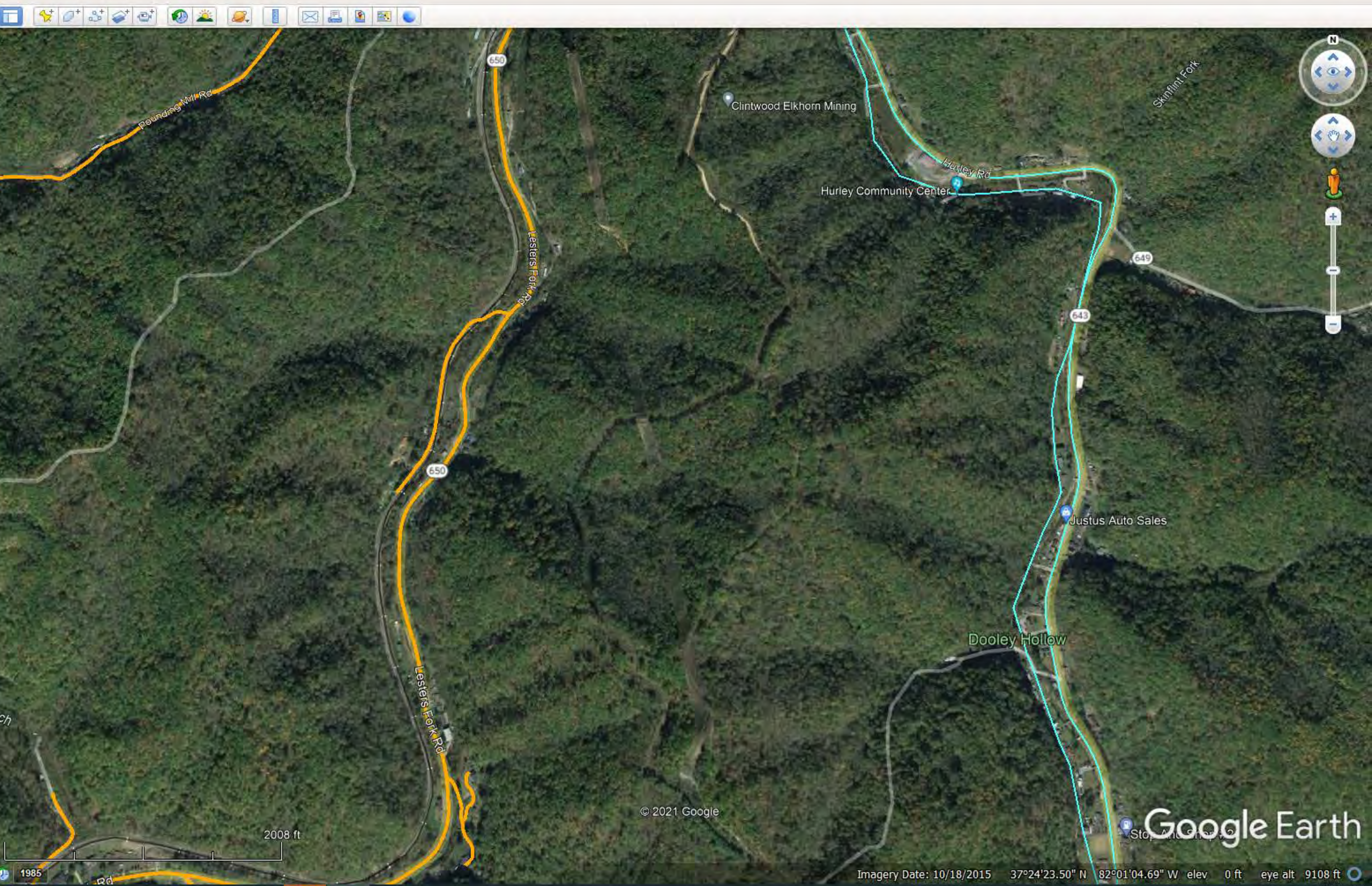
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
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  - Cable Layers
  - VA CAFII
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **davis fork, 24614** [edit address](#)

**Spectrum customer support hours:**

Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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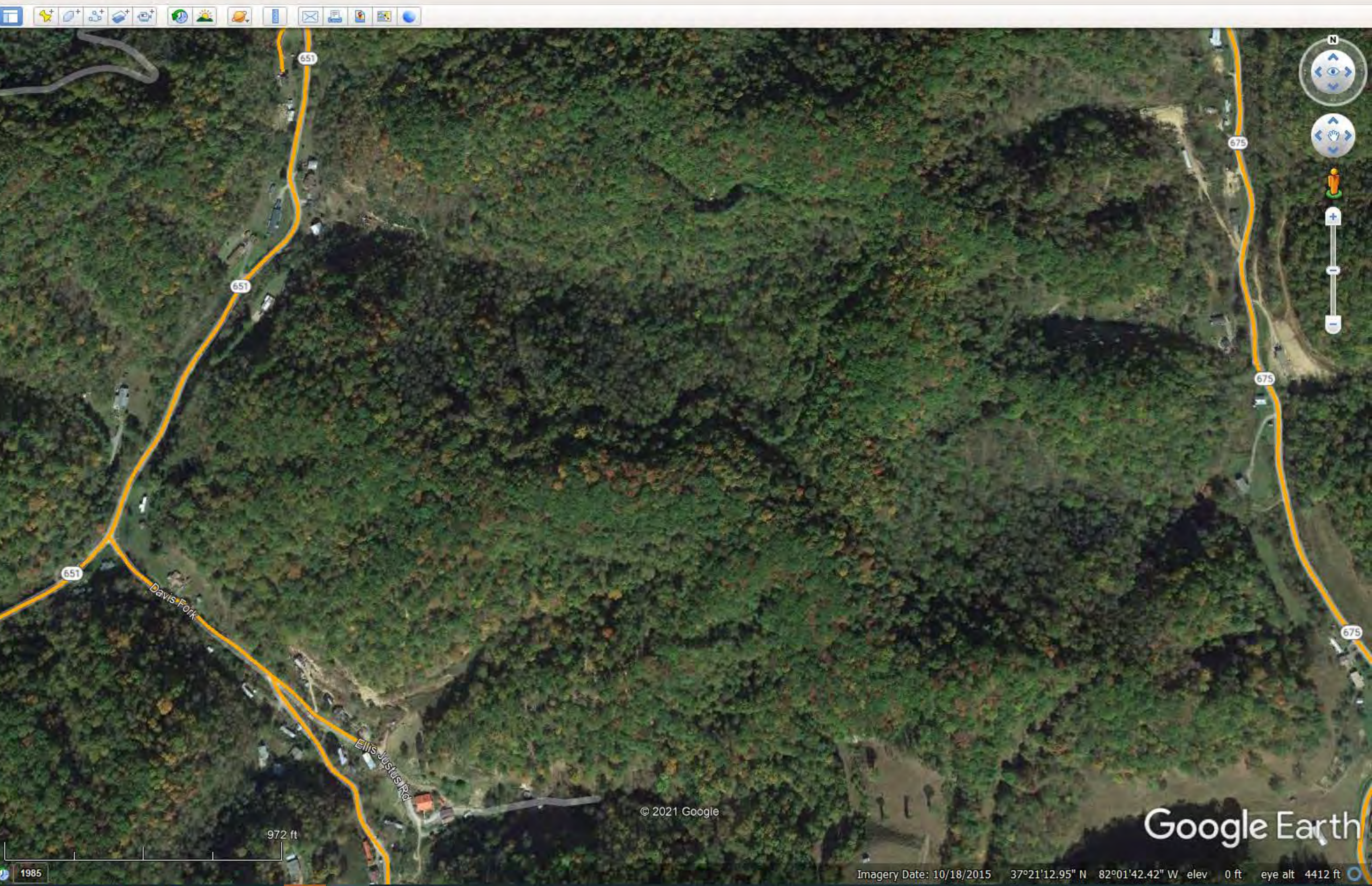
Get Directions History

Places

- My Places
  - Sightseeing Tour
    - Make sure 3D Buildings layer is checked
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    - VA CAFII
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Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: woodchuck road, 24620 [edit address](#)

**Spectrum customer support hours:**  
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8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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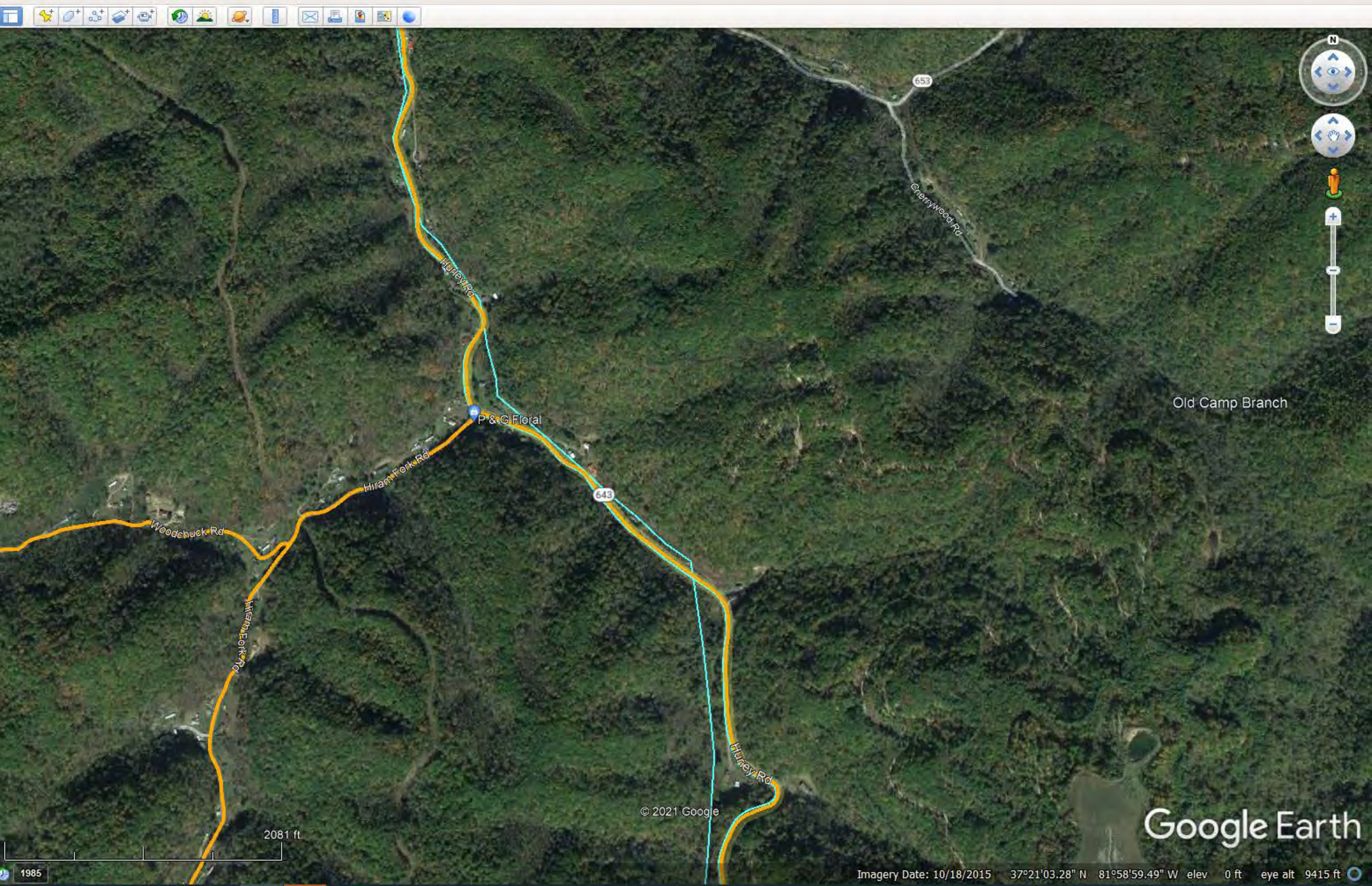
Get Directions History

Places

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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **davis mount road, 24614** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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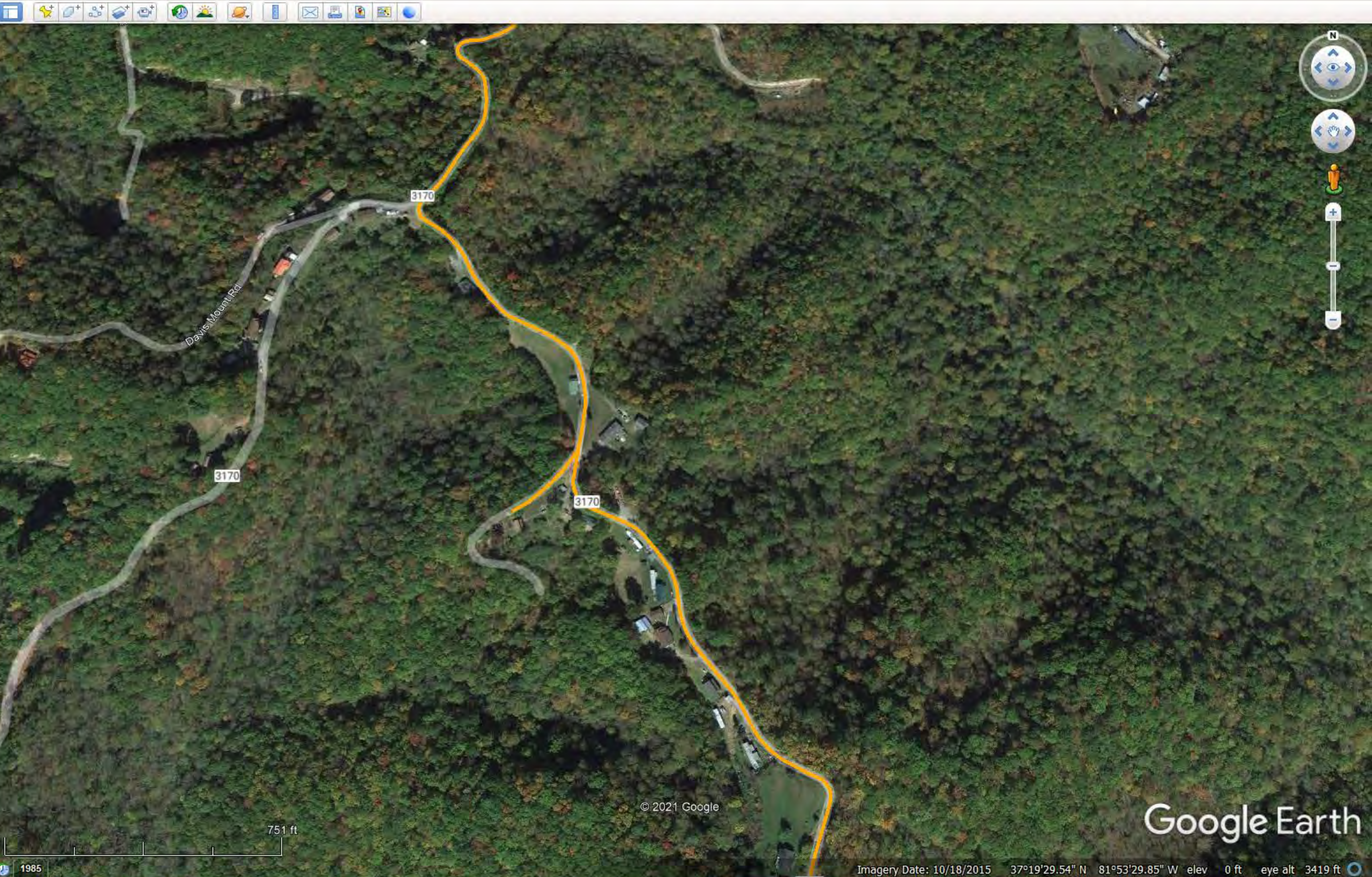
Get Directions History

Places

- My Places
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  - ~GEB2D8.kmz
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: myrtle road, 24614 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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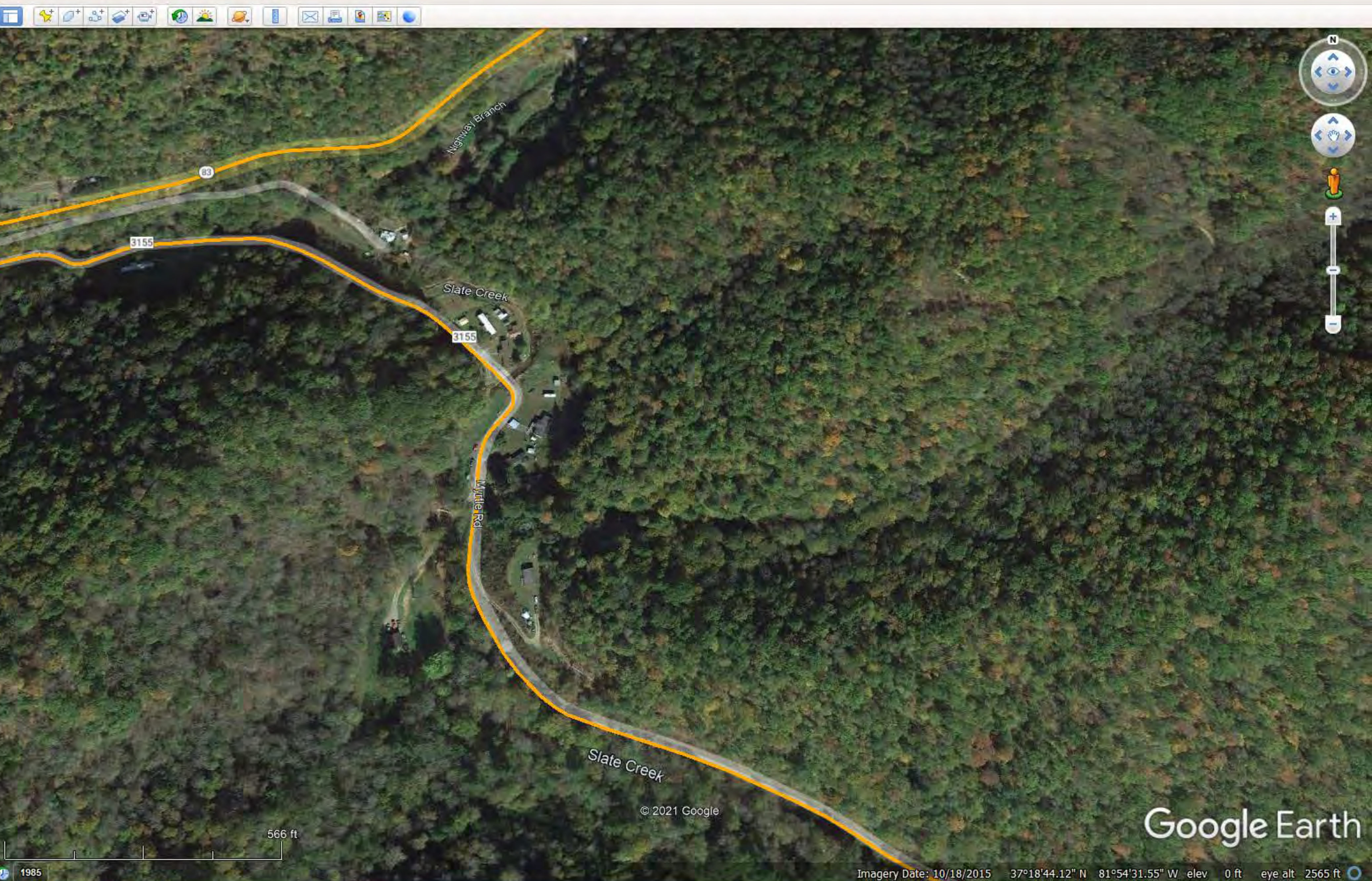
Get Directions History

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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **jacks creek road, 24603** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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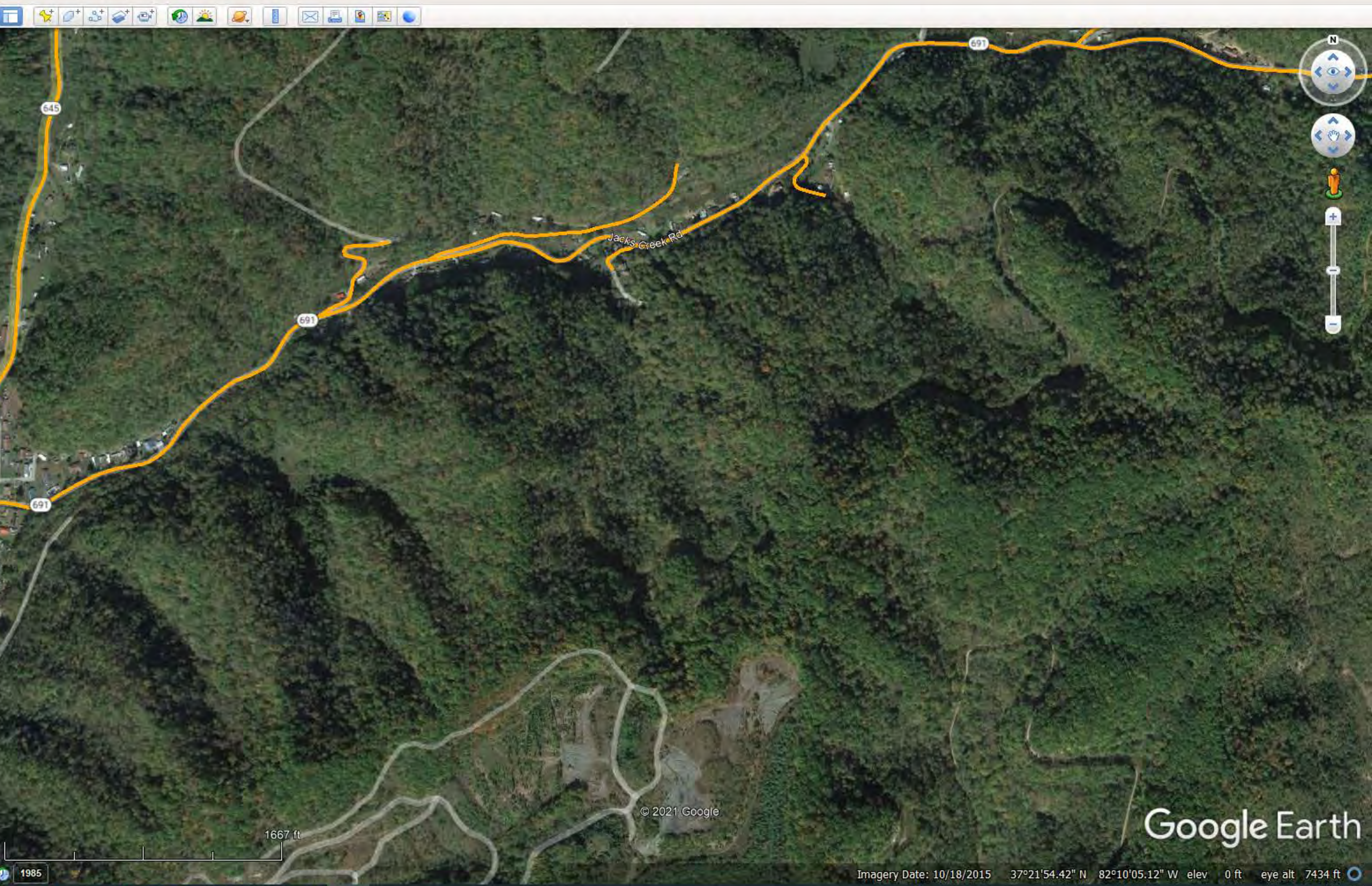
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Search

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Places

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  - Cable Layers
    - VA CAFII
    - VA CAFII
    - TN CAFII
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    - VATI CPC 08 24 21.kmz
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Google Earth





1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: stiltners creek road, 24614 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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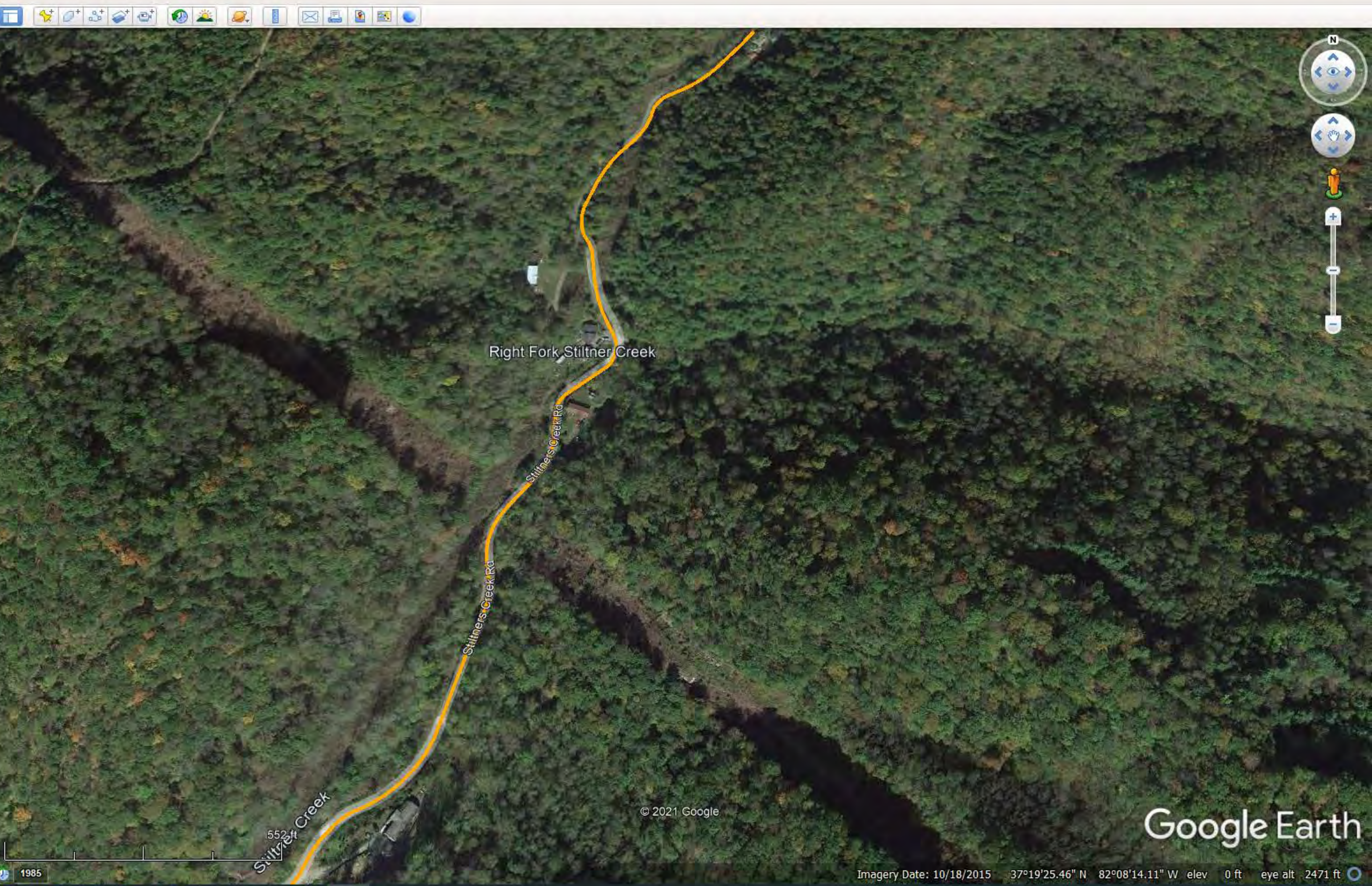
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - VATI CPC 08 20 21
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          - CPC Area Competitors
          - Tazewell Co Area
          - Russell Co Area
          - Dickenson Co Areas
          - Buchanan Co Areas
          - VA CAFII
          - Loggy Bottom Ph1
  - Micro Trench
  - Looneys Creek.kmz
  - Looney's Creek 01 22 21.kmz
  - Hurricane Creek.kmz
  - Loggy Bottom Ph1 01 22 21.kmz
  - Pilgrim's Knob Path.kmz
  - LEFT FORK .kmz
  - Lynn Camp.kmz

Layers

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- Roads (Outdated)
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: mile branch road, 24614 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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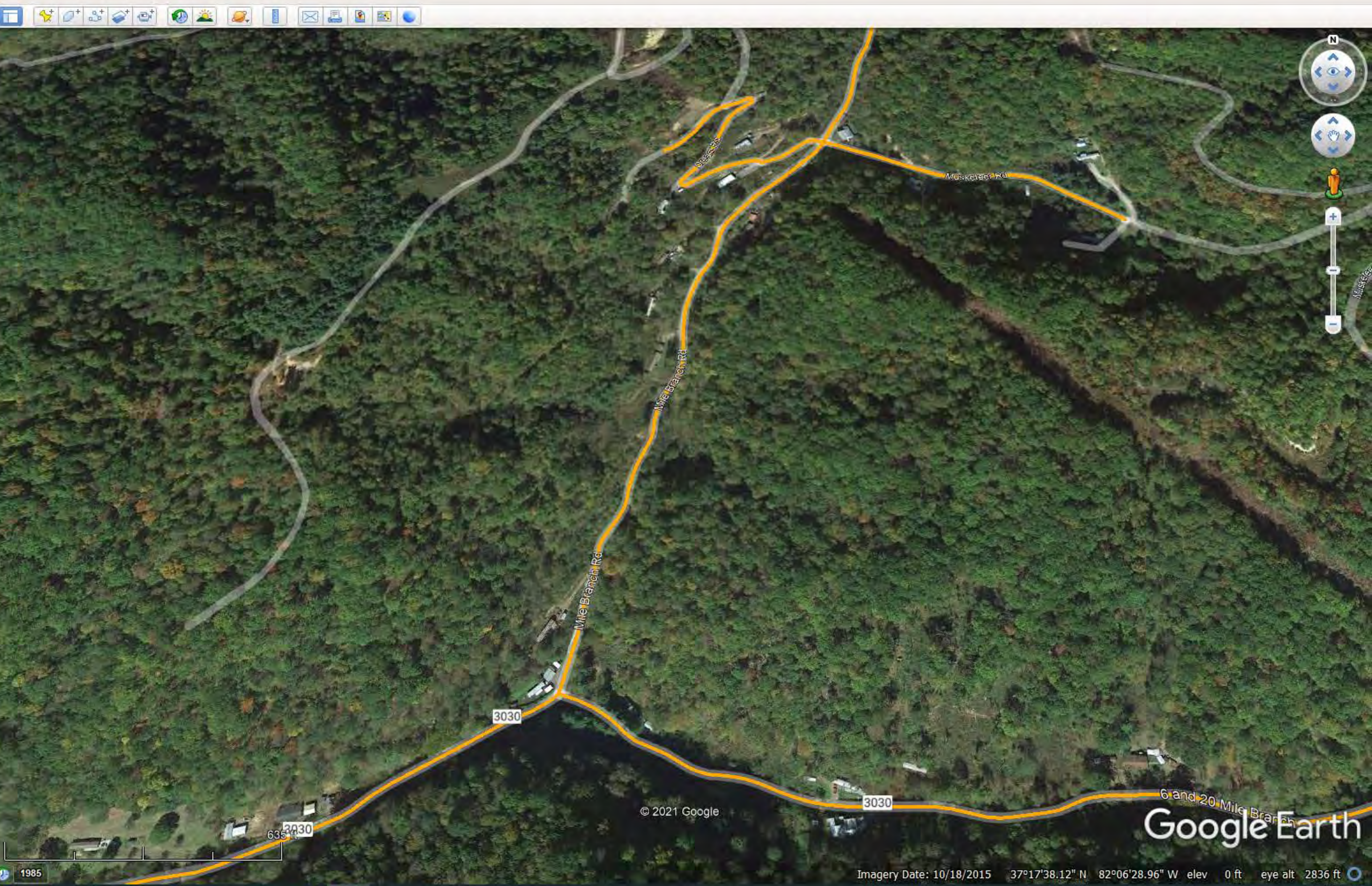
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
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  - VATI CPC Boundary 09 06 21.kmz
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          - Russell Co Area
          - Dickenson Co Areas
          - Buchanan Co Areas
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          - Loggy Bottom Ph1
  - Micro Trench
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- Roads (Outdated)
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: hurley road, 24614 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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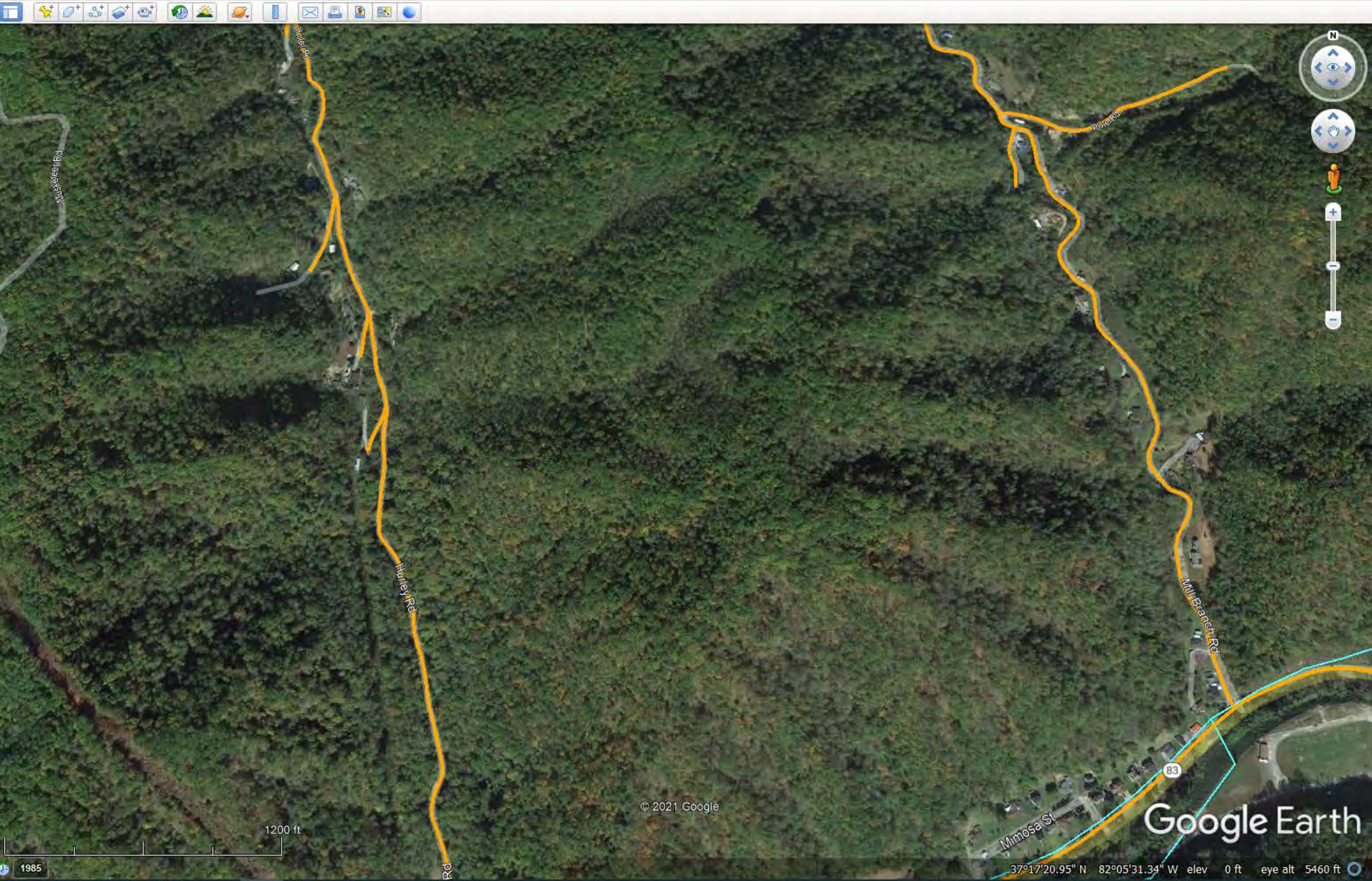
Search

Places

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- Roads (Outdated)
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: mill branch road, 24614 [edit address](#)

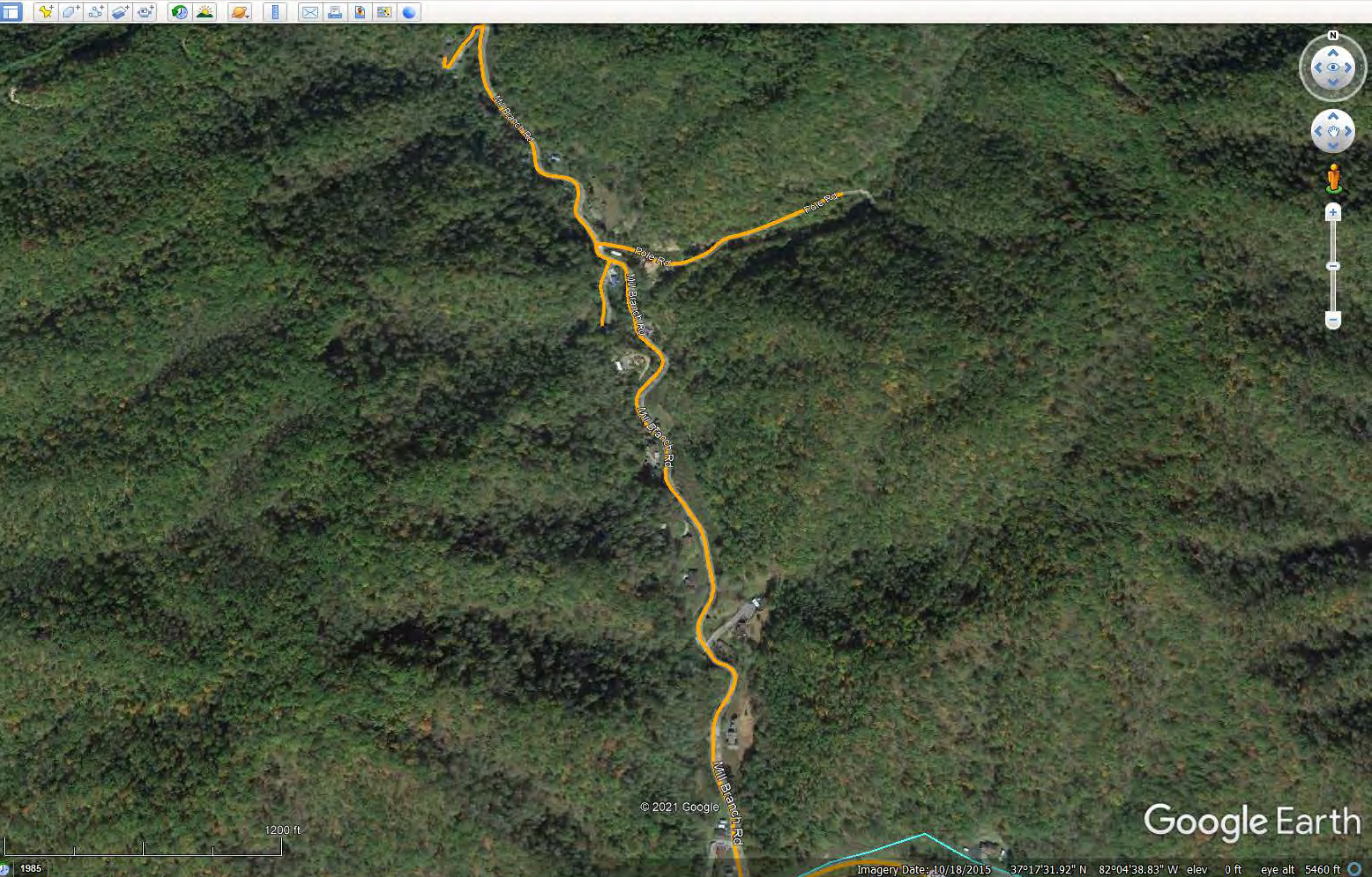
**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
          - CPC Area
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            - Tazewell Co Area
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            - Dickenson Co Areas
            - Buchanan Co Areas
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: bobcat road, 24614 [edit address](#)

Spectrum customer support hours:

Monday through Sunday  
8AM - 12AM Eastern time

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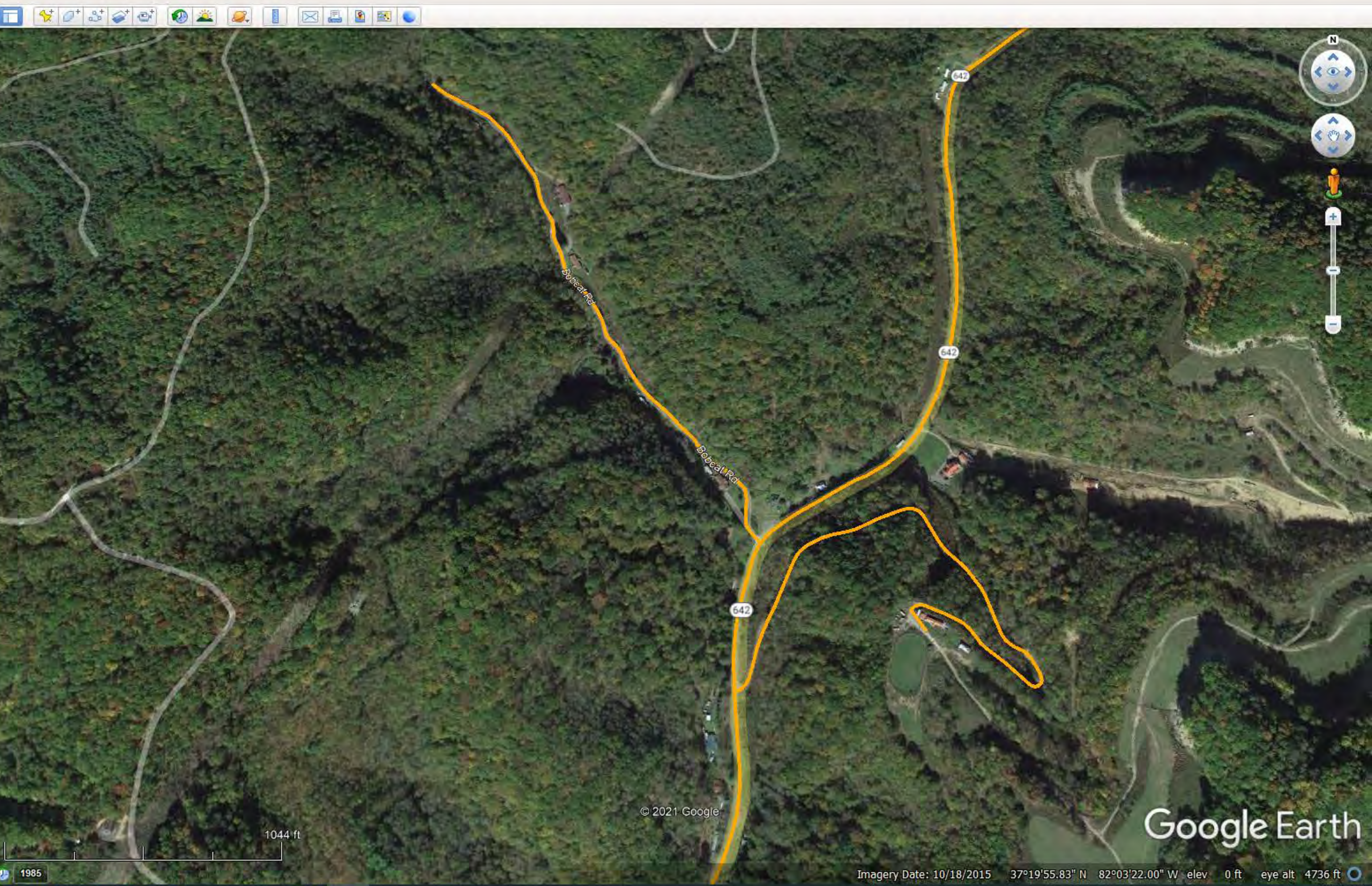
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
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        - CPC Area
          - CPC Area Competitors
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          - Dickenson Co Areas
          - Buchanan Co Areas
          - VA CAFII
          - Loggy Bottom Ph1
        - Micro Trench
        - Looneys Creek.kmz
        - Looney's Creek 01 22 21.kmz
        - Hurricane Creek.kmz
        - Loggy Bottom Ph1 01 22 21.kmz
        - Pilgrim's Knob Path.kmz
        - LEFT FORK .kmz
        - Lynn Camp.kmz

Layers

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- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **lovers gap road, , 24656** [edit address](#)

**Spectrum customer support hours:**

Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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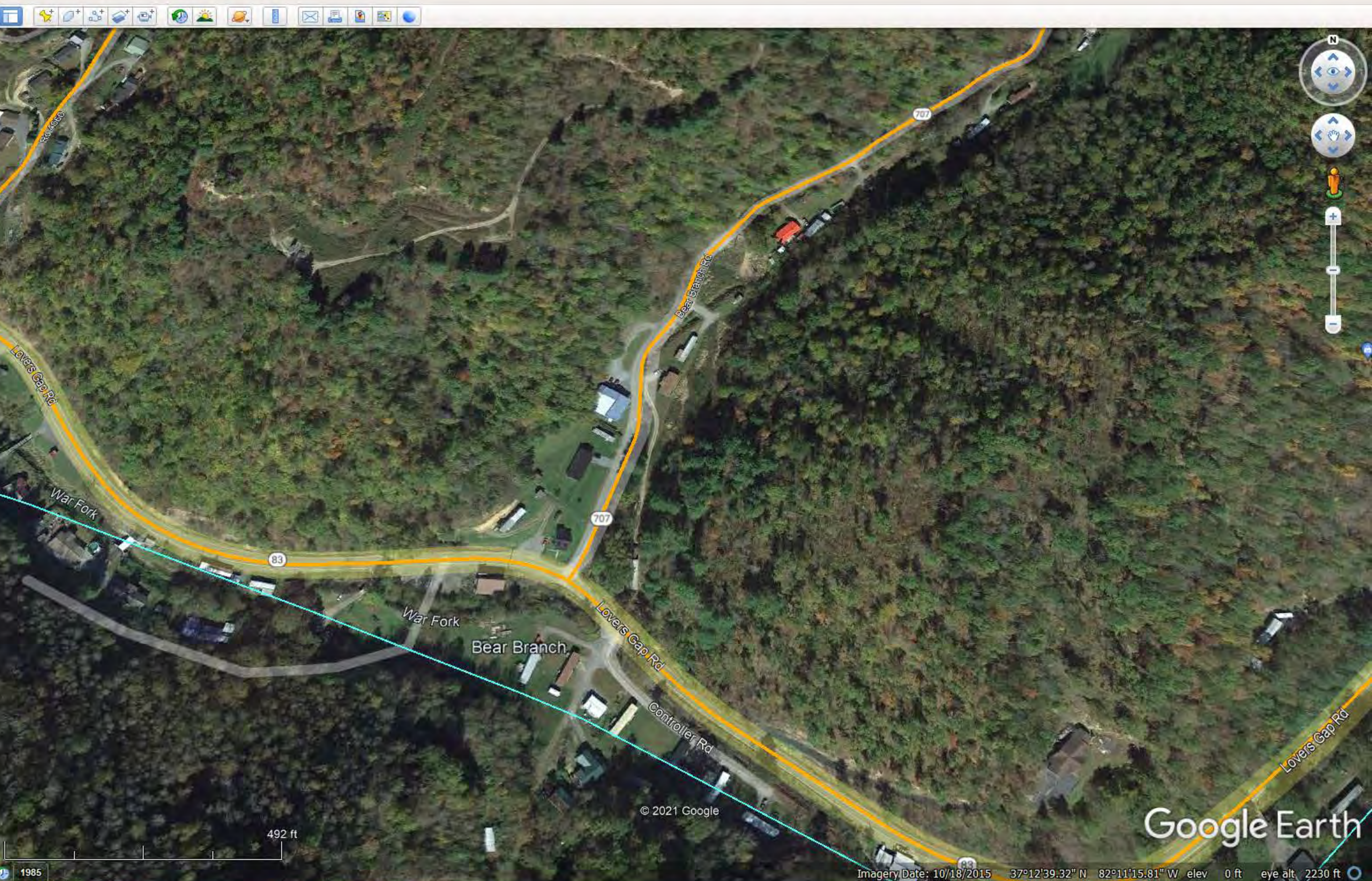
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
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Layers

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- Roads (Outdated)
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1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

Spectrum is not available at your address.  
 But our partners at SmartMove found another service provider in your area.

**HughesNet**

3

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Search

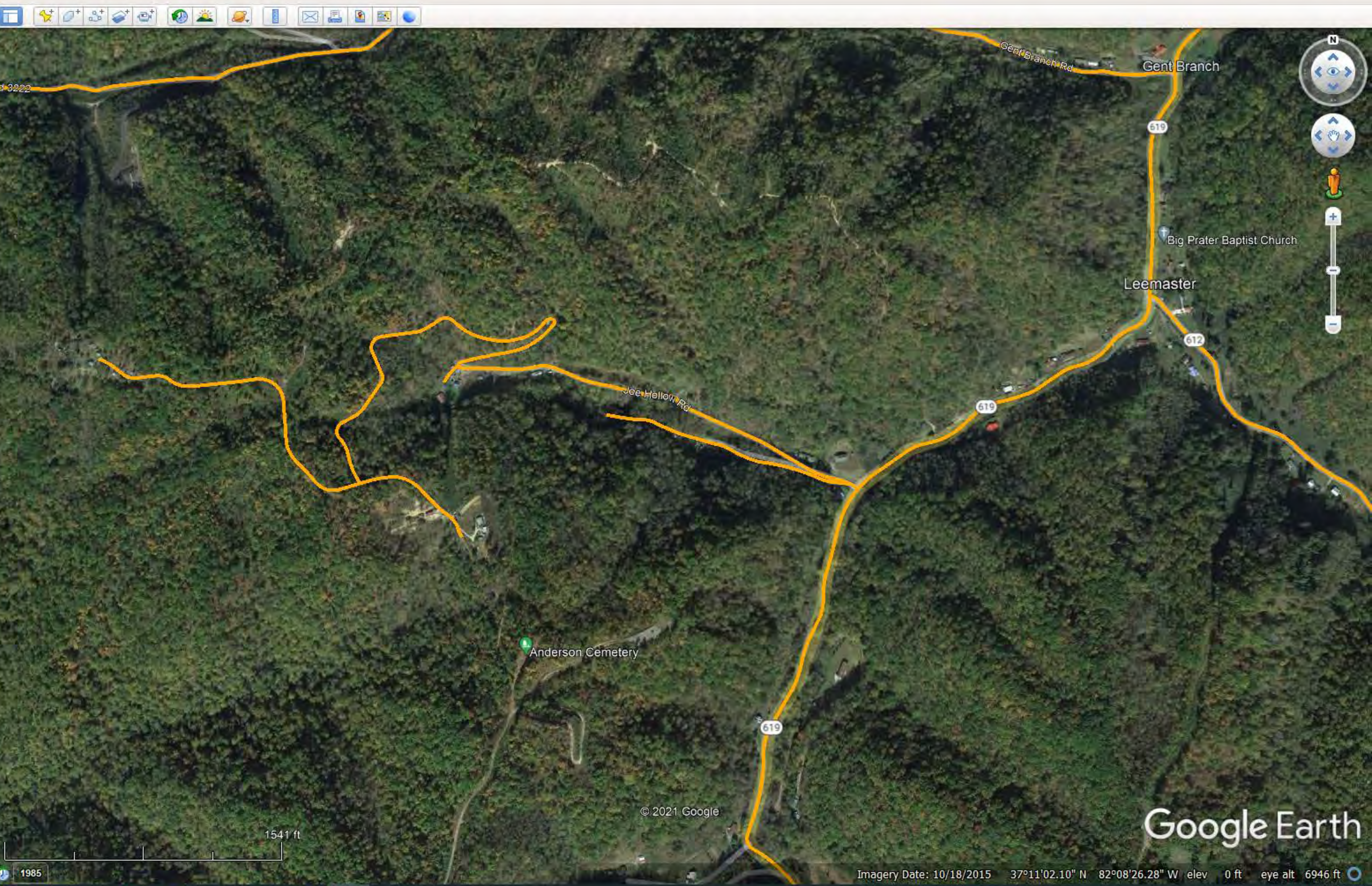
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: rattlesnake road, , 24656 [edit address](#)

**Spectrum customer support hours:**

Monday through Sunday  
8AM - 12AM Eastern time

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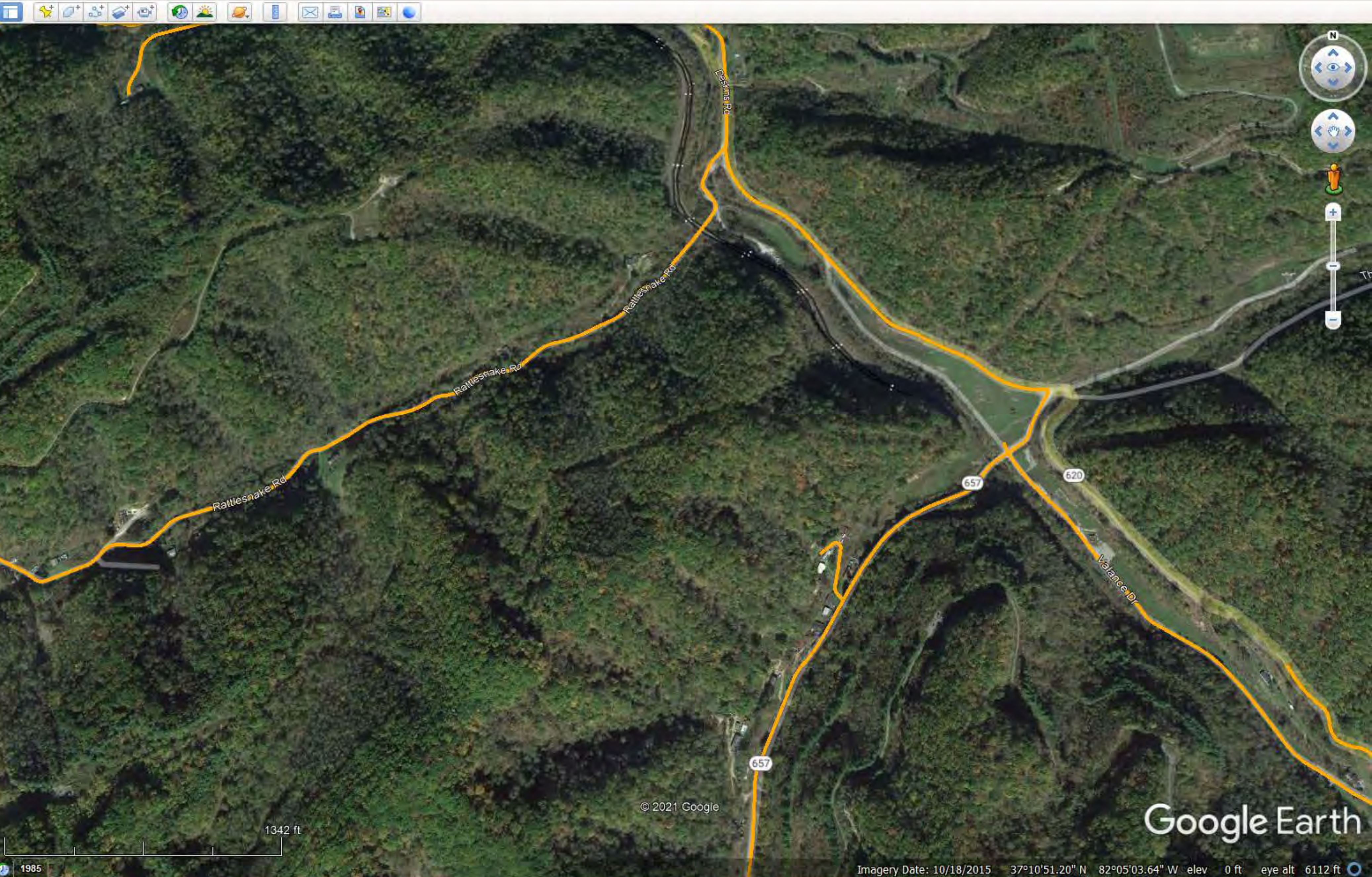
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: fletchers ridge road, , 24656 [edit address](#)

**Spectrum customer support hours:**  
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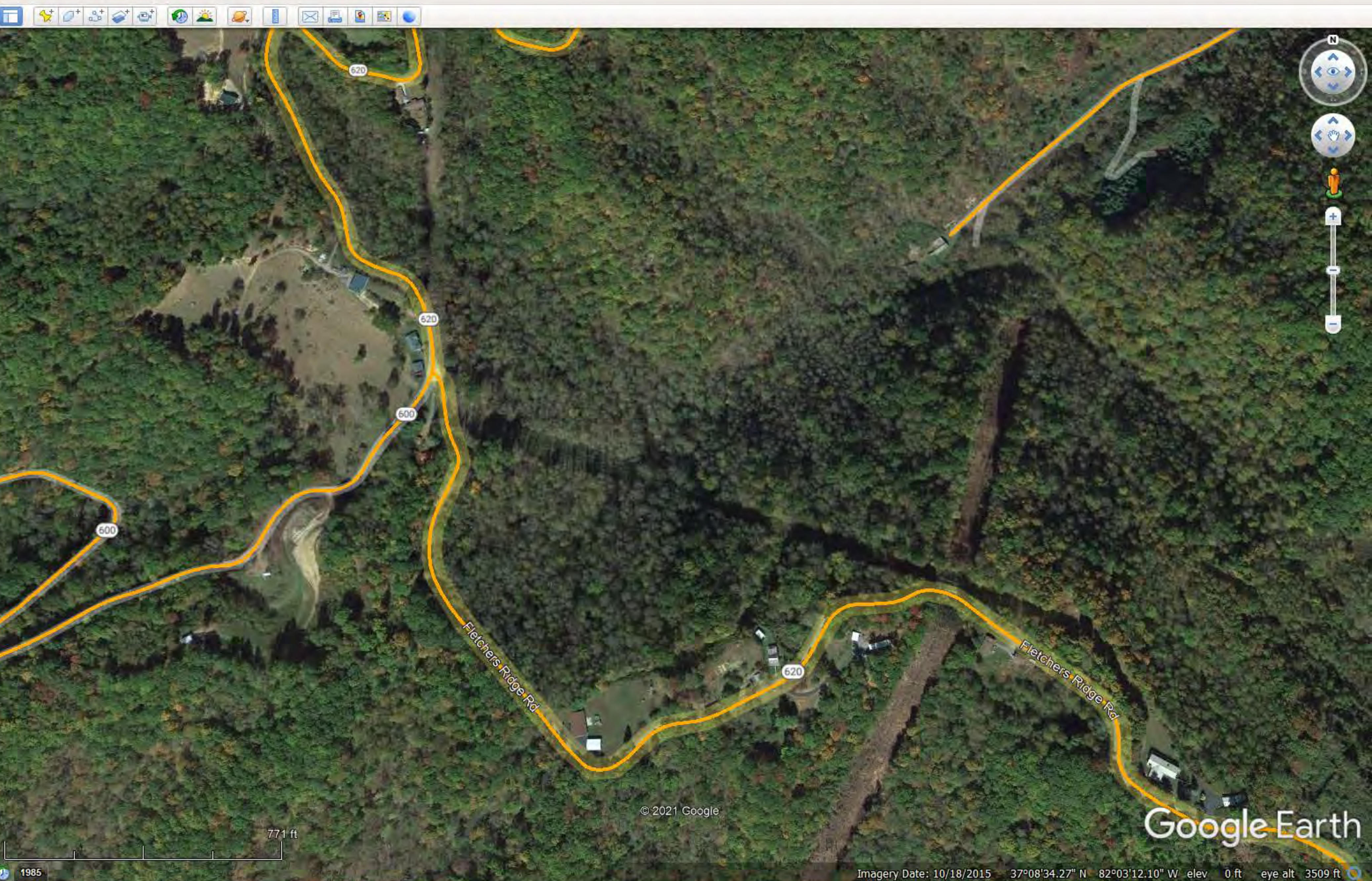
Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
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      - VATI CPC 08 20 21
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          - Buchanan Co Areas
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- Roads (Outdated)
- Terrain







1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: granite road, , 24656 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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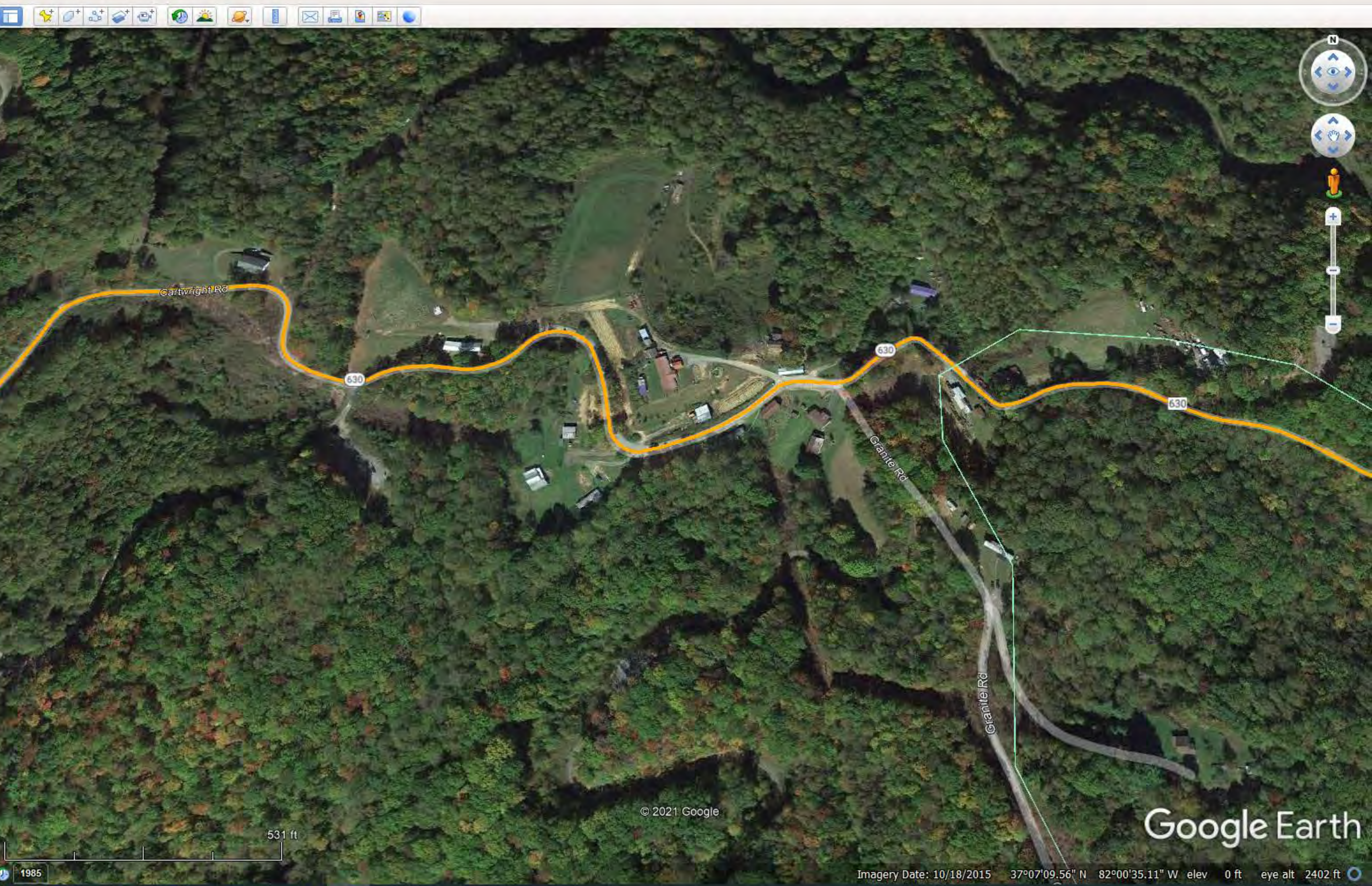
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
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          - LEFT FORK .kmz
          - Lynn Camp.kmz

Layers

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  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain







1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

Search

We are now searching for services available at:  
double creek road  
Zip Code: 24260

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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Search

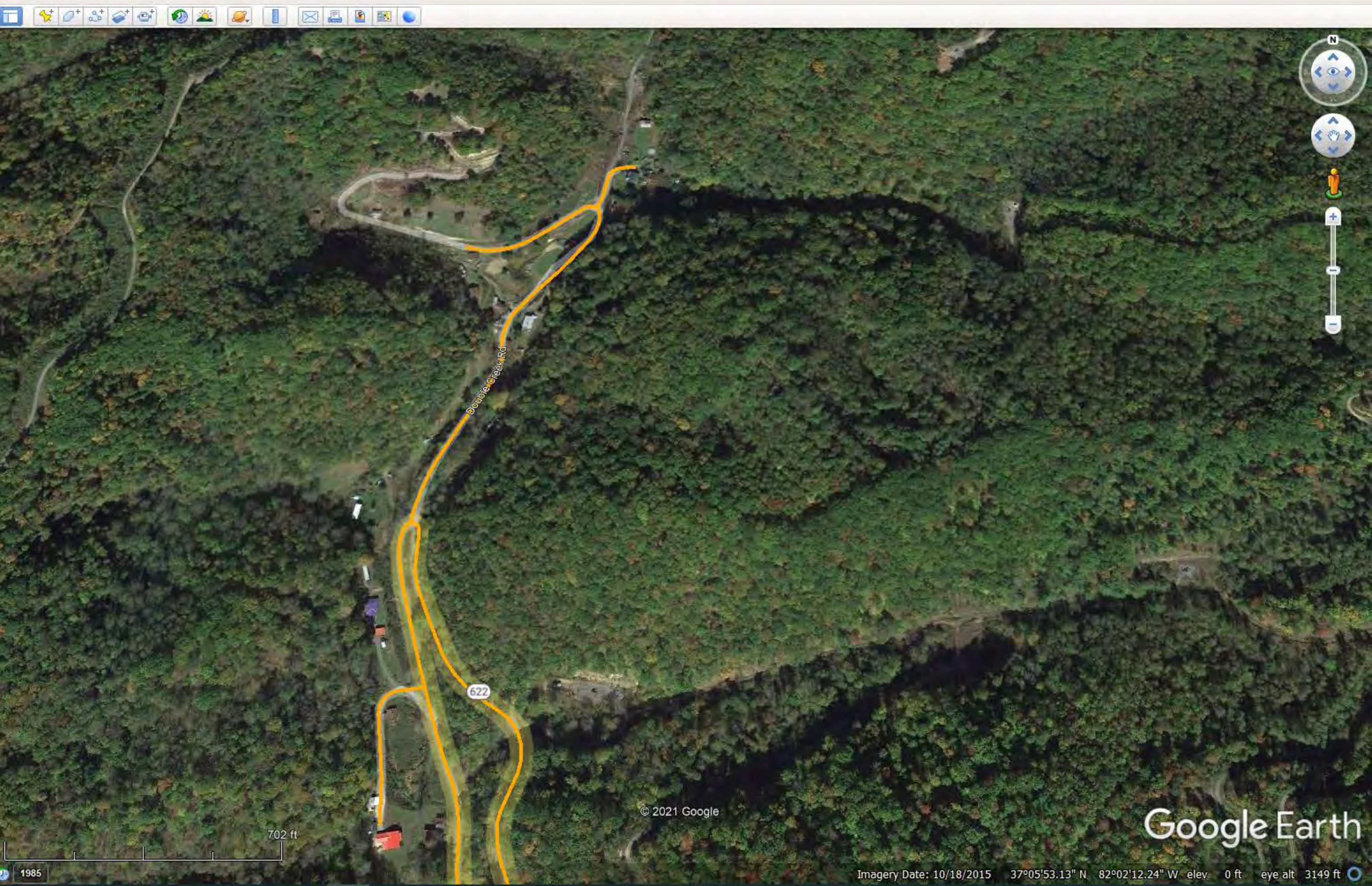
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI CPC Boundary 09 06 21.kmz
- VATI CPC 08 24 21.kmz
  - VATI CPC
  - VATI CPC 08 20 21
    - CPC Area
      - CPC Area Competitors
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      - Dickenson Co Areas
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      - VA CAFII
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  - Hurricane Creek.kmz
  - Loggy Bottom Ph1 01 22 21.kmz
  - Pilgrim's Knob Path.kmz
  - LEFT FORK .kmz
  - Lynn Camp.kmz

Layers

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- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain






This address is not part of the Spectrum service area.

Spectrum is not available at your address.  
 But our partners at SmartMove found another service provider in your area.

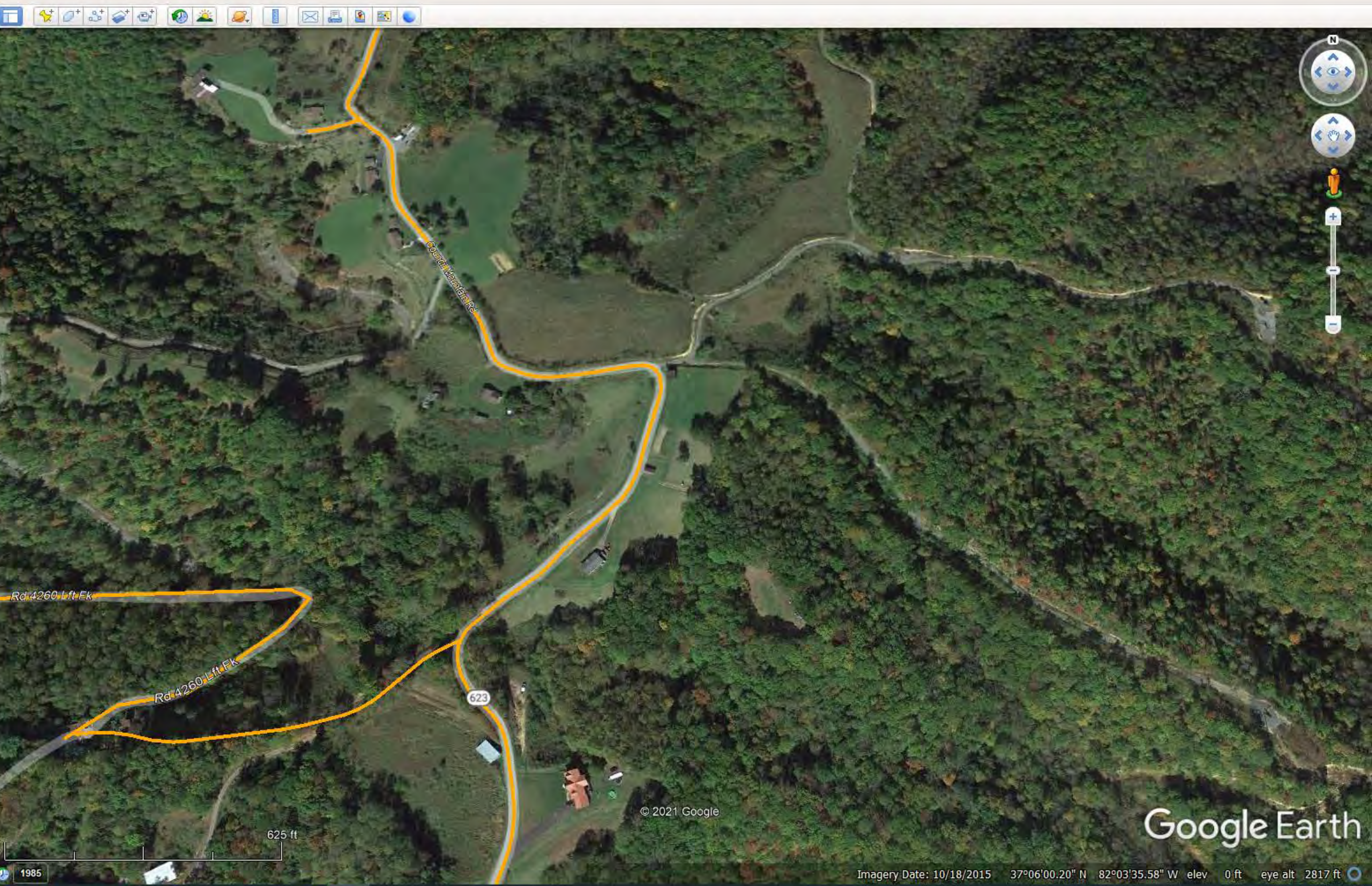
**HughesNet**



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- Search
- Get Directions History
- Places
- Potential Mount Rogers VATI 2021-22
  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
  - Temporary Places
    - VATI CPC Boundary 09 06 21.kmz
    - VATI CPC 08 24 21.kmz
      - VATI CPC
        - VATI CPC 08 20 21
          - CPC Area
            - CPC Area Competitors
              - Tazewell Co Area
              - Russell Co Area
              - Dickenson Co Areas
              - Buchanan Co Areas
              - VA CAFIL
              - Loggy Bottom Ph1
      - Micro Trench
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      - LEFT FORK .kmz
      - Lynn Camp.kmz
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    - Roads (Outdated)
    - Terrain







1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **spartan road, 24622** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

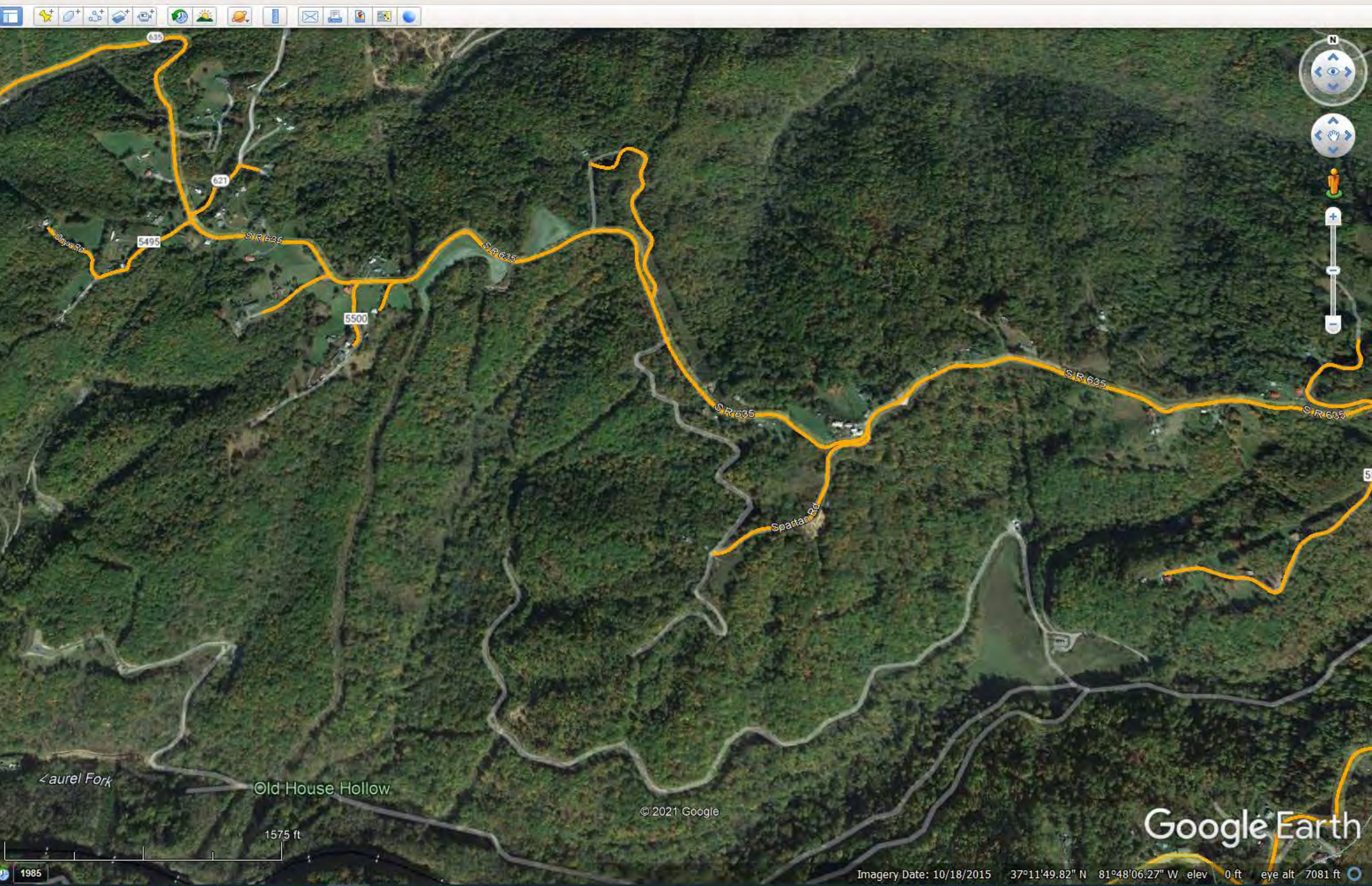
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- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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  - VATI CPC Boundary 09 06 21.kmz
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- Roads (Outdated)
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: moore road, 24622 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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Search

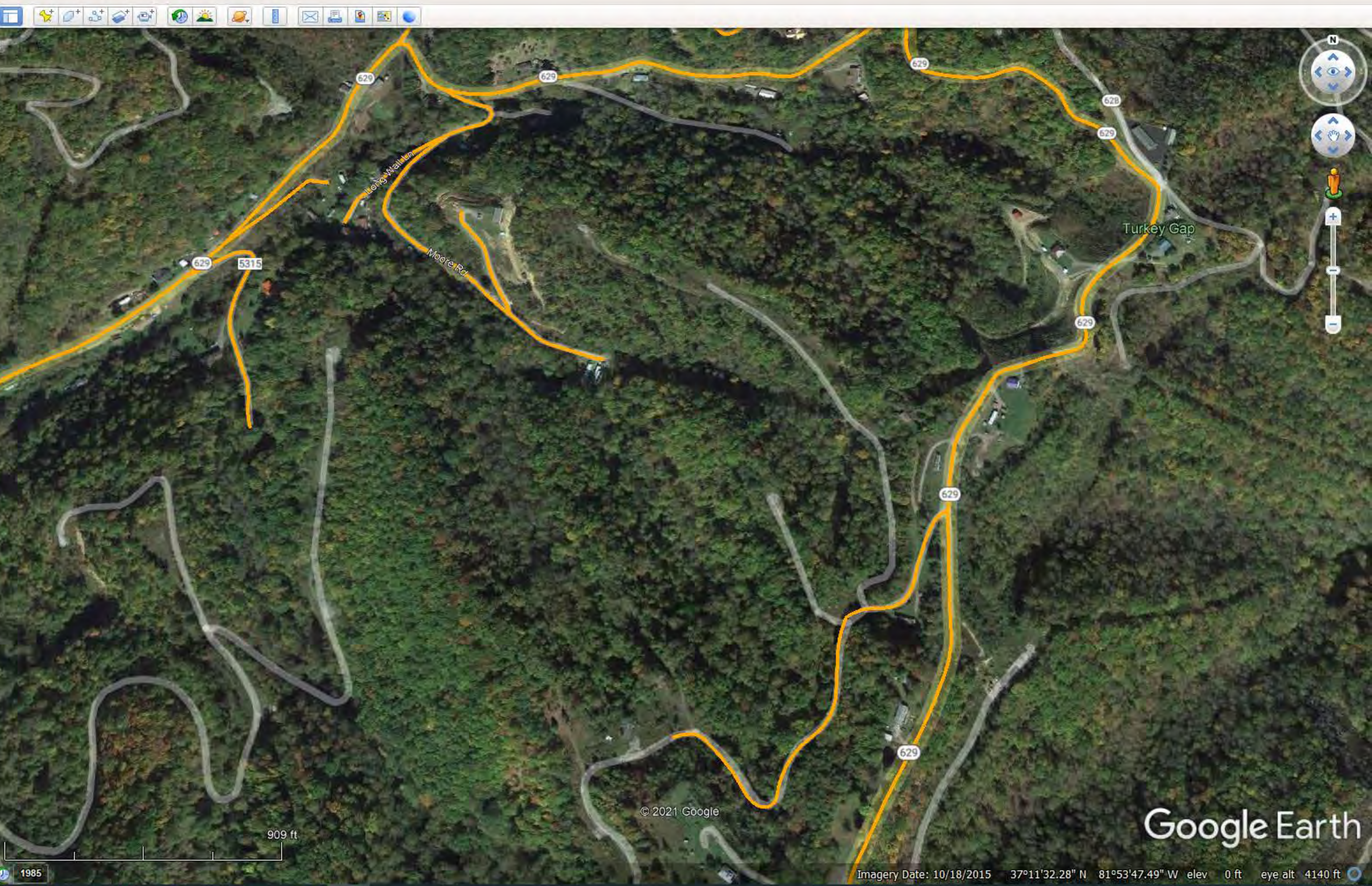
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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Layers

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- Roads (Outdated)
- Terrain







1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

Search

We are now searching for services available at:  
rosenbaum road  
Zip Code: 24605

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Search

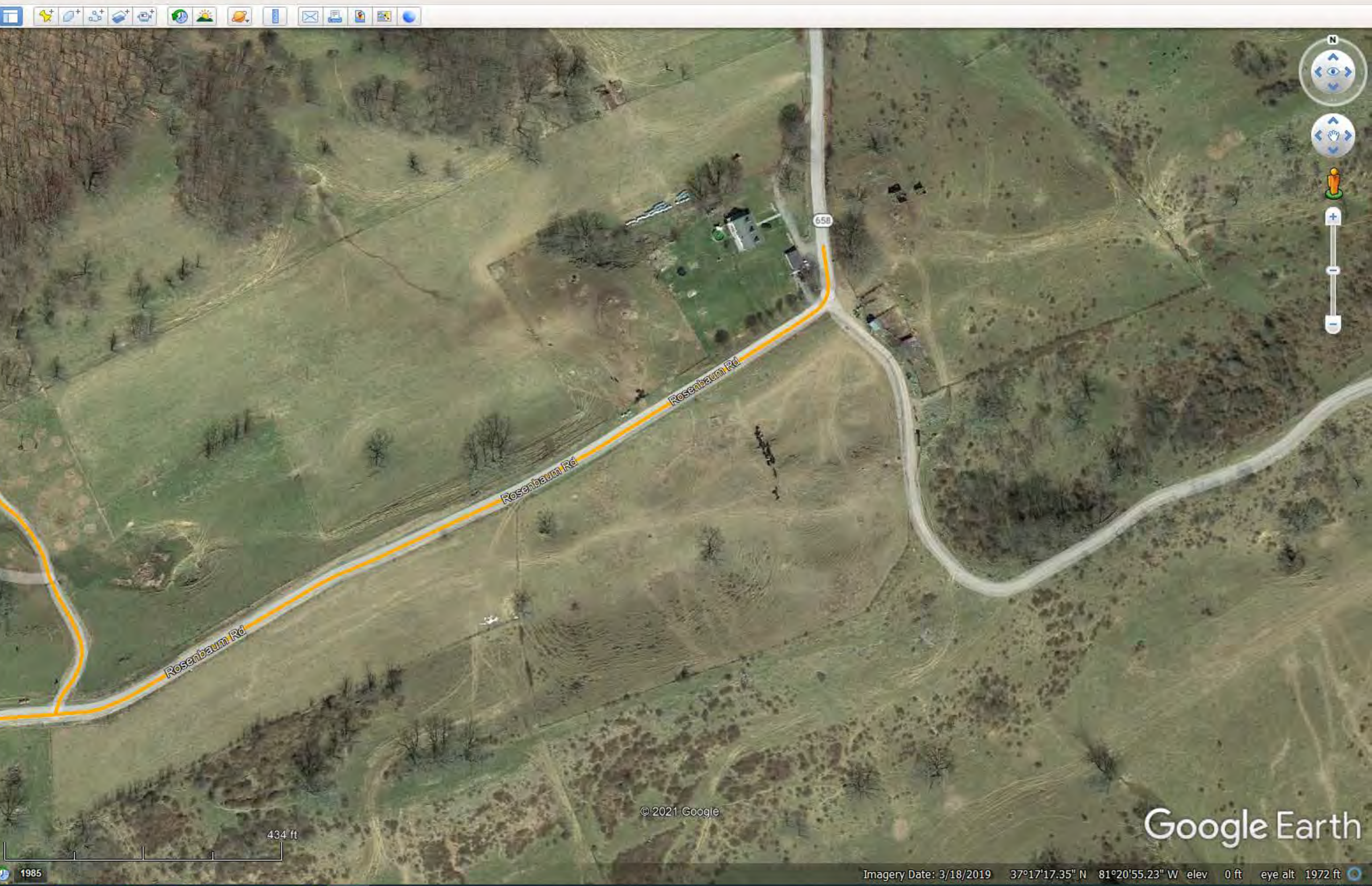
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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- VATI CPC Boundary 09 06 21.kmz
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1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

Search

We are now searching for services available at:  
safari drive  
Zip Code: 24605

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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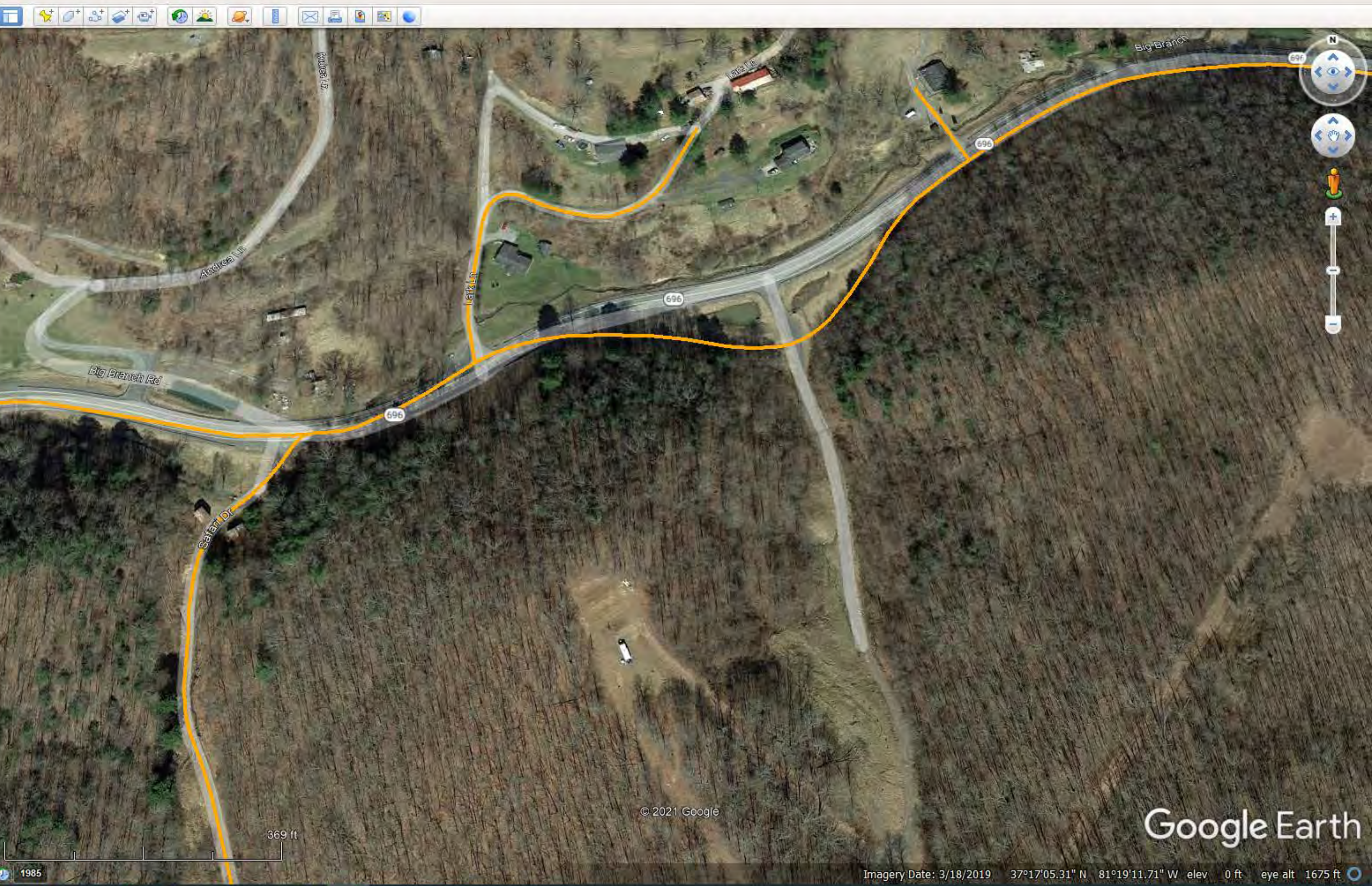
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

Search

We are now searching for services available at:  
waterbury road  
Zip Code: 24605

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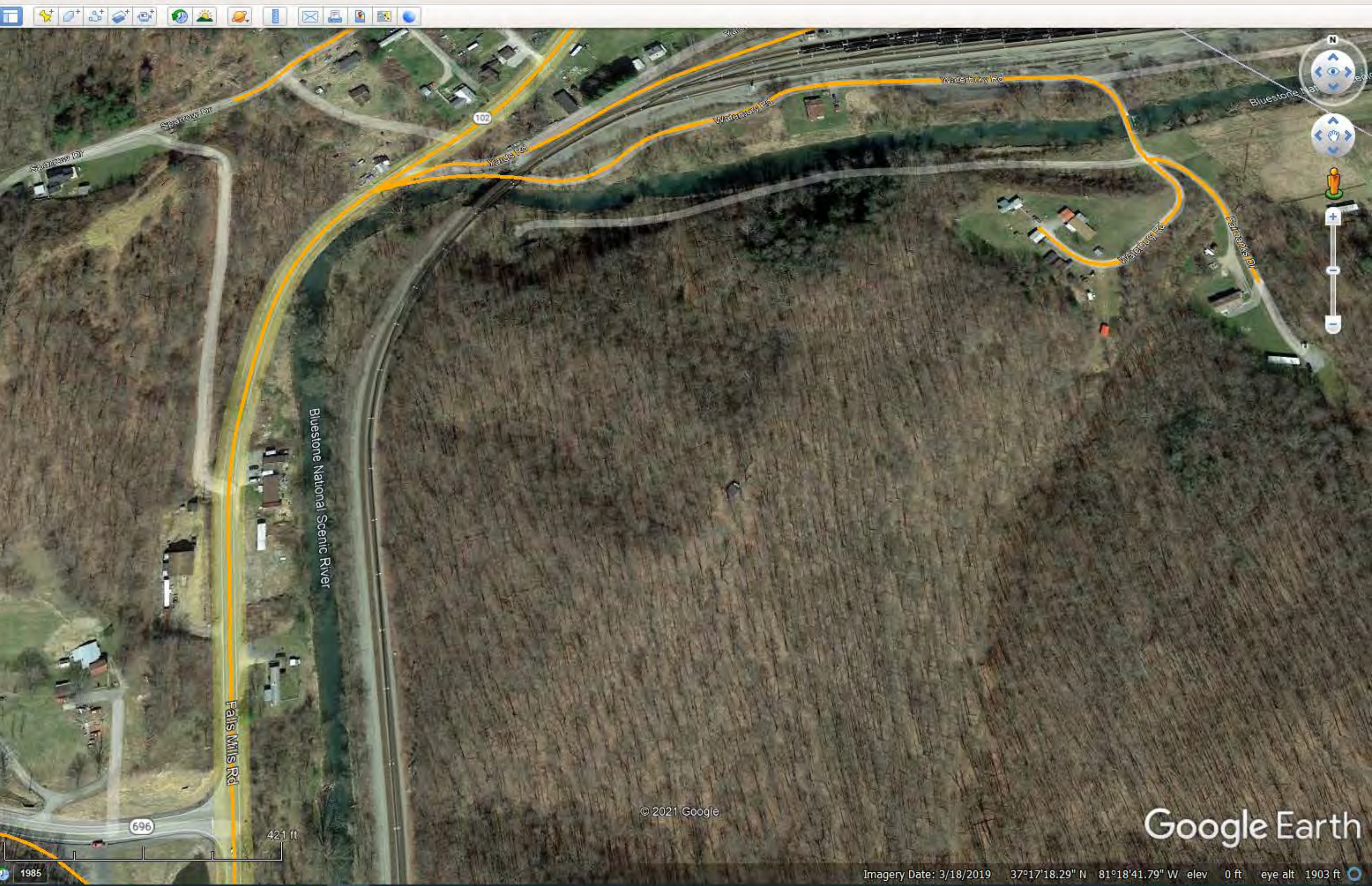
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Places

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1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

Search

We are now searching for services available at:  
woodys road  
Zip Code: 24605

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Search

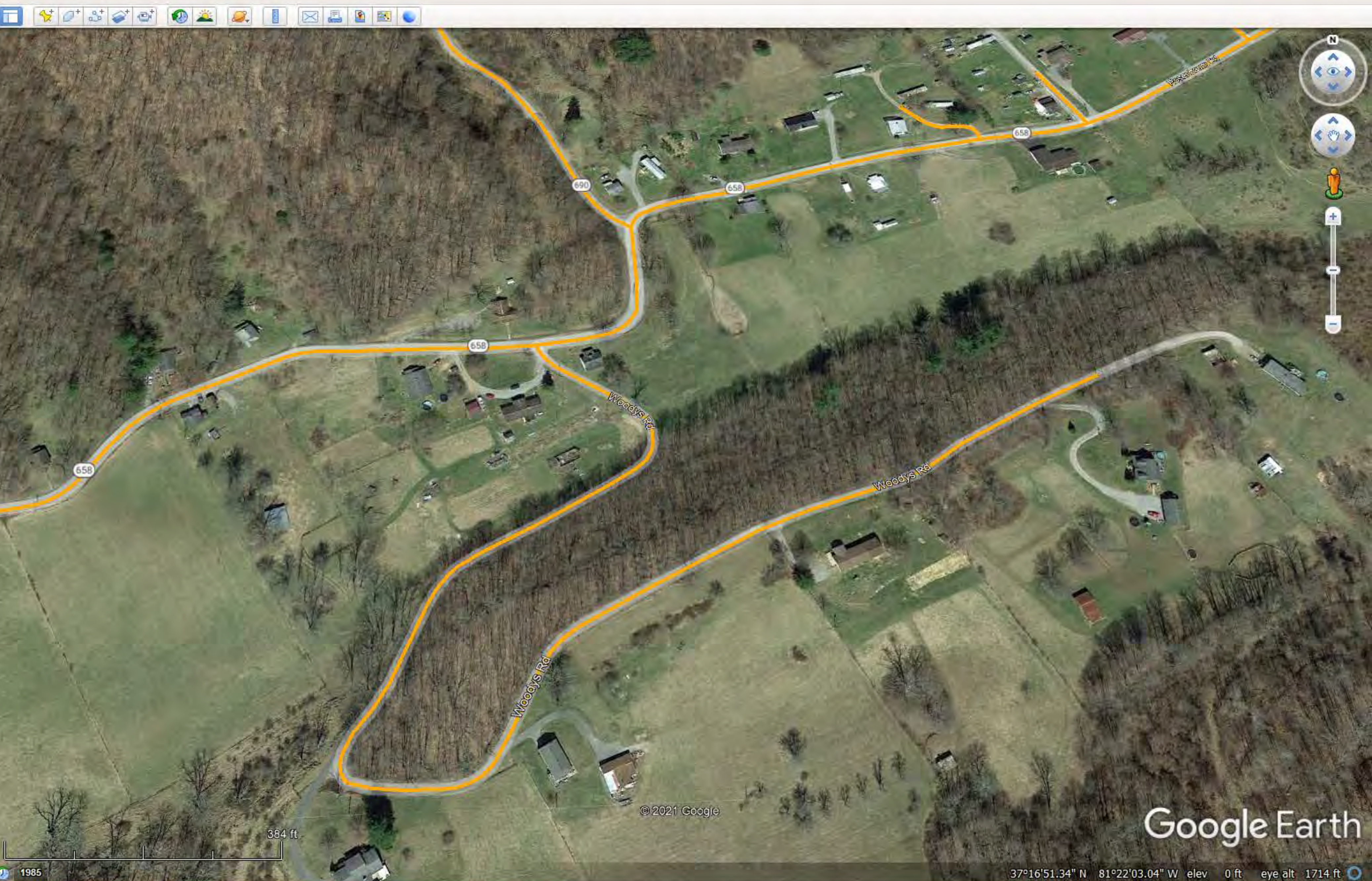
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This address is not part of the Spectrum service area.

Spectrum is not available at your address.  
 But our partners at SmartMove found another service provider in your area.



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Search

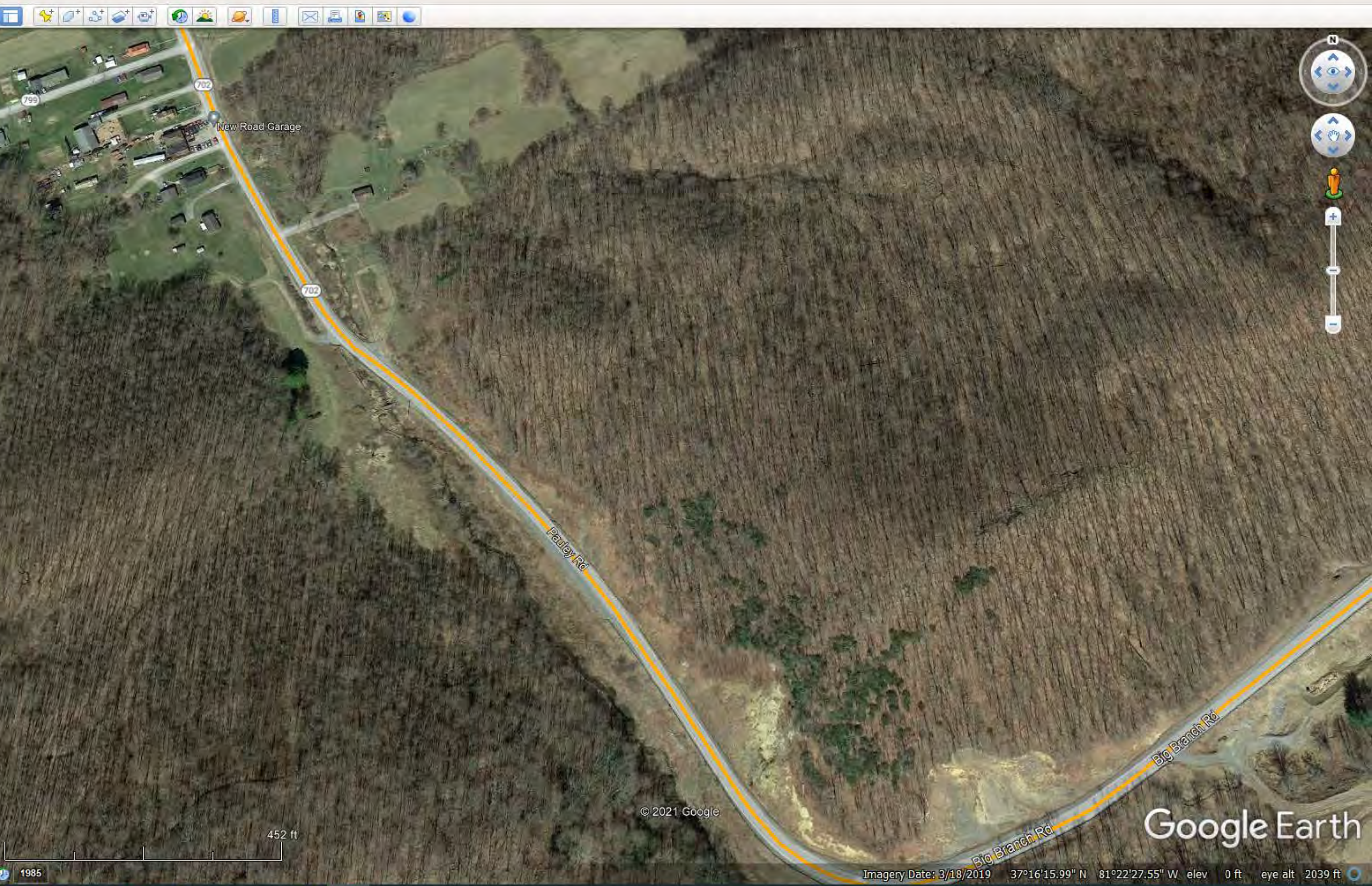
Get Directions History

Places

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  - CPC Area
    - CPC Area Competitors
    - Tazewell Co Area
    - Russell Co Area
    - Dickenson Co Areas
    - Buchanan Co Areas
    - VA CAFII
    - Loggy Bottom Ph1
- Micro Trench
- Looneys Creek.kmz
- Looney's Creek 01 22 21.kmz
- Hurricane Creek.kmz
- Loggy Bottom Ph1 01 22 21.kmz
- Pilgrim's Knob Path.kmz
- LEFT FORK .kmz
- Lynn Camp.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain







1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

Search

We are now searching for services available at:  
wrights valley road  
Zip Code: 24605

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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Search

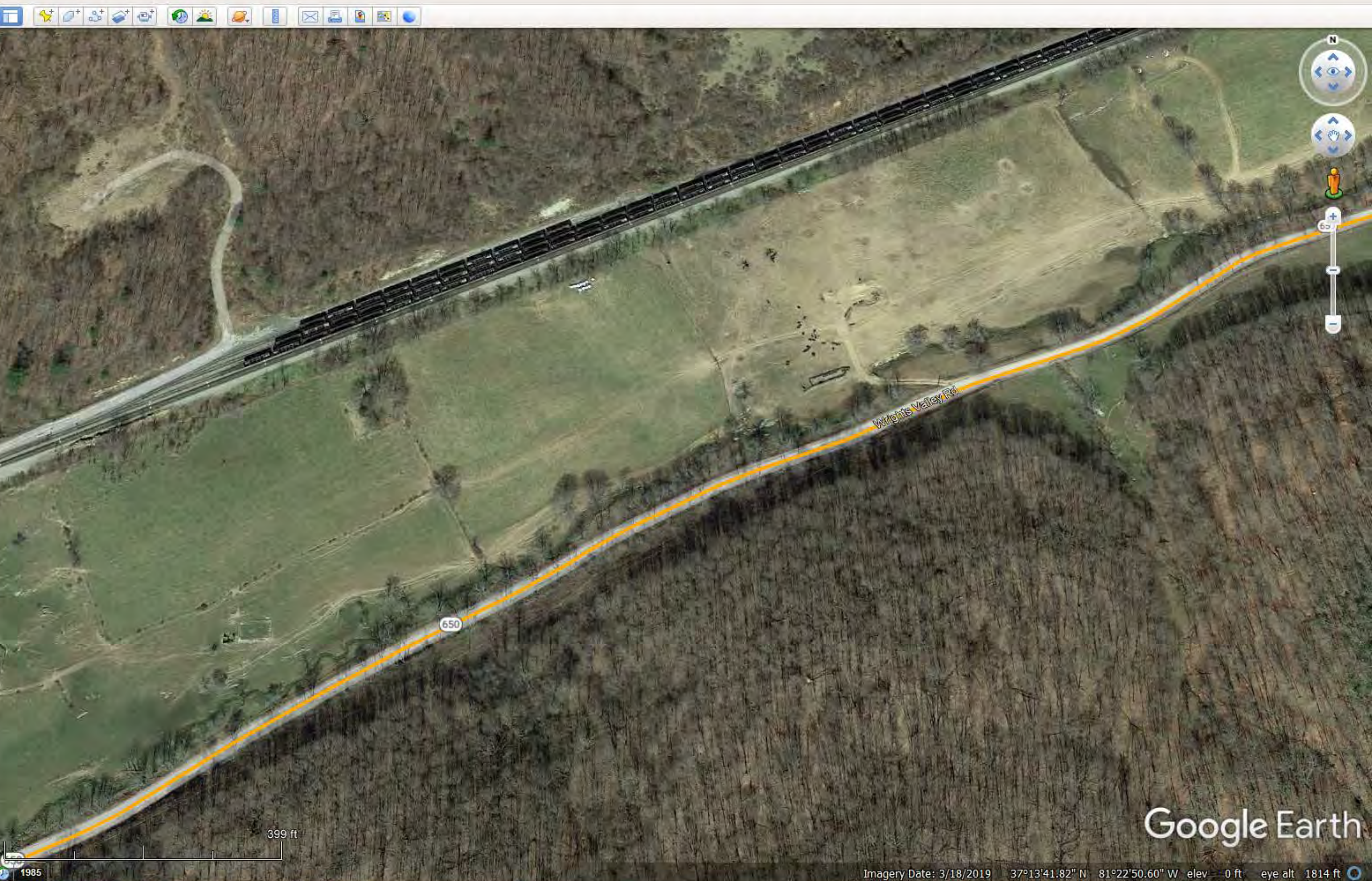
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
- VATI CPC Boundary 09 06 21.kmz
- VATI CPC 08 24 21.kmz
- VATI CPC
- VATI CPC 08 20 21
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- Roads (Outdated)
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Google Earth





1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

SmartMove connects you to your Internet and TV provider.  
 Give us a call to discover your options:  
**1-877-298-8998**  
 powered by

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Search

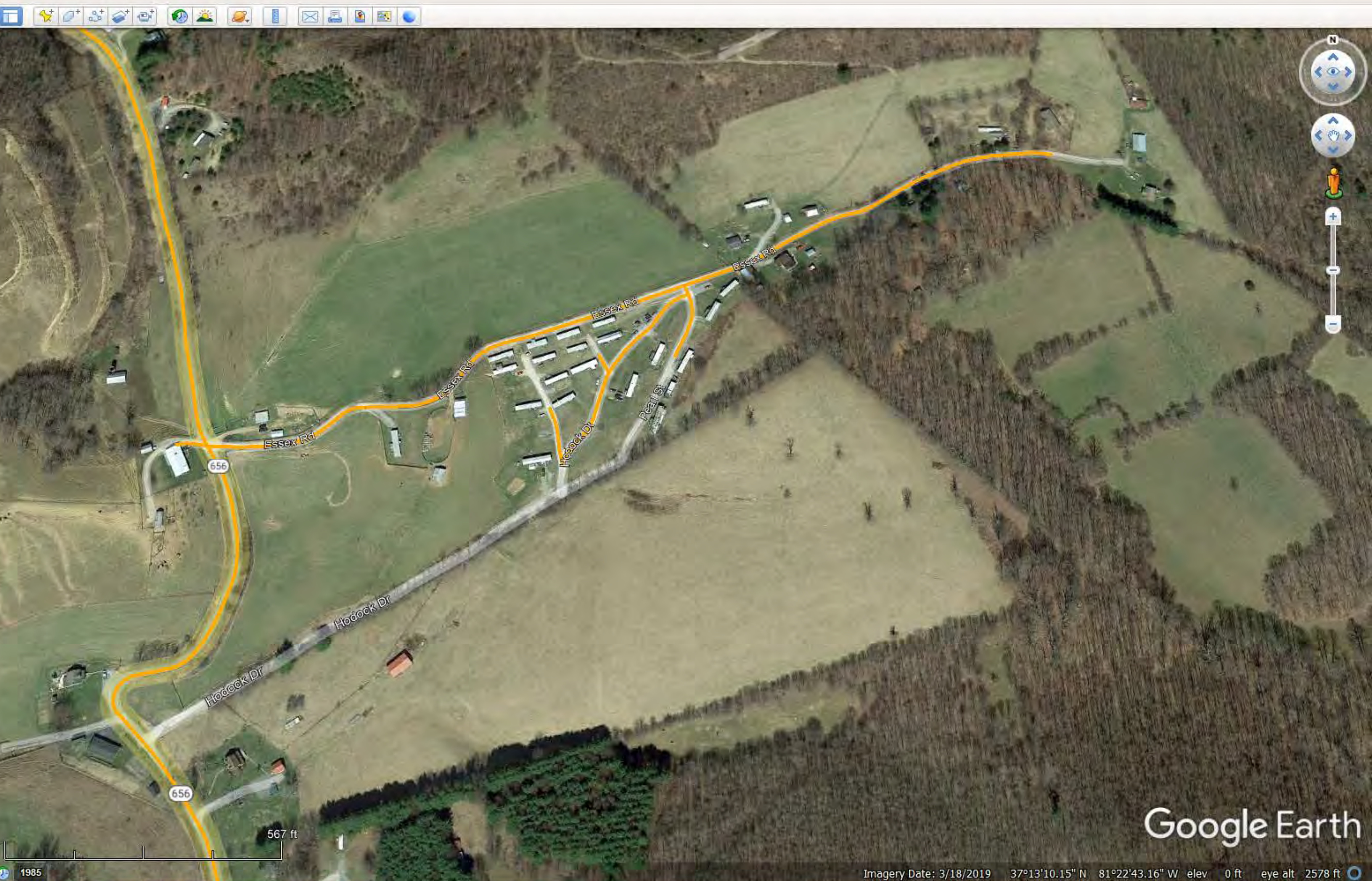
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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    - Weather
    - Gallery
    - More
    - Borders and Labels (Outdated)
      - Places (Outdated)
      - Roads (Outdated)
    - Terrain



Google Earth

Imagery Date: 3/18/2019 37°13'10.15" N 81°22'43.16" W elev 0 ft eye alt 2578 ft





1-833-219-4361

Start Again

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Search

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Google Earth





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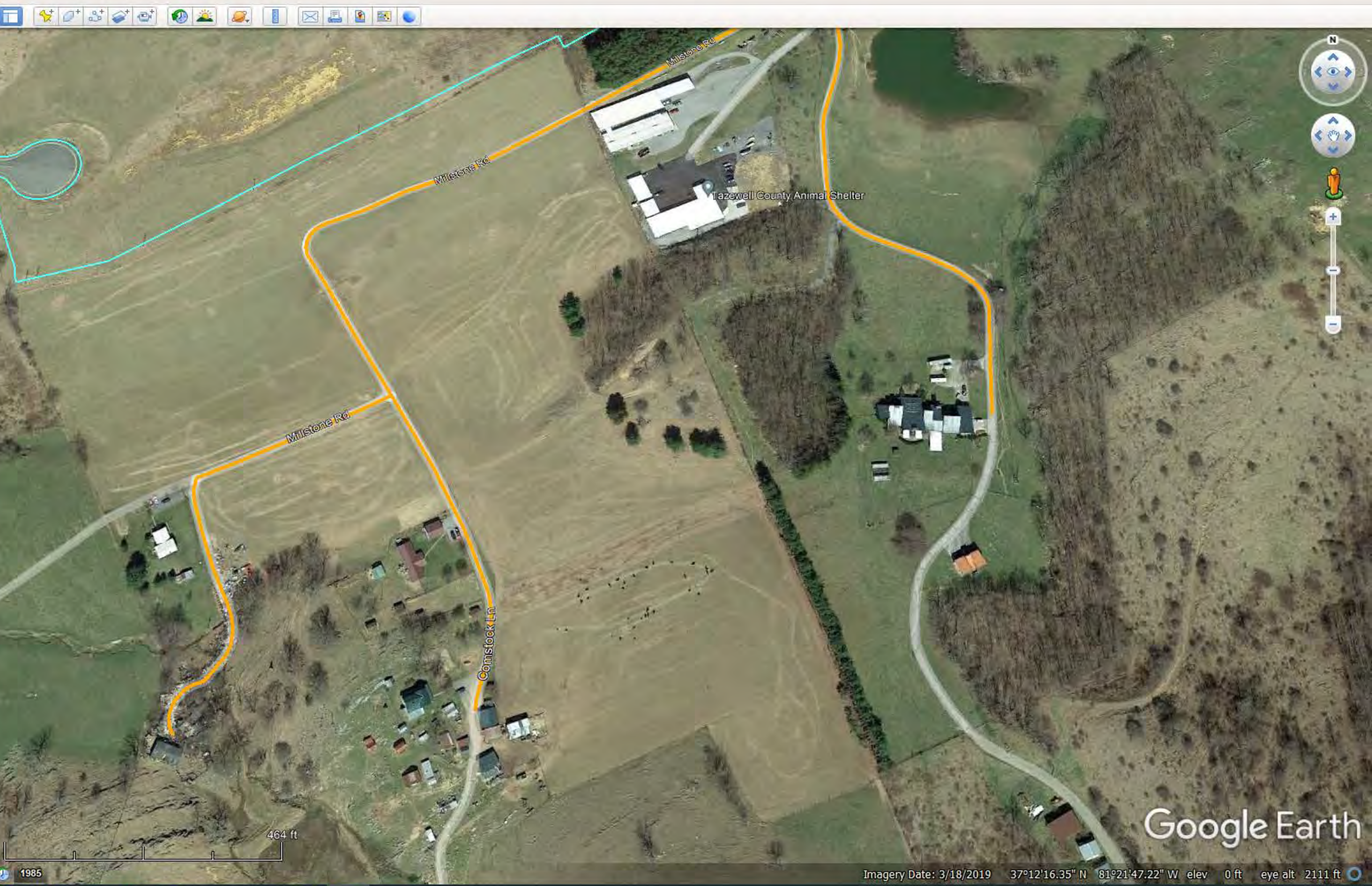
Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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- Search
- Get Directions History
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  - Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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  - Gallery
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  - Borders and Labels (Outdated)
  - Places (Outdated)
  - Roads (Outdated)
  - Terrain



Google Earth

Imagery Date: 3/18/2019 37°12'16.35" N 81°21'47.22" W elev 0 ft eye alt 2111 ft





1-833-219-4361

Start Again

This address is not part of the Spectrum service area.

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Search

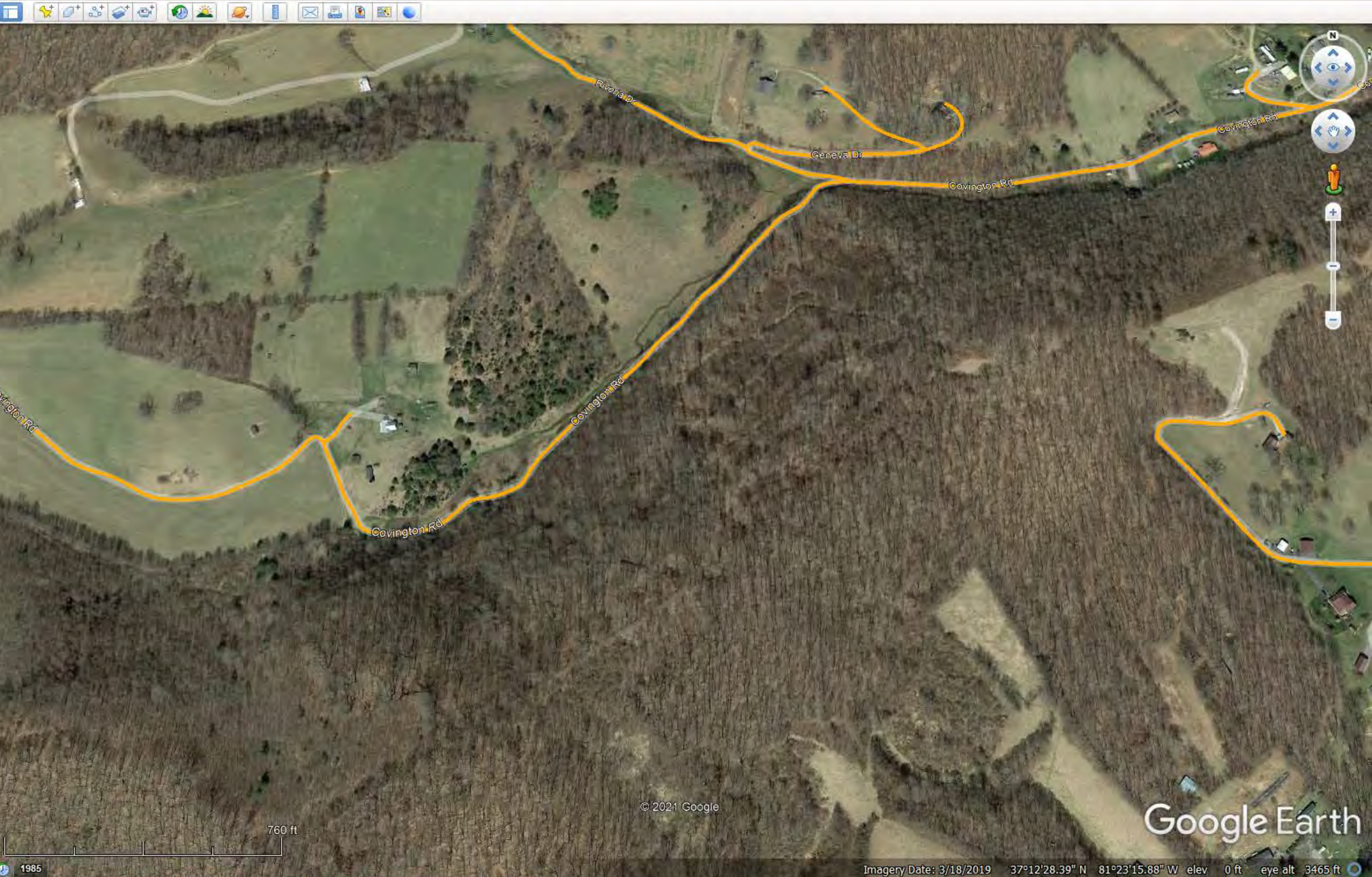
Get Directions History

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- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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- VATI CPC Boundary 09 06 21.kmz
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- Places (Outdated)
- Roads (Outdated)
- Terrain







1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **tiptop road, 24630** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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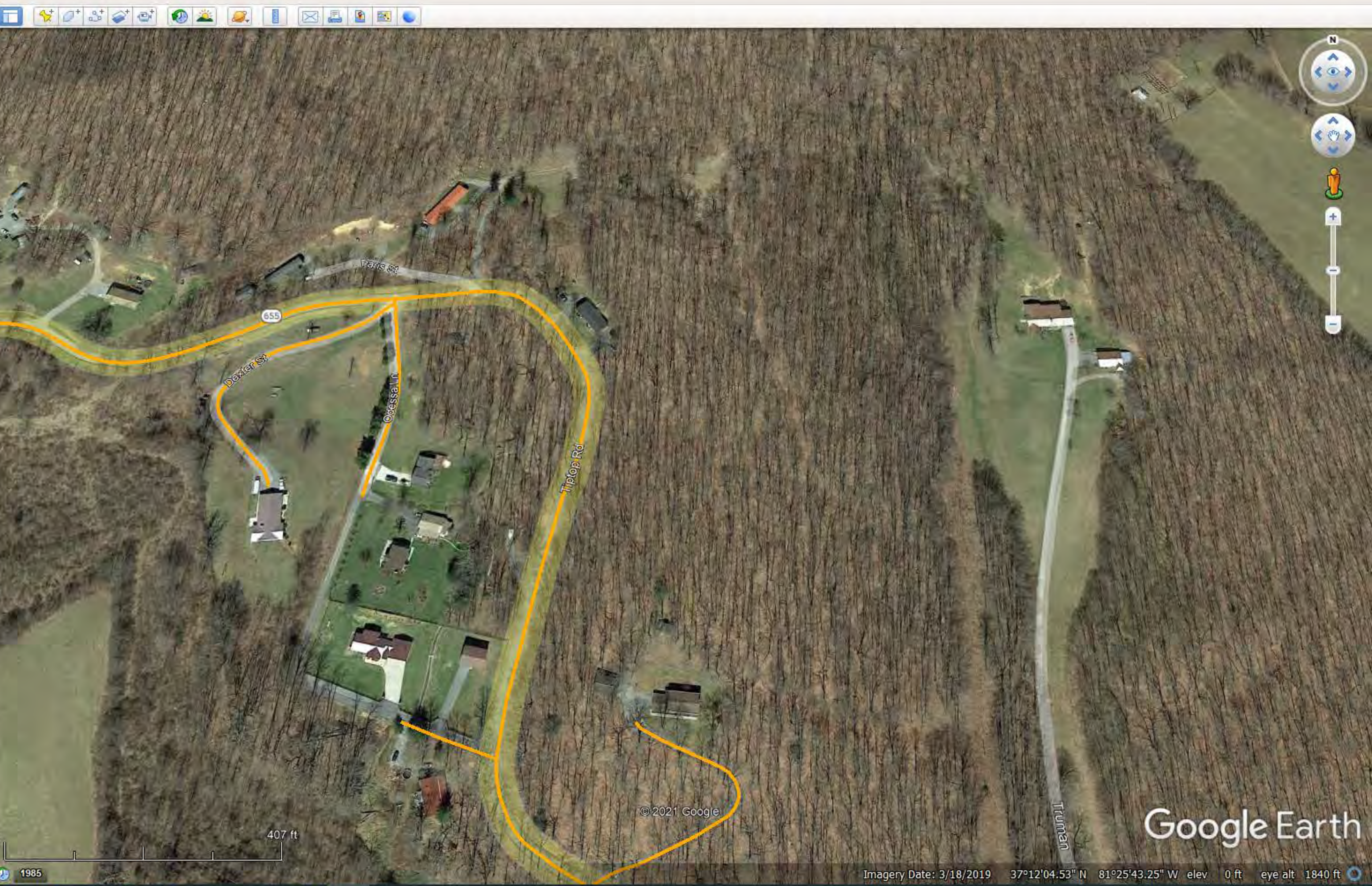
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Search

Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
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- Places (Outdated)
- Roads (Outdated)
- Terrain






1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: freestone lane, 24630 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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- VATI CPC Boundary 09 06 21.kmz
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- Roads (Outdated)
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: blue mountain road, 24630 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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Search

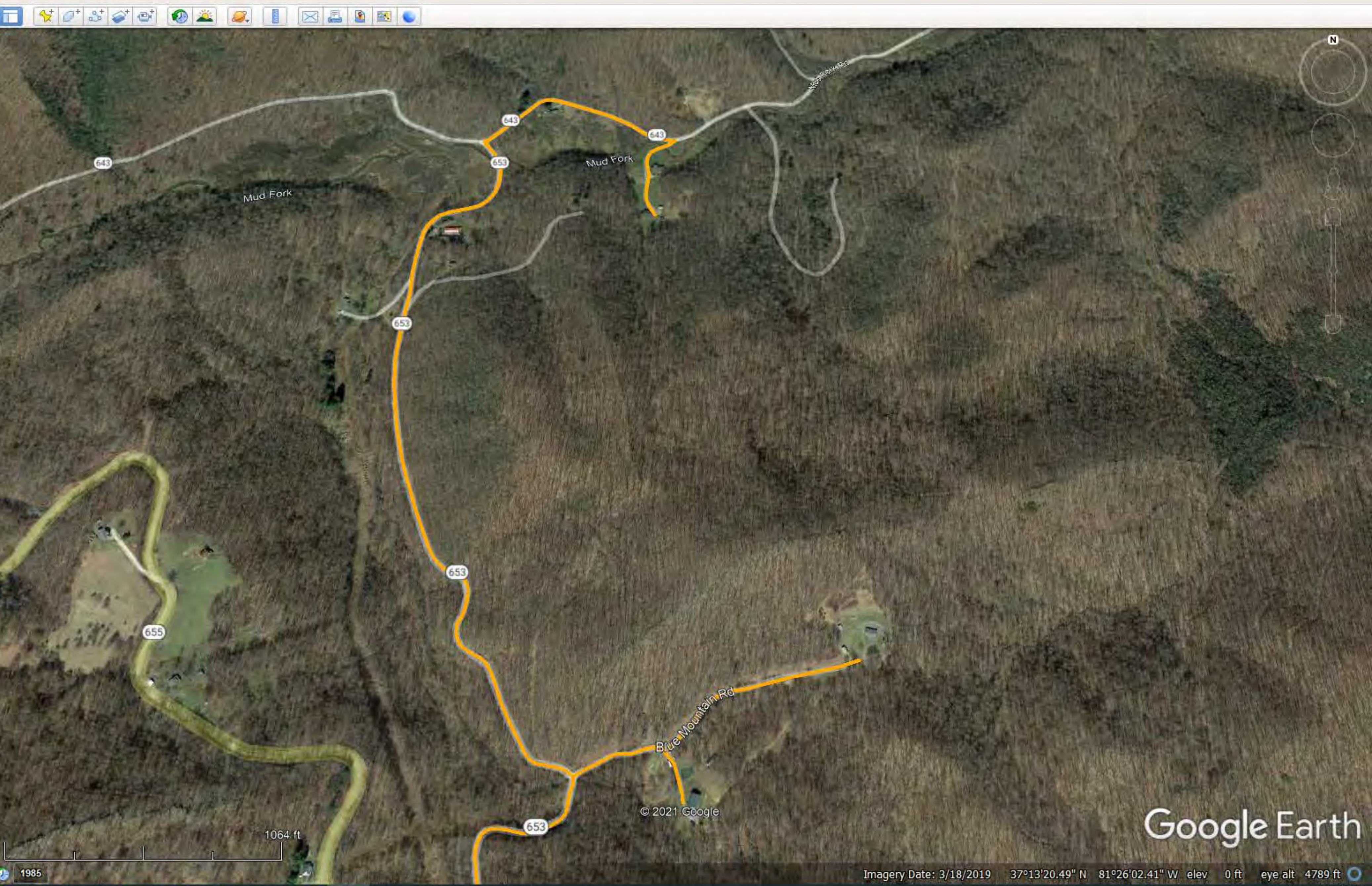
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
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  - Borders and Labels (Outdated)
    - Places (Outdated)
    - Roads (Outdated)
  - Terrain







1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: wittens mill road, 24630 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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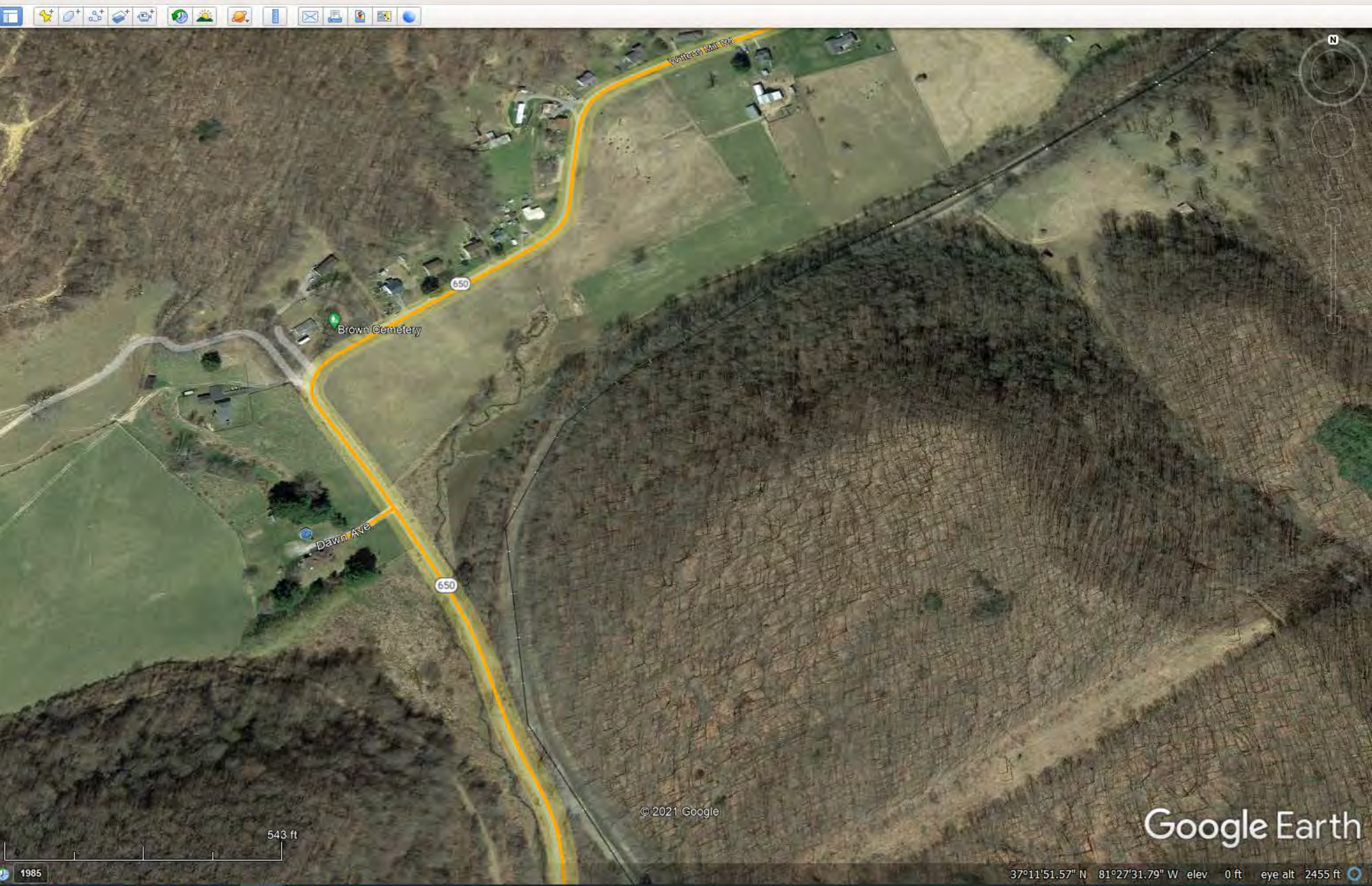
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Search

Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: t r barret road, 24630 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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Search

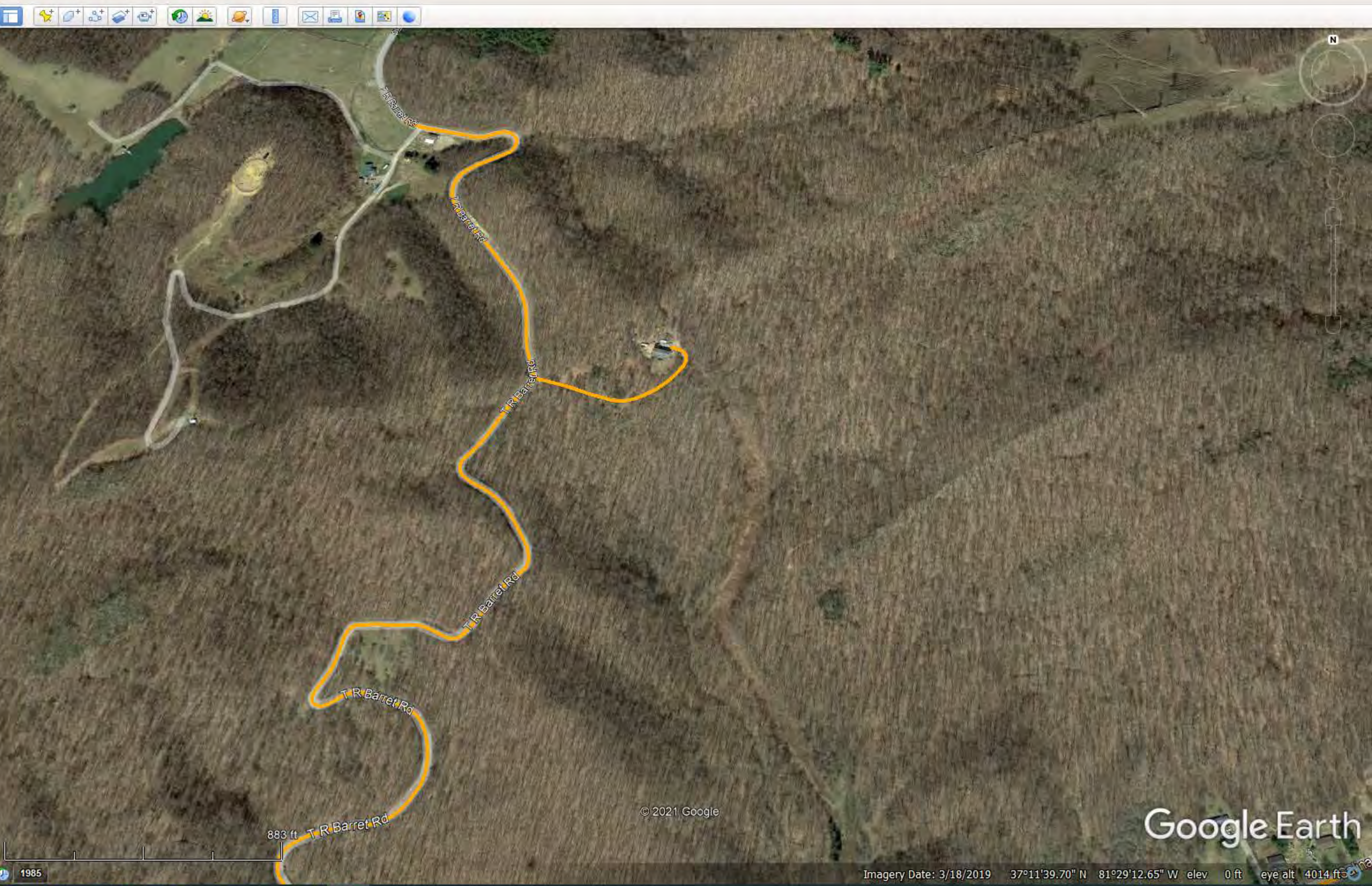
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: salina road, 24630 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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Search

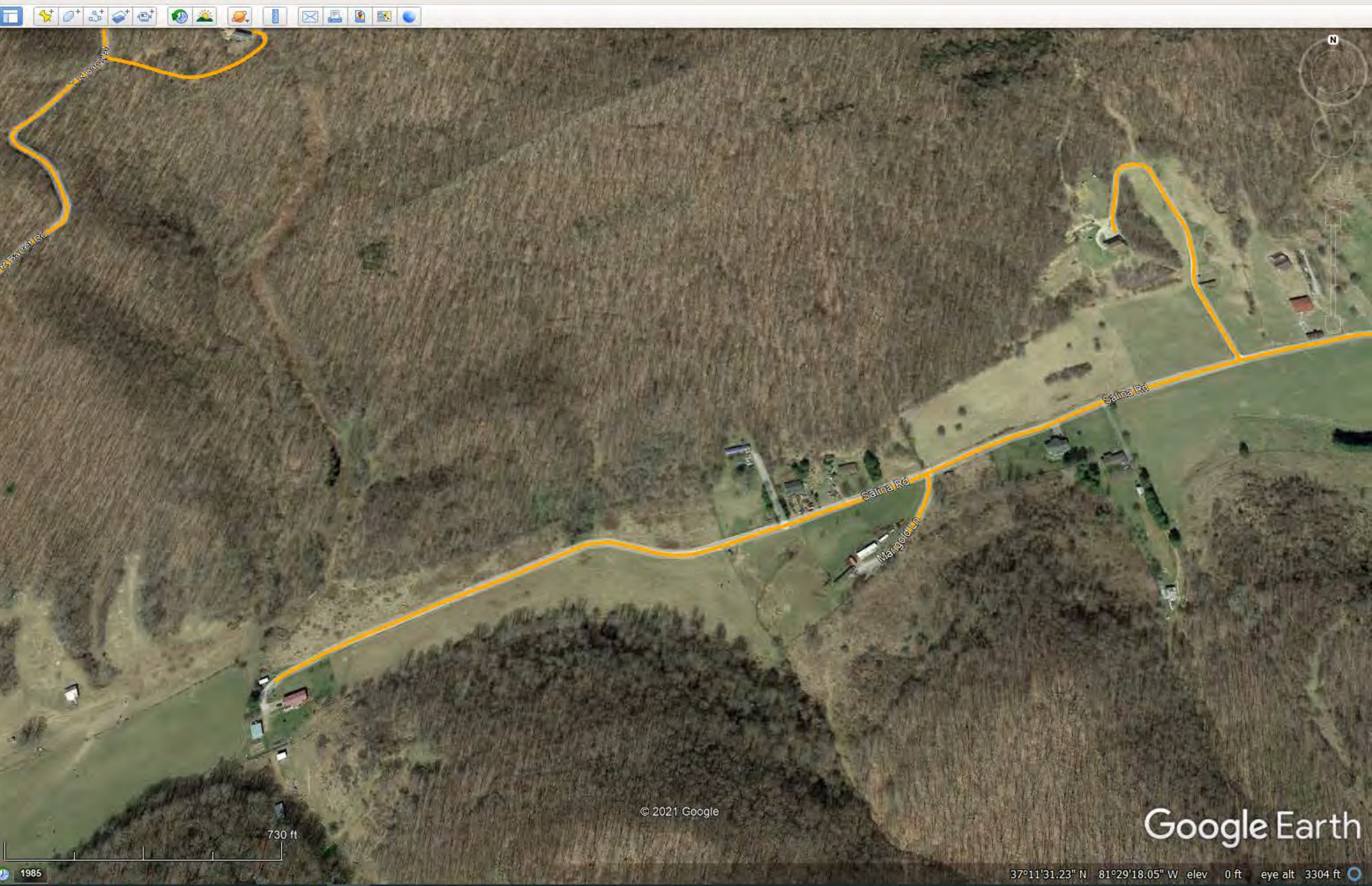
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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1-833-219-4361

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Give us a call to discover your options:  
**1-877-298-8998**

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Search

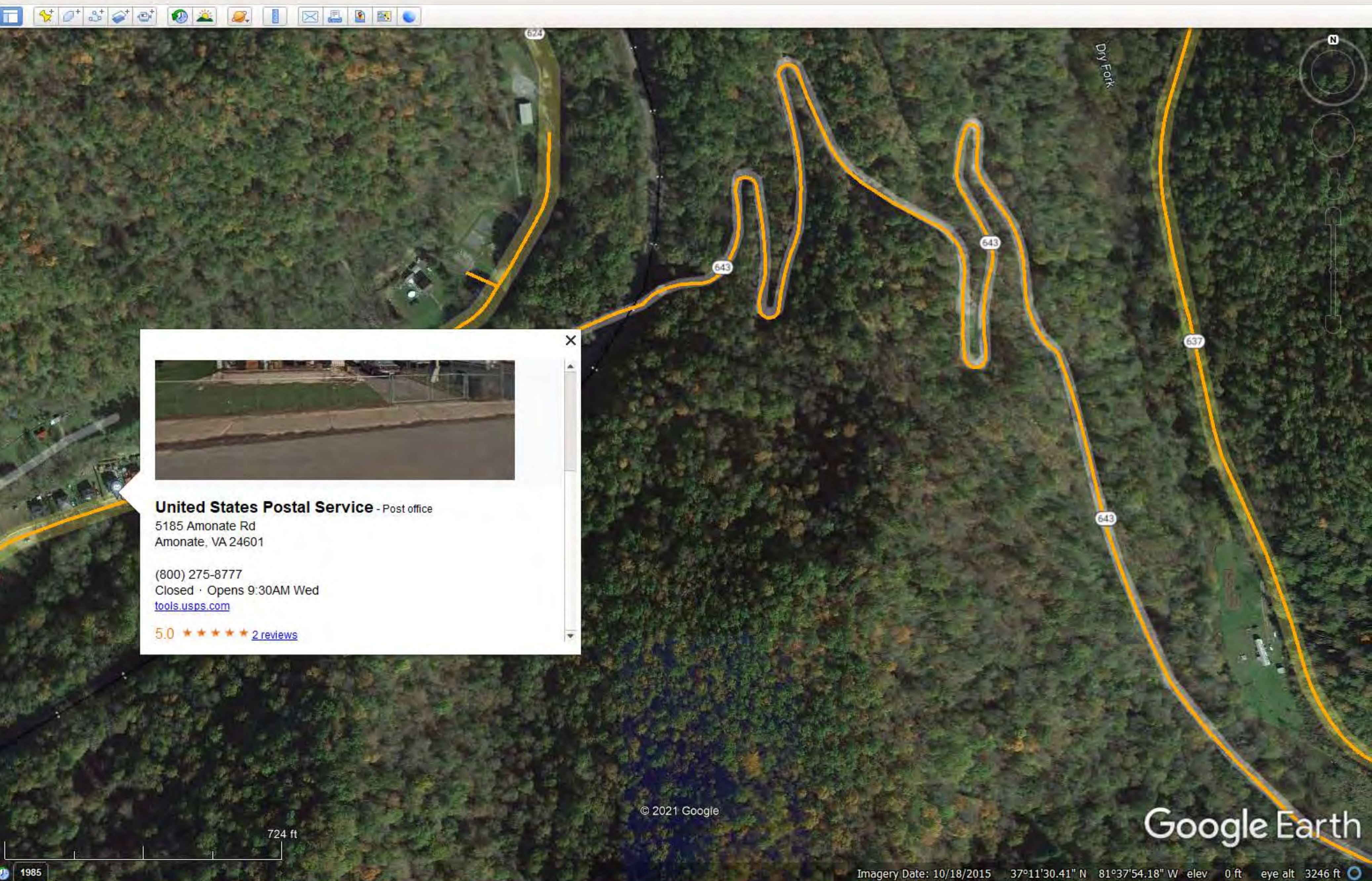
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Places

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**United States Postal Service** - Post office

5185 Amonate Rd  
Amonate, VA 24601

(800) 275-8777  
Closed · Opens 9:30AM Wed  
[tools.usps.com](https://tools.usps.com)

5.0 ★★★★★ [2 reviews](#)





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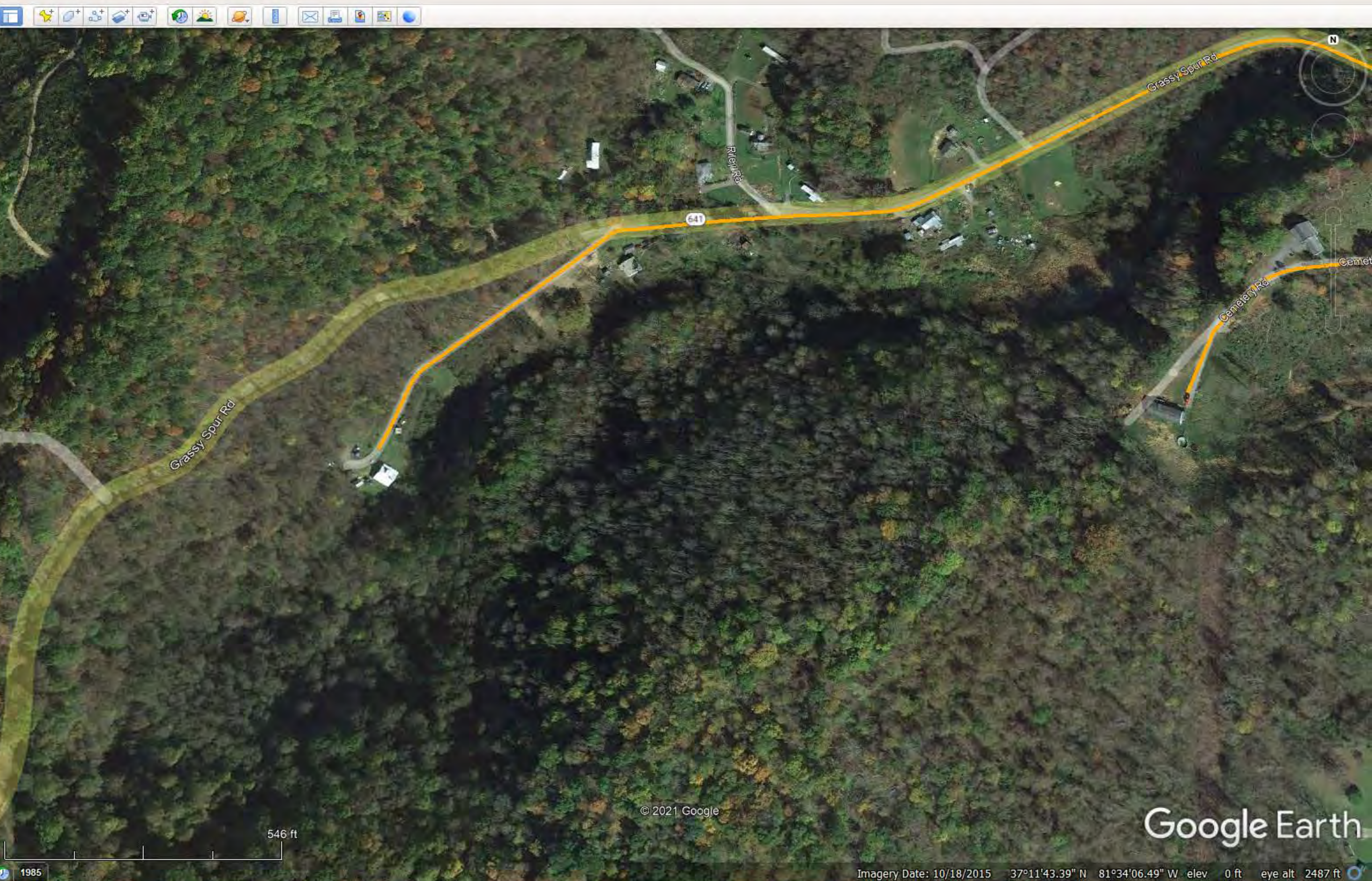
Search

Places

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    - Roads (Outdated)
    - Terrain



Google Earth





1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: serenity road, 24602 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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Search

Search

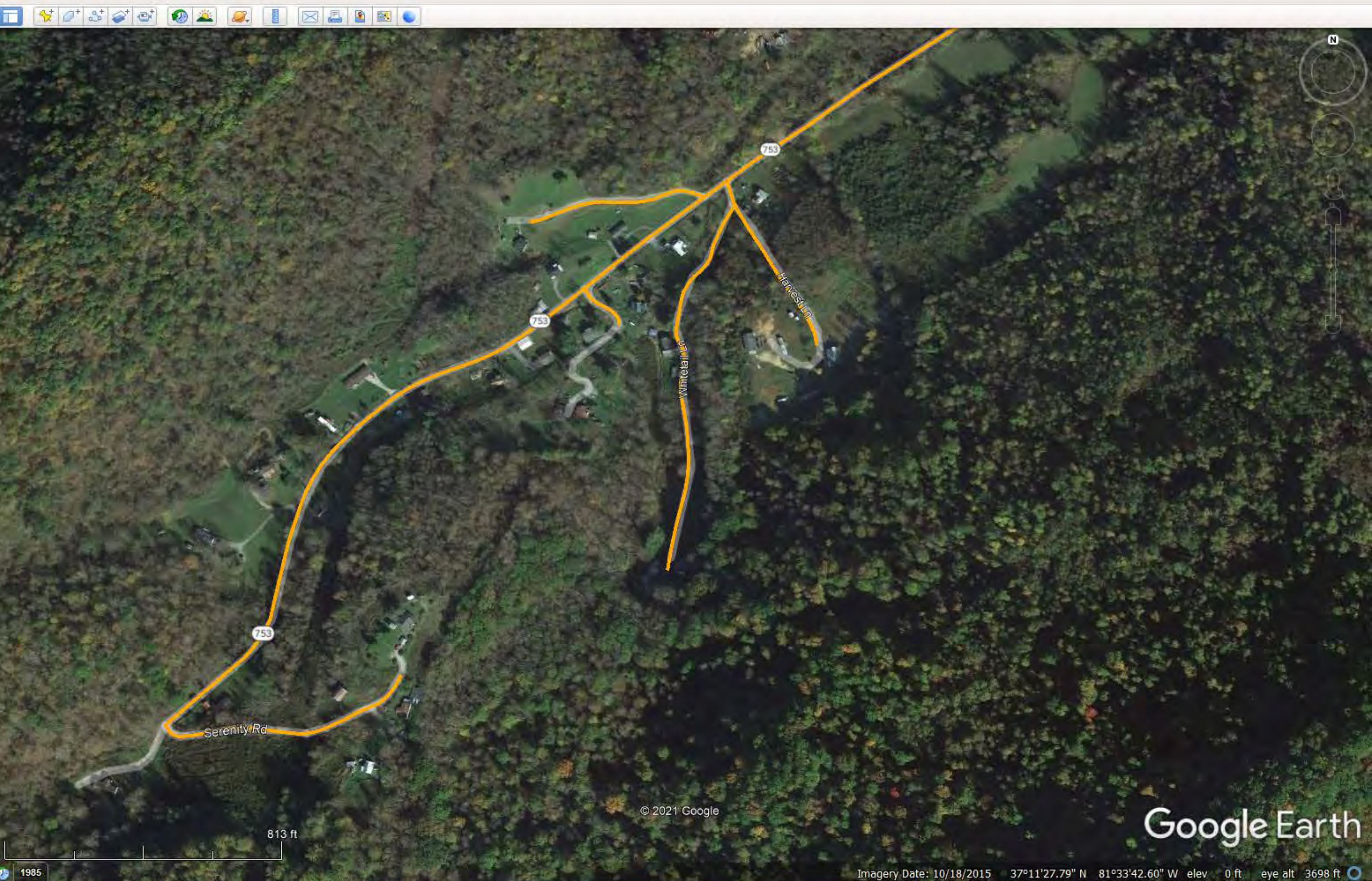
Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
    - VATI CPC
      - CPC Area
        - CPC Area Competitors
        - Tazewell Co Area
        - Russell Co Area
        - Dickenson Co Areas
        - Buchanan Co Areas
        - VA CAFIL
        - Loggy Bottom Ph1
      - Micro Trench
      - Looneys Creek.kmz
      - Looney's Creek 01 22 21.kmz
      - Hurricane Creek.kmz
      - Loggy Bottom Ph1 01 22 21.kmz
      - Pilgrim's Knob Path.kmz
      - LEFT FORK .kmz
      - Lynn Camp.kmz

Layers

- Primary Database
- [New Layers](#)
- Borders and Labels
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- Gallery
- More
- Borders and Labels (Outdated)
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- Roads (Outdated)
- Terrain



Google Earth

Imagery Date: 10/18/2015 37°11'27.79" N 81°33'42.60" W elev 0 ft eye alt 3698 ft





1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: johnson br rd, 24602 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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Google Earth Pro interface showing a map of a wooded area with a yellow boundary line. The interface includes a search bar, a 'Places' panel with a tree view of folders like 'Potential Mount Rogers VATI 2021-22', 'Temporary Places', and 'CPC Area'. A 'Layers' panel is also visible with options like 'Primary Database', 'Borders and Labels', and 'Places'. The map shows a road labeled 'Johnson Br Rd' and a scale bar at the bottom indicating 1314 ft. The Google Earth logo and 'Imagery Date: 10/18/2015' are visible in the bottom right corner of the map area.





1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **Pound Road, 24602** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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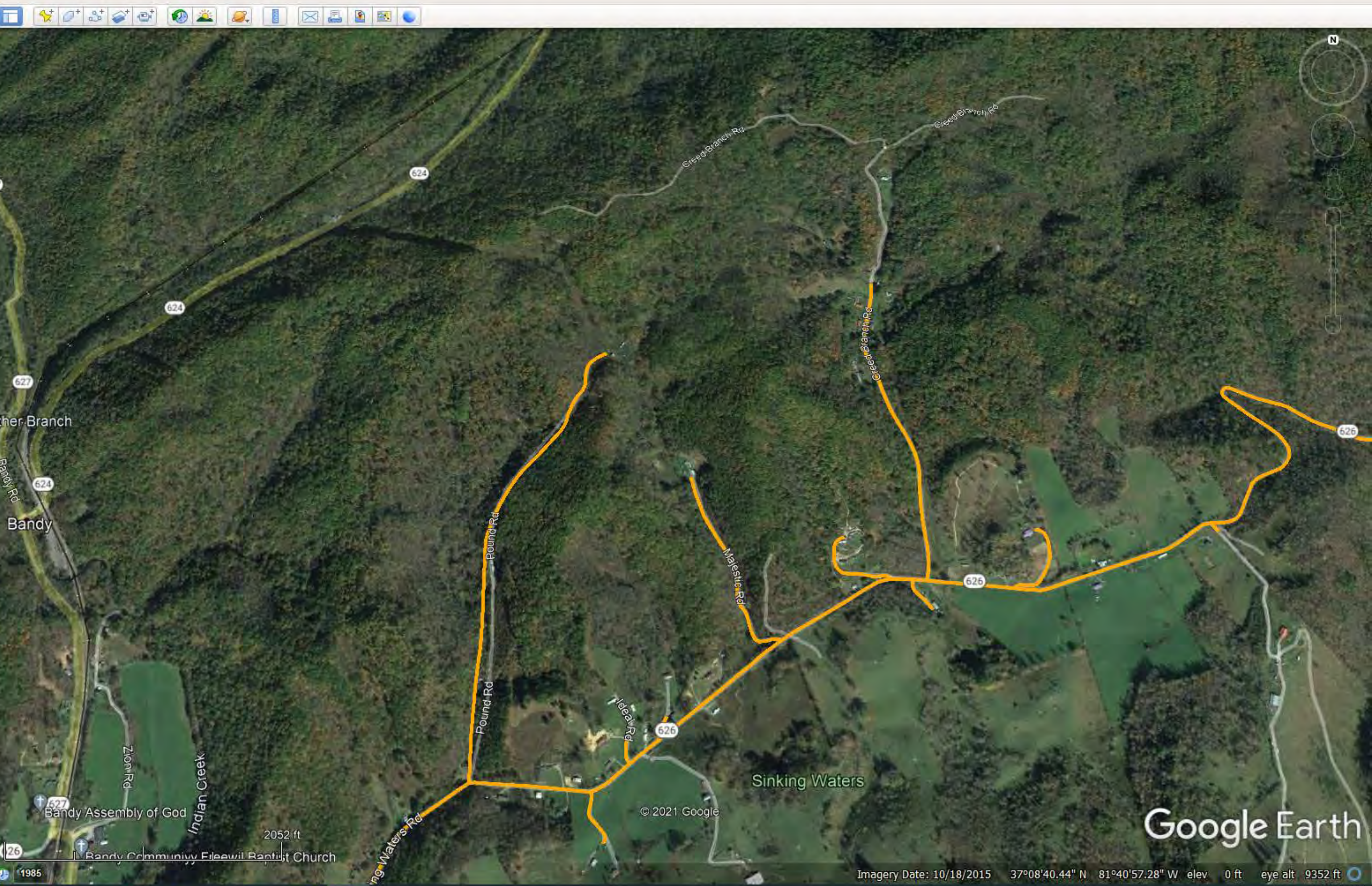
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Search

Get Directions History

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
- Temporary Places
  - VATI CPC Boundary 09 06 21.kmz
  - VATI CPC 08 24 21.kmz
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- Roads (Outdated)
- Terrain






1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **beckley road, 24602** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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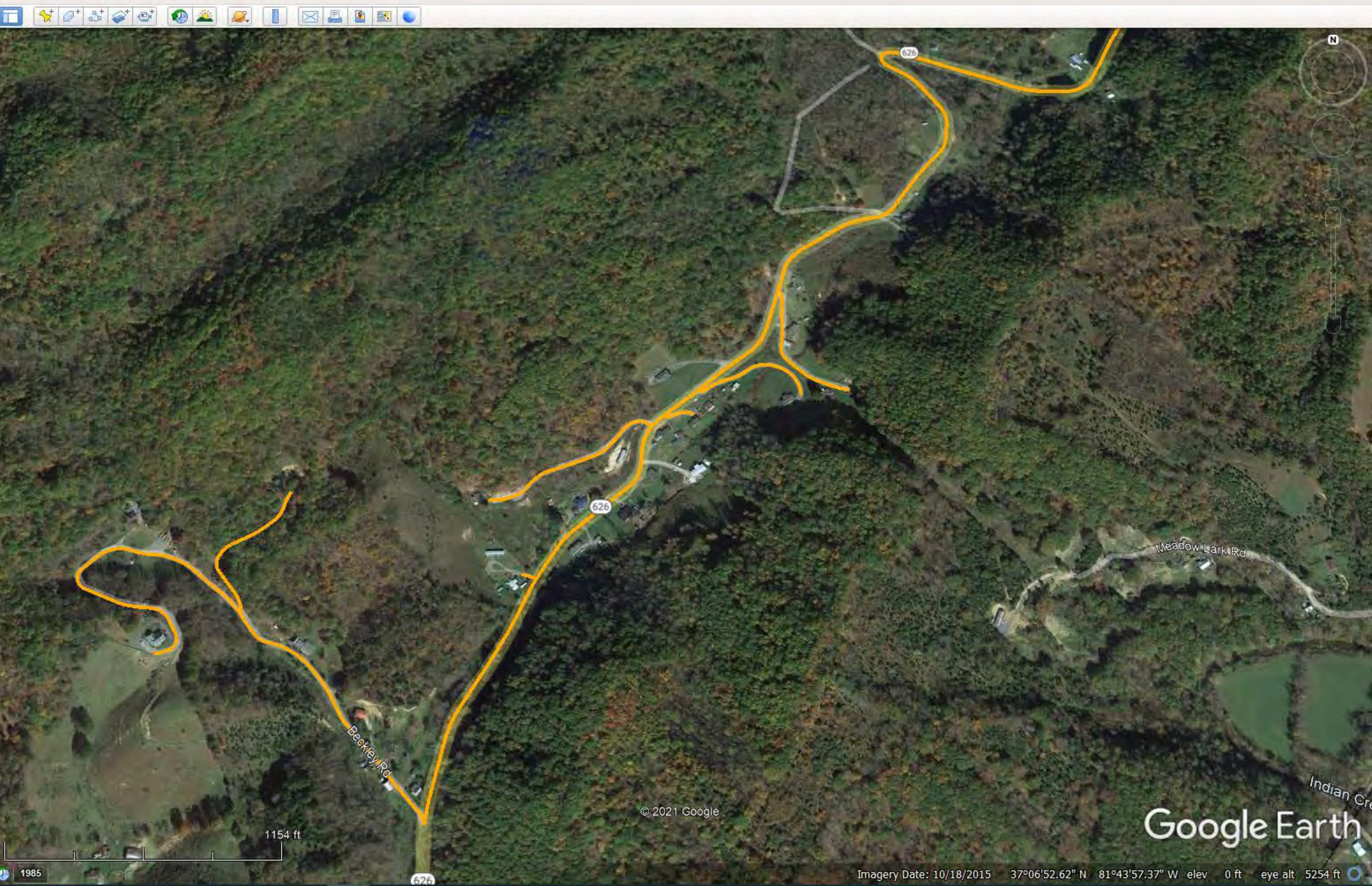
Search

Places

- Potential Mount Rogers VATI 2021-22
- Russell\_Co\_Sec1\_Fiber\_REVISIED\_08\_11\_20.kmz
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: indian paint road, 24637 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **shot mountain road, 24637** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **bucks knob road, 24637** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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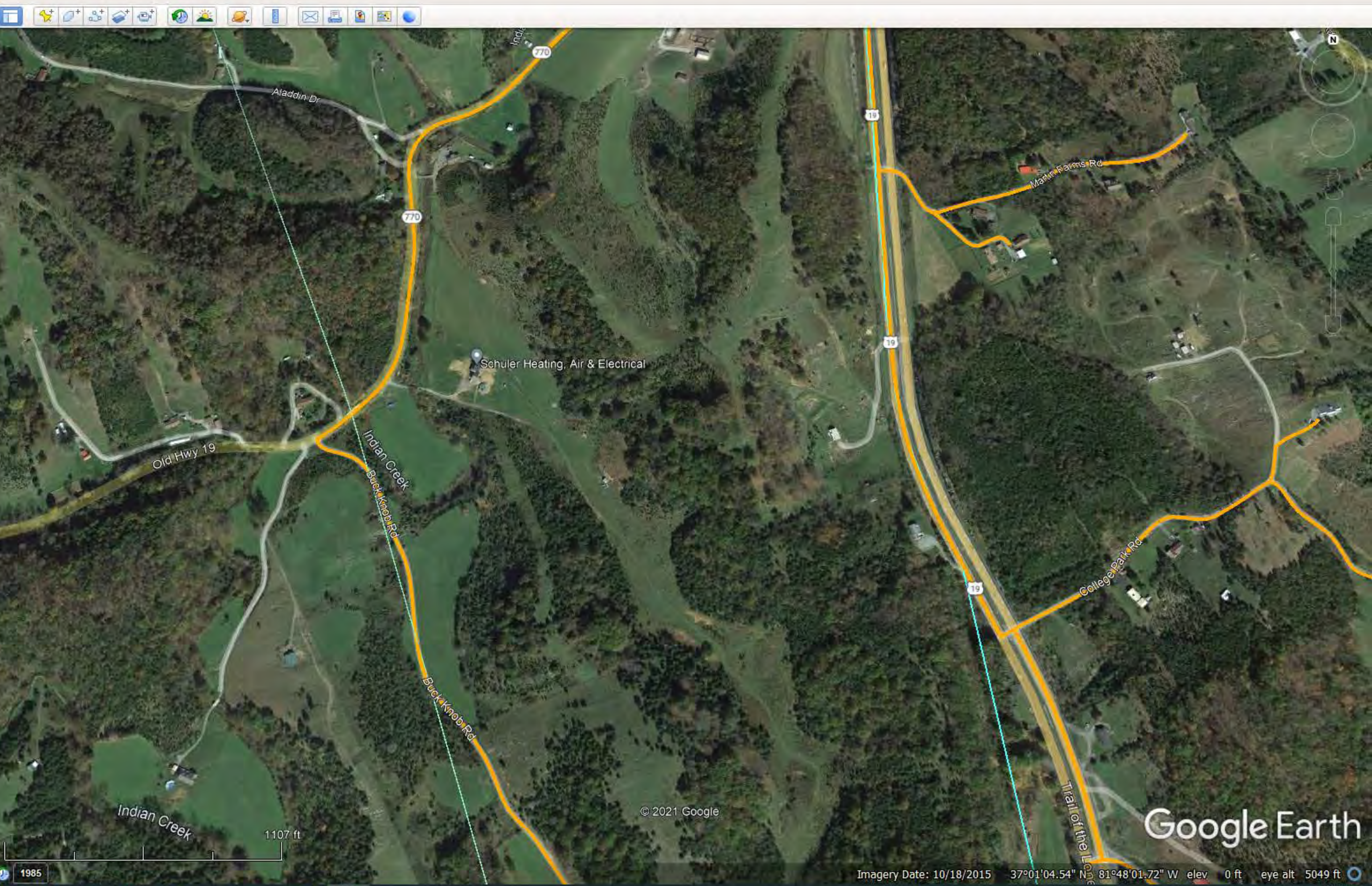
Get Directions History

Places

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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: deer meadows rd, 24637 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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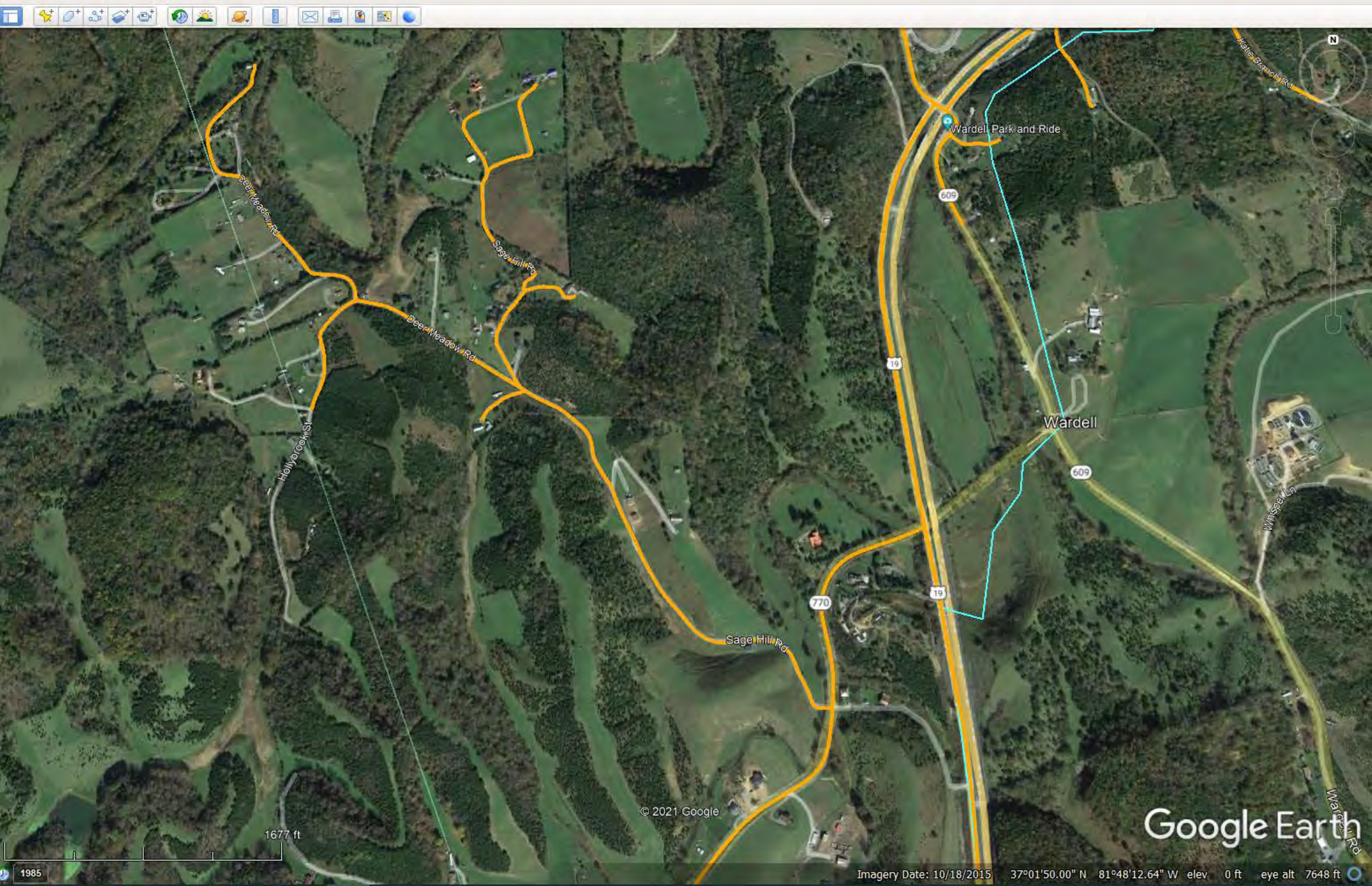
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: ray road, 24637 [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

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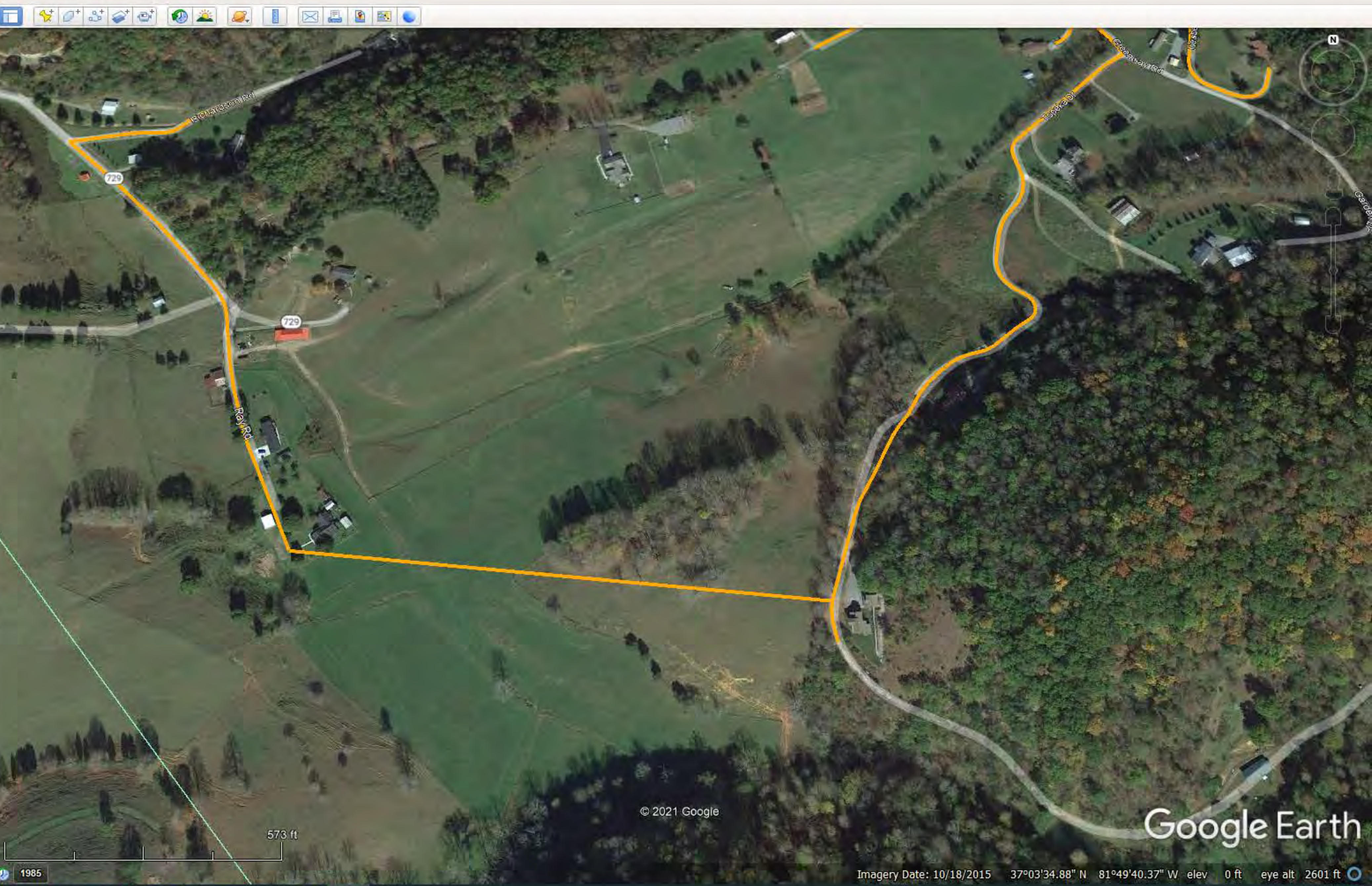
Search

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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **robbins nest ln, 24637** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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Search

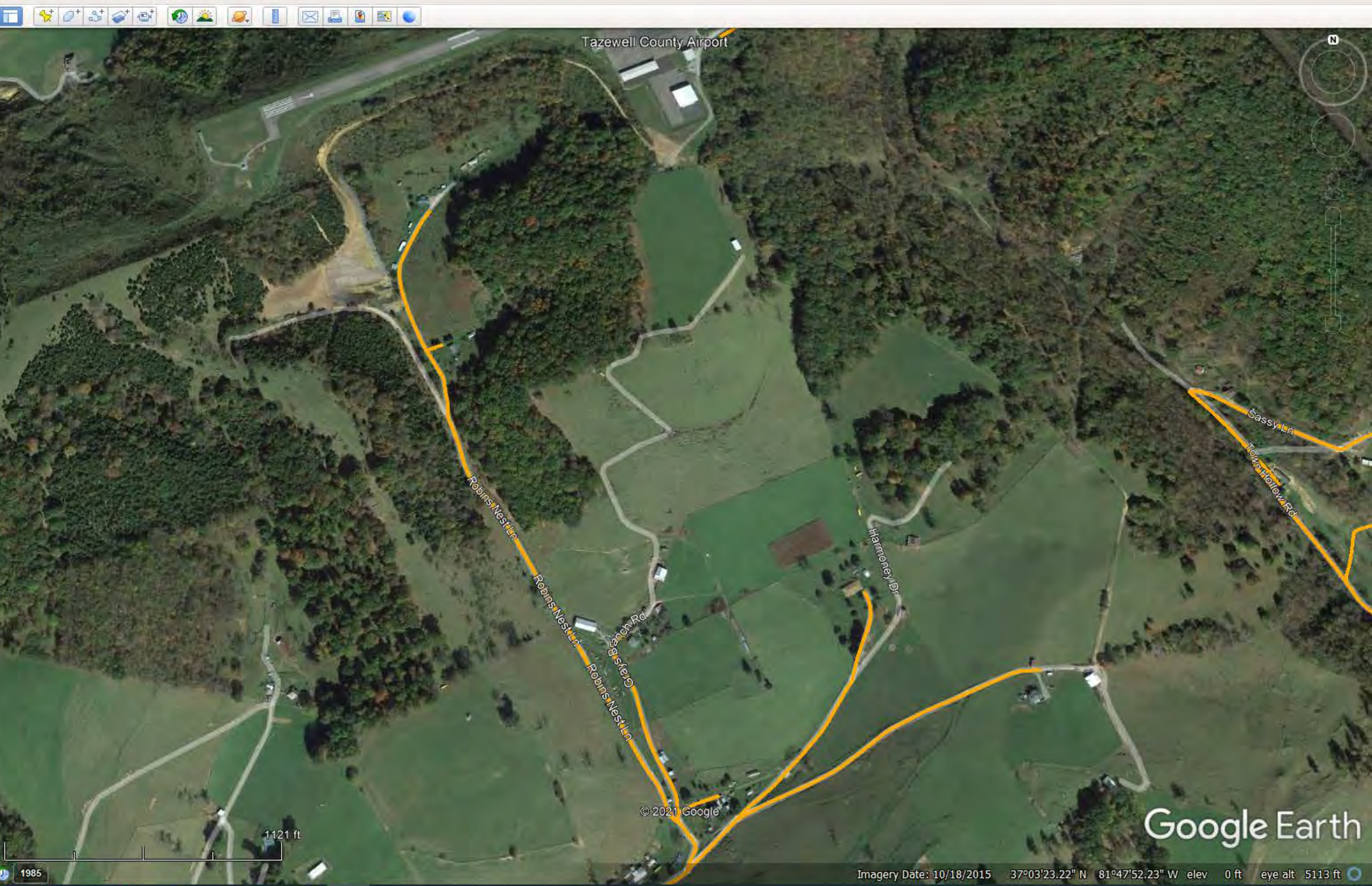
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1-855-261-7308

Start Again

Please call 1-855-640-0893 to verify that Spectrum services are available at the address you provided

You entered: **gorge road, 24637** [edit address](#)

**Spectrum customer support hours:**  
Monday through Sunday  
8AM - 12AM Eastern time

Not all products, pricing, and services are available in all areas. Pricing and actual speeds may vary. Speed based on wired connection. Available Internet speeds may vary by address. Restrictions apply.

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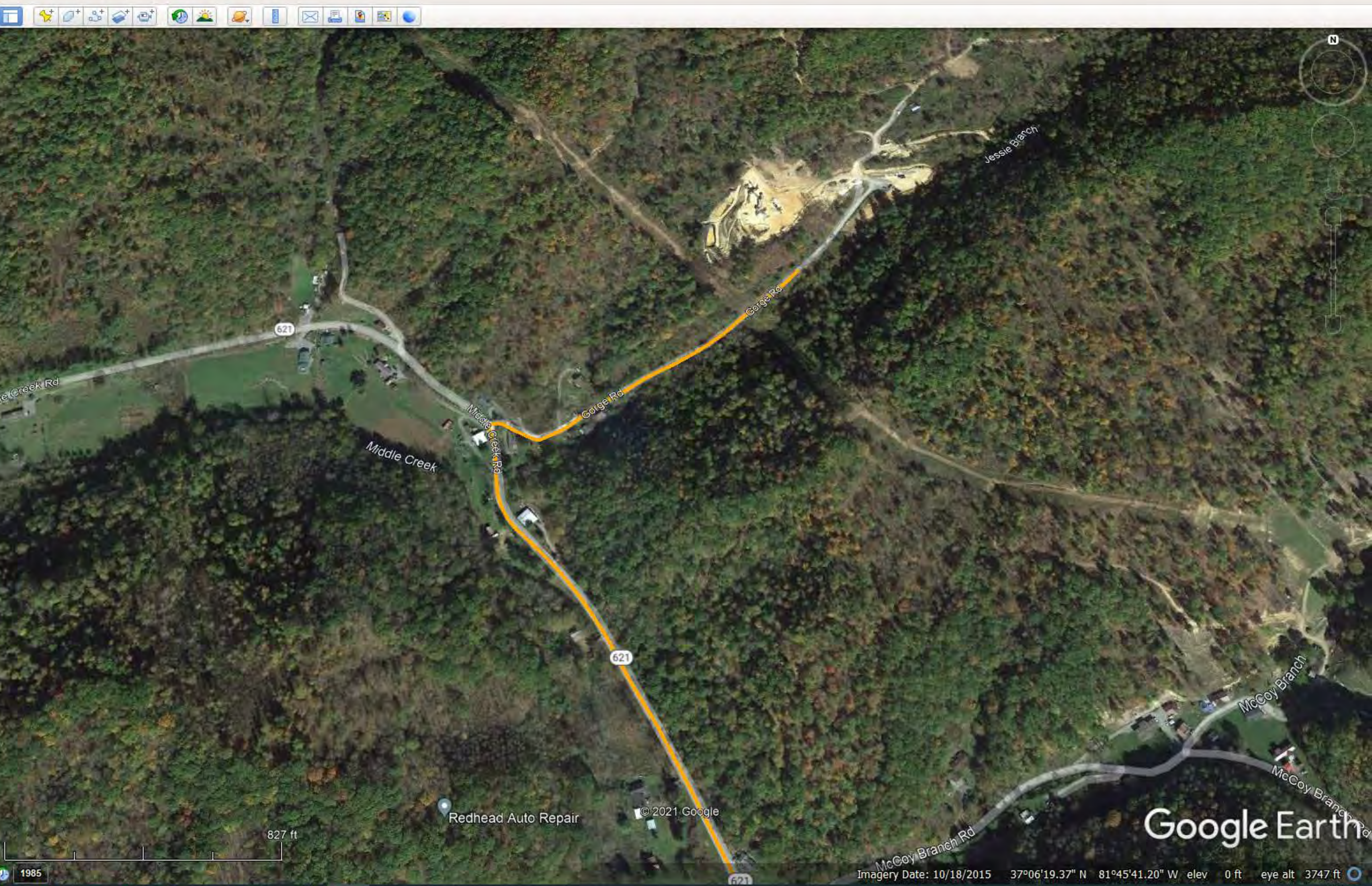
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## 2022 Virginia Telecommunication Initiative (VATI) Passing Form

Type of Passings	Total Number of Passings in the Project Area <sup>1</sup>	Passings in the Project Area, without Special Construction Costs Required <sup>2</sup>	Passings with Special Construction Costs budgeted in the Application <sup>3</sup>	Number of Passings with Speeds at 10/1 or below in Project Area <sup>4</sup>
Residential	12291	0	12291	11080
Businesses (non-home based)	104	0	104	104
Businesses (home-based)	18	0	18	18
Community Anchors	62	0	62	62
Non-residential	149	0	149	149
<b>Total</b>	12624	0	12624	11413

**Note:** The Total Number of Passings **MUST** be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.

**Note:** Do not include passings in RDOF awarded areas that were awarded to the co-applicant; these passings should be included in the RDOF Passings Form. Passings included in this application in RDOF awarded areas that were not awarded to the co-applicant, unless successfully challenged, are considered unserved and should be counted as passings in this form.

<sup>1</sup>The total number of structures in the project area that can receive service. See definition of passing below for more detail.

<sup>2</sup>The number of structures in the project area that will not require special construction costs to provide service to. These passings fall within the broadband provider's standard service connection drop length and do not require nonstandard equipment or any additional fees above normal service connection fees required to provide broadband access to a premise.

<sup>3</sup>The number of structures in the project area with all construction costs budgeted in the application. These passings will not require any additional special construction costs beyond those budgeted for in the VATI application.

<sup>4</sup>The number of structures in the project area that do not have access to internet at speeds of at least 10 mbps download and 1mbps upload.



## Definitions

**Passing** – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

**Business** – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

**Community Anchor** - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

**Non-Residential Passing** – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.





# 2022 CPC VATI

	Primary Column	At Risk	Status	Duration	Start Date	End Date	Project Budget
1					10/01/22	06/30/24	
2	<b>PLANNING</b>						
3	Planning Meeting w/ Department		In Progress	10 Days	09/01/21	09/10/21	
4	KMZ of the Project		Complete	10 Days	08/30/21	09/09/21	
5	Contact Rainbow		Not Started		07/01/22	n/a	
6	<b>Field Engineering</b>						
7	Field Data Collection		Not Started	1 year	07/01/22	10/31/23	
8	Site Survey		Not Started		07/01/22	10/31/23	
9	Premitting Applications		Not Started		07/01/22	10/31/23	
10	Pole Data		Not Started		07/01/22	10/31/23	
11	Make Ready Summary		Not Started		07/01/22	10/31/23	
12	Easements Identified		Not Started		07/01/22	10/31/23	
13	<b>Facilities</b>						
14	Construction Print		Not Started		07/01/22	10/31/23	
15	Splice Package		Not Started		07/01/22	10/31/23	
16	Rainbows BOM		Not Started		07/01/22	10/31/23	
17	Order Materials		Not Started		07/01/22	10/31/23	
18	Feed Fiber		Not Started		07/01/22	10/31/23	
19	POP Equipment		Not Started		07/01/22	10/31/23	
20	Estimate Workbook		Not Started		07/01/22	10/31/23	
21	Job Approval		Not Started		07/01/22	10/31/23	
22	<b>Permits &amp; Make-Ready</b>						
23	Permit Application & Invoicing		Not Started		07/01/22	10/31/23	
24	Towns or City Permit		Not Started		07/01/22	10/31/23	
25	VDOT Permits		Not Started		07/01/22	10/31/23	
26	Make Ready Construction		Not Started		07/01/22	10/31/23	



	Primary Column	At Risk	Status	Duration	Start Date	End Date	Project Budget
27	RXR		Not Started		07/01/22	10/31/23	
28	AEP		Not Started		07/01/22	10/31/23	
29	Verizon		Not Started		07/01/22	10/31/23	
30	PVEC		Not Started		07/01/22	10/31/23	
31	ODP		Not Started		07/01/22	10/31/23	
32	<b>Construction Task</b>						
33	Review Job Package w/ Contractor		Not Started		10/01/22	10/31/23	
34	Materials Request		Not Started		07/01/22	10/31/23	
35	Stage Job Materials		Not Started		07/01/22	10/31/23	
36	Assign a Start/Finish Date		Not Started		08/01/22	10/31/23	
37	Equipment for POP installed		Not Started		08/01/22	05/31/24	
38	Make-Ready Complete		Not Started		08/01/22	05/31/24	
39	Clearing		Not Started		08/01/22	05/31/24	
40	Total Strand Built		Not Started		08/01/22	05/31/24	
41	Total Fiber Lashed		Not Started		08/01/22	05/31/24	
42	Cabinets Set		Not Started		08/01/22	05/31/24	
43	Underground Bore		Not Started		08/01/22	05/31/24	
44	Underground Trench		Not Started		08/01/22	05/31/24	
45	Vault Set		Not Started		08/01/22	05/31/24	
46	Anchors Installed		Not Started		08/01/22	05/31/24	
47	Road Crossing		Not Started		08/01/22	05/31/24	
48	Feed Fibers Spliced		Not Started		08/01/22	05/31/24	
49	Cans Spliced		Not Started		08/01/22	05/31/24	
50	NAPS Installed		Not Started		08/01/22	05/31/24	
51	Cabinet OTDR Shots		Not Started		08/01/22	05/31/24	
52	Splicing Pics		Not Started		08/01/22	05/31/24	
53	Redlines		Not Started		08/01/22	05/31/24	
54	E7 Install		Not Started		08/01/22	05/31/24	



	Primary Column	At Risk	Status	Duration	Start Date	End Date	Project Budget
55	Cabinet Splitters Installed		Not Started		08/01/22	05/31/24	
56	Close Out						



**EXECUTION VERSION**

**CPC OPTINET OPERATOR AGREEMENT**

**BY AND AMONG**

**CUMBERLAND PLATEAU PLANNING DISTRICT COMMISSION,**

**CUMBERLAND PLATEAU COMPANY, INC.,**

**SUNSET DIGITAL HOLDING, LLC,**

**SUNSET DIGITAL COMMUNICATIONS, LLC**

**AND**

**SUNSET FIBER, LLC**

**DATED**

**AUGUST \_\_, 2018**



## CPC OPTINET OPERATOR AGREEMENT

This CPC OptiNet Operator Agreement (the “**Agreement**”) dated as of August \_\_, 2018 and effective as of the closing of the Transaction (defined below) (the “**Effective Date**”), by and among the Cumberland Plateau Planning District Commission, a planning district commission and political subdivision of the Commonwealth of Virginia organized pursuant to Section 15.2-4200 *et seq.* of the Code (“**CPPDC**”), the Cumberland Plateau Company, Inc., a nonstock corporation organized under the laws of the Commonwealth of Virginia by CPPDC (“**CPC**”) (CPPDC and CPC, collectively the “**Cumberland Plateau Parties**”), Sunset Digital Holding, LLC, a Delaware limited liability company (“**Sunset Holding**”), Sunset Digital Communications, LLC, a Delaware limited liability company (Sunset Digital”) and Sunset Fiber, LLC, a Delaware limited liability company (collectively “**Sunset**”) (CPPDC, CPC, Sunset Holding, Sunset Digital and Sunset Fiber each a “**Party**”, collectively, the “**Parties**”), provides as follows:

### RECITALS

**WHEREAS**, the Cumberland Plateau Parties together with the BVU Authority, a political subdivision of the Commonwealth of Virginia (“**BVU Authority**”), constructed a broadband fiber optic backbone (the “**CPC OptiNet**”) for the delivery of telephone, data, and other telecommunications services to the four Virginia Counties of Buchanan, Dickenson, Russell, and Tazewell and certain adjoining counties and communities (collectively, the “**Cumberland Plateau Region**”); and,

**WHEREAS**, the Cumberland Plateau Parties and the BVU Authority entered into that certain CPC OptiNet Agreement dated August 26, 2004, as amended March 21, 2006, as amended and restated August 26, 2010 (the “**2010 Agreement**”), and as further amended February 23, 2012 (collectively the 2010 Agreement, as amended, the “**CPC OptiNet Agreement**”); and,

**WHEREAS**, the Virginia Tobacco Region Revitalization Commission (“**Tobacco Commission**”) has invested significant resources into the development of the CPC OptiNet within the Cumberland Plateau Region, including Grant Numbers 501, 962, 1185, 1303, 1471, 1768, 1811, 2070, and 2391 and desires to see the continued growth and operation of the CPC OptiNet; and,

**WHEREAS**, the Virginia Coalfield Coalition, Inc., a Virginia nonstock corporation (“**VCC**”), the board of directors of which is appointed one-half by CPPDC and one-half by the LENOWISCO Planning District Commission, served as a grant recipient for certain funds deployed to build a portion of the CPC OptiNet; and,

**WHEREAS**, as a result of the purchase of the assets of the OptiNet division of the BVU Authority by Sunset (the “**Transaction**”), a portion of the CPC OptiNet is now jointly co-owned by Sunset and the Cumberland Plateau Parties (recognizing that a portion of the CPC OptiNet was funded by the EDA-VCC Grant and is owned by the VCC), the Parties now desire to establish the terms and conditions for the operation of the CPC OptiNet recognizing that certain specific conditions related to the grants utilized to construct the CPC OptiNet continue to apply to portions of the CPC OptiNet; and,

**WHEREAS**, the Parties desire to confirm the ownership of the assets comprising the CPC OptiNet both on the date of this Agreement and in the future; and,

**WHEREAS**, the Parties desire to reaffirm the goal of deploying the CPC OptiNet for job creation and economic development while beginning to connect residential customers; and,

**WHEREAS**, Sunset and the Cumberland Plateau Parties desire to replace the CPC OptiNet Agreement with this Agreement;

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:



**SECTION 1. DEFINITIONS.**

**“Adjustment Rate”** has the meaning set forth in Section 8(b).

**“Backbone”** means the transmission trunk line over which signals travel from one POP to another POP, and from which Distribution lines are deployed.

**“BTOP Grant”** means that certain grant by the NTIA pursuant to Grant Number NT10BIX5570066 as set forth in that certain Financial Assistance Award dated July 1, 2010 for the project known as *“The Southwest Virginia Middle Mile Project.”*

**“BVU Authority”** has the meaning set forth in the Recitals.

**“Business Day”** means a day other than a Saturday, Sunday or other day on which commercial banks in the Commonwealth of Virginia are authorized or required by law to close.

**“CFO Certification”** has the meaning set forth in Section 10(A)(1).

**“Code”** means the Code of Virginia of 1950, as amended.

**“Confidential Information”** means all written and verbal proprietary or confidential communications among the Parties and all plans, documents, materials and data provided by each Party to another Party in connection with and related to the CPC OptiNet, including the existence of discussions about the improvement of the CPC OptiNet or deployment of the CPC OptiNet, from time-to-time; *provided, however,* Sunset shall identify which written or verbal communications are proprietary and/or confidential and which provision(s) of the Virginia Freedom of Information Act is/are applicable to such proprietary and/or confidential information upon the delivery of confidential information to the Cumberland Plateau Parties.

**“CPC”** has the meaning set forth in the Recitals.

**“CPC Electronics”** has the meaning set forth in Section 2(B)(1)(a).

**“CPC Fibers”** has the meaning set forth in Section 2(B)(1)(a).

**“CPC OptiNet”** has the meaning set forth in the Recitals.

**“CPC OptiNet Agreement”** has the meaning set forth in the Recitals.

**“CPPDC”** has the meaning set forth in the Recitals.

**“Cumberland Plateau Interest”** has the meaning set forth in Section 2(B)(1)(a).

**“Cumberland Plateau Parties”** has the meaning set forth in the Recitals.

**“Cumberland Plateau Region”** has the meaning set forth in the Recitals.

**“Distribution”** means the fiber or line which links the Backbone to neighborhoods or businesses, and over which signals travel from the Backbone to the Last Mile.

**“EDA”** means the United States Economic Development Administration.



**“EDA Grants”** means the following:

(i) EDA grant number 01-79-07886 issued to the BVU Authority and CPC pursuant to that certain Financial Assistance Award dated May 28, 2003 in an amount not to exceed One Million Six Hundred Fifty-Five Thousand Dollars (\$1,655,000.00) for the installation of fifty-one (51) miles of fiber optic backbone through the Virginia Counties of Russell and Tazewell, (**“EDA Grant 07886”**);

(ii) EDA grant number 01-01-08480 issued to the BVU Authority and CPC pursuant to that certain Financial Assistance Award dated June 20, 2007 in an amount not to exceed One Million Five Hundred Fifty Thousand Dollars (\$1,550,000.00) for the installation of forty-five (45) miles of advanced fiber optic backbone cable through the Virginia Counties of Buchanan and Dickenson (**“EDA Grant 08480”**); and,

(iii) EDA grant number 01-01-08739 issued to the BVU Authority and CPC pursuant to that certain Financial Assistance Award dated September 18, 2009 in an amount not to exceed One Million Two Hundred Eighty-Seven Thousand Dollars (\$1,287,000.00) for the installation of the forty (40) mile expansion of the fiber optic backbone through the Virginia Counties of Dickenson and Russell (comprised of two sections: (1) a twenty-six (26) mile segment from St. Paul, Virginia to Fremont, Virginia and (2) a fourteen (14) mile segment from Honaker, Virginia to Raven, Virginia (**“EDA Grant 08739”**)) (collectively, EDA Grant 07886, EDA Grant 08480, and EDA Grant 08739, the **“EDA Grants”**).

**“EDA Letter”** means that certain letter from Linda Cruz-Carnall to Don Bowman dated December 21, 2016 (re: Release of EDA Federal Interest in Three Grant Awards to Bristol Virginia Utilities Authority (EDA Grant Nos. 01-79-07886, 01-01-08480, and 01-01-08739) attached hereto as Exhibit A.

**“EDA-VCC Grant”** means the funds the VCC received from the EDA for the construction of a portion of the CPC OptiNet pursuant to that certain grant number 01-01-08271 of the EDA issued to VCC pursuant to that certain Financial Assistance Award dated December 20, 2005 in an amount not to exceed Three Million Dollars (\$3,000,000.00) for the installation of One Hundred Fifty-Five (155) miles of fiber optic backbone through the City of Norton, Virginia and six Southwest Virginia counties and commonly referred to as EDA grant number two.

**“Effective Date”** has the meaning set forth in the Preamble.

**“Extraordinary Connection Request”** means a new installment request that does not have a financial break-even return on investment (*i.e.*, taking into consideration the cost of connection as reasonably determined by Sunset) by the end of Twenty-Four (24) months or that has a capital investment requirement that is not commercially reasonable based upon market standards.

**“FCC”** means the United States Federal Communications Commission.

**“Federal Share”** means the current fair market value of real, personal or mixed property in the CPC OptiNet that is attributable to EDA’s investment in the CPC OptiNet via the EDA Grants and any program income generated and reinvested from that investment, as more fully described in 13 CFR § 314.5.

**“Force Majeure”** has the meaning set forth in Section 24(J).

**“Grant Funds”** means funds provided by the EDA, NTIA, Tobacco Commission, and certain federal and state agencies through grants to the VCC and the Cumberland Plateau Parties.

**“Gross Revenue”** means the total of any and all funds from sales and services received from customers utilizing the CPC OptiNet, including receipts from customers connected to the CPC OptiNet by Sunset-owned infrastructure, less any chargebacks, rebates, cash discounts, surcharges, taxes (unrelated to local property taxes), or local, state or federal regulatory fees and charges. For the sake of clarity, Gross Revenue shall include receipts from customers of the CPC OptiNet on the portion of the CPC OptiNet from the Point of Presence located at the



intersection of Main Street and Routes 58 and 19 in the Town of Abingdon, Virginia, continuing to the Russell County, Virginia line, including the Brumley Gap area customers.

“**ITC**” means ITC Capital Partners, LLC, a Delaware limited liability company.

“**ITC Commitment Letter**” means that certain letter attached hereto as Exhibit B.

“**Immediate Family**” shall mean a spouse, lineal descendant, father, mother, brother, or sister, including “in-laws” and adopted children.

“**Initial Rate**” has the meaning set forth in Section 8(A)(1).

“**Intellectual Property Rights**” means worldwide common law and statutory rights associated with: (i) patents and patent applications; (ii) works of authorship, copyrights, copyright applications, copyright registrations and other rights; (iii) the protection of trade and industrial secrets and confidential information; (iv) trademarks, service marks, slogans, logos, sound marks, motion marks, trade dress, domain names, trade names, corporate names, or indicia of the same; (v) other proprietary rights relating to the rights to items (i) through (iv); and (vi) divisions, continuations, renewals, re-issuances and extensions of the rights set forth in items (i) through (v), now existing or hereafter filed, issued, or acquired.

“**IPTV**” means Internet Protocol television.

“**IRU**” has the meaning set forth in Section 2(B)(5)(c).

“**Last Mile**” means the line or other medium through which signals travel in the neighborhood or business area from the Distribution line to the end user’s premises.

“**LENOWISCO**” means the LENOWISCO Planning District Commission, a planning district commission and political subdivision of the Commonwealth of Virginia organized pursuant to Section 15.2-4200 *et seq.* of the Code for the Virginia Counties of Lee Wise and Scott, and the City of Norton, Virginia.

“**New Connection Commitment**” has the meaning set forth in Section 4(C)(1).

“**NTIA**” means the National Telecommunications and Information Administration.

“**NTIA Letter**” means that certain letter from Arlene Simpson Porter to Cameron S. Bell dated December 29, 2016 (re: BTOP Grant Award Number: NT10BIX5570066 Bristol Virginia Utilities Authority Request to Transfer BTOP-Funded Equipment) attached hereto as Exhibit C.

“**Operating Responsibilities**” means all pre-grant allocation planning, including business plan evaluation and technical project architecture decisions, engineering, including preliminary engineering, procurement, including procurement for grants awarded to or administered by the Cumberland Plateau Parties, Sunset or the VCC, advertisement, signage, acquisitions, construction contracts, materials acquisition contracts, construction and construction supervision, pole attachment and fiber burying contracts and permits acquisition, equipment maintenance contracts and acquisition and construction of fiber system, including Backbone, Distribution, Last Mile, POP and equipment maintenance, and provision of all services provided over and through the system, including cable provided directly or indirectly when permitted and economically feasible and all and any other acts that are done in the creation and operation of any part of the fiber system and any services provided through said system in the Cumberland Plateau Region.

“**Point of Presence**” or “**POP**” means a location housing electronics, where signals originate and terminate, to and from Backbone lines and or Distribution lines.



**“Premises”** means a residence, commercial building, multi-dwelling unit, or buildable lot that can be feasibly and reasonably served by the CPC OptiNet.

**“Project”** means the construction, maintenance and provision of services over equipment and fiber paid for by any single grant or loan.

**“Qualified and Documented”** with respect to any potential customer of the CPC OptiNet shall mean a credit worthy potential customer who has provided written documentation of such interest by execution of a contract for service.

**“Quarterly Payment”** has the meaning set forth in Section 8(A)(3)(a).

**“Rate”** has the meaning set forth in Section 8(A)(3).

**“Standard Rate”** has the meaning set forth in Section 8(A)(3).

**“Sunset”** has the meaning set forth in the Recitals.

**“Sunset EDA Interest”** has the meaning set forth in Section 2(B)(3)(a).

**“Sunset NTIA Assets”** has the meaning set forth in Section 2(B)(3)(b).

**“Sunset Services”** has the meaning set forth in Section 6(A)(2).

**“Term”** has the meaning set forth in Section 11(A).

**“Threshold Event”** means the deployment by Sunset of Three Million Two Hundred Fifty Thousand Dollars (\$3,250,000.00) of the New Connection Commitment.

**“Tobacco Commission”** means the Virginia Tobacco Region Revitalization Commission, a political subdivision of the Commonwealth of Virginia chartered by Section 3.2-3100 *et seq.*

**“Transaction”** means the purchase of the ownership interests, assets and business of the OptiNet division of the BVU Authority by Sunset.

**“VCC”** has the meaning set forth in the Recitals.

**“VCC Assets”** means fiber optic assets of the VCC that were funded by the EDA-VCC Grant.

**“VCEDA”** means the Virginia Coalfield Economic Development Authority.

**“VTC Grants”** has the meaning set forth in Section 2(B)(4)(a).

## **SECTION 2. THE CPC OPTINET.**

### **A. CPC OptiNet Background.**

(1) Description. The CPC OptiNet is a contiguous array of broadband fiber and related electronics and support equipment, which exists in the Cumberland Plateau Region. The CPC OptiNet was constructed with Grant Funds, investments by the BVU Authority, and the reinvestment of funds from the operation of the CPC OptiNet. The CPC OptiNet is comprised of assets (a) owned outright by each of the Cumberland Plateau Parties, the VCC, and Sunset and (b) assets owned jointly by the Cumberland Plateau Parties and Sunset. For certain



assets in the CPC OptiNet, the ownership interests of the Cumberland Plateau Parties, the VCC and Sunset are subject to reversionary interests of the EDA, NTIA and Tobacco Commission.

(2) Growth and Deployment of Network. Originally conceived of by the Cumberland Plateau Parties, the CPC OptiNet network has grown to become a vital telecommunications infrastructure in the Cumberland Plateau Region focused on job creation and economic development. The Cumberland Plateau Parties desire to continue the growth and deployment of the network and continue the preservation of the CPC OptiNet as a vital infrastructure resource for the Cumberland Plateau Region.

(3) Required Consents. The Parties acknowledge that the EDA, NTIA, Tobacco Commission, and VCC have each consented to the Transaction and to this Agreement and that no further consents are required.

(A) NTIA Approval. Pursuant to the NTIA Letter, the NTIA granted a waiver for the completion of the Transaction conditioned on the ongoing applicability of the grant requirements and conditions affecting the assets funded by the NTIA, which Sunset has agreed to accept as of the Effective Date.

(B) EDA Approval. Pursuant to the EDA Letter, the EDA granted a conditional approval for the sale of the ownership interest of BVU Authority in the EDA-funded assets to Sunset, noting that EDA grant conditions continued to apply to the ownership interest in the EDA-funded assets held by the Cumberland Plateau Parties.

(C) VCC Approval. As reflected in the *"Consent of Virginia Coalfield Coalition"* attached hereto as Exhibit D, the VCC granted its approval and consent to the Cumberland Plateau Parties entering this Agreement, and to Sunset assuming operational responsibilities for the VCC-owned portion of the CPC OptiNet.

B. Ownership Rights of the Parties.

(1) Assets of Cumberland Plateau Entities.

(a) Cumberland Plateau Entities Ownership. The Cumberland Plateau Parties own a joint undivided Fifty Percent (50%) ownership interest in the assets funded by the EDA Grants ("**Cumberland Plateau Interest**"), which includes Fifty Percent (50%) of: (1) the assets funded by the EDA Grants including the electronic equipment ("**CPC Electronics**"), and (2) the fiber strands funded by the EDA ("**CPC Fibers**").

(b) Grant Conditions. Any conditions resulting from the receipt of Grant Funds affecting the assets of the Cumberland Plateau Parties remain as set forth in such conditions and are the responsibility of the Cumberland Plateau Parties or the VCC.

(c) Replacement of Grant-Funded Assets.

(1) During the operation of the CPC OptiNet, consistent with EDA guidelines and requirements, Sunset may remove electronic equipment from service and dispose of same in the normal course of business.

(2) Sunset shall take all available reasonable and customary actions to recognize the value of such retired asset, either through resale, salvage or scrap, and at least half of any value so recovered shall be (1) reinvested in the CPC OptiNet or (2) delivered to the Cumberland Plateau Parties together with an accounting of the disposition of such asset.

(3) Any asset purchased with funds from the disposition of a piece of equipment originally funded by Grant Funds shall be jointly owned by the Parties.



(4) Any asset purchased solely by funds not including funds received from the disposition of a piece of equipment originally funded by Grant Funds shall be owned by the funding Party.

(5) Sunset shall report quarterly to the Cumberland Plateau Parties on any such assets so removed from CPC OptiNet, including a description of the asset, its location prior to being removed from service, the reason for its removal and the amount of any recovered value, if any.

(2) Assets of the VCC.

(a) VCC Ownership. The VCC owns One Hundred Percent (100%) of the VCC Assets funded by the EDA-VCC Grant, subject to a reversionary interest in the assets held by the EDA and Tobacco Commission.

(b) Grant Conditions. Any conditions resulting from the receipt of Grant Funds affecting the VCC Assets remain as set forth in such remaining grant conditions, if any, and are the responsibility of the VCC.

(3) Assets of Sunset.

(a) Sunset EDA Interest. Pursuant to the CPC OptiNet Agreement, the BVU Authority and the Cumberland Plateau Parties jointly owned an undivided Fifty Percent (50%) interest in the Backbone, Distribution, Last Mile, and any other infrastructure acquired for the CPC OptiNet with Grant Funds provided by the EDA and the Tobacco Commission. Effective as of the Effective Date, Sunset Fiber will (i) have purchased the Fifty Percent (50%) share previously owned by the BVU Authority as a result of the payment of the Federal Share to the United States Treasury during the Transaction and (ii) will own all BVU Authority CPC OptiNet asset interests (the "**Sunset EDA Interest**").

(b) Sunset NTIA Assets. The NTIA funded a portion of the CPC OptiNet through the BTOP Grant. Sunset purchased all assets of the CPC OptiNet purchased by funds from the BTOP Grant as part of the Transaction ("**Sunset NTIA Assets**") pursuant to a waiver provided in the NTIA Letter and subject to the conditions set forth in the NTIA Letter; *provided, however*, recognizing a dispute exists between the Cumberland Plateau Parties and BVU regarding the ownership of the NTIA funded assets in the Cumberland Plateau Region, as of the Effective Date of this Agreement, Sunset shall:

(i) deliver the Cumberland Plateau Region certain rights to such NTIA-funded fiber optic cable, as set forth below in Section 5(c);

(ii) immediately following the closing of the Transaction, together with the Cumberland Plateau Parties, jointly petition the NTIA to recognize and approve the transfer of ownership of the NTIA funded assets described in Section 5(c) in the Cumberland Plateau Region to the Cumberland Plateau Parties;

(iii) until the NTIA approves the transfer of the ownership of such NTIA-funded fiber to the Cumberland Plateau Parties, Sunset will adhere to any remaining grant conditions related to the NTIA-funded fiber; and,

(iv) following such transfer, the Cumberland Plateau Parties recognize that such NTIA-funded fiber will remain subject to any remaining grant conditions, and the Cumberland Plateau Parties will adhere to the exclusivity grant to Sunset set forth in Section 3 of this Agreement;

*provided, however*, no NTIA-funded fiber outside the Cumberland Plateau Region will be transferred or considered part of the CPC OptiNet.



(4) Third Party Interests in CPC OptiNet Assets.

(a) Assets of the Tobacco Commission. The Tobacco Commission retains an equitable reversionary interest and claw back right in certain assets of the CPC OptiNet for the useful life of the project assets based on the grants listed on Schedule 1 (collectively, “**VTC Grants**”).

(b) Assets Funded by EDA.

(1) The EDA funded the development of certain CPC OptiNet assets through the EDA Grants. For the sake of clarity, the Parties acknowledge that the assets originally funded by the EDA Grants are now owned jointly in equal undivided Fifty Percent (50%) interests by the Cumberland Plateau Interest and the Sunset EDA Interest.

(2) The EDA retains a reversionary interest in the undivided, equal Fifty Percent (50%) of the Cumberland Plateau Interest assets for the useful life of such assets as set forth in the EDA Letter; and, as a result of the payment of the Federal Share to the United States Treasury at the consummation of the Transaction, no such EDA grant conditions apply to the Sunset EDA Interest.

(c) Assets Funded by NTIA. All NTIA grant funded assets remain subject to certain terms and conditions of the BTOP Grant as set forth on Exhibit E. Subject to the asset transfer set forth in Section 5(c) and Section 2(B)(3)(b)(ii), all NTIA grant-funded assets are owned by Sunset pursuant to the waiver issued by under the NTIA Letter.

(5) Transfer by Sunset to Cumberland Plateau Parties.

(a) During the Transaction, Sunset discovered a dispute among the Cumberland Plateau Parties and the BVU Authority regarding the ownership of assets related to the CPC OptiNet. To resolve this dispute and confirm the ownership rights of the Cumberland Plateau Parties, effective as of the Effective Date, Sunset will deliver the Bill of Sale substantially in the form attached hereto as Exhibit F (“**Bill of Sale (Balance Sheet Assets)**”) to transfer to the Cumberland Plateau Parties a greater ownership of the fiber and equipment than that ownership interest represented by one-half of the grant funding provided by the EDA, to produce for the Cumberland Plateau Parties a continuous fiber network with a fully functioning backbone instead of a series of disconnected ownership interests of diverse and unrelated pieces of equipment not able to independently function as a contiguous network. This transfer will result in the Cumberland Plateau Parties owning assets valued at the time of original purchase by BVU Authority and recorded on the balance sheet of the entities at an original cost of Three Million Seven Hundred Seventy-Two Thousand, Three Hundred Sixty-One Dollars (\$3,772,361.00) instead of the value of Two Million Eight Hundred Fifty-Eight Thousand Seventy-Four Dollars (\$2,858,074.00), which would be the value of one-half of the EDA grant-funded assets as of the date of the original deployment. The fiber deployed with EDA grant funds totals Four Million Four Hundred Thirty-Nine Thousand Five Hundred Thirty-Nine Dollars (\$4,439,539.00) and one-half of that original cost of deployment, which represents the cost of the CPC Fibers, is Two Million Two Hundred Nineteen Thousand Seven Hundred Seventy Dollars (\$2,219,770.00). Sunset will assign to the Cumberland Plateau Parties Fifty Percent (50%) of the EDA-funded fiber deployed in Washington County totaling Two Hundred Ninety-Five Thousand One Hundred Eighty-Two Dollars (\$295,182.00), and one-half of that cost equals One Hundred Forty-Two Thousand Five Hundred Ninety-One Dollars (\$142,591.00). Total original cost of equipment and deployment assigned to the Cumberland Plateau Parties pursuant to this Section 2(B)(5) totals Three Million Seven Hundred Seventy-Two Thousand Three Hundred Sixty-One Dollars (\$3,772,361.00) or Sixty-Six Percent (66%) of the EDA investment in the network. To accomplish the asset allocation set forth in Section 2(B)(3)(b) above, Sunset hereby acknowledges ownership by the Cumberland Plateau Parties of one-half of the Eleven and Twenty-Three Hundredths (11.23) miles of fiber that extends into Washington County as part of the EDA-funded assets owned by the Cumberland Plateau Parties, totaling Two Hundred Ninety-Five Thousand One Hundred Eighty-Two Dollars (\$295,182.00), of which one-half of that cost equals One Hundred Forty-Two Thousand Five Hundred Ninety-One Dollars (\$142,591.00). All original costs referenced in this Section 2(B)(5)(a) represent the original cost recorded on the BVU Authority Balance Sheets to the best of the Parties’ knowledge as of the date of the original deployment.



The Parties acknowledge that certain assets referenced in this Section 2(B)(5)(a) may be discovered to be owned by the VCC and if so discovered this Section 2(B)(5)(a) will be deemed to be adjusted accordingly.

(b) By execution of the Bill of Sale (Infinera) substantially in the form attached hereto as Exhibit G, as of the Effective Date, Sunset will transfer any ownership rights represented by the Sunset EDA Interest it may have in the Infinera backbone equipment located in the Cumberland Plateau Region, represented by the diagram attached as Exhibit H, to the Cumberland Plateau Parties.

(c) To reflect the jointly owned nature of the CPC OptiNet, Sunset will, as an act in the normal course of business, execute an indefeasible right of use (“**IRU**”) for Fifty Percent (50%) of the NTIA fibers within the Counties of Dickenson, Russell, Tazewell and Buchanan to the Cumberland Plateau Parties.

(d) For the sake of clarity, all equipment and fiber references in this Section 2(B)(5) is covered by the grant to Sunset set forth in Section 3.

(6) Ownership of Assets Purchased With Future Investment.

(a) Sunset Ownership. The Parties acknowledge going forward that Sunset may find it necessary to invest some of its own funds in capital improvements to grow the system and keep it up to date. This Agreement will not obligate Sunset to invest any of its own funds, except as set forth in Section 4(C), and to the extent that it does invest its own funds, any equipment, fiber and other capital acquired or constructed shall be the sole property of Sunset. Following the execution of this Agreement, any Backbone, Distribution, Last Mile or other infrastructure assets deployed in or for the Cumberland Plateau Region, purchased by Sunset following the execution of this Agreement, are the individual property of Sunset, and nothing herein will be construed to give any other individual or entity any ownership interest in any such assets unless specifically noted.

(b) Cumberland Plateau Ownership. Following the execution of this Agreement, any Backbone, Distribution, Last Mile or other infrastructure assets deployed in or for the Cumberland Plateau Region, purchased by the Cumberland Plateau Parties following the execution of this Agreement, are the individual property of the Cumberland Plateau Parties, and nothing herein will be construed to give any other individual or entity any ownership interest in any such assets unless specifically noted.

(c) Asset Reporting. Asset ownership for assets purchased pursuant to Section 2(B)(6)(a) and Section 2(B)(6)(b) shall be tracked by Sunset and reported to the Cumberland Plateau Parties on a quarterly basis with sufficient specificity to identify each asset purchased by the Cumberland Plateau Parties together with the cost and the location of such asset.

(d) Additional Grant Investments. Subject to the conditions set forth in Section 7(C) of this Agreement, the Cumberland Plateau Parties and Sunset will work together to secure grants and other resources to continue to grow the CPC OptiNet, with Sunset providing technical expertise and matching funds for such applications where possible. Sunset will work with the leadership of the Cumberland Plateau Parties and the individual four counties to identify opportunities to leverage the private investment being made by Sunset to secure additional funds to increase the pace of deployment.

**SECTION 3. EXCLUSIVE GRANT TO SUNSET.**

A. Exclusive Grant. Upon the Effective Date, the Cumberland Plateau Parties hereby grant to Sunset the exclusive right, consistent with the principle of open access as required by the NTIA Letter, to use, operate, manage, deploy, sublicense, maintain and take all other actions consistent with the management and operation of the CPC OptiNet during the term of this Agreement and any renewal thereof, subject to the NTIA open-network grant condition.



B. Non-Conveyance. Nothing in this Agreement shall be interpreted to convey or is intended to convey legal title in the Cumberland Plateau Interest in the CPC OptiNet or the VCC Assets to Sunset; *provided, however,* in the event either or all of the Cumberland Plateau Parties or VCC sell(s), assign(s), otherwise transfer(s) title in, or abandon(s) the Cumberland Plateau Interest in the CPC OptiNet or the VCC Assets prior to the expiration of the Term of this Agreement, Sunset's rights pursuant to Section 3(A) regarding the CPC OptiNet shall not be affected in any way whatsoever and any such sale, assignment, transfer or abandonment shall explicitly be made subject to and conditioned upon the continuation of the rights granted in Section 3(A).

#### **SECTION 4. CONTINUED DEVELOPMENT OF THE CPC OPTINET**

A. Guidelines for Continued Deployment. The Cumberland Plateau Parties and Sunset hereby acknowledge that the CPC OptiNet was intended from its inception to primarily function to attract and serve businesses, employers and other individuals and entities involved in economic development in the Cumberland Plateau Region. The Cumberland Plateau Parties and Sunset reaffirm that in the continued deployment and operation of the CPC OptiNet they will maintain a primary focus on businesses, employers and other individuals and entities involved in economic development in the Cumberland Plateau Region. In addition, and because of new capital being made available by the CPC, Sunset and the Tobacco Commission, it is the intent of the Cumberland Plateau Parties and Sunset to also start and maintain a robust program of new residential customer connection.

B. Additional Investment in the CPC OptiNet.

(1) Sunset acknowledges that it intends to invest its own money, including the New Connection Commitment described below, into the CPC OptiNet for either operation, maintenance or capital expenditures, and specifically to fund increased residential connections. Similarly, the Cumberland Plateau Parties may invest their own money in the CPC OptiNet. Such investments in the CPC OptiNet by either the Cumberland Plateau Parties or Sunset shall become a part of the CPC OptiNet that will each be owned by their individual contributor. The Parties acknowledge going forward that the Cumberland Plateau Parties and Sunset may find it necessary to invest some of their own funds in capital improvements to grow the system and keep it up to date. This Agreement will not obligate the Cumberland Plateau Parties or Sunset to so invest any of their own funds (with the exception of Sunset's New Connection Commitment made below); however, to the extent that they do invest their own funds, any equipment, fiber and other capital acquired or constructed shall become a part of the CPC OptiNet that is owned by each individual party.

(2) From time to time, the Cumberland Plateau Parties may notify Sunset of capital funds available at the Cumberland Plateau Parties for investment in the CPC OptiNet network and Sunset shall work with the Cumberland Plateau Parties for the deployment of the capital into the network assets owned by the Cumberland Plateau Parties.

C. New Connection Commitment.

(1) As a condition to the closing of the Transaction, Sunset committed to the Tobacco Commission to invest Ten Million Dollars (\$10,000,000.00) in Southwest Virginia, and the Tobacco Commission agreed that Seven Million Dollars (\$ 7,000,000.00) of that commitment to be directed to new connections in the Cumberland Plateau Region (the "**New Connection Commitment**") and Sunset hereby agrees that the New Connection Commitment is now made directly to the Cumberland Plateau Parties with the right to enforce such New Connection Commitment as set forth in this Section 4(C). Pursuant to the ITC Commitment Letter, ITC hereby agrees that, through its affiliates or subsidiaries, it will provide the necessary financial support for Sunset Digital Holding, LLC, and/or its two operating subsidiaries Sunset Digital Communications, LLC and Sunset Fiber, LLC to meet the financial commitment set forth in this Section 4(C).

(a) Sunset and the Cumberland Plateau Parties shall mutually agree upon the deployment plan for the New Connection Commitment, taking into consideration, with respect to residential connections, that with respect to an Extraordinary Connection Request, the Cumberland Plateau Parties may direct



Sunset to develop a plan to connect such residential customer by investing funds controlled by CPC or coordinating with local and regional funding agencies to fund the installation of such services; *provided, however*, the Cumberland Plateau Parties and Sunset shall work together in good faith to coordinate the timing of the delivery of broadband services to such residential customers in as expeditious a manner as possible.

(i) Following the execution of this Agreement, the Cumberland Plateau Parties and Sunset shall jointly promote the availability of broadband expansion within the Cumberland Plateau Region by encouraging potential customers to designate their interest in service by signing up on the Sunset website (or by utilizing other sign-up processes which may be available) to generate clusters of interest for underserved communities. The Cumberland Plateau Parties shall assist Sunset in identifying local community individuals who may be willing to serve as a catalyst for the generating interest for broadband deployment within their neighborhood or community.

(ii) Sunset will compile the potential customer data and recommend an initial deployment strategy to the Cumberland Plateau Parties within One Hundred Twenty Days (120) following execution of this Agreement.

(iii) The Parties will review the deployment strategy to balance rural underserved communities with communities closer to municipal jurisdictions in the Cumberland Plateau Region and mutually agree upon the deployment strategy taking into account Extraordinary Connection Requests.

(b) If Qualified and Documented demand for broadband services exists within the first year following the Effective Date, Sunset shall deploy at least One Million Five Hundred Thousand Dollars (\$1,500,000.00) in the Cumberland Plateau Region for new business and residential connections; and, for each year for the Five (5) years thereafter, Sunset shall deploy One Million Dollars (\$1,000,000.00) in the Cumberland Plateau Region for new business and residential connections until the entire New Connection Commitment is expended. Sunset shall deploy the New Connection Commitment by the Seventh (7<sup>th</sup>) anniversary of this Agreement; *provided, however*, that any remaining balance on the New Connection Commitment shall carry over until fully deployed. The Cumberland Plateau Parties may, from time-to-time, request to meet with Sunset and review the list of commercial customer connections and review the residential area connections by neighborhood or other geographic designation.

(2) Each calendar year quarter, Sunset shall provide the Cumberland Plateau Parties and the Tobacco Commission a quarterly report that details, for the current calendar year, the amount of New Connection Commitment funds that have been spent, and how much remains to be spent in that calendar year, and Sunset shall report New Connection Commitment expenditures to the Cumberland Plateau Parties and the Tobacco Commission on the CFO Certification referenced in Section 10(A). Sunset shall provide to the Cumberland Plateau Parties and the Tobacco Commission all work orders and any other documentation necessary to substantiate the cost of the connection in fulfillment as set forth in Section 10(A). The Parties will work in good faith to resolve any disputes as to the proper cost of a connection made as part of a New Connection Commitment.

D. Residential Connections.

(1) Residential Focus. Sunset shall start and maintain a robust program of new residential customer connections for the deployment of the CPC OptiNet to residential customers in the Cumberland Plateau Region based upon interest in such residential deployment and technical, construction and cost requirements and considerations, as reasonably determined by Sunset.

(2) Connected Home Advisory Council. The Cumberland Plateau Parties and Sunset shall create the “**CPC OptiNet Connected Home Advisory Council**” comprised of Two (2) citizens from each of the Counties of Buchanan, Dickenson, Russell and Tazewell to advise the Cumberland Plateau Parties and Sunset on future deployment and to balance revenue generating neighborhoods and the Sunset “clustering” model with outlying homes in need of connectivity and to develop strategies for the connection of all homes in the Cumberland



Plateau Region. The members of the Connected Home Advisory Council shall be appointed by the Cumberland Plateau Parties and Sunset, with the Cumberland Plateau Parties and Sunset each having the right to appoint one citizen from each of the Counties of Buchanan, Dickenson, Russell and Tazewell.

E. Business and Economic Development Connections.

(1) Economic Development Focus. The Cumberland Plateau Parties and Sunset share the desire of the EDA, NTIA, and Tobacco Commission to continue to utilize the CPC OptiNet to promote economic development and job creation in the Cumberland Plateau Region and desire to work with local and regional economic development stakeholders using commercially reasonable efforts to support the following economic development strategies:

- (a) Continue to support the economic development effort of the Cumberland Plateau Parties;
- (b) Regularly meet with county IDA leadership to coordinate business and economic development focus;
- (c) Sponsor booth space to facilitate a regional presence at major trade shows pushing connected communities;
- (d) Sponsor booth space for a regional presence at economic development events;
- (e) Support regional marketing programs, including the new regional marketing initiative of VCEDA, in advertisements, magazines, newsletters in metro areas in the United States and abroad promoting the region;
- (f) Explore “Coal to Code” or similar programs that Sunset would support at local universities and colleges and community colleges;
- (g) Deliver quarterly highlights on bandwidth to communities and their industrial parks;
- (h) Promote regional outdoor and cultural activities (e.g. Spearhead Trails, Appalachian Spring, Crooked Road, Round the Mountain and kayaking adventures around the area);
- (i) Work with local economic development officials to promote the region, such as organizing VIP tours;
- (j) Support and publicize the existing regional initiatives underway, including the Spearhead Trails, the Crooked Road, Appalachian Spring, and Round the Mountain; and,
- (k) Coordinate with the Cumberland Plateau Parties for the further deployment of the CPC OptiNet with regional tourism venues to aid in the promotion of those venues and the “user” experience for visitors to assist in the further growth of the region’s new economic efforts.

(2) Cumberland Plateau Broadband Council. Recognizing that the initial deployment of the CPC OptiNet focused on business and commercial customers, the Cumberland Plateau Parties and Sunset will create the “**Cumberland Plateau Broadband Council**” comprised of Two (2) business leaders from each of the Counties of Buchanan, Dickinson, Russell and Tazewell to monitor deployment to the business community (large and small) and work with economic development leaders to foster economic growth in the region, inviting many stakeholders to participate, including the Parties, the VCC, VCEDA, and local Industrial Development Authorities and Chambers of Commerce of each county in the Cumberland Plateau Region. The members of the Cumberland Plateau Broadband



Council shall be appointed by the Cumberland Plateau Parties and Sunset, with the Cumberland Plateau Parties and Sunset each having the right to appoint one citizen from each of the Counties of Buchanan, Dickenson, Russell and Tazewell..

(3) Connection Issues.

(A) Beginning on the Effective Date, and continuing until the full New Connection Commitment is invested, Sunset shall provide to the Cumberland Plateau Parties at the beginning of each quarter the number of commercial and residential customers who have indicated an interest in connecting to the CPC OptiNet (the “**Connection List**”). The Connection List shall show the date such business or individual was added to the Connection List and the number of businesses and individuals that Sunset proposes to connect during the quarter. Sunset’s Cumberland Plateau Region senior designated representative shall review with representatives of the Cumberland Plateau Parties, from time-to-time, specific customer connection information so that the Cumberland Plateau Region representatives may track the status of specific pending requests for connection, including the opportunity from time-to-time to review the names and status of actual pending customer connections.

(B) Beginning on the Effective Date, the Cumberland Plateau Parties shall provide monthly to Sunset a list of any businesses and individuals that they would like considered for connection to the CPC OptiNet. Sunset shall add those businesses and individuals to the Connection List described in the preceding paragraph within Thirty (30) days of receipt of the information from the Cumberland Plateau Parties.

(C) If the Cumberland Plateau Parties receive a verified written complaint from a local or regional economic development official, including members of the staff and Board of Directors of the Cumberland Plateau Parties, or other local government official, that Sunset has failed to connect a potential business customer, or other potential customer having an economic development aspect, requesting broadband services, Sunset will have Thirty (30) calendar days from receipt of the complaint to develop a plan and budget for the connection of the potential business or economic development customer or to report why such connection request is not valid.

(D) While it is anticipated that Sunset likely will make such commercial connections in the ordinary course of business, in the event Extraordinary Connection Requests are made, the Parties agree to work in good faith to resolve any economic development connection issues involving potential business or economic development customers. In the event an Extraordinary Connection Request exists, the Cumberland Plateau Parties may direct Sunset to develop a plan to connect such business customer by investing funds controlled by the Cumberland Plateau Parties or coordinating with local and regional economic development agencies to fund the installation of such services; *provided, however*, the Cumberland Plateau Parties and Sunset shall work together in good faith to coordinate the timing of the delivery of broadband services to such business customer in as expeditious a manner as possible.

(E) The Cumberland Plateau Parties may request Sunset connect any individual or business listed on the Connection List; and no later than Sixty (60) days thereafter, Sunset shall (1) deliver an estimated connection date for such prospective connection within such Sixty (60) day period or (2) deliver to the Cumberland Plateau Parties a plan of connection for such potential connection, including technical and financial requirements necessary to make such connection.

**SECTION 5. REGIONAL WIRELESS NETWORK DEPLOYMENT.**

To encourage the growth of the CPC OptiNet and the promotion of regional economic development initiatives, Sunset will develop a network of Wi-Fi hot spots to be deployed in major gathering places like Main Streets, high school sports facilities and recreational facilities throughout Southwest Virginia so long as such service remains a technically competitive product. Immediately following the Effective Date, Sunset shall begin work to deploy the network of Wi-Fi hot spots. Sunset’s estimate is that it will deploy a network of at least Four (4) Wi-Fi hot spots in



the Cumberland Plateau Region (one per county) within the next Five (5) years. The Cumberland Plateau Parties and Sunset will work cooperatively together, and with local and regional stakeholders, to identify suitable locations for such Wi-Fi locations.

## **SECTION 6. SUNSET OBLIGATIONS AND RESPONSIBILITIES.**

A. CPC OptiNet Operator Responsibilities. Sunset shall be the operator of the CPC OptiNet and as such, Sunset Fiber shall:

(1) Receive, service and resolve all requests for support, including, but not limited to, technical, billing, and sales and marketing inquiries;

(2) Invoice, bill and undertake all collection activities (collectively, Section 6(A)(1) and Section 6(A)(2), the “Sunset Services”);

(3) Install, operate and maintain a fiber optic Backbone line as set forth in this Agreement. Sunset will continue to extend the Backbone, Distribution and Last Mile fiber systems, timed so that adequate oversight can be provided to each project by Sunset;

(4) If and as necessary as determined by technical review and testing, Sunset shall add capacity to the Backbone so that service to existing customers, and the growth through adding new customers, is not degraded or limited by the Backbone’s fiber capacity;

(5) Obtain, from various owners of utility poles along said routes, the right to attach said fiber optic cable line to their poles and obtain railroad crossing agreements;

(6) Provide, if necessary, electronic equipment necessary to light the CPC OptiNet fiber optic cable and any other equipment necessary to provide broadband Internet service, including data service, local exchange or voice-over IP (“VOIP”) telephone and long distance telephone service, and cable television to areas in the four counties of the Cumberland Plateau Region, including the towns therein, and to charge customary and ordinary fees for said services;

(7) Where sufficient demand and density of population make it feasible extend a fiber optic cable Distribution and Last Mile system to areas to make Distribution and Last Mile delivery systems available in the Cumberland Plateau Region, including the towns therein, where such areas are within reasonable proximity of said Backbone, with priority being given to industrial, commercial and governmental end users. Sunset has expressed and shall work in good faith towards a goal of connecting Ten Thousand (10,000) additional residential customers within the next Ten (10) years in the Cumberland Plateau Region, although the exact number of new residential connections will be dependent on multiple factors, including economics and new residential customer interest;

(8) Make available cable or IPTV programming signals to a cable television service provider to be designated by Sunset for ordinary and customary fees within the industry, and to be franchised in each jurisdiction involved, to serve multi-channel television programming in the areas where Last Mile facilities are available, and for the same ordinary and customary fees, make telephone and data services available to end user customers who have Last Mile connections;

(9) After installation, maintain said fiber optic cables and electronic equipment in good working order, doing those things normally necessary to operate said systems to deliver such telephone, broadband data and cable services in an efficient and business-like manner; Sunset agrees to procure and maintain appropriate insurance on the CPC OptiNet, including coverage of the electronic assets that comprise the CPC OptiNet, as well as business interruption and casualty/liability insurance that lists the “Cumberland Plateau Planning District Commission” and the “Cumberland Plateau Company, Inc.” as additional insureds;



(10) Undertake all Operating Responsibilities;

(11) Consistent with the NTIA requirement that the CPC OptiNet be operated as an open network, honor and maintain all existing contracts held by the BVU Authority with any third parties, including wholesale customers, who operate using services provided by the CPC OptiNet, unless changes to such agreements are requested by such customers;

(12) Operate the CPC OptiNet consistent with the requirements of the EDA Letter and NTIA Letter, as and if applicable;

(13) Offer employment to the current BVU Authority workforce based in the Cumberland Plateau Region, who have experience working on the CPC OptiNet in the Cumberland Plateau Region;

(14) Acknowledge that the Cumberland Plateau Parties remain subject to the terms and conditions contained in the EDA Letter;

(15) Discharge these obligations and responsibilities in a good and workmanlike manner, and provide service to the customers of the CPC OptiNet in accordance with industry standards and in a manner that maintains a high level of satisfaction among the business and residential customers of the CPC OptiNet; and,

(16) Provide an operations report to the Cumberland Plateau Parties on a quarterly basis which shall contain metrics to measure operational quality and customer satisfaction, and which shall be based on the metrics reported by the previous operator of the CPC OptiNet.

## **SECTION 7. CUMBERLAND PLATEAU PARTIES OBLIGATIONS AND RESPONSIBILITIES.**

A. Additional Grant Funding. The Cumberland Plateau Parties may from time-to-time make available funds necessary for engineering, acquisition, construction and capitalized operating costs related to the grant funded projects contemplated herein to be performed by Sunset and utilized to expand the CPC OptiNet. The source of such funds to be furnished by the Cumberland Plateau Parties will be various federal and state governmental grants and loans with potentially matching funds from local governments, the Tobacco Commission, stakeholders, or Sunset. Nothing in this Agreement shall prevent Sunset from seeking and utilizing grant funds for the development of the CPC OptiNet or from other local and regional entities from seeking and utilizing grant funds for the development of the CPC OptiNet.

B. Title to Grant Funded Assets. Title to any assets which are grant funded and added to the CPC OptiNet shall be determined by such grants. To the extent possible the Parties shall attempt to have the grant funder allow the assets to be owned on an equal 50% basis by Sunset and the Cumberland Plateau Parties. Title to any funds obtained by other local and regional entities shall follow the terms and conditions of any such grant.

C. Grant Cooperation. The Cumberland Plateau Parties and Sunset acknowledge and agree that working together to obtain additional grants to support the CPC OptiNet is in their mutual best interest. Accordingly, the Cumberland Plateau Parties and Sunset hereby agree to work together cooperatively and in good faith to identify, apply for and deploy grants that will further the mission of the CPC OptiNet. Such cooperation includes sharing all grant applications before submission. The Cumberland Plateau Parties shall not submit any grant application affecting the CPC OptiNet until Sunset has reviewed and has been able to create a business plan that establishes a reasonable basis for there being sufficient incremental income from the intended project to cover all incremental expenses for the operation of the projected fiber addition. The Cumberland Plateau Parties will obtain Sunset's written permission before using its name in any grant application, and will copy Sunset with the grant application when submitted. Sunset shall provide all pre-grant application services to any grant that a third party intends to apply for, to the extent that the grant project will add to the system in the Cumberland Plateau Region for the CPC OptiNet and shall be reimbursed if requested for reasonable expenses related to the delivery of such pre-grant application services.



D. Local Assistance. The Cumberland Plateau Parties, through the members of their respective Board of Directors residing in various Counties of its area, may assist, if requested and as appropriate, Sunset in obtaining all required local franchises, licenses and permits from the various Counties and Towns in the Cumberland Plateau Region that the members of the respective Board of Directors of the Cumberland Plateau Parties agree to provide; *provided, however*, Sunset acknowledges that such members may determine a conflict of interests exists causing them to be unable to provide such assistance. The Cumberland Plateau Parties will encourage their member jurisdictions to facilitate an expedited review of all applications for permits submitted by Sunset, including requests for approvals necessary for construction, maintenance or other work within a jurisdiction's rights-of-way and easements related to access to a jurisdiction's assets or infrastructure, all in accordance with applicable regulations and ordinances and such jurisdiction's standard processes and practices generally made available to all third parties.

E. Operating Restriction. The Cumberland Plateau Parties shall have no Operating Responsibilities of any kind, and will coordinate their grant writing efforts with Sunset to obtain basic system planning, engineering and all other operational information for said application. Sunset will have the sole right and obligation to perform all Operating Responsibilities and the Cumberland Plateau Parties will not attempt, directly or indirectly, to perform any Operating Responsibilities, whether expressly set forth herein or of like kind to the express Operating Responsibilities herein set forth. This operating restriction shall not apply to prevent the Cumberland Plateau Parties from engaging in grant administration or grant procurement for any grant that provides funds for further deployment of the CPC OptiNet. The Cumberland Plateau Parties hereby acknowledge that this Section 7(E) operating restriction provision is essential to the Agreement, and any attempt by the Cumberland Plateau Parties' employees or agents to participate in Operating Responsibilities other than is stated herein shall constitute a breach of this contract for which Sunset may terminate this Agreement, after notice to the Cumberland Plateau Parties and a reasonable period to cure. The activities of the Cumberland Plateau Parties related to participating in the development of strategies for the deployment of the network set forth in Section 4 shall not be deemed to be a violation of this Section 7(E).

F. Customer Complaints. In the event the Cumberland Plateau Parties receive complaints related to deployment, operation, reliability, pricing, etc. from a customer of the CPC Optinet, the Cumberland Plateau Parties shall immediately forward such complaint to Sunset, which shall act in good faith to address the complaint and resolve same if possible, and shall regularly report to the Cumberland Plateau Parties regarding the status of each such complaint, if any.

## **SECTION 8. CUMBERLAND PLATEAU ECONOMIC DEVELOPMENT FEE.**

A. Cumberland Plateau Economic Development Fee. Following the Execution Date, Sunset shall pay the Cumberland Plateau Parties an annual fee ("**Cumberland Plateau Economic Development Fee**") based upon:

(1) Ten and Twenty-One Hundredths Percent (10.21%) (the "**Initial Rate**") of Gross Revenue until Sunset achieves the Threshold Event; then,

(2) Seven and Twenty-One Hundredths Percent (7.21%) of Gross Revenue (the "**Adjustment Rate**") until Sunset has recovered that amount of money that is the difference between the amount of Cumberland Plateau Economic Development Fee paid based upon the Initial Rate and that amount that would have been due based upon on the Standard Rate (defined below); and, following recovery of such difference; then,

(3) Eight and Seventy-One Hundredths Percent (8.71%) (the "**Standard Rate**") (collectively, Initial Rate, Adjustment Rate, Standard Rate, the "**Rate**") of Gross Revenue during the remainder of the Term of this Agreement, each of (a) and (b) calculated in quarterly installments as follows:

(a) Thirty (30) calendar days following the end of each calendar year quarter Sunset shall deliver to CPC an amount equal to the applicable Rate times the actual Gross Revenue for the preceding calendar year quarter ("**Quarterly Payment**"); and,



(b) By March 31 of each year, Sunset shall determine the actual Cumberland Plateau Economic Development Fee for the previous year and deliver within Fifteen (15) calendar days any deficiency from the previous year's fee; *provided, however*, that in the event the previous year's fee was overpaid, Sunset shall credit such overpayment to the fee due for the next year.

B. Entire Fee. The Cumberland Plateau Economic Development Fee shall be the only fee, payment, distribution or other economic payment of any type delivered to the Cumberland Plateau Parties pursuant to this Agreement. The Cumberland Plateau Parties shall be responsible for any fees, payments or distributions due to the VCC for the use of CPC OptiNet assets funded by the EDA-VCC Grant and for any Federal, state or local obligations placed upon the use of the Cumberland Plateau Economic Development Fee.

#### **SECTION 9. IPTV AVAILABILITY.**

A. Availability. The Parties acknowledge that the status of cable television and IPTV television is currently uncertain. For so long as economically viable, Sunset will make available cable or IPTV programming signals to serve multi-channel television programming in the areas where Last Mile facilities are available, and for the same ordinary and customary fees, make telephone and data services available to end user customers who have Last Mile connections; *provided, however*, the Parties acknowledge that industry changes could impact the delivery such television services making such services no longer necessary or no longer viable.

B. Local And Regional Government Programming. Sunset will expand the utilization of the CPC OptiNet for the promotion of community and local activities and the engagement of local citizens in the local and regional governmental activities by dedicating a television channel to community access programming of local school programs and sporting events and by, when feasible, filming regional activities for viewing online and on the regional television channel.

#### **SECTION 10. REPORTS.**

##### **A. Financial Reporting.**

(1) Sunset will develop a separate accounting category for the collection of Gross Revenue from the CPC OptiNet and Sunset will deliver the CFO Certification, substantially in the form attached hereto as Exhibit J, ("**CFO Certification**") certifying the following: (a) the amount of Gross Revenue from the CPC OptiNet; (b) the amount of the New Connection Commitment expended during such quarter, and the amount of the New Connection Commitment remaining to be deployed.

(a) Sunset will deliver such CFO Certification (a) within Thirty (30) days following the end of each calendar year quarter, providing the Gross Revenue for the preceding calendar year quarter; and, (b) at the end of each calendar year, Sunset will deliver the CFO Certification of the annual Gross Revenue from the CPC OptiNet with an accompanying review by an independent auditor within Thirty (30) days following receipt of such audit.

(b) If the Cumberland Plateau Parties dispute the calculation of Gross Revenue, the Cumberland Plateau Parties shall deliver written notice as set forth in Section 19 of such disputed calculation and the reason for such disputed calculation within Forty-Five (45) days after receipt of the CFO Certification. Each Party will use reasonable efforts to resolve a dispute within Forty-Five (45) calendar days following its receipt of the dispute notice. If the Parties are unable to resolve a dispute within such Forty-Five (45) calendar days, the Parties will engage a mediator to assist in the resolution of the dispute. If the Cumberland Plateau Parties fail to properly notify Sunset of a dispute within Forty-Five (45) days after receipt of the CFO Certification, then such right to dispute the CFO Certification is waived.



B. Annual Board Presentation. Sunset will make annual presentations to the Boards of Directors of the Cumberland Plateau Parties setting forth the details of the operations of the CPC OptiNet. The prior calendar year's operation and a summary of the financials of that calendar year shall be presented at a meeting of the Boards of Directors of the Cumberland Plateau Parties on or before, but no later than, March 31 of the following year (e.g. the presentation for calendar year 2017 shall be due by March 31, 2018).

C. Annual CPC OptiNet Performance Review. The Parties will hold an annual meeting to discuss the status of the system and invite the EDA, NTIA, and Tobacco Commission. Unless the attendees agree otherwise, the meeting will be held in Washington, D.C., and no later than March 30<sup>th</sup>. During the meeting, Sunset shall provide a comprehensive presentation of the financial, operational and customer service results of the CPC OptiNet for the most recent calendar year. Sunset shall also provide a detailed plan for further deployment of the CPC OptiNet in the current year and over the next five-year period. If agreed by the Parties, the meeting in Section 10(B) above may be combined the meeting anticipated by this subsection.

D. Financial Accounting and Reporting. Sunset agrees to maintain a separate financial account for the CPC OptiNet which shall record all the financial information related to the operation of the CPC OptiNet. Sunset shall provide sufficient financial information and inspection rights to enable the Cumberland Plateau Parties to verify the amount of Gross Revenue under this Agreement.

E. Inspection Rights. The Cumberland Plateau Parties shall have the right, with reasonable notice and at their own expense, to have a Certified Public Accountant inspect the financial account for the CPC OptiNet to verify the actual Gross Revenue of the CPC OptiNet. The number of such inspections shall not be limited, but the Cumberland Plateau Parties agree to exercise the right of inspection on a reasonable basis. Sunset shall work with the Cumberland Plateau Parties to produce a geolocation report utilizing Sunset's proprietary Fibertrac software or other similar software to provide reports of the Cumberland Plateau Region customer activity.

F. Annual Audit. Sunset shall engage, at its expense, an independent, third-party auditor to conduct an audit of all the CPC OptiNet financial information necessary to validate performance by Sunset of the obligations of Sunset under this Agreement. The audit shall be done on a calendar year basis, unless another basis is agreed to by the Parties. Sunset shall also have prepared and deliver annually to the Cumberland Plateau Parties audited financial reports of the CPC OptiNet Division of Sunset, which financial information the Cumberland Plateau Parties shall treat as confidential under the Virginia Freedom of Information Act, if applicable.

G. Quarterly Financial and Operating Review Meetings. Sunset and the Cumberland Plateau Parties agree to establish a schedule for regular quarterly meetings, to be held at the CPC offices in Lebanon, Virginia, between the leadership and staff of the Cumberland Plateau Parties, the VCC, and the leadership of Sunset. Representatives of the Tobacco Commission shall be notified of the meeting so they may attend if desired by them. The purpose of these meetings shall be to review and discuss items of mutual concern related to finances, operations and any other topics which impact on the health and wellbeing of the CPC OptiNet. The meetings are intended to create a mechanism by which the Parties can meet regularly, discuss matters of mutual concern, and generate a sense of goodwill and shared purpose with respect to their mutual shared interest of success for the CPC OptiNet.

## **SECTION 11. TERM, RENEWAL AND TERMINATION.**

A. Term. The term of this Agreement shall begin on the Effective Date and shall end at midnight on December 31, 2042 ("**Term**"), if not terminated before such date.

B. Optional Term Extension. If the Cumberland Plateau Parties are not in default under this Agreement, they shall have the automatic right to renew this Agreement for Two (2) consecutive Five (5) year terms. If Sunset is not in default under this Agreement, it shall have the automatic right to renew this Agreement for Two (2) consecutive Five (5) year terms.

C. Termination. This Agreement may be terminated as follows:



(1) Either Party may terminate this Agreement upon the other Party's insolvency, dissolution, bankruptcy or cessation of business operations.

(2) Either Party may, upon written notice, terminate this Agreement for the other Party's failure to make a payment due hereunder, if such failure remains uncorrected for Thirty (30) calendar days following written notice that payment has not been received as provided in this Agreement.

(3) In the event of a breach of any material term or condition in this Agreement by a Party, the other Party may terminate this Agreement upon Ninety (90) days' written notice, if the breaching Party fails to cure the breach during such Ninety (90) day period. A breach that cannot be reasonably cured within a Ninety (90) day period may be addressed by a written waiver of this Section 11(C)(3) signed by the Parties or by immediate termination by the non-breaching Party. In the event a breach that cannot be reasonably cured within such Ninety (90) day period results from a technically related issue, Sunset shall present a plan for the correction of such issue and a schedule for addressing such issue. Payments pursuant to this Agreement requiring one Party to compensate the other shall not be excused by notice of intent to terminate the Agreement for an alleged breach. However, at the payer Party's option, payment due may be placed in escrow during the Ninety (90) days while the alleged breach may be cured and may remain in escrow pending resolution of the alleged breach.

D. Effect of Termination. Upon any material breach of this Agreement by a Party, which is not cured after expiration of all applicable notice and cure periods, the offended Party may, at its sole option, do any or all of the following:

(1) Suspend payments, without penalty;

(2) Terminate this Agreement;

(3) Collect any shortfall amounts for the remaining portion of the Term or any applicable renewal term of the Agreement; and,

(4) Pursue mediation of the dispute to be held within Thirty (30) days of the declaration of a dispute and the passage of any cure period related to such alleged breach; *provided, however*, that in the event the Parties are unable to resolve the dispute through mediation, a Party may then pursue any other legal or equitable remedy or relief as may be appropriate.

E. Obligations Upon Termination.

(1) Upon termination of this Agreement before the end of the useful life of any asset owned by the Cumberland Plateau Parties, for any reason above or at the end of the initial term or any applicable renewal term under this Agreement, Sunset will identify the remaining assets of the Cumberland Plateau Parties then in operation, if any, and shall transfer control to such assets back to the Cumberland Plateau Parties by terminating the grant under Section 3 with respect to such assets. The IRU described in Section 2(B)(5)(c) shall become effective, if in existence because the transfer contemplated by Section 2(B)(3)(b)(ii) has not occurred. The Cumberland Plateau Parties shall be obligated, if desired, to secure such services, connections and equipment at their own expense. If the Cumberland Plateau Parties and Sunset so desire, Sunset will enter a support agreement to enable the CPC OptiNet to continue operating following such separation; *provided, however*, the Cumberland Plateau Parties will be responsible for all third-party costs related to the operation of their network.

(2) The Cumberland Plateau Parties and Sunset agree that they will act cooperatively and in good faith either to (A) renegotiate a new operating agreement for the CPC OptiNet with Sunset continuing as the operator, or (B) Sunset shall act cooperatively and in good faith to maintain and operate the CPC OptiNet in a good and workmanlike fashion consistent with all terms of this Agreement during the period that the Operator



Responsibilities are being transferred to a new operator. Sunset shall continue to pay the Cumberland Plateau Parties pursuant to the terms of this Agreement, including payments due hereunder.

(3) Sunset shall execute and deliver to the Cumberland Plateau Parties the IRU referenced in Section 2(B)(5)(c), if in existence because the transfer contemplated by Section 2(B)(3)(b)(ii) has not occurred.

F. Immediate Transfer Fee. Given the disruption and expense caused to the Cumberland Plateau Parties due to the BVU Authority's exercise of its right of assignment, the Parties agree that if Sunset assigns this Agreement or its rights under this Agreement within Five (5) years from the Effective Date, except as contemplated by Section 13(A)(5), Sunset shall pay the Cumberland Plateau Parties Two Million Dollars (\$2,000,000.00) to compensate the Cumberland Plateau Parties for the time, expense and opportunity costs associated with the assignment process.

## SECTION 12. OPERATOR PERFORMANCE

### A. CPC OptiNet Network Goals.

(1) *CPC OptiNet Network Vision.* Together the Parties will work in good faith to continue the utilization of the network as a tool for economic development and job creation while working to expand the residential connections on the network.

(2) *CPC OptiNet Network Deployment.* Sunset acknowledges that the delivery of reliable, high-quality service at reasonable rates through the CPC OptiNet, both to business and residential customers, remains a very high priority for the Cumberland Plateau Parties. The Cumberland Plateau Parties acknowledge that under this Agreement Sunset will be delivering these services in rural areas that contain communities or individual connections that may be remote and located in difficult terrain.

(3) *CPC OptiNet Demand.* The Parties acknowledge the extraordinary existing demand for broadband throughout the Cumberland Plateau Region. Following the execution of this Agreement, the Parties anticipate a significant amount of inquiries from potential customers desiring to be connected to the network. The Cumberland Plateau Parties will direct all interested parties to register their interest on Sunset's website to enable Sunset to incorporate their interest in the Sunset tracking system. Together the Parties will work with the *Connected Home Advisory Council* set forth in Section 4(D) of this Agreement and the *Cumberland Plateau Business Broadband Council* set forth in Section 4(E) of this Agreement to address future connection issues. Sunset will track and report network connections issues separate from existing customer customer-service issues.

B. Operator Standards and Customer Service. Sunset shall strive to operate a rural best-in-class, carrier-class, fiber optic network that delivers industry-leading uptime to customers of varying service levels and to deliver those services consistent with the individual customer service level agreement executed by the customers of the CPC OptiNet network from time-to-time, recognizing that commercial customers and residential customers will likely have different agreed upon response times for outages and connections. Sunset will work to establish and maintain a robust and redundant network and Twenty-Four (24) hour customer support, and ensure that the CPC OptiNet customers rarely experience a material service interruption that is not caused by a *Force Majeure* event. Sunset will continue to operate a call center for the Cumberland Plateau Region on a Twenty-Four (24) hour-a-day, Three Hundred Sixty-Five (365) day-a-year basis, seeking to maintain the ability for a CPC OptiNet customer to speak to a customer service representative or receive a response to email inquiries in a timely manner. The foregoing are referred to as the "**Performance Standards**". Sunset shall deliver to the Cumberland Plateau Parties a quarterly report on operational quality and customer satisfaction.

### C. Resolution of Performance Issues.

(1) Performance Improvement Demand.



(a) Performance Notice. In the event that (1) the Cumberland Plateau Parties believe significant and identifiable ongoing unresolved concerns exist about Sunset meeting the Performance Standards, and (2) informal attempts to resolve the issues have failed, the Cumberland Plateau Parties will notify Sunset in writing of the concerns of the Cumberland Plateau Parties (“**Performance Notice**”) and provide Thirty (30) days for Sunset to deliver a written report regarding the concerns raised by the Cumberland Plateau Parties, including, if requested by the Cumberland Plateau Parties, a plan of resolution (“**Performance Resolution Report**”) for the issues raised by the Cumberland Plateau Parties in such written notice, recognizing that resolution of such issues could require the cooperation of third parties outside the control of Sunset, and the Parties further recognize that Sunset cannot be held responsible for performance issues outside of its control.

(b) Content of Performance Notice. The Parties agree that a Performance Notice is not intended to address day-to-day concerns of individual customers, such as a network performance issues related to individual website performance, individual customer equipment performance affected by computer virus issues discovered by Sunset’s monitoring and diagnosis. The Parties acknowledge that a Performance Notice is intended to address significant, systemic issues not occurring because of the unique nature of the rural landscape in which the network exists (such as a prolonged interruption of service due to severe weather and remote customer locations), but existing because of Sunset’s lack of performance in the operation and maintenance of the CPC OptiNet Network.

(c) Extraordinary Situations. The Parties acknowledge that the Performance Notice process shall only be used for extraordinary situations or for concerns believed by the Cumberland Plateau Parties to constitute long-term and systemic problems.

(2) Performance Resolution Meeting.

(a) Report Review Meeting. At the written request (which shall contain the specific issues to be discussed) of the Cumberland Plateau Parties, the Parties shall meet within Fourteen (14) days following receipt of the Performance Resolution Report.

(b) Expanded Performance Review. In the event the Cumberland Plateau Parties are unsatisfied with the Performance Resolution Report produced by Sunset, the Cumberland Plateau Parties may demand a meeting between Sunset, the Cumberland Plateau Parties and the Executive Director of the Tobacco Commission to discuss the concerns of the Cumberland Plateau Parties, with the Executive Director of the Tobacco Commission serving as a mediator, to determine an agreed upon resolution of the issues. If any of the assets of the CPC OptiNet Network remain subject to conditions of any federal or state granting agencies, the Parties shall invite representatives of such agencies to attend any meeting called under this Section 12(C)(2)(b). The Executive Director of the Tobacco Commission shall review the performance issues, including the causes of such issues, and structure a resolution of the issues.

(3) Sole Remedy. The sole remedy of the Cumberland Plateau Parties for addressing Performance Standards, including the causes of such issues, and structure a resolution of such issues shall be the process set forth in this Section 12; *provided, however*, Sunset hereby acknowledges that this Section 12(B) (“Operator Standards and Customer Service”) is essential to the Agreement and failure by Sunset, after delivery of the Performance Notice and completion of the process set forth in Section 12(C)(1) and Section 12(C)(2), if such issues described in the Performance Notice persist and if such issues are the direct fault of Sunset, then, because determining the exact amount of damages caused by such breach would be difficult, the Parties agree, that following written notice from the Cumberland Plateau Parties that a persistent performance issue remains, the Cumberland Plateau Parties shall be entitled to liquidated damages until such issues are resolved in an amount equal to the daily amount paid by such customer(s), unless Sunset refunds or credits such amount directly to the customer(s).

(4) Transition Period. The Parties acknowledge that following the execution of this Agreement, the CPC OptiNet will undergo a significant transition with the closing of the Transaction that could



potentially last up to a year, and minor disruptions or delays outside the normal course of business may occur as a result of such transition.

### **SECTION 13. OPERATOR TRANSITION**

A. Assignment. Either Sunset or the Cumberland Plateau Parties may assign their rights under this Agreement to a third party pursuant to the provisions of this Section 13.

(1) Notification. A party potentially assigning its rights under this Agreement (the “Assignor”) shall deliver written notification to the other party within five (5) days of the execution of a letter of intent or other preliminary agreement document that could lead to such an assignment so that the non-assigning party is aware of a potential assignment of the Assignor’s rights. All information delivered shall be subject to the confidentiality provisions set forth below.

(2) Basic Requirements of Assignment.

(a) If Sunset wishes to assign its rights under this Agreement, the assignee must at a minimum have the experience, infrastructure and financial resources sufficient to properly operate and maintain the CPC OptiNet. If such assignment contemplates that the managerial, technical and operational infrastructure of Sunset shall remain in place following such assignment, the assignee shall be deemed to have met this minimum requirement.

(b) If the Cumberland Plateau Parties desire to assign their rights under this Agreement, the assignee must at a minimum be able to legally hold title to the assets of the CPC OptiNet network, perform the responsibilities of the Cumberland Plateau Parties under this Agreement, and acknowledge in writing the exclusivity of the Operating Responsibilities of Sunset under this Agreement.

(3) Meeting of the Parties. At the request of the non-assigning party, the Assignor shall meet with the non-assigning party to review the proposed assignment of rights under this Agreement.

(4) Third Party Consents. The Parties acknowledge that any assignment of rights under this Agreement may be subject to approval by the EDA, the NTIA, the Tobacco Commission, or other public fund granting agency.

(5) Change of Control; Affiliate Assignment. Notwithstanding any provision of this Section 13 to the contrary, Sunset shall have the absolute right, without the consent of any Party, to assign or otherwise transfer this Agreement in its entirety as follows:

(a) to any of its affiliates; *provided, however*, that all such rights, obligations and performance hereunder shall revert to Sunset automatically and immediately at such, if any, time as such affiliated person or entity ceases to be an affiliate of Sunset, and, *provided further*, that Sunset shall remain responsible for all acts and omissions of such affiliate in the performance of this Agreement;

(b) to any third party in connection with any merger, consolidation or reorganization involving Sunset (regardless of whether Sunset is a surviving or disappearing entity), or a sale of all or substantially all of Sunset’s business or assets relating to this Agreement to an unaffiliated third party of good financial standing; or

(c) by any owner of Sunset, to (i) a member of such owner’s Immediate Family; (ii) any trust, the sole beneficiaries of which are members of such owner’s Immediate Family; or (iii) any entity the sole owners of which are members of such Sunset owner’s Immediate Family.

(d) Notwithstanding anything to the contrary contained in this Agreement, Sunset



shall have the absolute right, without the consent of any Party, to undergo a direct or indirect change of control by any available means, including by issuing equity interests and/or issuing debt (including any security interest or collateralization of the debt) by Sunset, in its sole discretion.

(6) Successors. This Agreement is binding on and inures to the benefit of the Parties hereto and their respective permitted successors and assigns.

(7) Waiver of Right of Approval Fee. As an acknowledgement of the permanent loss of the right of approval contained in the CPC OptiNet Agreement, upon the first occurrence of an assignment of the nature contemplated in Section 13(A)(5)(b), Sunset shall pay CPC a fee of One Million Dollars (\$1,000,000.00). No Waiver of Right Approval Fee under this section shall be due or payable if Section 13(A)(5)(b) is triggered by debt financing by Sunset.

B. Confidentiality. In addition to any covenants related to confidentiality contained or referenced in this Agreement, with respect to this Section 13 and information that may be disclosed by either party, the Parties agree as follows:

(1) Purpose of Disclosure. The Parties agree that the sole purpose for the disclosure of the Confidential Information by a Party is or shall be to enable the Party receiving the Confidential Information to evaluate the Party's responsibilities and obligations under this Agreement ("**Purpose**"). Confidential Information may not be disclosed by a Party to any person other than its members of the Boards of Directors, employees, attorneys, agents, or such other Parties who have a need-to-know status; *provided, however*, that all such Parties have agreed to treat the information as Confidential Information consistent with this requirement.

(2) Non-Confidential. The requirements of confidentiality shall not apply to the following information: (a) information known to a Party at the time of disclosure and not obtained under a confidential relationship; (b) information learned by a Party from a third party lawfully holding same and not disclosing the information in violation of an obligation of confidentiality; (c) information that subsequently becomes generally known other than as the result of wrongful disclosure; and (d) information required to be disclosed publicly by law or regulation to the extent so disclosed, but only after prior written notice to disclosing Party of such requirement prior to such disclosure.

(3) Confidential Information. Pursuant to this Section 13, all nonpublic information of any kind related to an assignment or other transfer of a party's rights under this Agreement furnished by Company or any of its officers, employees, agents or representatives to recipient, in whatever form, tangible or intangible, whether orally or in writing, shall be "**Confidential Information**" governed by this Agreement. Any documents or other tangible information containing Confidential Information shall be marked as "**Confidential Information**" by the discloser before providing same to recipient or otherwise identified as Confidential Information by the disclosure in writing at the time of transmittal to recipient. Information disclosed to other private sources (such as financing institutions) shall be deemed nonpublic information. Confidential Information includes but is not limited to nonpublic information about: (a) discloser's assignment plans and related information; (b) all discussions, negotiations, proposals and agreements between discloser and recipient, whether or not executed; (c) third-party information held by the discloser in confidence; and (f) any information embodying or developed in whole or in part on any of the foregoing.

(4) Confidential Preservation. Recipient shall take measures at least as stringent as the measures it takes to preserve its own proprietary information, and in no event less than reasonable measures, to safeguard the Confidential Information against unauthorized use or disclosure.

(5) Non-Disclosures. Recipient shall hold in confidence all Confidential Information. Recipient shall not use the Confidential Information, in whole or in part, directly or indirectly for any use or purpose except for the Purpose defined above (or any other purposes as expressly authorized in writing by an officer of Company). The Recipient shall (a) restrict disclosure of the Confidential Information to those Grantors, counsel, Consultants,



directors, officers and employees of Recipient who are directly responsible for the Recipient's fulfillment of the Purpose and who have signed a copy of this Agreement ; (b) disclose the Confidential Information only to the extent it is strictly necessary for those Grantors, counsel, Consultants, directors, officers and employees to perform such duties for the Recipient; and (c) disclose confidential information to the representatives of the Grantors only to the extent necessary to fulfill the Purpose of the disclosure.

(6) Survival. The obligations of confidentiality and non-use regarding the Confidential Information shall survive this Agreement without limitation in duration for a period of Five (5) years following the termination of this Agreement.

(7) Equitable Relief. Recipient acknowledges that the restrictions contained in this Agreement are, in view of the nature of the business of discloser, reasonable and necessary to protect the legitimate interests of the discloser, and that any violation of any provisions of this Agreement will likely result in irreparable injury to the discloser. Recipient acknowledges that the discloser shall be entitled to temporary and permanent injunctive relief and to other equitable relief including, without limitation, an equitable accounting of all earnings, profits and other benefits or uses, advances or developments arising from any such violation, which rights shall be cumulative of and in addition to any other rights or remedies to which the discloser may be entitled. The discloser will not be required to place a bond to enforce its rights hereunder.

(8) Conflict. In the event of a conflict between the terms of this Section 13 and any other confidentiality agreement between the Parties, this provision shall control unless in such other agreement the Parties specifically identify this Section 13 and alter provisions contained herein.

#### **SECTION 14. TAXES AND ASSESSMENTS.**

Sunset shall remit to the appropriate authorities, when due, any federal, state and local sales, use, excise, utility, gross revenue, privilege, income (if not exempt), or other similar taxes and regulatory fees and assessments which might be duly imposed upon the CPC OptiNet. Such federal, state and local sales, use, excise, utility, gross revenue, privilege, income (if not exempt), or other similar taxes and regulatory fees and assessments remitted by Sunset to the appropriate authorities shall not be deducted from the calculation of Gross Revenue; *provided, however*, the Cumberland Plateau Parties acknowledge that they are responsible for the taxes, if any, on the CPC OptiNet assets owned by the Cumberland Plateau Parties.

#### **SECTION 15. COMPLIANCE WITH LAWS.**

During the Term, the Parties shall comply with all federal, state, and local laws and regulations applicable to this Agreement and to their respective businesses. Further, each Party shall obtain, file and maintain any tariffs, permits, certifications, authorizations, licenses or similar documentation as may be required by the FCC, Virginia's State Corporation Commission, or any other governmental body or agency having competent jurisdiction over its business. The Parties will cooperate in arranging such compliance.

#### **SECTION 16. REPRESENTATIONS AND WARRANTIES.**

A. Sunset Representations and Warranties. Sunset represents and warrants to the other Parties that the statements below are true and correct as of the Effective Date:

(1) Organization of Sunset. Sunset is a corporation duly organized, validly existing and in good standing under the laws of the Commonwealth of Virginia. Sunset is qualified to do business and is in good standing in each jurisdiction in which it is required to be as a result of the transactions contemplated by this Agreement.

(2) Authority of Sunset. Sunset has full corporate power and authority to enter into this Agreement, to carry out its obligations hereunder and thereunder and to consummate the transactions contemplated hereby. The execution and delivery by Sunset of this Agreement, the performance by Sunset of its



obligations hereunder and thereunder and the consummation by Sunset of the transactions contemplated hereby and thereby have been duly authorized by all requisite corporate action on the part of Sunset. This Agreement has been duly executed and delivered by Sunset, and (assuming due authorization, execution and delivery by the Cumberland Plateau Parties) this Agreement constitutes a legal, valid and binding obligation of Sunset enforceable against Sunset in accordance with its terms.

(3) No Conflicts; Consents. The execution, delivery and performance by Sunset of this Agreement, and the consummation of the transactions contemplated hereby, does not and will not: (a) conflict with or result in a violation or breach of, or default under, any provision of the certificate of incorporation, bylaws or other organizational documents of Sunset; (b) conflict with or result in a violation or breach of any provision of any law or governmental order applicable to Sunset; or (c) require the consent, notice or other action by any person under any Contract to which Sunset is a party or result in a breach of any such Contract. No consent, approval, permit, governmental order, declaration or filing with, or notice to, any governmental authority is required by or with respect to Sunset about the execution and delivery of this Agreement and the consummation of the transactions contemplated hereby.

B. CPPDC Representations and Warranties. CPPDC represents and warrants to the other Parties that the statements below are true and correct as of the Effective Date:

(1) Organization and Qualification. CPPDC is a political subdivision of the Commonwealth of Virginia duly organized pursuant to Section 15.2-4200 *et seq.* of the Code and validly existing under the laws of the Commonwealth of Virginia. CPPDC has full corporate power and authority to own, operate or lease the properties and assets now owned, operated or leased by it and to carry on its business as currently conducted.

(2) Authority of the CPPDC. CPPDC has full corporate power and authority to enter into this Agreement, to carry out its obligations hereunder and thereunder and to consummate the transactions contemplated hereby and thereby. The execution and delivery by CPPDC of this Agreement, the performance by CPPDC of its obligations hereunder and thereunder and the consummation by CPPDC of the transactions contemplated hereby have been duly authorized by all requisite corporate action on the part of CPPDC. This Agreement has been duly executed and delivered by CPPDC, and (assuming due authorization, execution and delivery by Sunset) this Agreement constitutes a legal, valid and binding obligation of CPPDC enforceable against CPPDC in accordance with its terms.

(3) No Conflicts; Consents. The execution, delivery and performance by CPPDC of this Agreement, and the consummation of the transactions contemplated hereby and thereby, do not and will not: (a) conflict with or result in a violation or breach of, or default under, any provision of the certificate of incorporation, by-laws or other organizational documents of CPPDC or (b) conflict with or result in a violation or breach of any provision of any law applicable to CPPDC or the assets of the Cumberland Plateau Parties or require the consent, notice or other action by any person under, conflict with, result in a violation or breach of, constitute a default or an event that, with or without notice or lapse of time or both, would constitute a default under, result in the acceleration of or create in any Party the right to accelerate, terminate, modify or cancel any contract, permit, license, franchise or grant of public funds to which CPPDC is a party or by which CPPDC or the CPC OptiNet is bound or to which any of the assets of the Cumberland Plateau Parties are subject. No consent, approval, permit, governmental order, declaration or filing with, or notice to, any governmental authority is required by or with respect to CPPDC about the execution and delivery of this Agreement or the consummation of the transactions contemplated hereby.

C. CPC Representations and Warranties. CPC represents and warrants to the other Parties that the statements below are true and correct as of the Effective Date:

(1) Organization and Qualification. CPC is a nonstock corporation duly organized and validly existing under the laws of the Commonwealth of Virginia and has full corporate power and authority to own, operate



or lease the properties and assets now owned, operated or leased by it and to carry on the Business as currently conducted.

(2) Authority of the CPC. CPC has full corporate power and authority to enter this Agreement, to carry out its obligations hereunder and thereunder and to consummate the transactions contemplated hereby and thereby. The execution and delivery by CPC of this Agreement, the performance by CPC of its obligations hereunder and thereunder and the consummation by CPC of the transactions contemplated hereby have been duly authorized by all requisite corporate action on the part of CPC. This Agreement has been duly executed and delivered by CPC, and (assuming due authorization, execution and delivery by Sunset) this Agreement constitutes a legal, valid and binding obligation of CPC enforceable against CPC in accordance with its terms.

(3) No Conflicts; Consents. The execution, delivery and performance by CPC of this Agreement, and the consummation of the transactions contemplated hereby and thereby, do not and will not: (a) conflict with or result in a violation or breach of, or default under, any provision of the certificate of incorporation, by-laws or other organizational documents of CPC; or (b) conflict with or result in a violation or breach of any provision of any law applicable to CPC or the assets of the Cumberland Plateau Parties. No consent, approval, permit, governmental order, declaration or filing with, or notice to, any governmental authority is required by or with respect to CPC in connection with the execution and delivery of this Agreement and the consummation of the transactions contemplated hereby.

#### **SECTION 17. INTELLECTUAL PROPERTY RIGHTS.**

Sunset shall be the owner of and will remain the owner of all Intellectual Property Rights created, conceived, prepared, made, discovered or produced with respect to the CPC OptiNet.

#### **SECTION 18. INDEMNIFICATION.**

A. Each Party shall defend, indemnify and hold harmless the other Parties and their affiliates, directors, officers, shareholders, employees, representatives and agents from any and all claims, taxes, penalties, interest, expenses, damages, lawsuits, actions, demands or other liabilities (including without limitation, reasonable attorneys' fees and court costs) relating to or arising out of one or more of the following:

- (1) Any breach of any covenant or obligation of such Party contained in this Agreement;
- (2) Any violation of criminal law;
- (3) Any act or omission committed by Sunset in the discharge of its Operating Responsibilities which gives rise to a complaint, claim, demand, lawsuit or arbitration against one or both of the Cumberland Plateau Parties, and/or which results in a finding of damages against one or both of the Cumberland Plateau Parties;
- (4) Any grossly negligent act of such Party; or,
- (5) Any claims that may be asserted by the EDA, NTIA, or Tobacco Commission resulting from actions or inactions of such Party.

B. Operator Indemnity. Sunset hereby agrees to indemnify and hold harmless the Cumberland Plateau Parties, the VCC, and the Tobacco Commission (collectively, the "**Indemnified Group**"), their respective officers, directors and employees, for any and all claims or causes of action asserted against a member of the Indemnified Group or damages awarded against a member of the Indemnified Group arising out of Sunset's discharge of the Operating Responsibilities.

#### **SECTION 19. NOTICES.**



Whenever any notice or other communication or any other item is permitted or required to be given or delivered pursuant to this Agreement, such notice must be given in writing and will be deemed to have been delivered upon occurrence of any of the following:

- (1) When received, if hand delivered in person directly to the intended recipient (including by commercial delivery service);
  - (2) Three (3) days after being mailed, postage prepaid, by certified mail, return receipt requested;
  - (3) Two (2) days after being sent by a nationally recognized overnight courier such as FedEx;
- or,
- (4) When sent by facsimile or email, and a confirmation of delivery is received by the sender.

Such notice must be addressed, or faxed, as the case may be, as follows:

If to CPC:

Cumberland Plateau Company, Inc.  
Post Office Box 548  
Lebanon, Virginia 24266  
Attention: Executive Director

With a copy to:

Hunton Andrews Kurth LLP  
Riverfront Plaza, East Tower  
951 East Byrd Street  
Richmond, Virginia 23219  
Attention: Lonnie Nunley, Esq.  
Email: cnunley@hunton.com

If to CPPDC:

Cumberland Plateau Planning District Commission  
Post Office Box 548  
Lebanon, Virginia 24266  
Attention: Executive Director

With a copy to:

Hunton Andrews Kurth LLP  
Riverfront Plaza, East Tower  
951 East Byrd Street  
Richmond, Virginia 23219  
Attention: Lonnie Nunley, Esq.  
Email: cnunley@hunton.com

If to Sunset:

Sunset Fiber, LLC  
1791 O.G. Skinner Drive,  
West Point, Georgia 31833



E-mail: cwachter@itcholding.com

With a copy to:

Maynard, Cooper & Gale, P.C.  
655 Gallatin Street SW  
Huntsville, Alabama 35801  
E-mail: mjohnson@maynardcooper.com

**SECTION 20. CONFIDENTIAL INFORMATION.**

A. Virginia Freedom of Information Act. Notwithstanding the foregoing, the Parties acknowledge that the Cumberland Plateau Parties and the Tobacco Commission are subject to the Virginia Freedom of Information Act and that certain Confidential Information may be required by law to be disclosed to comply with the provisions of the Virginia Freedom of Information Act; however, until required or compelled to make such a disclosure, the Cumberland Plateau Parties and the Tobacco Commission shall treat information from Sunset marked “**CONFIDENTIAL**” as confidential under the Virginia Freedom of Information Act. The Cumberland Plateau Parties and the Tobacco Commission agree to promptly, and in no event less than Twenty-Four (24) hours after receipt, notify Sunset of any inquiry, demand or request that may be disclosed pursuant to the Virginia Freedom of Information Act requiring a disclosure of Confidential Information of Sunset. Prior to any such disclosure the Cumberland Plateau Parties and the Tobacco Commission will provide Sunset a reasonable opportunity to attempt to secure confidential treatment of any such Confidential Information. Likewise, in the event Sunset receives a demand or court action requiring the release of Confidential Information of the Cumberland Plateau Parties or the Tobacco Commission, Sunset will promptly, and in no event less than Twenty-Four (24) hours after receipt, notify the Cumberland Plateau Parties and the Tobacco Commission, as the case may be, of such request or demand. The Parties agree that Sunset may review certain information with the Cumberland Plateau Parties that Sunset retains in its possession.

B. Other Agreements. The confidentiality agreement stated in this Section 20 is in addition to any confidentiality agreement signed by the Parties, if any, and in addition the provisions of Section 13(B), and, in the event of a conflict between this Section 20 and such separate confidentiality agreement, the provisions of the separate confidentiality agreement shall control, and, in the event of a conflict between the provisions of this Section 20 and Section 13(B), the provisions of Section 13(B) shall control.

**SECTION 21. FORCED DIVESTITURE.**

A. Cumberland Plateau Parties. In the event the Cumberland Plateau Parties should be compelled to divest their ownership to avoid forfeiture of rights to provide services as contemplated by this Agreement, due to provisions of law, such as Section 56-484.7:4 of the Code, or for any other reason the Cumberland Plateau Parties become unable to provide services as contemplated by this Agreement, then, in any such event, Sunset shall have the option to acquire all of the Cumberland Plateau Parties’ ownership of the infrastructure within the CPC OptiNet, including, without limitation, all cable and electronics, subject to the following: (i) the transfer must be approved by the EDA, NTIA and Tobacco Commission, if those grant conditions are still applicable, and (ii) the transfer price of the Cumberland Plateau Parties’ interests to be divested must be reasonable compensation which would reflect its ownership rights, depreciation and the assets’ worth at the time.

B. Sunset. In the event that Sunset should be compelled to divest its ownership interest in the CPC OptiNet to avoid forfeiture of rights to provide services as contemplated by this Agreement, due to provisions of law, such as Section 56-484.7:4 of the Code, or for any other reason Sunset becomes unable to provide services as contemplated by this Agreement, then, in any such event, the Cumberland Plateau Parties shall have the option to acquire all of Sunset’s ownership of the infrastructure within the CPC OptiNet, including, without limitation, all cable and electronics, subject to the following: (i) the transfer must be approved by the EDA, NTIA, and Tobacco Commission, if those grant conditions are still applicable, and (ii) the transfer price of Sunset’s interests to be



divested must be reasonable compensation which would reflect its ownership rights, depreciation and the assets' worth at the time, and the value of the CPC OptiNet business enterprise.

**SECTION 22. DISCLAIMER AND LIMITATION OF WARRANTIES.**

A. **DISCLAIMER OF WARRANTIES.** EXCEPT AS SET FORTH HEREIN, EACH PARTY EXPRESSLY DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, IN RELATION TO THE CPC OPTINET OR THE SUNSET SERVICES. SUNSET MAKES NO WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND NON-INFRINGEMENT RELATED TO THE CPC OPTINET, THE CURRENT SERVICES, SUNSET SERVICES OR THIS AGREEMENT.

B. **LIMITATIONS OF LIABILITY.** EXCEPT FOR ANY UNAUTHORIZED USE OR DISCLOSURE OF SUNSET'S INTELLECTUAL PROPERTY RIGHTS, OR A PARTY'S BREACH OF CONFIDENTIALITY OBLIGATIONS HEREUNDER, IN NO EVENT WILL ANY PARTY BE LIABLE TO ANY OTHER PARTY FOR ANY INDIRECT, CONSEQUENTIAL, SPECIAL, INCIDENTAL, RELIANCE, OR PUNITIVE DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO ANY LOST PROFITS, LOST REVENUES, LOST SAVINGS, OR HARM TO BUSINESS, AND EXCEPT AS SET FORTH AT THE BEGINNING OF THIS SECTION, EACH PARTY HEREBY RELEASES THE OTHER PARTY, ITS SUBSIDIARIES, PARENT COMPANIES AND AFFILIATES, AND THEIR RESPECTIVE TRUSTEES, OFFICERS, DIRECTORS, MANAGERS, COUNCIL MEMBERS, EMPLOYEES, AND AGENTS, FROM ANY SUCH CLAIM FOR SUCH TYPES OF DAMAGES. EXCEPT FOR ANY BREACH OF SUNSET'S INTELLECTUAL PROPERTY RIGHTS, OR A PARTY'S CONFIDENTIALITY OBLIGATIONS HEREUNDER, IN NO EVENT SHALL THE AGGREGATE LIABILITY OF ANY PARTY FOR ANY BREACH OF THIS AGREEMENT EXCEED TWO MILLION DOLLARS \$2,000,000.00; *PROVIDED, HOWEVER*, THIS LIMIT OF LIABILITY SHALL NOT AFFECT THE ACTUAL FINANCIAL PAYMENT DUE TO THE CUMBERLAND PLATEAU PARTIES NOR THE DAMAGES OBTAINABLE BY SUNSET AGAINST THE CUMBERLAND PLATEAU PARTIES FOR A BREACH OF THIS AGREEMENT. IN PARTICULAR, WITH RESPECT TO CONSTRUCTION, SUNSET'S ENTIRE LIABILITY FOR ANY DAMAGE CAUSED TO THE PARTIES BY ANY CONSTRUCTION WORK PERFORMED BY OR FOR SUNSET WILL BE LIMITED TO THE COST OF REPAIRING PHYSICAL PROPERTY DAMAGE THAT OCCURS AT THE SITE OF CONSTRUCTION. THE LIMITATION OF LIABILITY SET FORTH IN THIS SECTION 22 IS A FUNDAMENTAL BASIS OF THIS AGREEMENT; AND EACH PARTY UNDERSTANDS AND AGREES THAT THE OTHER WOULD NOT HAVE ENTERED INTO THIS AGREEMENT WITHOUT THIS LIMITATION OF LIABILITY.

**SECTION 23. ASSIGNMENT OF THE CPC OPTINET AGREEMENT.**

By execution of this Agreement, the Cumberland Plateau Parties hereby confirm their consent to the assignment of the CPC OptiNet Agreement from BVU Authority to Sunset and the Parties hereto agree that once this Agreement is executed, this Agreement will govern the relation of Sunset and the Cumberland Plateau Parties going forward.

**SECTION 24. MISCELLANEOUS.**

A. **Independent Contractors.** Nothing in this Agreement, or in the course of dealing between the Parties pursuant to this Agreement, shall be deemed to create between the Parties (including their respective affiliates, directors, officers, employees and agents) a partnership, joint venture, association, employment relationship or any other relationship, other than that of independent contractors with respect to each other. No Party shall have the authority to commit or legally bind any other Party, in any manner whatsoever, including, but not limited to, the acceptance or making of any Agreement, representation or warranty.

B. **Waivers and Amendment.** No waiver of any term or condition of this Agreement will be enforceable unless it is in writing and signed by each Party. No failure or delay by a Party in exercising any right, power or remedy will operate as a waiver of such right, power or remedy. The waiver by a Party of any of the covenants, conditions or Agreements to be performed by another Party or any breach thereof shall not operate or be construed as a waiver of any subsequent breach of this covenant, condition or Agreement. No



waiver of any rights under this Agreement or any modifications or amendments of this Agreement will be effective or enforceable, unless in writing and signed by all Parties affected by such amendment.

C. Cumulative Rights and Remedies. Except as may otherwise be provided in this Agreement, the rights and remedies set forth in this Agreement are cumulative and the assertion by a Party of any right or the obtaining of any remedy under this Agreement, other than arbitration, shall not preclude this Party from asserting or obtaining any other right or remedy, at law or in equity, under this Agreement.

D. Dispute Resolution. Except as specifically set forth in this Agreement, the Parties will attempt to resolve all disputes, disagreements, or controversies arising in connection with the Agreement through good faith negotiations to reach a mutually acceptable resolution. If, after negotiating in good faith for a Thirty (30) day period, the Parties are unable to resolve the dispute, then the Parties may seek restitution by exercising any rights or remedies available to such Party at law or equity. The Parties specifically retain the right to seek a trial by jury in the event of a civil action arising out of this Agreement and the obligations herein.

E. Governing Law. This Agreement shall be governed by the laws of the Commonwealth of Virginia without regard to any choice of law principles that could result in the application of the laws of any other jurisdiction.

F. Expenses. All costs and expenses incurred in connection with this Agreement and each other agreement, document, and instrument contemplated by this Agreement and the transactions contemplated hereby shall be paid by the Party incurring such costs and expenses.

G. Business Days. If any date on which a Party is required to make a payment or a delivery pursuant to the terms hereof is not a Business Day, then such Party shall make such payment or delivery on the next succeeding Business Day.

H. Further Assurance. Each of the Parties hereto shall, and shall cause their respective affiliates to, execute and deliver such additional documents, instruments, conveyances, and assurances and take such further actions as may be reasonably required to carry out the provisions hereof and give effect to the transactions contemplated hereby.

I. Interpretation. For purposes of this Agreement, (a) the words "include," "includes," and "including" are deemed to be followed by the words "without limitation;" (b) the word "or" is not exclusive; and (c) the words "herein," "hereof," "hereby," "hereto," and "hereunder" refer to this Agreement as a whole. Unless the context otherwise requires, references herein: (x) to sections, schedules, and exhibits mean the sections of, and schedules and exhibits attached to, this Agreement; (y) to an agreement, instrument, or other document means such agreement, instrument, or other document as amended, supplemented, and modified from time-to-time to the extent permitted by the provisions thereof; and (z) to a statute means such statute as amended from time-to-time and includes any successor legislation thereto and any regulations promulgated thereunder. This Agreement shall be construed without regard to any presumption or rule requiring construction or interpretation against the Party drafting an instrument or causing any instrument to be drafted. The schedules and exhibits referred to herein shall be construed with, and as an integral part of, this Agreement to the same extent as if they were set forth verbatim herein.

J. Force Majeure. No Party will be deemed in default under this Agreement if it is prevented from performing any of the obligations under this Agreement by reason of severe weather and storms, earthquakes or other natural occurrences, strikes or other labor unrest or third parties, power failures, terrorist activity, nuclear or other civil or military emergencies, acts of legislative, judicial, executive or administrative authorities, or other similar circumstances that are not within its reasonable control and ability to prevent (a "**Force Majeure**" event). In the event of a *Force Majeure* event, the Party who first becomes aware of the event must promptly give written notice to the other Party of such event.



K. Headings. The Section titles and headings of this Agreement are intended only to be of convenience in locating provisions, and shall have no effect upon the construction or interpretation of any part of this Agreement.

L. Construction. This Agreement is the joint work product of all Parties. Accordingly, in the event of ambiguity, no presumption will be imposed against any Party by reason of document preparation.

M. Third Parties. Except for the right of the NTIA to enforce any provisions of the terms and conditions of the BTOP Grant and the rights of the Tobacco Commission to enforce any provisions of the terms and conditions of VTC Grants, the provisions of this Agreement and the rights and obligations created under this Agreement are intended for the sole benefit of the Parties executing this Agreement, and such provisions do not create any right, claim or benefit on the part of any person not a party to this Agreement, including customers or beneficiaries of the Parties.

N. Survival of Provisions. All applicable provisions of this Agreement, including, without limitation, ownership provisions contained in preceding Section 1, Section 2(B), Section 11(D), Section 11(E), Section 13(B), Sections 16 through 20, Section 22, and Section 24, survive the termination or expiration of this Agreement.

O. Execution of Counterparts. This Agreement will be executed in three separate counterparts, each of which, when so executed and delivered, shall be an original, but all such counterparts shall together constitute but one and the same instrument.

P. Joint and Several Obligations. All obligations of the CPC and the CPPDC shall be joint and several obligations with respect to acts or commissions of any other Party to this Agreement. Similarly, all obligations of Sunset Digital and Sunset Fiber shall be joint and several obligations with respect to acts or commissions of any other Party to this Agreement.

Q. Integration. This Agreement represents the entire Agreement between the Parties with respect to any obligations to be performed pursuant to this Agreement and supersedes and merges all prior Agreements, promises, undertakings, statements, representations, warranties, indemnities, and inducements to the making of this Agreement relied upon by the Parties, whether written or oral. This Agreement replaces in all respects the CPC OptiNet Agreement.

R. Severability. If any term or provision of this Agreement is invalid, illegal, or unenforceable in any jurisdiction, such invalidity, illegality, or unenforceability shall not affect any other term or provision of this Agreement or invalidate or render unenforceable such term or provision in any other jurisdiction. Upon such determination that any term or other provision is invalid, illegal, or unenforceable, the Parties hereto shall negotiate in good faith to modify this Agreement so as to effect the original intent of the Parties as closely as possible in a mutually acceptable manner in order that the transactions contemplated hereby be consummated as originally contemplated to the greatest extent possible.

S. Remedies; Specific Performance. Except as provided otherwise in this Agreement, all rights and remedies granted to the Parties under this Agreement are cumulative and in addition to, and not in lieu of, any other rights or remedies otherwise available to such Party at law or in equity. The Parties agree that irreparable damage would occur in the event any provision of this Agreement were not performed in accordance with the terms hereof and that the Parties shall be entitled to specific performance of the terms hereof in addition to any other remedy at law or in equity, including monetary damages, that may be available to it.

[Signature Page Follows]



[SIGNATURE PAGE TO CPC OPTINET OPERATOR AGREEMENT]

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed as of the date first written above.

CUMBERLAND PLATEAU PLANNING DISTRICT COMMISSION

By: G. Roger Rife  
G. Roger Rife  
Chairman of the Board

CUMBERLAND PLATEAU COMPANY, INC.

By: G. Roger Rife  
G. Roger Rife  
Chairman of the Board

SUNSET DIGITAL HOLDING, LLC

By: M. Todd Holt  
Todd Holt  
Chief Executive Officer

SUNSET DIGITAL COMMUNICATIONS, LLC

By: M. Todd Holt  
Todd Holt,  
Chief Executive Officer

SUNSET FIBER, LLC

By: M. Todd Holt  
Todd Holt,  
Chief Executive Officer



**Schedule 1**

**VTC Grants**

(A) *Grant Number 501*, granted pursuant to that certain Letter of Agreement – Grant Funds dated July 10, 2003 in the amount of One Million Nine Hundred Thirty Thousand Dollars (\$1,930,000.00) for the project entitled “*BVU High Speed Bandwidth in Rural Areas*”;

(B) [?] *Grant Number 962*, granted pursuant to that certain Letter of Agreement – Grant Funds dated August 18, 2005 for One Million Two Hundred Thousand Dollars (\$1,200,000.00) for the project entitled “*Fiber - Optic Backbone Infrastructure – Rural Retreat to Bluefield*”;

(C) *Grant Number 1303*, granted pursuant to that Letter of Agreement – Grant Funds by and among the BVU Authority and the [CPPDC][CPC] dated April 26, 2007 for Four Hundred Thousand Dollars (\$400,000.00), for the installation of fiber optic infrastructure in the Town of Tazewell, Virginia;

(D) *Grant Number 1471*, granted pursuant to that Letter of Agreement – Grant Funds dated December 3, 2007 for Five Million Two Hundred Thousand Dollars (\$5,200,000.00) for the installation of Backbone fiber optic infrastructure for southwest fiber routes;

(E) *Grant Number 1768*, [OPEN] granted pursuant to that certain Letter of Agreement- Grant Funds by and among the BVU Authority and [CPC][CPPDC] dated January 13, 2009 in the amount of One Million Two Hundred Fifty Thousand Dollars (\$1,250,000.00) to complete the project entitled “*Fiber Optic Infrastructure in the CPPDC*”;

(F) [?] *Grant Number 1811*, granted pursuant to that certain Letter of Agreement – Grant Funds dated November 4, 2009 in the amount of Three Million Five Hundred Thousand Dollars (\$3,500,000.00) for Southwest Virginia diverse route to Mid-Atlantic Broadband;

(G) [?] *Grant Number 1185*, granted pursuant to that certain Letter of Agreement – Grant Funds dated \_\_\_\_\_ in the amount of Two Hundred Thirteen Thousand Dollars (\$213,000.00) for \_\_\_\_\_;

(H) [?] *Grant Number 2070*, granted pursuant to that certain Letter of Agreement – Grant Funds by and among the VTRRC, the BVU Authority and the CPPDC dated \_\_\_\_\_ in the amount of Five Million Six Hundred Fifty-Nine Thousand Five Hundred Two Dollars (\$5,659,502.00) for matching funds for the NTIA Grant for the Middle Mile Construction Projects; and

(I) [?] *Grant Number 2391*, granted pursuant to that certain Letter of Agreement – Grant Funds dated September 29, 2011 in the amount One Million Eight Hundred Thousand Dollars (\$1,800,000.00) for the completion for the project entitled “*BVU Southwest Virginia Last Mile Fiber Expansion Project*”.



**Exhibit A**

**EDA Letter**

**(Attached)**



**Exhibit B**

**ITC COMMITMENT LETTER**



Exhibit C

NTIA LETTER



**EXHIBIT D**

**Consent of Virginia Coalfield Coalition**

**TO BE FINALIZED AND INSERTED UPON THE CONSENT OF THE VCC.**



## Exhibit E

### NTIA Grant Terms and Conditions

The NTIA Grant remains subject to “*Special Award Conditions to Award Number NT10BIX5570066 Amendment Number 0*” (“Special Conditions Amendment 0”) and “*Special Award Conditions to Award Number NT10BIX5570066 Amendment Number 2*” (“Special Conditions Amendment 2”). The NTIA Grant award has expired, but the following remaining grant conditions of are ongoing:

- (1) Special Conditions Amendment Paragraph 7 Infrastructure-Wide SACs
  - (a) **Nondiscrimination and Interconnection:** The recipient shall comply with the nondiscrimination and network interconnection obligations set forth in section V.D.3.b. of the NOFA and in Section 6001(j) of the Recovery Act. Recipients may be asked to provide supporting documentation upon request from the Grants Officer. Failure to comply with this provision of the award may be considered grounds for any and all of the following actions: establishment of an account receivable for affected BTOP award, withholding payments under any and all BTOP awards to the recipient, changing the method of payment from advance to reimbursement only, or the imposition of other special award conditions, suspension of any BTOP active awards, and termination of any BTOP active awards.
  - (b) **Sale or Lease of Real Property Purchased Award Funds:** Recipients may not sell or lease any portion of the award-funded broadband facilities or equipment during their life, except as otherwise approved by NTIA. NTIA will consider a petition for waiver of the restriction if: (1) the transaction is for adequate consideration; (2) the purchaser or lessee agrees to fulfill the terms and conditions relating to the project after such sale or lease; and, (3) the transaction would be in the best interests of those served by the project. The petition for waiver may be submitted at any time during the life of the award-funded facilities and equipment, and it must include supporting documentation and justification regarding why the petition should be granted. This requirement is not meant to limit CCI awardees from leasing facilities to another service provider for the provision of broadband services, nor is this section meant to restrict a transfer of control of the awardee (NOFA, Section IX.C.2.)
  - (c) **Security Interest in Real Property including Broadband Facilities and Equipment:** The recipient shall execute a security interest or other statement of NTISs interest in real property including broadband facilities and equipment acquired or improved with Federal funds acceptable to NTIA, which must be perfected and placed on record in accordance with local law. This security interest will provide that, for the estimated useful life of the real property, facilities, or equipment, the recipient will not sell, transfer, convey, or mortgage any interest in the real property including broadband equipment acquired or improved in whole or in part with Federal funds made available under the award, nor shall the recipient use the real property including broadband facilities and equipment for purposes other than the purposes for which the award was made, without prior written approval of the Grants Officer. Such approval may be withheld until such



time as the recipients first pays to NTIA the Federal Share of the real property including broadband facilities and equipment as provided in 15 CFR 14.32 (15 CFR 24.13) for state, local or other governmental entities). This security interest shall be executed in advance of any sale or lease and not later than closeout of the grant.

(2) Department of Commerce NTIA Broadband Technology Opportunities Program Notice of Funds Availability<sup>1</sup> announced the NTIA focus on the “comprehensive communities” approach to “award BTOP grants for infrastructure projects that emphasize Middle Mile broadband capabilities and new or substantially upgraded connections to community anchor institutions to maximize the benefits of BTOP funds.” By focusing on this approach, the NTIA Section 6001 of the American Recovery and Reinvestment Act of 2009 provides the following statutory purposes for the national broadband service development effort:

- (a) To provide access to broadband service to consumers residing in unserved areas of the country;
- (b) To provide improved access to broadband service to consumers residing in underserved areas of the country;
- (c) To provide broadband education, awareness, training, access, equipment, and support to: (i) schools, libraries, medical and healthcare providers, community colleges and other institutions of higher learning, and other community support organizations; (ii) organizations and agencies that provide outreach, access, equipment and support services to facilitate greater use of broadband services to facilitate greater use of broadband services by vulnerable populations (e.g., low-income, unemployed, aged); or (iii) job-creating strategic facilities located in state or Federally-designated economic development zones;
- (d) To improve access to, and use of broadband service by public safety agencies; and,
- (e) To stimulate the demand for broadband, economic growth, and job creation.<sup>2</sup>

(3) Sunset acknowledges these policy goals and commits to maintain the Optinet system in a manner that adheres to these policy goals. As further explained by the NTIA in the Second Notice of Funds Availability, “Once Middle Mile facilities are built, the costs of providing services to a broad array of end users are reduced. Much like the interstate highways that link together the nation’s roads and streets, Middle Mile broadband facilities play a critical role in the healthy functioning of the nation’s broadband infrastructure and are a necessary foundation for the ultimate provision of affordable end-user broadband services in unserved and underserved communities.”<sup>3</sup>

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<sup>1</sup> Broadband Technologies Opportunity Program, 75 Fed. Reg. 3,792 (2010) (SECOND NOFA).

<sup>2</sup> See American Recovery and Reinvestment Act of 2009, Pub. L. No. 111-5, 123 Stat. 115, 128 (2009).

<sup>3</sup> SECOND NOFA, at 3795.



## Excerpt from Second NOFA

### 3. Additional Requirements Applicable to Comprehensive Community Infrastructure Applicants

#### a. Broadband Service

All CCI applicants must propose to offer service meeting the definition of broadband as defined in Section III.

#### b. Nondiscrimination and Interconnection

All CCI applicants must commit to the following Nondiscrimination and Interconnection Obligations:<sup>4</sup>

- (i) Adhere to the principles contained in the FCC's Internet Policy Statement (FCC 05-151, adopted August 5, 2005) or any subsequent ruling or statement;
- (ii) not favor any lawful Internet applications and content over others;
- (iii) display any network management policies in a prominent location on the service provider's Web page and provide notice to customers of changes to these policies (awardees must describe any business practices or technical mechanisms they employ, other than standard best efforts Internet delivery, to allocate capacity; differentiate among applications, providers, or sources; limit usage; and manage illegal or harmful content);
- (iv) connect to the public Internet directly or indirectly, such that the project is not an entirely private closed network; and
- (v) offer interconnection, where technically feasible without exceeding current or reasonably anticipated capacity limitations, at reasonable rates and terms to be negotiated with requesting parties. This includes both the ability to connect to the public Internet and physical interconnection for the exchange of traffic. Applicants must disclose their proposed interconnection, nondiscrimination, and network management practices with the application.

All these requirements shall be subject to the needs of law enforcement and reasonable network management. Thus, awardees may employ generally accepted technical measures to provide acceptable service levels to all customers, such as caching (including content delivery networks) and application-neutral bandwidth allocation, as well as measures to address spam, denial of service attacks, illegal content, and other harmful activities. In evaluating the reasonableness of network management techniques, NTIA will be guided by any applicable rules or findings established by the FCC, whether by rulemaking or adjudication.

In addition to providing the required connection to the Internet, awardees may offer managed services, such as telemedicine, public safety communications, distance learning, and virtual private networks, that use private network connections for enhanced quality of service rather than traversing the public Internet.

An awardee may satisfy the requirement for interconnection by negotiating in good faith with all parties making bona fide requests. The awardee and requesting party may negotiate terms such as business arrangements, capacity limits, financial terms, and technical conditions for interconnection. If the awardee and requesting party cannot reach agreement, they may voluntarily seek an interpretation by the FCC of any FCC rules implicated in the

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<sup>4</sup> Nothing herein shall be construed to affect the jurisdiction of the FCC with respect to such matters. (original footnote # 42).



dispute. If an agreement cannot be reached within 90 days, the party requesting interconnection may notify NTIA in writing of the failure to reach satisfactory terms with the awardee. The 90-day limit is to encourage the parties to resolve differences through negotiation.

With respect to non-discrimination, those who believe an awardee has failed to meet the non-discrimination obligations should first seek action at the FCC of any FCC rules implicated in the dispute. If the FCC chooses to take no action, those seeking recourse may notify NTIA in writing about the alleged failure to adhere to commitments of the award.

These conditions apply to the awardee and will remain in effect for the life of the awardee's Federally funded facilities and equipment used in the project. These conditions will not apply to any existing network arrangements or to non-awardees using the network. Note, however, that the awardee may negotiate contractual covenants with other broadband service providers engaged to deploy or operate the network facilities and pass these conditions through to such providers. Awardees that fail to accept or comply with the terms listed above may be considered in default of their grant agreements. NTIA may exercise all available remedies in the event of a default, including suspension of award payments or termination of the award.<sup>5</sup>

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<sup>5</sup> Note that the changes made to this section from the First NOFA are meant to clarify, and not to change, applicants' obligations. (original footnote #43).



**Exhibit F**

**Bill of Sale (Balance Sheet Assets)**

**(Attached)**



## **BILL OF SALE**

This Bill of Sale (the "**Agreement**") made and entered into as of August \_\_, 2018 (the "**Effective Time**"), by and between Sunset Fiber, LLC, a Delaware limited liability company ("**Sunset Fiber**"), and the Cumberland Plateau Planning District Commission, a political subdivision of the Commonwealth of Virginia ("**CPPDC**"), together with its affiliated entity Cumberland Plateau Company, Inc., a Virginia nonstock corporation ("**CPC**") (CPPDC and CPC, collectively, the "**Cumberland Plateau Parties**"), provides as follows:

### **WITNESSETH**

**WHEREAS**, Sunset Fiber and the Cumberland Plateau Parties have entered into that certain CPC OptiNet Operator Agreement, dated as of August \_\_, 2018 (the "**Operator Agreement**"), pursuant to which, among other things, Sunset Fiber has agreed, pursuant to Section 5(a) of the Operator Agreement, to sell to the Cumberland Plateau Parties, and the Cumberland Plateau Parties have agreed to purchase from Sunset Fiber, certain balance sheet assets as follows:

Assets recorded on the balance sheet of the BVU Authority valued at the time of original purchase by BVU Authority and recorded on the balance sheet of the entities at an original cost of Three Million Seven Hundred Seventy-Two Thousand, Three Hundred Sixty-One Dollars (\$3,772,361.00) instead of the value of Two Million Eight Hundred Fifty-Eight Thousand Seventy-Four Dollars (\$2,858,074.00), which would be the value of one-half of the EDA grant-funded assets as of the date of the original deployment. The fiber deployed with EDA grant funds totals Four Million Four Hundred Thirty-Nine Thousand Five Hundred Thirty-Nine Dollars (\$4,439,539.00) and one-half of that original cost of deployment, which represents the cost of the CPC Fibers, is Two Million Two Hundred Nineteen Thousand Seven Hundred Seventy Dollars (\$2,219,770.00). Sunset will assign Fifty Percent (50%) of the EDA-funded fiber deployed in Washington County totaling Two Hundred Ninety-Five Thousand One Hundred Eighty-Two Dollars (\$295,182.00), and one-half of that cost equals One Hundred Forty-Two Thousand Five Hundred Ninety-One Dollars (\$142,591.00). Total original cost of equipment and deployment assigned to the Cumberland Plateau Parties pursuant to this Section 2(B)(5) totals Three Million Seven Hundred Seventy-Two Thousand Three Hundred Sixty-One Dollars (\$3,772,361.00) or Sixty-Six Percent (66%) of the EDA investment in the network. To accomplish the asset allocation set forth in Section 2(B)(5)(a) above, Sunset hereby acknowledges ownership by the Cumberland Plateau Parties of one-half of the Eleven and Twenty-Three Hundredths (11.23) miles of fiber that extend into Washington County as part of the EDA-funded assets owned by the Cumberland Plateau Parties, totaling Two Hundred Ninety-Five Thousand One Hundred Eighty-Two Dollars (\$295,182.00), of which one-half of that cost equals One Hundred Forty-Two Thousand Five Hundred Ninety-One Dollars (\$142,591.00). All original costs referenced in this Section 2(B)(5)(a) represent the original cost recorded on the BVU Authority Balance Sheets to the best of the Parties' knowledge as of the date of the original deployment (all such assets, collectively, the "**Assets**"); and,

**WHEREAS**, the Parties acknowledge that such assets shall not include assets owned by the Virginia Coalfield Coalition, Inc., a Virginia non-stock corporation; and,

**WHEREAS**, as of the Effective Time, the Cumberland Plateau Parties desire to accept such Assets from Sunset Fiber on the terms and conditions set forth herein and in the Operator Agreement;



## AGREEMENT

**NOW THEREFORE**, for and in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Certain Defined Terms. Each capitalized term in this Agreement that is used but not defined in this Agreement has the meaning given to it in the Operator Agreement.

2. Transfer. As of the Effective Time, Sunset Fiber, for and upon the consideration provided in the Operator Agreement, does hereby, sell, assign, transfer, and convey, on an as-is, where-is, with all faults basis, without covenant, representation or warranty (express or implied) of any kind by Sunset Fiber, to the Cumberland Plateau Parties, and the Cumberland Plateau Parties hereby accepts, all of the Sunset Fiber's right, title, and interest in and to the Assets.

3. Terms of the Operator Agreement. Subject to Section 2 of this Agreement, the terms of the Operator Agreement are incorporated herein by this reference. Except as set forth in Section 2 of this Agreement, in the event of any conflict or inconsistency between the terms of the Operator Agreement and the terms hereof, the terms of the Operator Agreement shall govern.

4. Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Agreement delivered by facsimile, email or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Agreement.

5. Further Assistance. Each of the parties hereto shall execute and deliver, at the reasonable request of the other party hereto, such additional documents, instruments, conveyances and assurances and take such further actions as such other party may reasonably request to carry out the provisions hereof and give effect to the transactions contemplated by this Agreement.

[Signature Page Follows]



IN WITNESS WHEREOF, the parties hereto have caused this Bill of Sale to be executed by their authorized officers all as of the day and year first above written.

**SUNSET:**

SUNSET FIBER, LLC

By: *M. Todd Holt*  
Todd Holt, Chief Executive Officer

CUMBERLAND PLATEAU PLANNING DISTRICT  
COMMISSION

By: *G. Roger Rife*  
G. Roger Rife, Chairman

CUMBERLAND PLATEAU COMPANY, INC.

By: *G. Roger Rife*  
G. Roger Rife, Chairman



**Exhibit G**

**Bill of Sale (Infinera)**

**(Attached)**



## **BILL OF SALE**

This Bill of Sale (the "**Agreement**") made and entered into as of August \_\_, 2018 (the "**Effective Time**"), by and between Sunset Fiber, LLC, a Delaware limited liability company ("**Sunset Fiber**"), and the Cumberland Plateau Planning District Commission, a political subdivision of the Commonwealth of Virginia ("**CPPDC**"), together with its affiliated entity Cumberland Plateau Company, Inc., a Virginia nonstock corporation ("**CPC**") (CPPDC and CPC, collectively, the "**Cumberland Plateau Parties**"), provides as follows:

## **WITNESSETH**

**WHEREAS**, Sunset Fiber and the Cumberland Plateau Parties have entered into that certain CPC OptiNet Operator Agreement, dated as of August \_\_, 2018 (the "**Operator Agreement**"), pursuant to which, among other things, Sunset Fiber has agreed to sell to the Cumberland Plateau Parties, and the Cumberland Plateau Parties have agreed to purchase from Sunset Fiber, certain Infinera backbone equipment located in the Cumberland Plateau Region, as further set forth in the Operator Agreement (the "**Assets**"); and,

**WHEREAS**, as of the Effective Time, the Cumberland Plateau Parties desire to accept such Assets from Sunset Fiber on the terms and conditions set forth herein and in the Operator Agreement.

## **AGREEMENT**

**NOW THEREFORE**, for and in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

6. Certain Defined Terms. Each capitalized term in this Agreement that is used but not defined in this Agreement has the meaning given to it in the Operator Agreement.

7. Transfer. As of the Effective Time, Sunset Fiber, for and upon the consideration provided in the Operator Agreement, does hereby, sell, assign, transfer, and convey to the Cumberland Plateau Parties, and the Cumberland Plateau Parties hereby accept, all of the Seller's right, title, and interest in and to the Assets.

8. Terms of the Operator Agreement. The terms of the Operator Agreement, including, but not limited to, the representations, warranties, covenants, agreements and indemnities relating to the Assets are incorporated herein by this reference. The parties hereto acknowledge and agree that the representations, warranties, covenants, agreements and indemnities contained in the Operator Agreement shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the Operator Agreement and the terms hereof, the terms of the Operator Agreement shall govern.

9. Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Agreement delivered by facsimile, email or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Agreement.

10. Further Assistance. Each of the parties hereto shall execute and deliver, at the reasonable request of the other party hereto, such additional documents, instruments, conveyances and assurances and take such further actions as such other party may reasonably request to carry out the provisions hereof and give effect to the transactions contemplated by this Agreement.

[Signature Page Follows]



IN WITNESS WHEREOF, the parties hereto have caused this Bill of Sale to be executed by their authorized officers all as of the day and year first above written.

**SUNSET:**

SUNSET FIBER, LLC

By: M. Todd Holt  
Todd Holt, Chief Executive Officer

CUMBERLAND PLATEAU PLANNING DISTRICT  
COMMISSION

By: G. Roger Rife  
G. Roger Rife, Chairman

CUMBERLAND PLATEAU COMPANY, INC.

By: G. Roger Rife  
G. Roger Rife, Chairman



**Exhibit H**

**Infinera Backbone Equipment Diagram**

**Proposed CPC Network**

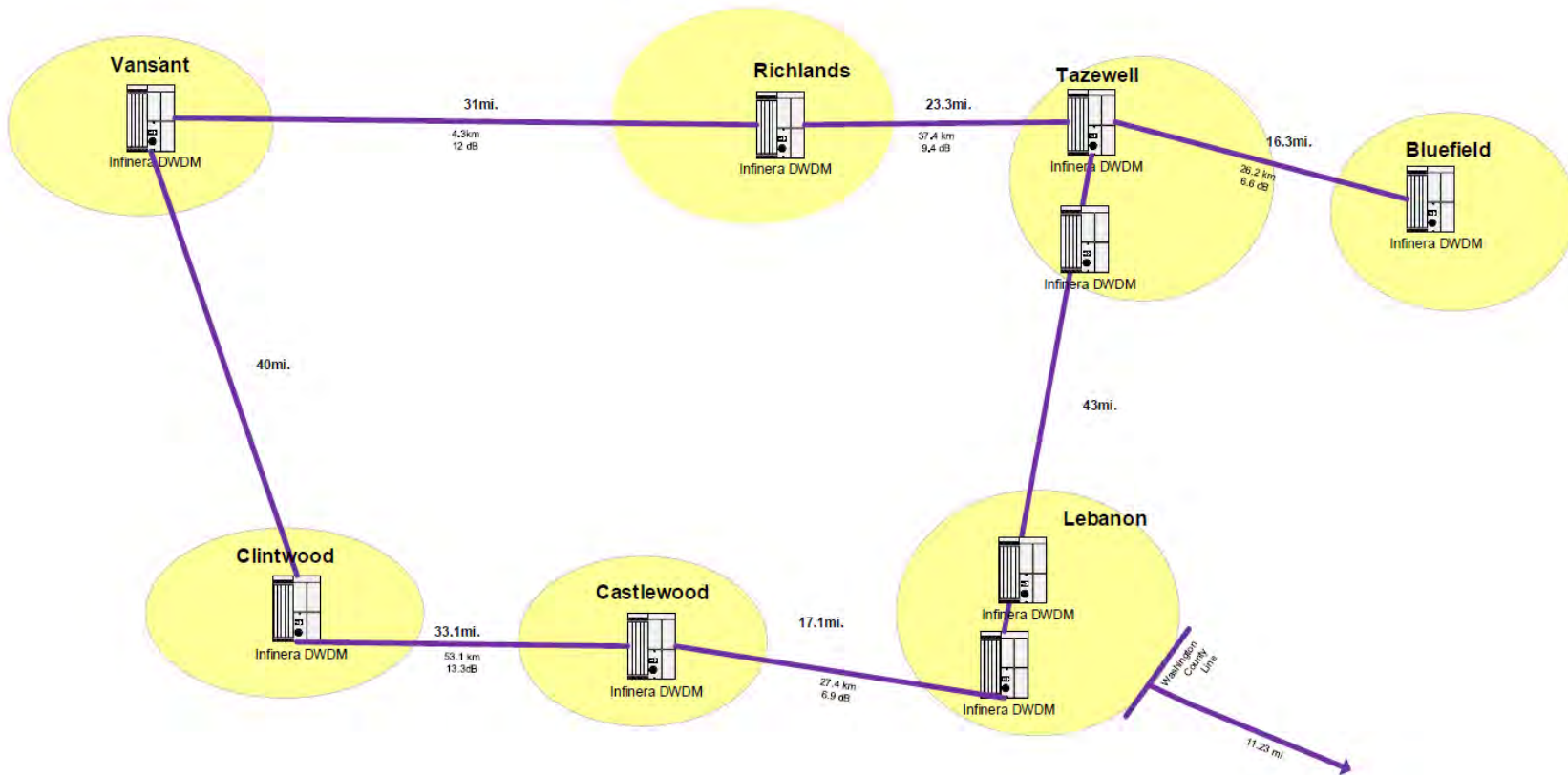




Exhibit I

Certificate of Chief Financial Officer

**Sunset Fiber, LLC  
Officer's Certificate**

The undersigned, Nicholas DeWeese, Chief Financial Officer of Sunset Fiber, LLC, a Delaware limited liability company ("**Sunset**"), hereby certifies on behalf of the Company, pursuant to Section 8 of that certain Cumberland Plateau Operator Agreement dated as of \_\_\_\_\_, 2018 (the "**Agreement**"), by and among Cumberland Plateau Planning District Commission, a planning district commission and political subdivision of the Commonwealth of Virginia organized pursuant to Section 15.2-4200 *et seq.* of the Code of Virginia ("**CPPDC**"), the Cumberland Plateau Company, Inc., a nonstock corporation organized under the laws of the Commonwealth of Virginia by CPPDC ("**CPC**") (CPPDC and CPC, collectively the "**Cumberland Plateau Parties**"), Sunset, and the Virginia Tobacco Region Revitalization Commission, a political subdivision of the Commonwealth of Virginia chartered by Section 3.2-3100 *et seq.* of the Code of Virginia (the "**Tobacco Commission**"), that:

The Gross Revenue for the operation of the CPC OptiNet is \$\_\_\_\_\_ for the previous quarter .

1. The Gross Revenue for the operation of the CPC OptiNet is \$\_\_\_\_\_ for the current calendar year.
2. The total amount of expenditure for the New Connection Commitment in the CPC OptiNet for the previous quarter is \$\_\_\_\_\_.
3. The total amount remaining for the New Connection Commitment in the CPC OptiNet following the expenditures for the previous quarter is \$\_\_\_\_\_.

IN WITNESS WHEREOF, the undersigned has executed this Officer's Certificate on behalf of the Company as of this \_\_\_ day of \_\_\_\_\_, 20\_\_.

**SUNSET FIBER, LLC**

By \_\_\_\_\_  
Nicholas DeWeese, Chief Financial Officer



VATI FUNDING SOURCES TABLE

Please fill in the chart below with a description of the project funding source (local, federal, state, private, other), the amount from that source, the percentage of total project funding that source represents, and a description of the current status of the funds (pending, secured, etc.).

Source	Amount	%	Status
REQUESTED VATI	\$45,925,426	77.38%	Pending
POINT BROADBAND	\$12,624,000	21.27%	SECURED
CPC	\$400,000	0.67%	SECURED
BUCHANAN COUNTY	\$100,000	0.17%	Pending
DICKENSON COUNTY	\$100,000	0.17%	Pending
RUSSELL COUNTY	\$100,000	0.17%	Pending
TAZEWELL COUNTY	\$100,000	0.17%	Pending
<b>TOTAL</b>	<b>\$ 59,349,426</b>	<b>100 %</b>	



**Point Broadband, LLC and Subsidiaries**  
**Consolidated Balance Sheets**  
**At December 31, 2020 and 2019**

**Assets**

	<b>2020</b>	<b>2019</b>
		(Restated)
<b>Current Assets</b>		
Cash and cash equivalents	\$ 11,759,546	\$ 6,318,831
Accounts receivable		
Customers, net of allowance of \$582,448 and \$434,067, respectively	2,640,297	2,284,983
Other	1,211,918	2,451,121
Prepayments and other	868,160	925,469
Total current assets	16,479,921	11,980,404
<b>Noncurrent Assets</b>		
Goodwill, net	15,688,969	8,974,465
Other intangible assets, net	33,375,864	6,836,652
Interest rate swap		227,865
Other assets	3,999,709	1,666,691
Total noncurrent assets	53,064,542	17,705,673
<b>Property, Plant, and Equipment</b>		
Telecommunications plant in service	139,959,743	86,897,573
Construction and premise inventory	8,944,047	1,495,964
	148,903,790	88,393,537
Less accumulated depreciation	28,100,794	14,069,039
Net property, plant, and equipment	120,802,996	74,324,498
Total assets	\$ 190,347,459	\$ 104,010,575

The accompanying notes are an integral part of these consolidated financial statements.



## Liabilities and Shareholders' Equity

	2020	2019 (Restated)
<b>Current Liabilities</b>		
Current maturities on notes payable	\$ 227,710	\$ 251,434
Current maturities on capital lease obligations	214,206	164,743
Current maturities on Paycheck Protection Program loan	1,109,982	
Accounts payable - trade	7,034,104	2,764,120
Unearned revenue	1,791,213	1,819,011
Customer deposits and other customer prepayments	601,338	426,794
Accrued liabilities	5,522,400	3,420,209
Total current liabilities	<u>16,500,953</u>	<u>8,846,311</u>
<b>Noncurrent Liabilities</b>		
Notes payable, net of current maturities	94,814,872	60,042,581
Less debt issuance costs	3,164,063	1,265,567
Capital lease obligations, net of current maturities	597,236	531,263
Paycheck Protection Program loan, net of current maturities	547,975	
Interest rate swap	878,558	
Unearned revenue	642,493	485,133
Total noncurrent liabilities	<u>94,317,071</u>	<u>59,793,410</u>
Total liabilities	<u>110,818,024</u>	<u>68,639,721</u>
<b>Shareholders' Equity</b>		
Common stock	6,423,480	123,480
Contributed capital - Series A, B, and C	82,333,294	47,333,290
Treasury stock	(487,500)	(397,500)
Accumulated deficit	(8,106,855)	(10,249,142)
Additional paid-in capital	(2,477,520)	(2,477,520)
Accumulated other comprehensive income (loss)	(878,558)	227,865
Total Point Broadband, LLC shareholders' equity	<u>76,806,341</u>	<u>34,560,473</u>
Noncontrolling interest	2,723,094	810,381
Total shareholders' equity	<u>79,529,435</u>	<u>35,370,854</u>
Total liabilities, noncontrolling interest, and shareholders' equity	<u>\$ 190,347,459</u>	<u>\$ 104,010,575</u>



# BUCHANAN COUNTY BOARD OF SUPERVISORS

Drew Keene, Chairman  
Prater District  
Jeff Cooper, Vice-Chairman  
Garden District  
Tim Hess  
Hurricane District  
G. Roger Rife  
South Grundy District  
James Carroll Branham  
North Grundy District  
Craig Stiltner  
Rocklick District  
Trey Adkins  
Knox District



Robert Craig Horn  
County Administrator

Lawrence L. Moise, III Esq.  
County Attorney

September 7, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC  
Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

Universal broadband coverage is very needed in Buchanan County, due to bringing in economic development to an area with a high rate of unemployment.

Sincerely,

Robert C. Horn, County Administrator

Administrative Office, 4447, Suite 310, Slate Creek Road, GRUNDY, VIRGINIA 24614

[www.buchanancountyonline.com](http://www.buchanancountyonline.com)

Telephone (276) 935-6503

Fax: (276) 935-4479



# Russell County Virginia

## “The Heart of Southwest Virginia”

Oris Christian  
At-Large

Lou Ann Wallace  
District 2

Carl Rhea  
District 3

Rebecca Dye, Chairperson  
District 6

Tim Lovelace, Vice-Chairman  
District 1

David Eaton  
District 4

Steve Breeding  
District 5

Lonzo Lester  
County Administrator

September 7, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

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As we understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

At the request of the Cumberland Plateau Company (CPC), the Russell County Board of Supervisors strongly supports and hereby commits \$100,000 of our ARPA Funds to CPC's VATI Project that will be part of a universal broadband coverage initiative that will greatly enhance the County's broadband infrastructure to our residents.

Sincerely,

**REBECCA DYE**

Rebecca Dye, Chairperson  
Russell County Board of Supervisors



# Dickenson County Public Schools

P.O. Box 1127, 309 Volunteer Avenue  
Clintwood, Virginia 24228  
Phone (276) 926-4643 Fax (276) 926-6374



*Haydee L. Robinson, Superintendent*

Sept. 2, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

The lack of Internet accessibility in Dickenson County creates a significant disparity for these children when trying to provide effective virtual instruction. The challenges of educating children virtually without Internet through using other modules (paper packets) becomes a standard of quality in providing instruction to our children.

Sincerely,

A handwritten signature in black ink that reads "Haydee L. Robinson". The signature is written in a cursive style.

Haydee L. Robinson,  
Division Superintendent





COMMONWEALTH OF VIRGINIA  
**HOUSE OF DELEGATES**  
RICHMOND

**WILLIAM CREED WAMPLER III**

POST OFFICE BOX 1683

COMMITTEE ASSIGNMENTS:

EDUCATION

September 2

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

The expansion of broadband access in the coalfields of Southwest Virginia is essential to our future. This funding proposal would be the one of the largest investments in telecommunications in the region's history and would change the lives of thousands of residents in the region. It is my hope that DCHD would approve funding for this build-out and that work can begin quickly to provide this transformative infrastructure to the region.

Sincerely,

A handwritten signature in black ink that reads "William C. Wampler III".

William C. Wampler III







# SENATE OF VIRGINIA

T. TRAVIS HACKWORTH  
38TH SENATORIAL DISTRICT  
ALL OF BLAND, BUCHANAN, DICKENSON,  
PULASKI, RUSSELL, AND TAZEWELL COUNTIES;  
ALL OF THE CITIES OF NORTON AND RADFORD;  
AND PART OF MONTGOMERY, SMYTH,  
AND WISE COUNTIES  
1515 2ND STREET  
RICHMOND, VIRGINIA 24641



9/2/21

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

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As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

We need this in our communities, especially as so many of our counties are being hit the hardest with covid-19 – our citizens are working from home and our children are receiving their education from home – without broadband it is a true crisis.

Sincerely,

A handwritten signature in black ink, appearing to read 'Travis Hackworth', written over a faint, larger version of the same signature.

Senator Travis Hackworth,  
Virginia State Senate, 38<sup>th</sup> District.





## *Russell County Public Schools*

*Gregory A. Brown, Ed.D.  
Division Superintendent  
Post Office Box 8  
84 Dr. Lorraine C. Turner Drive  
Lebanon, Virginia 24266*

Office # (276) 889-6500

FAX # (276) 889-6508

### **School Board Members**

Chairman, Cynthia Compton Vice-Chairman, Kip Parsons Tim Ball Wayne Bostic Linda Garrett Bob Gibson Alex Zachwieja

**September 2, 2021**

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support – Virginia Telecommunications Initiative (VATI) 2022 – CPPDC  
Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell and Tazewell counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell and Tazewell counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over **12,624** addresses within our four-county area. This project is expected to result in universal broadband coverage for our district.

I understand that the goal of VATI is to create strong, competitive communities throughout the Commonwealth of Virginia by preparing communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the commonwealth to achieve these goals.

In Russell County, twenty-five percent of our students and their families do not have access to high speed internet. As you well know, this is of ultimate importance in today's educational arena for our students to be able to do research, complete homework assignments, and to attend school virtually should that become necessary due to the current pandemic. Expansion of high speed internet is extremely important to the students and their families living in rural areas where this is currently unavailable.

Sincerely,

Dr. Gregory Brown  
Superintendent of Russell County Public Schools





**IDA Russell County, VA**

Industrial Development Authority of  
Russell County, Virginia

September 6, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

The business landscape has changed dramatically over the past year and the availability of broadband has never been more important. It is essential that we continue to improve these services to allow our residents the ability to meet the needs of our evolving labour market. We are in full support of this initiative, and it is our hope that you will give this your utmost consideration.

Warmest regards,

*Ernest McFaddin*

Ernest McFaddin  
Chairman





September 02, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

Southwest Virginia Community College believes in its college's vision, that we transform lives, strengthens communities and inspires excellence. Our service region has a dire need for access to reliable broadband fiber to allow our students anywhere anytime access to the education they deserve. Please give every consideration to Cumberland Plateau Planning District Commission and Point Broadband when awarding funds.

Sincerely,

A handwritten signature in black ink that reads "Tommy Wright". The signature is written in a cursive style with a large, sweeping initial "T".

Dr. Tommy Wright  
President



9/2/2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

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As the director of the Tazewell County Chamber of Commerce and a mother of a student enrolled in Tazewell County Public Schools, the need for this project has an unmeasurable benefit for our business community and school system. Some of our Chamber members are missing the crucial ability to promote their business online and achieve world-wide internet exposure that can ultimately reap the economic benefits of an addition revenue stream. Their ability to adopt an e-commerce business model is hindered without your support.

This project is also critical to our schools' efforts to successfully educate throughout the pandemic in a hybrid learning environment. This project will help our educators fulfil their obligation to our youth and families of Tazewell County and hopefully create the willingness in these students to remain citizens of Tazewell County in hope they become our future leaders.

Sincerely,

Lori Stacy  
Executive Director



Chuck Presley, Councilmember  
Anglis Trigg, Jr., Councilmember  
Rick Holman, Councilmember



Cathy Payne, Councilmember  
Jarrod Bailey, Councilmember

## **TOWN OF BLUEFIELD**

Donnie Linkous, Mayor  
Ron Holt, Vice Mayor  
Trent Crewe, Town Manager

September 7, 2021

Tamarah Holmes, Ph. D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC  
Regional Application

Dear Dr. Holmes,

On behalf of the Town of Bluefield, please accept this letter of support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

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The importance of having broadband available in our community is greatly needed.

Sincerely,

Trent Crewe  
Town Manager



September 9, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

The Town of Clinchco is a very rural area and holds 293 citizens that will benefit from the grant. We give our full support of the Cumberland Plateau seeking to install broadband fiber within the four counties.

Sincerely,

Ruby Coleman  
Vice Mayor



Mayor:  
William N. Stokes, Jr.

Vice-Mayor:  
Rebecca Elkins - Council Member

Council Members:  
Mary Belcher - Council Member  
Chris Mitchell - Council Member  
Mike Lewis - Council Member  
Patty Street - Council Member  
Danny Hawks - Council Member

# TOWN OF GRUNDY



A MUNICIPALITY OF THE COMMONWEALTH OF VIRGINIA  
Established in 1926

Town Manager  
Dennis A. Ramey

Town Attorneys:  
Jason Gallagher

September 2, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC  
Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

Sincerely,

Dennis A Ramey  
Town Manager

1185 Plaza Drive, Grundy, VA 24614  
Telephone: (276) 935-2551  
Fax: (276) 935-2468



**C. H. WALLACE**  
Mayor  
**SCOTT McGLOTHLIN**  
Vice-Mayor  
**CINDY HALE**  
Clerk  
**BRANDON CASSELL**  
Police Chief  
**EARNEST SHORT**  
Public Works Director



**COUNCILMEN**  
Connie Harris  
Ryan Hart  
Eric Brown  
Richard Vandyke  
Dewey B. Chafin

September 2, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

We are located in such rural area that broadband coverage is very minimal. With the virtual learning in our schools now it makes it very difficult for some of our residents to obtain access to wireless internet so that they can complete their work. Broadband coverage would open so many opportunities for our community as well as surrounding communities.

Sincerely,

A handwritten signature in cursive script that reads 'C.H. Wallace'.

CH Wallace,  
Mayor  
Town of Honaker

Phone 276-873-6556::Fax 276-873-5007::P.O. Box 746, HONAKER, VIRGINIA 24260





# TOWN OF RICHLANDS

200 WASHINGTON SQUARE  
RICHLANDS, VA 24641

PHONE  
(276) 964-2566  
FAX  
(276) 963-2889  
WWW.RICHLANDS-VA.GOV

9/7/2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

Please add a personal note regarding internet access and the importance to your community/operation/organization.

Sincerely,

A handwritten signature in black ink, appearing to read "John O'Daniel".

John O'Daniel  
Town Manager  
Richlands, Virginia



# TOWN OF HAYSI

## Mayor

Larry D. Yates



## Council Members

Wm. "Billy" Counts  
Michael Harris  
Tim Wallace  
Carter Branham  
Rocky Wood  
Susan Tiller

September 13, 2021

Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for our District.

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I support internet access for everyone in the Cumberland Plateau Planning District Region.

Sincerely,

Larry D. Yates, Mayor

Administrative Office 322 Main Street, Suite 200, Post Office Box 278, Haysi, VA 24256  
Telephone: (276) 865-5187, Fax: (276) 865-9808, email: haysimayor@dcwin.org



# VIRGINIA COALFIELD ECONOMIC DEVELOPMENT AUTHORITY

P.O. Box 1060  
527 East Main Street  
Lebanon, Virginia 24266



Telephone: 276/889-0381  
Fax: 276/889-1830  
Jonathan S. Belcher • Executive Director

September 3, 2021

Dr. Tamarah Holmes, Ph.D.  
Director, DHCD Office of Broadband  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

RE: Letter of Support - Virginia Telecommunications Initiative (VATI) 2022 – CPPDC Regional Application

Dear Dr. Holmes:

I am writing to convey my support of the application submitted by the Cumberland Plateau Planning District Commission for Buchanan, Dickenson, Russell, and Tazewell Counties, in partnership with Point Broadband. The project, known as the CPC Universal Broadband Coverage Project, will allow Buchanan, Dickenson, Russell, and Tazewell Counties to install broadband fiber that will serve multiple communities of need. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and most importantly, will offer gigabit service to over 12,624 addresses within our four-county area. This project is expected to result in universal broadband coverage for the District.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

The availability of high-speed broadband is absolutely critical to the economic development and diversification of the region. It is a necessary component of attracting companies and jobs to the region, and for existing companies to expand. For these reasons, we urge favorable consideration of this application.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Belcher".

Jonathan Belcher  
Executive Director/  
General Counsel





CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE</b>					
<u>Construction</u>					
<i>200 LF of fiber @\$150/LF</i>	\$30,000	\$15,000	\$15,000	Company A	9/5/2016
<i>Tower</i>	\$100,000	\$80,000	\$20,000	Company B	9/5/2016
<i>Engineering</i>	\$20,000	\$0	\$20,000	ABC Engineering Firm	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Aerial construction labor & material	\$ 16,243,622	\$ 12,569,315	\$ 3,674,307	<b>Internal Engineering</b>	<b>8/24/2021</b>
Make Ready	\$ 12,607,229	\$ 9,755,474	\$ 2,851,755	<b>Internal Engineering</b>	<b>8/24/2021</b>
Design, Engineering, Permitting, & Project Management	\$ 8,631,765	\$ 6,679,260	\$ 1,952,505	<b>Internal Engineering</b>	<b>8/24/2021</b>
Fiber cable material	\$ 7,458,819	\$ 5,771,634	\$ 1,687,185	<b>Internal Engineering</b>	<b>8/24/2021</b>
Cabinet / Hub labor & material	\$ 5,894,707	\$ 4,561,324	\$ 1,333,383	<b>Internal Engineering</b>	<b>8/24/2021</b>
Splicing labor & material	\$ 1,373,571	\$ 1,062,869	\$ 310,702	<b>Internal Engineering</b>	<b>8/24/2021</b>
UG construction labor & material (includes micro-trench)	\$ 674,716	\$ 522,095	\$ 152,621	<b>Internal Engineering</b>	<b>8/24/2021</b>
Contingency	\$ 5,288,443	\$ 4,092,197	\$ 1,196,246	<b>Internal Engineering</b>	<b>8/24/2021</b>
Materials Tax & Shipping	\$ 1,176,554	\$ 910,417	\$ 266,137	<b>Internal Engineering</b>	<b>8/24/2021</b>



CDBG Derivation of Cost

	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		





Dura-Line Corporation  
 11400 Parkside Drive, Suite # 300  
 Knoxville, TN US 37934  
 Phone: (800) 847-7661  
 Fax: (865) 218-3461  
 www.duraline.com

**Quote Acknowledgement**

**To:**  
 DURA-LINE- COD ACCOUNT  
 COD/CREDIT CARD ORDERS  
 KNOXVILLE, TN, 37934  
 USA

**Ship To:**  
 POINT BROADBAND  
  
 TBD  
  
 BALTIMORE MD 21225  
 USA

Account: 100122  
 Number: 20301106  
 Date: 07/15/2021  
 Valid To Date: 07/29/2021  
 Job Name: POINT BROADBAND

**Contact:**  
 Contact Name:  
 Contact Phone:  
 Email:  
 Quoted by : Helen East  
 Email address: helen.east@duraline.com  
 Phone: 800-847-7661 Extension: 15034.

LN	QTY	PART NO.	DESCRIPTION	UOM	UNIT PRICE	EXTENSION
20	79200	2029199920	HDPMIDR160120RIORGORGOEMPTDSPRP4 2X06600  MicroDuct /16 mm OD/12 mm ID /Regular /Straight Ribs /Orange /Orange /Super Silicore (Microduct) /Empty /Ink Jet /Standard Print /Plastic /PR 42-42x28x18 /6,600 No. of Reels: 12  Gross Weight: 4977.600 LB	FT	0.18400	\$14572.80
40	79200	2030110640	HDPMIDR160120RIBLUBLUOEMPTDSPRP42 X06600  MicroDuct /16 mm OD/12 mm ID /Regular /Straight Ribs /Blue /Blue /Super Silicore (Microduct) /Empty /Ink Jet /Standard Print /Plastic /PR 42-42x28x18 /6,600 No. of Reels: 12  Gross Weight: 4977.600 LB	FT	0.18400	\$14572.80
50	79200	2030110650	HDPMIDR160120RIGRNGRNOEMPTDSPRP4 2X06600  MicroDuct /16 mm OD/12 mm ID /Regular /Straight Ribs /Green /Green /Super Silicore	FT	0.18400	\$14572.80





LN	QTY	PART NO.	DESCRIPTION	UOM	UNIT PRICE	EXTENSION
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(Microduct) /Empty /Ink Jet /Standard Print  
 /Plastic /PR 42-42x28x18 /6,600  
 No. of Reels: 12

Gross Weight: 4977.600 LB

**TOTAL: \$43718.40**

**Order Comments**

\*\*\*PLEASE REFERENCE QUOTE# ON ALL PO'S\*\*\*\*\*

---THIS QUOTE IS ONLY VALID UNTIL 7/29/21---

CURRENT LEAD TIME IS APPROXIMATELY 48 DAYS ARO TO SHIP THE FIRST TRUCKLOAD, ADDITIONAL TRUCKS TO SHIP AS COMPLETED - LEAD TIMES CHANGE SEVERAL TIMES WEEKLY AND MAY BE DIFFERENT AT TIME OF ORDER. PLEASE PLAN ACCORDINGLY PER THE LEAD TIME QUOTED. WE WILL NOT BE ABLE TO HONOR EXPEDITE REQUESTS

\*\*SCHEDULING SHIPMENT WILL BE AN ADDITIONAL 2-3 DAYS AFTER MANUFACTURING COMPLETES\*\*

IF CERTS ARE REQUIRED YOU MUST REQUEST AT TIME OF ORDER OR THERE WILL BE A \$75 CHARGE AFTER ORDER HAS SHIPPED

PRICED AS ALL LINES BEING ORDERED TOGETHER, IF QUANTITY OR SHIP TO CHANGE SO WILL THE PRICE

**Terms & Conditions**

FOB Origin: Clinton, TN  
 Net: COD Net Due  
 Shipping method: Freight Allowed

Dura-Line Corporation is pleased to present this quotation. Any change in quantity or description could change pricing.

PRICES ARE VALID THROUGH 07/29/2021. Raw material prices can and do change over the quote period. If such an event occurs, Dura-Line Corporation reserves the right to adjust selling prices proportional to raw material cost changes.

All products are subject to Dura-Line Corporation standard product warranty for materials and workmanship. A copy of the warranty may be obtained at (800)847-7661 or www.duraline.com

Purchase Orders cannot be cancelled if the product is manufactured or in transit. Cable-In-Conduit Orders cannot be cancelled if wire is already been placed on order. Orders are subject to credit approval.

Standard minimum Order quantities are as noted: Conduit - \$250.00 purchase and Accessories - \$100.00 or 1 Case

**\$\$\$\$ RECYCLE \$\$\$\$ REUSE \$\$\$\$ SAVE \$\$\$\$**  
**Dura-Line Corporation buys back steel reels**  
 CONTACT OUR REEL RETURN COORDINATOR  
**US - Call 800-847-7661 ext.15087 or 15031**  
**Canada - Call 844-446-5589 ext.10207**



Comm Source Data, Inc

(904) 829-8922 FAX: (904) 829-8862  
200 Waler Way, Bldg 2 Unit 1  
St. Augustine, FL 32086

# Quotation

DATE	QUOTE NO.
8/11/2021	5469

NAME / ADDRESS
Point Broadband of Opelika LLC Attn: BRUCE SCHOONOVER 600 Fox Parkway, Suite 200 Opelika, Al 36801

PROJECT

ITEM	DESCRIPTION	QTY	PRICE	Total
1230N-SF-2500EQ	12 Awg Solid Copper Clad Steel Tracer Wire, Orange	25,000	0.148	3,700.00T
	Sales Tax		333.00	333.00
			<b>Total</b>	\$4,033.00



# QUOTATION

**Date:** 09/01/2021  
**Quote #:** Q006HGNW  
**Customer:** 319369

Anixter Inc. (a WESCO Company)  
 Send Purchase Orders to Anixter Inc.  
 2301 Patriot Blvd. Glenview, IL 60026

**Customer**  
 POINT BROADBAND, LLC  
 1791 OG SKINNER DR. STE A  
 WEST POINT, GA 31833  
 Jeff Lane  
 Phone: (333)222-4343  
 Fax: --  
 Email: jeff.lane@point-broadband.com

101512

Line	Quantity	Part Number and Description	UM	Unit Price	Extended Price
1	2070	Non-Stock 101512HDPE 101512HDPE -- --	EA	47.82	98,987.40

**Quote Total: 98,987.40**

**TERMS:** NET30  
**Freight Terms:** PPD/CHARGE  
**Shipment:**  
**Notes:** Some items may be Non Cancellable or Non Returnable. Restocking fees may apply.  
**Currency:** USD

Please refer all inquiries to:

**Jason Barth**  
 Phone: 972-353-7091  
 Mobile: --  
 Fax: --  
 Jason.Barth@Anixter.com

1601 Waters Ridge Drive  
 LEWISVILLE, TX 75057  
 US

**Comments:**

Quote is valid for 20 days.

The impacts of COVID-19 cannot be reasonably determined at this time. This quote/proposal does not account for any potential adverse impacts COVID-19 may have on Anixter's performance or obligations herein. In the event of any delays or adverse impacts, Anixter reserves the right for an equitable adjustment of the delivery schedule and prices herein to offset the effects of COVID-19 delays, without fault or penalty of any kind.

BY ACCEPTING THIS QUOTE, YOU AGREE THAT THE TERMS AND CONDITIONS OF SALE PUBLISHED AT [WWW.ANIXTER.COM/TERMSANDCONDITIONS](http://WWW.ANIXTER.COM/TERMSANDCONDITIONS) ARE EXPRESSLY INCORPORATED INTO AND SHALL GOVERN THIS TRANSACTION.



Customer POINT BROADBAND  
 Region AMER  
 Quote Point-Broadband-2xNTK530QA-2021August5  
 Reference Number  
 Version v1  
 Prepared by Megan Brucker  
 Date 2021-08-05  
 Valid Through 2021-11-03  
 Extended Total 7,248.50



USD

Product Family	Item Code	Customer Unit Price	Qty	Network Site Ext Price	Qty	Site1 Ext Price	Qty	Total Customer Ext Price
<b>6500</b>								
<b>BROADBAND INTERFACES</b>								
4X10G OTR 4X XFP/4X SFP+ CIRCUIT PACK	NTK530QA	3,500.75			2	7,001.50	2	7,001.50
<b>Subtotal NET Price - 6500</b>						<b>7,001.50</b>		<b>7,001.50</b>
<b>Total NET Price - Ciena Product</b>						<b>7,001.50</b>		<b>7,001.50</b>
<b>MAINTAIN SERVICES</b>								
1 YEAR GLOBAL 6500 NEXT BUSINESS DAY SHIP MANAGED SPARES	80M-6500-NBS	106.00	1	106.00			1	106.00
1 YEAR 6500 SELECT SUPPORT	80M-6500-SSP-SEL	141.00	1	141.00			1	141.00
<b>Subtotal NET Price - MAINTAIN SERVICES</b>				<b>247.00</b>				<b>247.00</b>
<b>Total NET Price - Ciena Services</b>				<b>247.00</b>				<b>247.00</b>
<b>Total Extended Price</b>				<b>247.00</b>		<b>7,001.50</b>		<b>7,248.50</b>

**\*\*Terms and Conditions Notice\*\***

Unless the parties have a signed agreement for the purchase of hardware, software and/or services, your purchase of the hardware, software and/or services detailed on the applicable quote are subject to Ciena's standard terms and conditions, which are available for review at the link below.  
[Terms and Conditions](#)



**Customer** POINT BROADBAND  
**Region** AMER  
**Reference Number** Point-Broadband-2xNTKS30QA-2021August5  
**Configuration**  
**Version** v1  
**Sales Engineer** Megan Brucker

**Date**  
**Valid Through** 2021-11-03

**Project Type**  
**Price book info** POINT\_BROADBAND\_PRICE\_LIST\_USD1.00\_20200211

**The following represents a summary of the quoted Services.  
For complete Terms and Conditions please refer to the Ciena Specialist Services Statement of Work documents.  
Deployment Services - Buyer Specific Service Scope**

**Maintenance Services**

Technical Support:

Ciena's support model is a set of multi-technology support services that consists of technical support, software support, lifecycle management, personalized support, and proactive service support options:

SELECT Support

SELECT Support provides access to the CTS hotline 7 days a week, 24 hours per day, 365 days a year (7x24x365) to assist with fault identification, diagnosis, and problem resolution for critical issues on Covered Products.  
Non-critical issues are addressed 5 days a week, 8 hours per day (5x8), Customer local business day.

Spares Management:

As a supplement to Ciena's Standard Hardware Repair Services, Ciena will ship a replacement part by the next business day.





DoubleRadius, Inc.  
 2022 Van Buren Ave  
 Indian Trail NC  
 28079  
 US

Quote  
 #Q308118  
 5/24/2021

**Bill To**  
 Point Broadband  
 1791 O.G. Skinner Drive, Suite A  
 West Point GA 31833  
 United States

**Ship To**  
 COBB EMC Warehouse  
 Mayson Smith  
 1000 EMC Pkwy NE  
 Marietta GA 30060  
 United States

**TOTAL**  
  
**\$2,722.65**  
 Expires: 6/23/2021

Expires	Memo	Shipping Method	Sales Rep
6/23/2021		UPS® Ground	Philip Rose

Quantity	Item	Notes	Rate	Amount
2	<b>USW-PRO-Aggregation</b> Ubiquiti: UniFi Switch Pro Aggregation a Fully Managed Layer 3 Switch, with (4) 25G SFP28 Ports and (28) 10G SFP+ Ports		\$842.02	\$1,684.04
2	<b>USP-RPS</b> Ubiquiti: UniFi® SmartPower Redundant Power System, model USP-RPS, is a proprietary redundant power system designed to protect up to six UniFi SmartPower supported devices from sudden power supply module failure	We have 1 open box units available at \$354.81 each!	\$399.00	\$798.00
1	<b>UPS® Ground</b>		\$86.50	\$86.50

<b>Subtotal</b>	\$2,568.54
<b>Tax (%)</b>	\$154.11
<b>Total</b>	\$2,722.65



Q308118



Quotation

Please Address Purchase Order To:

Quote #  
031821GW4-81

3767 Alpha Way  
Bellingham, WA 98226

Alpha Technologies Services, Inc.

Attn: Mark Davis

Phone: 404-931-7338

Attn: Headend Power Sales

Email: [Mark.Davis@point-broadband.com](mailto:Mark.Davis@point-broadband.com)

Company:

Point Broadband

Site: Location:

[alphaorders@alpha.com](mailto:alphaorders@alpha.com)

Project Name: Cordex 1.2kW DC Shelf & Breakers, Spare Items

Item	Qty	Part Number	Description	Customer Price	Extended Price
1	2	0300165-405	19/23", 100A, Single Phase, <b>2x Load CB, 2x Battery CB</b> , 10x GMT, BLVD. 4-Module Positions, CXCM1-HP, requires 2 line cords	\$717	\$1,434
2	2	470-347-10-A000	100 AMP BREAKER, PLUG-IN TYPE, SERIES TRIP, OFFSET PIN TERMINAL(S) <b>Battery Breaker</b>	\$29	\$58
3	2	470-307-10-A000	30 Amp AM Breaker, Plug-In w/Aux Switch Center Pin Only, Midtrip - <b>Load Dist. Breaker</b>	\$29	\$58
<b>Spare Items</b>					
4	5	ATL010-619-20-041	Cordex CXRF 48-1.2kW 120/208-240VAC Module; Front Cover, Plastic. Black:	\$240	\$1200
5	5	747-622-20-000	RoHS 6/6 Compliant, 010-619-20 L0,58,106 Blank, Power Module, 1.2kW, Black Plastic	\$3	\$15
6	10	2000006057	Hubbell Connector, HBL460C12W, Kit	\$269	\$2690
7	2	2000006058	120VAC 2k BTU/hr ACU,nVent,Kit	\$1,774	\$3,548
<b>Total Product:</b>					<b>\$9,003</b>



NOTE: Freight will be prepaid and added to invoice  
Customer shall be responsible for the self assessment and payment of applicable state and local taxes on goods purchased.

Please Reference Quote number for all correspondence or orders resulting from this proposal.

Quote # 031821GW4-81

Prices: All prices in \$US. These prices reflect 2021 pricing and is not retroactive to any past orders. The terms and conditions that apply to this quote can be found at:

\*Please note that any order resulting from this quotation will be subject to our standard terms and conditions of sales (except where noted above) as specified on our acknowledgments

Prepared by:  
Grant Wahliquist  
Project Estimator  
Alpha Technologies Services, Inc.  
bh 360-325-6218

Thank You For Your Business!





# QUOTATION

2301 Patriot Blvd. Glenview, IL 60026

**Date:** 02/02/2021  
**Quote #:** Q005FGH8  
**Customer:** 319369

**Customer**

POINT BROADBAND, LLC  
1791 OG SKINNER DR. STE A  
WEST POINT, GA 31833  
Carrie Turner  
Phone: (844)407-6468  
Fax: --  
Email: carrie.turner@point-broadband.com

Bristol

Line	Quantity	Part Number and Description	UM	Unit Price	Extended Price
1	65000	372-COROS2-LTDB-12 012ZU4-T4F22D20 12-F OS2 LT ALTOS BINDERLESS FAST ACCESS DIELECTRIC GELFREE0.34/0.34/0.22 DB/KM	FT	0.20	13,000.00
2	80000	372-COROS2-LTDU-288 288ZU4-T4122D20 288-F OUTDOOR LT DIELECTRIC SMF-28 ULTRA OS2, GEL-FREE BLACK JACKET	FT	1.66	132,800.00

**Quote Total: 145,800.00**

**TERMS:** NET30  
**Freight Terms:** PPD/CHARGE  
**Shipment:**  
**Notes:** Some items may be Non Cancellable or Non Returnable. Restocking fees may apply.  
**Currency:** USD

**Please refer all inquiries to:**

**Jason Barth**  
Phone: 972-353-7091  
Mobile: --  
Fax: --  
Jason.Barth@Anixter.com

1601 Waters Ridge Drive  
LEWISVILLE, TX 75057  
US

**Comments:**

The impacts of COVID-19 cannot be reasonably determined at this time. This quote/proposal does not account for any potential adverse impacts COVID-19 may have on Anixter's performance or obligations herein. In the event of any delays or adverse impacts, Anixter reserves the right for an equitable adjustment of the delivery schedule and prices herein to offset the effects of COVID-19 delays, without fault or penalty of any kind.

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## Network Configuration & Quotation

Customer Name: Point Broadband, LLC  
 Project Name: 10GE 4 E7 VA 070721  
 Quote Description: 10GE 4 E7 VA 070721  
 Author Name: Robert Larsen  
 Contact Name:

Quote Reference Number: 661261A-1  
 Quote Type: Access  
 Date Created: July 7, 2021  
 Date Modified: July 8, 2021  
 Quote Expiration: August 6, 2021



### Equipment Summary

E7	Price	Qty	Ext. Price
<b>100-01771</b>	\$4,797.00	3	\$14,391.00
E7-2 10GE-4 card (12xGE SFP, 2x10GE XFP, 2x10GE SFP+) CLEI: BVL3AW6FTB			
OIM 10GE Transport	Price	Qty	Ext. Price
<b>100-01510</b>	\$479.40	1	\$479.40
10GE SFP+, Single Mode dual fiber transceiver, 40Km, 1550nm, LC, I-temp CLEI: BVL3APCFAA			
<b>100-01425</b>	\$539.40	1	\$539.40
10GE XFP, Single Mode dual fiber transceiver, 40Km, 1550nm, LC, I-Temp CLEI: BVL3AL6FAA			
<b>100-01514</b>	\$107.40	2	\$214.80
10GE SFP+, Multi-Mode dual fiber transceiver, 300m, 850nm, LC, I-Temp CLEI: BVL3AMEFAA			
<b>Equipment Total</b>			<b>\$15,624.60</b>
<b>Grand Total</b>			<b>\$15,624.60</b>

### Notes & Optional Equipment and Services

All prices are being quoted in US \$ (Dollars).

Due to rounding, some totals may not correspond with the sum of the separate figures.

Calix Warranty - See Purchase Agreement.

#### Important Ordering Instructions:

Please include the Calix quote number (found in the upper right hand corner) on your PO. You may also provide an internal PO number to be used with your order. Orders received without an internal PO number will use the Calix quote number by default.

Include contact information (Name, Email & Tel) for the person who will receive the order acknowledgements and shipping notifications as well as the required billing and shipping addresses for your order.

Send Purchase Orders to Calix Order Management:

Email: om@calix.com  
Fax: 707-283-3771

You may check the status of your order at any time on our website. (www.calix.com, click Login)





Customer Name: Point Broadband, LLC  
 Project Name: 10GE 4 E7 VA 070721  
 Quote Description: 10GE 4 E7 VA 070721  
 Author Name: Robert Larsen  
 Contact Name:

### Network Configuration & Quotation

Quote Reference Number: 661261A-1  
 Quote Type: Access  
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 Quote Expiration: August 6, 2021



## Optional Summary

### Extended Warranty

	Price	Qty	Ext. Price
<b>110-01162</b>	\$274.80	3	\$824.40
Extended Warranty - Upfront - 5 years for 100-01771			

---

**Optional Total      \$824.40**



# UTILICOM

## SUPPLY ASSOCIATES


4400 Shackelford Road  
Norcross GA 30093  
P: 404-298-7700 F: 404-298-8810

### Sales Quote

COPY






















Order	Date	Page
29356	07/23/21	1
Valid Until		
08/23/21		

**Bill To:**

Point Broadband Fiber Holding  
 1791 O.G. SKinner Dr. Ste A  
 West Point GA 31833  
 USA

**Ship To:**

Point Broadband - Bristol VA  
 15022 Lee Hwy  
 Bristol VA 24202-4256

Customer ID	Purchase Order Number	Inside Sales	Salesperson		
C000978		Kevin Haynes	Danny Mulcay		
Due Date	Ship Via	Terms	Currency		
08/23/21		Net 30	US Dollars		
QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	U/M	AMOUNT
ORD					
600	 LASHINGWIRE045	Lashing Wire, 430SS, .045" X 1200' Roll,	12.7500	ea	\$7,650.00
2000	 SI2175	.045SS430ACW, 6/bx, 38 lbs/bx Bug Nut, D Lashing Wire Clamp, 50/bx, 400/master AB# 4040	0.3134	ea	\$626.80
1000	 SI2174	(Allied #4040) Jumper bonding clamp, KUL, CU alloy, Tin Plated 100/bx,"K-1 Weavers" AB# 2125	1.6000	ea	\$1,600.00
500000	 STRAND025EHS5000USA	( Allied Part #2125) 1/4" Extra High Strength Strand on 5,000' reel, 6.6M, 640 lbs/rl (USA MADE)	0.1930	ft	\$96,500.00
2000	 ABCFWDE1104	1/4" Preformed Dead End, HDG, 6.6M, 50/bx, 24 lbs/ 20bx	1.3297	ea	\$2,659.40
500	 PLPGLS2104	SI # DE-S1104 Allied AB110040 1/4" Strand Splice, HDG, 50/bx, GLS2104 (Maclean LS-S9104) AB# ABS1104	3.0978	ea	\$1,548.90
500	 ABC6519	5/8" Slotted Thimble Eye Nut, 50/bx AB# 2050 SI #J6550C ( Allied Part Number 2050)	3.8600	ea	\$1,930.00
500	 ABC6510	5/8" Threaded Thimbleye Nut, 50/bx AB# 5050 J 6510 , Allied 5050	3.4300	ea	\$1,715.00
500	 ABC5004	1-Bolt Guy Hook, 11/16" Hole, 1/4" X 1-1/2" X 4-1/8", 50/bx, "Pigear" AB# 8070	1.4500	ea	\$725.00
1500	 ABC7903	( Allied #8070) 3-Bolt Straight Strand Suspension Clamp, 25/bx AB# 5080	3.2808	ea	\$4,921.20
1500	 ABC7902L	Allied Part 5080 3-Bolt Angle Strand Suspension Clamp, 11/16" Hole, 25/bx AB# 5083 SI# SI -1755	3.7390	ea	\$5,608.50
2000	 ABC6813W	AB# 5083 / SI# SI -1755 2-1/4" X 2-1/4" X 3/16", HDG Square Washer, 5/8" Thru-Bolt, 200/bx AB#11500	0.4500	ea	\$900.00
31500	 BARE06CUSOL315	Allied Part Number 11500 #6 Bare Copper, Solid, 315' Reel, 25 lbs	0.6739	ft	\$21,227.85
1000	 ABC8810	5/8" X 10", Machine Bolt, 50/bx AB# 8222 Allied Part Number 8222	1.1000	ea	\$1,100.00
1000	 ABC8812	5/8" X 12", Machine Bolt, 50/bx AB# 8224 (Allied# 8224)	1.3077	ea	\$1,307.70
1000	 ABC8814	5/8" X 14" Machine Bolt,30/bx AB#8226 (Allied# 8226)	1.4600	ea	\$1,460.00
1000	 ABC8816	5/8" X 16", Machine Bolt, 30/bx AB# 8228 (Allied# 8228)	1.9331	ea	\$1,933.10
500	 GUYGUARD	8' Yellow guyguard, 25/bx	3.0000	ea	\$1,500.00
500	 ABC5512	5/8" X 12" Straight Thimble Eye Bolt, 25/bx AB# 5806 Allied Part 5806 J8052	3.4177	ea	\$1,708.85
500	 ABC5510	5/8" X 10" Straight Thimble Eye Bolt, 25/bx AB# 5805 SI #J8051 Allied Part 5805	3.2270	ea	\$1,613.50
500	 ABC5514	5/8" X 14" Straight Thimble Eye Bolt, 25/BX AB# 5807	3.8960	ea	\$1,948.00

All returns subject to 15% restocking fee.



# UTILICOM

## SUPPLY ASSOCIATES

4400 Shackelford Road  
 Norcross GA 30093  
 P: 404-298-7700 F: 404-298-8810

### Sales Quote

COPY

Order 29356	Date 07/23/21	Page 2
Valid Until		
08/23/21		

**Bill To:**

Point Broadband Fiber Holding  
 1791 O.G. Skinner Dr. Ste A  
 West Point GA 31833  
 USA

**Ship To:**

Point Broadband - Bristol VA  
 15022 Lee Hwy  
 Bristol VA 24202-4256

Customer ID	Purchase Order Number	Inside Sales	Salesperson		
C000978		Kevin Haynes	Danny Mulcay		
Due Date	Ship Via	Terms	Currency		
08/23/21		Net 30	US Dollars		
QUANTITY ORD	ITEM NUMBER	DESCRIPTION	UNIT PRICE	U/M	AMOUNT
500	➔ ABC5516	5/8" X 16" Straight Thimble Eye Bolt, 25/bx AB# 5808 8054	4.6743	ea	\$2,337.15
500	➔ ABC6346	6" Screw Anchor, 3/4" X 66", No-Wrench, TripleEye AB# 1166 (Allied# 1166)	16.7990	ea	\$8,399.50
200000	➔ HDPE150135ORNTRACER	1.50" SDR 13.5, HDPE Orange Empty T18W Smooth 5000 ' Reel	0.8012	ft	\$160,240.00
100	➔ PVC15040CP	1-1/2" PVC sch 40 coupling, 30/bx	0.3316	ea	\$33.16
100	➔ 3M1401XR	4" Extended range orange marker ball, PID # ATT.100009261	7.5000	ea	\$750.00
100	➔ DURA2000007	AT 500 Blowing Lube, 5 gallon pail	69.9200	ea	\$6,992.00
50	➔ QUAPG1324Z563905	13 X 24 X 18 / W TIER 15 LID, W/POINT BROADBAND LOGO	196.3678	ea	\$9,818.39
100	➔ QUAPG3048Z76109	30X48X24 Vault, Tier 15 lid, w/Point Broadband logo	648.2850	ea	\$64,828.50
50	➔ IDEAL31-340BP	6500FT Pull-Line, 210 lbs, 4 GAL pail, 36/pallet, 11 lbs ea	34.8800	ea	\$1,744.00
10000	➔ TBCSSLH	Locking Head for Deltec Strapping, CSS-LH, 25/bag, 500/bx	0.2500	ea	\$2,500.00
5000	➔ TBCSS50R	1/2"W X 50'L Reel of Deltec Strapping, CSS-50R, 10/bx	16.9500	ea	\$84,750.00
10000	➔ TB-CSS360	SPACER 1/2" STACKABLE F/COAX AND FIBER	0.1648	ea	\$1,648.00
10000	➔ RCM-SPLICESLV	Commscope Fiber splice sleeve heat shrink, SMOUV-1120-01, 60mm, 100/bag	0.2400	ea	\$2,400.00
5000	➔ ACPDN33PTBROAD	WRAP AROUND MARKER TO FIT 1/2" - 1" DIAM. CABLE, ORANGE WITH BLACK TEXT, "POINT BROADBAND 1-844-40-POINT"	0.9700	ea	\$4,850.00
200	➔ FOSC450B62NT0B0V	FOSC450B62NT0B0V Closure, E87235-000	210.0000	ea	\$42,000.00
400	➔ FOSC450D66NT0DOV	FOSC450D66NT0DOV - Closure, Fiber Optic Splice, A42788-001	335.0000	ea	\$134,000.00
1200	➔ FOSACC DTRAY36	FOSC-ACC-D-TRAY-36	25.0000	ea	\$30,000.00
600	➔ FOSACC BTRAY12	FOSC-ACC-B-TRAY-12	14.0000	ea	\$8,400.00
1000	➔ CORNSCA9T34LRS	SCA-9T34-LRS - Closure, OptiSheath Aerial terminal, SCA-9T, 34 inch length	191.8390	ea	\$191,839.00
1000	➔ CORNSCFST112	24 Count Fiber Splice Tray	16.4615	ea	\$16,461.50
***** STRAND025EHS5000USA Price on Strand is good until August 31st *****					
***** HDPE150135ORNTRACER pricing is good until 7-30-21*****					

All returns subject to 15% restocking fee.



*Unless otherwise specified, this quote is valid for a period of 30 days. This document contains privileged and confidential information and may not be disclosed to any third party without the express written consent of Utilicom Supply Associates, LLC.*

<b>Merchandise</b>	<b>Discount</b>	<b>Freight</b>	<b>Tax</b>	<b>Applied</b>	<b>Total Due</b>
\$934,175.00	\$0.00	\$0.00	\$49,511.30	\$0.00	<b>\$983,686.30</b>

### **Point Quote for Ashley for Bristol**

*All returns subject to 15% restocking fee.*





## A quote for your consideration.

Based on your business needs, we put the following quote together to help with your purchase decision. Below is a detailed summary of the quote we've created to help you with your purchase decision.

To proceed with this quote, you may respond to this email, order online through your [Premier page](#), or, if you do not have Premier, use this [Quote to Order](#).

<b>Quote No.</b>	<b>1028366322907.1</b>	Sales Rep	Matthew Burnette
<b>Total</b>	<b>\$12,641.10</b>	Phone	(800) 456-3355, 7281192
Customer #	530021178934	Email	M_Burnette@Dell.com
Quoted On	May. 14, 2021	<b>Billing To</b>	ACCOUNTS PAYABLE
Expires by	Aug. 03, 2021		FIBER SOUTH BROADBAND
			PO BOX 369
			MARIETTA, GA 30061

### Message from your Sales Rep

Please contact your Dell sales representative if you have any questions or when you're ready to place an order. Thank you for shopping with Dell!

Regards,  
Matthew Burnette

### Additional Comments

1 year renewal--Fiber South - 375309369- Production Support Coverage- 08-04-21 to 11-10-22

### Shipping Group

Shipping To	Shipping Method
SCOTT LEE FIBER SOUTH BROADBAND 1000 EMC PKWY NE BLDG 3000 MARIETTA, GA 30060 (678) 355-3813	Standard Delivery

Product	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS VCENTER SERVER 7 STD FOR VSPHERE 7 PER INSTANCE	\$1,898.63	2	\$3,797.26
VLA VMW PROD SNS FOR VSPHERE 7 ENT PLUS FOR 1 PROC	\$1,105.48	8	\$8,843.84



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<b>Subtotal:</b>	<b>\$12,641.10</b>
<b>Shipping:</b>	<b>\$0.00</b>
<b>Estimated Tax:</b>	<b>\$0.00</b>
<hr/>	
<b>Total:</b>	<b>\$12,641.10</b>



## Shipping Group Details

### Shipping To

SCOTT LEE  
 FIBER SOUTH BROADBAND  
 1000 EMC PKWY NE  
 BLDG 3000  
 MARIETTA, GA 30060  
 (678) 355-3813

### Shipping Method

Standard Delivery

	Unit Price	Quantity	Subtotal
<b>VLA VMW PROD SNS VCENTER SERVER 7 STD FOR VSPHERE 7 PER INSTANCE</b>	\$1,898.63	2	\$3,797.26

Description	SKU	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS VCENTER SERVER 7 STD FOR VSPHERE 7 PER INSTANCE	AB650180	-	2	-

	Unit Price	Quantity	Subtotal
<b>VLA VMW PROD SNS FOR VSPHERE 7 ENT PLUS FOR 1 PROC</b>	\$1,105.48	8	\$8,843.84

Description	SKU	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS FOR VSPHERE 7 ENT PLUS FOR 1 PROC	AB650165	-	8	-

<b>Subtotal:</b>	<b>\$12,641.10</b>
<b>Shipping:</b>	<b>\$0.00</b>
<b>Estimated Tax:</b>	<b>\$0.00</b>

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**Total: \$12,641.10**



## Important Notes

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### Terms of Sale

This Quote will, if Customer issues a purchase order for the quoted items that is accepted by Supplier, constitute a contract between the entity issuing this Quote ("Supplier") and the entity to whom this Quote was issued ("Customer"). Unless otherwise stated herein, pricing is valid for thirty days from the date of this Quote. All product, pricing and other information is based on the latest information available and is subject to change. Supplier reserves the right to cancel this Quote and Customer purchase orders arising from pricing errors. Taxes and/or freight charges listed on this Quote are only estimates. The final amounts shall be stated on the relevant invoice. Additional freight charges will be applied if Customer requests expedited shipping. Please indicate any tax exemption status on your purchase order and send your tax exemption certificate to [Tax\\_Department@dell.com](mailto:Tax_Department@dell.com) or [ARSalesTax@emc.com](mailto:ARSalesTax@emc.com), as applicable.

**Governing Terms:** This Quote is subject to: (a) a separate written agreement between Customer or Customer's affiliate and Supplier or a Supplier's affiliate to the extent that it expressly applies to the products and/or services in this Quote or, to the extent there is no such agreement, to the applicable set of Dell's Terms of Sale (available at [www.dell.com/terms](http://www.dell.com/terms) or [www.dell.com/oemterms](http://www.dell.com/oemterms)), or for cloud/as-a-Service offerings, the applicable cloud terms of service (identified on the Offer Specific Terms referenced below); and (b) the terms referenced herein (collectively, the "Governing Terms"). Different Governing Terms may apply to different products and services on this Quote. The Governing Terms apply to the exclusion of all terms and conditions incorporated in or referred to in any documentation submitted by Customer to Supplier.

**Supplier Software Licenses and Services Descriptions :** Customer's use of any Supplier software is subject to the license terms accompanying the software, or in the absence of accompanying terms, the applicable terms posted on [www.Dell.com/eula](http://www.Dell.com/eula). Descriptions and terms for Supplier-branded standard services are stated at [www.dell.com/servicecontracts/global](http://www.dell.com/servicecontracts/global) or for certain infrastructure products at [www.dellemc.com/en-us/customer-services/product-warranty-and-service-descriptions.htm](http://www.dellemc.com/en-us/customer-services/product-warranty-and-service-descriptions.htm)

**Offer-Specific, Third Party and Program Specific Terms:** Customer's use of third-party software is subject to the license terms that accompany the software. Certain Supplier-branded and third-party products and services listed on this Quote are subject to additional, specific terms stated on [www.dell.com/offeringspecificterms](http://www.dell.com/offeringspecificterms) ("Offer Specific Terms").

**In case of Resale only:** Should Customer procure any products or services for resale, whether on standalone basis or as part of a solution, Customer shall include the applicable software license terms, services terms, and/or offer-specific terms in a written agreement with the end-user and provide written evidence of doing so upon receipt of request from Supplier.

**In case of Financing only:** If Customer intends to enter into a financing arrangement ("Financing Agreement") for the products and/or services on this Quote with Dell Financial Services LLC or other funding source pre-approved by Supplier ("FS"), Customer may issue its purchase order to Supplier or to FS. If issued to FS, Supplier will fulfill and invoice FS upon confirmation that: (a) FS intends to enter into a Financing Agreement with Customer for this order; and (b) FS agrees to procure these items from Supplier. Notwithstanding the Financing Agreement, Customer's use (and Customer's resale of and the end-user's use) of these items in the order is subject to the applicable governing agreement between Customer and Supplier, except that title shall transfer from Supplier to FS instead of to Customer. If FS notifies Supplier after shipment that Customer is no longer pursuing a Financing Agreement for these items, or if Customer fails to enter into such Financing Agreement within 120 days after shipment by Supplier, Customer shall promptly pay the Supplier invoice amounts directly to Supplier.

Customer represents that this transaction does not involve: (a) use of U.S. Government funds; (b) use by or resale to the U.S. Government; or (c) maintenance and support of the product(s) listed in this document within classified spaces. Customer further represents that this transaction does not require Supplier's compliance with any statute, regulation or information technology standard applicable to a U.S. Government procurement.

For certain products shipped to end users in California, a State Environmental Fee will be applied to Customer's invoice. Supplier encourages customers to dispose of electronic equipment properly.

Electronically linked terms and descriptions are available in hard copy upon request.

**^Dell Business Credit (DBC):**

OFFER VARIES BY CREDITWORTHINESS AS DETERMINED BY LENDER. Offered by WebBank to Small and Medium Business customers with approved credit. Taxes, shipping and other charges are extra and vary. Minimum monthly payments are the greater of \$15 or 3% of account balance. Dell Business Credit is not offered to government or public entities, or business entities located and organized outside of the United States.





(RETAIN FOR YOUR RECORDS)  
Form 477 Filing Summary

FRN: 0030057905 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: May 19, 2021 09:35:00

### Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband of Ohio, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	833969
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(844) 407-6468
	Data Contact E-mail	regulatory@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	regulatory@point-broadband.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

### Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Ohio_FCCDeployment_December_2020.csv	May 19, 2021 09:30:48	4133
Fixed Broadband Subscription	Ohio_FCCSubscription_December_2020.csv	May 19, 2021 09:32:53	436
Fixed Voice Subscription	Ohio_Voice_Subs_December_2020_V4.csv	May 19, 2021 09:17:11	10

### Fixed Broadband Deployment

#### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Ohio	Point Broadband	Optical Carrier/Fiber to the End User	237
		Terrestrial Fixed Wireless	3896
<b>Total</b>			<b>4133</b>

#### Fixed Broadband Subscriptions by State, Technology and End-user Type



## Fixed Broadband Subscription

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Ohio	Optical Carrier/Fiber to the End User	23	1138	20	1158
	Terrestrial Fixed Wireless	413	4532	150	4682
<b>Total</b>		<b>436</b>	<b>5670</b>	<b>170</b>	<b>5840</b>

### Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
2.000	2.000	681	16	697
3.000	0.500	0	7	7
3.000	2.000	0	2	2
4.000	1.000	0	8	8
4.000	4.000	0	2	2
5.000	2.000	541	16	557
5.000	4.000	1083	4	1087
10.000	2.000	175	6	181
10.000	4.000	1203	23	1226
10.000	10.000	12	5	17
15.000	4.000	164	2	166
15.000	5.000	6	2	8
20.000	4.000	9	0	9
20.000	10.000	0	5	5
20.000	20.000	0	1	1
25.000	4.000	595	36	631
25.000	10.000	0	4	4
25.000	20.000	0	1	1
25.000	25.000	471	8	479
30.000	5.000	0	1	1
40.000	10.000	1	3	4
45.000	15.000	0	3	3
50.000	4.000	51	0	51
50.000	15.000	0	2	2
50.000	50.000	78	0	78
100.000	4.000	11	0	11
100.000	100.000	452	3	455
300.000	300.000	115	1	116



Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
500.000	500.000	13	0	13
1000.000	1000.000	9	9	18
<b>Total</b>		<b>5670</b>	<b>170</b>	<b>5840</b>

#### Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
<b>Optical Carrier/Fiber to the End User</b>	25.000	25.000	471	8	479
	50.000	50.000	78	0	78
	100.000	100.000	452	2	454
	300.000	300.000	115	1	116
	500.000	500.000	13	0	13
	1000.000	1000.000	9	9	18
<b>Terrestrial Fixed Wireless</b>	2.000	2.000	681	16	697
	3.000	0.500	0	7	7
	3.000	2.000	0	2	2
	4.000	1.000	0	8	8
	4.000	4.000	0	2	2
	5.000	2.000	541	16	557
	5.000	4.000	1083	4	1087
	10.000	2.000	175	6	181
	10.000	4.000	1203	23	1226
	10.000	10.000	12	5	17
	15.000	4.000	164	2	166
	15.000	5.000	6	2	8
	20.000	4.000	9	0	9
	20.000	10.000	0	5	5
	20.000	20.000	0	1	1
	25.000	4.000	595	36	631
	25.000	10.000	0	4	4
	25.000	20.000	0	1	1
	30.000	5.000	0	1	1
	40.000	10.000	1	3	4
45.000	15.000	0	3	3	
50.000	4.000	51	0	51	



Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Business /		Total
			Consumer	Govt	
	50.000	15.000	0	2	2
	100.000	4.000	11	0	11
	100.000	100.000	0	1	1
<b>Total</b>			<b>5670</b>	<b>170</b>	<b>5840</b>

### Fixed Voice Subscription

#### VGE Lines and VoIP Subscriptions by State and End-user Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Ohio	0	0	161	154
<b>Total</b>	<b>0</b>	<b>0</b>	<b>161</b>	<b>154</b>

### Fixed Voice Subscription (iVoIP)

#### Over-the-top VoIP Subscriptions by State and End-user Type

State	Total	Consumer	Business / Govt
Ohio	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Ohio	161	154	7	161	0	161	0	0	0
<b>Total</b>	<b>161</b>	<b>154</b>	<b>7</b>	<b>161</b>	<b>0</b>	<b>161</b>	<b>0</b>	<b>0</b>	<b>0</b>





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Form 477 Filing Summary

FRN: 0026188762 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Feb 15, 2021 09:23:20

**Filer Identification**

Section	Question	Response
<b>Filer Information</b>	Company Name	Point Broadband, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	832079
<b>Data Contact Information</b>	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(708) 518-1071
	Data Contact E-mail	olivia.barber@point-broadband.com
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	regulatory@point-broadband.com
<b>Certifying Official Contact Information</b>	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

**Data Submitted**

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	form477_deployments_IscWgu.csv	Feb 15, 2021 09:19:45	849
Fixed Broadband Subscription	form477_subscriptions_bFLygh.csv	Feb 15, 2021 09:20:28	160

**Fixed Broadband Deployment**

**Census Block Counts by State, DBA Name and Technology**

State	DBA Name	Technology	Blocks
Alabama	Point Broadband LLC	Terrestrial Fixed Wireless	189
Florida	Point Broadband LLC	Terrestrial Fixed Wireless	3
Georgia	Point Broadband LLC	Terrestrial Fixed Wireless	653
Louisiana	Point Broadband LLC	Asymmetric xDSL	6
		Terrestrial Fixed Wireless	45
Mississippi	Point Broadband LLC	Terrestrial Fixed Wireless	53
<b>Total</b>			<b>949</b>



**Fixed Broadband Subscription**

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Terrestrial Fixed Wireless	52	367	30	397
Florida	Terrestrial Fixed Wireless	2	3	0	3
Georgia	Terrestrial Fixed Wireless	86	1279	78	1357
Louisiana	Asymmetric xDSL	2	7	0	7
	Terrestrial Fixed Wireless	7	184	8	192
Mississippi	Terrestrial Fixed Wireless	11	130	7	137
<b>Total</b>		<b>160</b>	<b>1970</b>	<b>123</b>	<b>2093</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
5.000	1.000	2	0	2
9.999	1.000	1	5	6
10.000	1.000	936	24	960
10.000	1.033	9	5	14
10.000	5.000	0	1	1
20.000	2.000	742	62	804
20.000	5.000	0	2	2
30.000	3.000	32	7	39
50.000	1.000	229	13	242
80.000	10.000	19	4	23
<b>Total</b>		<b>1970</b>	<b>123</b>	<b>2093</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (In Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Asymmetric xDSL	10.000	1.000	7	0	7
Terrestrial Fixed Wireless	5.000	1.000	2	0	2
	9.999	1.000	1	5	6
	10.000	1.000	929	24	953
	10.000	1.033	9	5	14
	10.000	5.000	0	1	1
	20.000	2.000	742	62	804
	20.000	5.000	0	2	2



Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
30.000	3.000	32	7	39
50.000	1.000	229	13	242
80.000	10.000	19	4	23
<b>Total</b>		<b>1970</b>	<b>123</b>	<b>2093</b>





(RETAIN FOR YOUR RECORDS)  
Form 477 Filing Summary

FRN: 0028957306 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 15, 2021 22:16:55

**Filer Identification**

Section	Question	Response
Filer Information	Company Name	Point Broadband Fiber Holding, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	318050
	499 ID	832079
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(844) 407-6468
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	cwachter@litchold.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

**Data Submitted**

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	fibercoverage2-16-2021V4.csv	Mar 15, 2021 20:14:38	5341
Fixed Broadband Subscription	fibercount2-16-2021.csv	Mar 15, 2021 17:47:48	470
Fixed Voice Subscription	phonecount2-16-2021.csv	Mar 15, 2021 17:47:11	48

**Fixed Broadband Deployment**

**Census Block Counts by State, DBA Name and Technology**

State	DBA Name	Technology	Blocks
Michigan	Casalr.net	Optical Carrier/Fiber to the End User	5341
<b>Total</b>			<b>5341</b>

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracta	Subscriptions
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**Fixed Broadband Subscription**

		Consumer	Business / Govt	Total	
Michigan	Optical Carrier/Fiber to the End User	470	2361	529	2890
<b>Total</b>		<b>470</b>	<b>2361</b>	<b>529</b>	<b>2890</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
0.256	0.256	0	4	4
1.000	0.256	6	1	7
1.000	1.024	0	1	1
1.500	1.500	0	1	1
2.000	2.000	0	1	1
3.000	0.512	3	0	3
5.000	0.768	1	0	1
5.000	5.000	0	2	2
10.000	10.000	0	5	5
20.000	20.000	0	7	7
25.000	3.000	1	0	1
30.000	5.000	0	2	2
30.000	30.000	0	4	4
40.000	40.000	0	1	1
50.000	5.000	13	0	13
50.000	15.000	18	0	18
50.000	50.000	0	11	11
70.000	5.000	284	55	339
70.000	6.000	3	0	3
70.000	7.000	0	5	5
70.000	10.000	1	1	2
75.000	5.000	0	1	1
75.000	10.000	1	49	50
100.000	8.000	1	1	2
100.000	7.000	0	2	2
100.000	10.000	10	4	14
100.000	15.000	544	62	606
100.000	25.000	1126	7	1133
100.000	25.600	18	0	18



Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
100.000	30.000	0	1	1
100.000	50.000	16	170	186
100.000	50.001	1	0	1
100.000	51.200	0	2	2
100.000	100.000	32	14	46
125.000	20.000	0	1	1
125.000	125.000	0	1	1
150.000	150.000	0	7	7
162.000	162.000	0	2	2
200.000	20.000	28	1	29
200.000	20.480	1	0	1
200.000	25.000	1	0	1
200.000	200.000	12	0	12
216.000	216.000	0	6	6
250.000	250.000	0	2	2
270.000	270.000	0	1	1
400.000	400.000	0	1	1
432.000	432.000	0	2	2
500.000	50.000	1	0	1
500.000	75.000	0	13	13
500.000	100.000	0	1	1
500.000	500.000	4	4	8
750.000	10.000	0	2	2
972.000	972.000	0	1	1
1000.000	10.000	1	0	1
1000.000	15.000	2	0	2
1000.000	25.000	2	7	9
1000.000	25.600	1	0	1
1000.000	50.000	221	2	223
1000.000	51.200	5	0	5
1000.000	100.000	3	25	28
1000.000	200.000	0	2	2
1000.000	1000.000	2	32	34



Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
1000.000	1100.000	0	1	1
2000.000	180.000	0	1	1
<b>Total</b>		<b>2361</b>	<b>529</b>	<b>2890</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	0.256	0.256	0	4	4
	1.000	0.256	6	1	7
	1.000	1.024	0	1	1
	1.500	1.500	0	1	1
	2.000	2.000	0	1	1
	3.000	0.512	3	0	3
	5.000	0.768	1	0	1
	5.000	5.000	0	2	2
	10.000	10.000	0	5	5
	20.000	20.000	0	7	7
	25.000	3.000	1	0	1
	30.000	5.000	0	2	2
	30.000	30.000	0	4	4
	40.000	40.000	0	1	1
	50.000	5.000	13	0	13
	50.000	15.000	18	0	18
	50.000	50.000	0	11	11
	70.000	5.000	284	55	339
	70.000	6.000	3	0	3
	70.000	7.000	0	5	5
70.000	10.000	1	1	2	
75.000	5.000	0	1	1	
75.000	10.000	1	48	50	
100.000	6.000	1	1	2	
100.000	7.000	0	2	2	
100.000	10.000	10	4	14	
100.000	15.000	544	62	606	
100.000	25.000	1126	7	1133	



Technology	Downstream Bandwidth (In	Upstream Bandwidth (In	Business		
	Mbps)	Mbps)	Consumer	Govt	Total
	100.000	25.600	18	0	18
	100.000	30.000	0	1	1
	100.000	50.000	16	170	186
	100.000	50.001	1	0	1
	100.000	51.200	0	2	2
	100.000	100.000	32	14	46
	125.000	20.000	0	1	1
	125.000	125.000	0	1	1
	150.000	150.000	0	7	7
	182.000	182.000	0	2	2
	200.000	20.000	26	1	27
	200.000	20.480	1	0	1
	200.000	25.000	1	0	1
	200.000	200.000	12	0	12
	216.000	216.000	0	6	6
	250.000	250.000	0	2	2
	270.000	270.000	0	1	1
	400.000	400.000	0	1	1
	432.000	432.000	0	2	2
	500.000	50.000	1	0	1
	500.000	75.000	0	13	13
	500.000	100.000	0	1	1
	500.000	500.000	4	4	8
	750.000	10.000	0	2	2
	972.000	972.000	0	1	1
	1000.000	10.000	1	0	1
	1000.000	15.000	2	0	2
	1000.000	25.000	2	7	9
	1000.000	25.600	1	0	1
	1000.000	50.000	221	2	223
	1000.000	51.200	5	0	5
	1000.000	100.000	3	25	28
	1000.000	200.000	0	2	2



Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Business /		Total
			Consumer	Govt	
	1000.000	1000.000	2	32	34
	1000.000	1100.000	0	1	1
	2000.000	180.000	0	1	1
<b>Total</b>			<b>2361</b>	<b>529</b>	<b>2890</b>

**Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Michigan	0	0	468	124
<b>Total</b>	<b>0</b>	<b>0</b>	<b>468</b>	<b>124</b>

**Fixed Voice Subscription (iVoIP)**

**Over-the-top VoIP Subscriptions by State and End-user Type**

State	Total	Consumer	Business / Govt
Michigan	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

**All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium**

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Michigan	468	124	344	468	0	468	0	0	0
<b>Total</b>	<b>468</b>	<b>124</b>	<b>344</b>	<b>468</b>	<b>0</b>	<b>468</b>	<b>0</b>	<b>0</b>	<b>0</b>





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Form 477 Filing Summary

FRN: 0028292316 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 15, 2021 23:50:18

Filer Identification	Section	Question	Response
	Filer Information	Company Name	Point Broadband of Opelika, LLC
		Holding Company Name	Point Broadband Fiber Holding, LLC
		SAC ID	
		498 ID	832079
	Data Contact Information	Data Contact Name	Ollvia Barber
		Data Contact Phone Number	(706) 518-1071
		Data Contact E-mail	ollvia.barber@point-broadband.com
	Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
		Emergency Operations Phone Number	(844) 407-8468
		Emergency Operations E-mail	regulatory@point-broadband.com
	Certifying Official Contact Information	Certifying Official Name	Chad Wachter
		Certifying Official Phone Number	(844) 407-8468
		Certifying Official E-mail	regulatory@point-broadband.com

Data Submitted	Form Section	File Name	Date & Time	Number of Rows
	Fixed Broadband Deployment	Point_Broadband_Opelika_477_Deployment_December_2020V2.csv	Mar 15, 2021 23:48:30	508
	Fixed Broadband Subscription	Point_Broadband_Opelika_477_Data_Subscriptions_December_2020V2.csv	Mar 15, 2021 23:44:11	49
	Fixed Voice Subscription	Opelika_Voice_Subs_December_2020.csv	Mar 15, 2021 23:08:42	8

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Point Broadband Opelika, LLC	Optical Carrier/Fiber to the End User	508
Total			508



**Fixed Broadband Subscription**

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Optical Carrier/Fiber to the End User	49	2622	0	2622
<b>Total</b>		<b>49</b>	<b>2622</b>	<b>0</b>	<b>2622</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
25.000	5.000	437	0	437
50.000	25.000	542	0	542
100.000	50.000	1084	0	1084
200.000	100.000	371	0	371
500.000	250.000	117	0	117
1000.000	500.000	91	0	91
<b>Total</b>		<b>2622</b>	<b>0</b>	<b>2622</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (In Mbpa)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	25.000	5.000	437	0	437
	50.000	25.000	542	0	542
	100.000	50.000	1084	0	1084
	200.000	100.000	371	0	371
	500.000	250.000	117	0	117
	1000.000	500.000	91	0	91
<b>Total</b>			<b>2622</b>	<b>0</b>	<b>2622</b>

**Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Alabama	1348	622	0	0
<b>Total</b>	<b>1348</b>	<b>622</b>	<b>0</b>	<b>0</b>

**Fixed Voice Subscription (VGE Lines)**

**VGE Lines Provided to Unaffiliated Providers by State**

State	Wholesale	UNE-L
Alabama	0	0
<b>Total</b>	<b>0</b>	<b>0</b>



State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Alabama	1346	1346	0	0	622	0	724
Total	1346	1346	0	0	622	0	724

**VEG Lines Provided to End Users by State, Ownership and Last-mile Medium**

State	Total	by Ownership				by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper	
Alabama	1346	1346	0	0	1346	0	0	0	
Total	1346	1346	0	0	1346	0	0	0	





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Form 477 Filing Summary

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### Filer Identification

Section	Question	Response
Filer Information	Company Name	Sunset Digital Communications, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	199025, 299033
	499 ID	833253
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(708) 518-1071
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	regulatory@point-broadband.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

### Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	2020-12-31_BVU_FCC477_Fixed_Broadband_Deployment_DuffieldV2.csv	Mar 15, 2021 18:11:31	1374
Fixed Broadband Subscription	2020-12-31_BVU_FCC477_Fixed_Broadband_Subscription_DuffieldV2.csv	Mar 15, 2021 17:19:26	331
Fixed Voice Subscription	2020-12-31_BVU_FCC477_Fixed_Voice_Data_Subscription_DuffieldV2.csv	Mar 15, 2021 17:16:05	32

### Fixed Broadband Deployment

#### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Tennessee	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	728
Virginia	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	648
<b>Total</b>			<b>1374</b>



**Fixed Broadband Subscription**

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	144	3021	231	3252
Virginia	Optical Carrier/Fiber to the End User	187	1841	272	2113
<b>Total</b>		<b>331</b>	<b>4862</b>	<b>503</b>	<b>5365</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
10.000	1.000	12	107	119
10.000	10.000	0	9	9
12.000	2.000	0	4	4
20.000	2.000	0	3	3
20.000	20.000	0	1	1
25.000	2.000	1	33	34
25.000	5.000	2143	42	2185
25.000	25.000	0	2	2
30.000	5.000	0	19	19
50.000	5.000	0	89	89
50.000	25.000	590	3	593
50.000	50.000	0	10	10
75.000	5.000	0	2	2
100.000	3.000	3	30	33
100.000	8.000	0	1	1
100.000	10.000	0	68	68
100.000	50.000	1389	14	1383
100.000	100.000	0	11	11
200.000	20.000	0	32	32
200.000	100.000	515	0	515
200.000	200.000	0	3	3
300.000	50.000	0	9	9
500.000	250.000	152	0	152
500.000	500.000	0	4	4
1000.000	500.000	77	0	77
1000.000	1000.000	0	3	3



Downstream Bandwidth (In Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
2000.000	2000.000	0	1	1
10000.000	10000.000	0	3	3
<b>Total</b>		<b>4862</b>	<b>503</b>	<b>5365</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	10.000	1.000	12	107	119
	10.000	10.000	0	9	9
	12.000	2.000	0	4	4
	20.000	2.000	0	3	3
	20.000	20.000	0	1	1
	25.000	2.000	1	33	34
	25.000	5.000	2143	42	2185
	25.000	25.000	0	2	2
	30.000	5.000	0	19	19
	50.000	5.000	0	89	89
	50.000	25.000	590	3	593
	50.000	50.000	0	10	10
	75.000	5.000	0	2	2
	100.000	3.000	3	30	33
	100.000	8.000	0	1	1
	100.000	10.000	0	68	68
	100.000	50.000	1369	14	1383
	100.000	100.000	0	11	11
	200.000	20.000	0	32	32
	200.000	100.000	515	0	515
	200.000	200.000	0	3	3
	300.000	50.000	0	9	9
	500.000	250.000	152	0	152
	500.000	500.000	0	4	4
	1000.000	500.000	77	0	77
1000.000	1000.000	0	3	3	
2000.000	2000.000	0	1	1	
10000.000	10000.000	0	3	3	



Technology	Downstream Bandwidth (in	Upstream Bandwidth (in	Consumer	Govt	Total
	Mbps)	Mbps)	Business		
<b>Total</b>			4862	503	5365

**Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Tennessee	1005	595	0	0
Virginia	567	225	0	0
<b>Total</b>	<b>1572</b>	<b>820</b>	<b>0</b>	<b>0</b>

**Fixed Voice Subscription (VGE Lines)**

**VGE Lines Provided to Unaffiliated Providers by State**

State	Wholesale	UNE-L
Tennessee	0	0
Virginia	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

**VGE Lines Provided to End Users by State, Bundle and Product Type**

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Tennessee	1005	947	58	149	448	98	314
Virginia	567	580	7	225	0	342	0
<b>Total</b>	<b>1572</b>	<b>1507</b>	<b>65</b>	<b>374</b>	<b>448</b>	<b>438</b>	<b>314</b>

**VGE Lines Provided to End Users by State, Ownership and Last-mile Medium**

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Tennessee	1005	1005	0	0	1005	0	0	0
Virginia	567	567	0	0	567	0	0	0
<b>Total</b>	<b>1572</b>	<b>1572</b>	<b>0</b>	<b>0</b>	<b>1572</b>	<b>0</b>	<b>0</b>	<b>0</b>





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Form 477 Filing Summary

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### Filer Identification

Section	Question	Response
Filer Information	Company Name	Sunset Fiber, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	822704
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(844) 407-8468
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(708) 773-2683
	Emergency Operations E-mail	cwachter@itchoold.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-8468
	Certifying Official E-mail	regulatory@point-broadband.com

### Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	2020-12-31_BVU_FCC477_Fixed_Broadband_DeploymentV11.csv	Mar 16, 2021 17:01:32	2128
Fixed Broadband Subscription	2020-12-31_BVU_FCC477_Fixed_Broadband_Subscription_BristolFootprintV2.csv	Mar 15, 2021 16:40:57	920
Fixed Voice Subscription	2020-12-31_BVU_FCC477_Fixed_Voice_Data_Subscription_BristolFootPrintV2.csv	Mar 15, 2021 16:49:55	79

### Fixed Broadband Deployment

#### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Tennessee	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	12
Virginia	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	2116
<b>Total</b>			<b>2128</b>



**Fixed Broadband Subscription**

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	16	12	9	21
Virginia	Optical Carrier/Fiber to the End User	904	10118	3156	13274
<b>Total</b>		<b>920</b>	<b>10130</b>	<b>3165</b>	<b>13295</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.384	0.384	0	450	450
1.000	1.000	0	1	1
1.500	0.384	0	31	31
1.500	1.000	0	117	117
1.500	1.500	0	2	2
2.000	2.000	0	184	184
3.000	1.000	0	281	281
5.000	5.000	0	24	24
8.000	1.000	1	201	202
8.000	2.000	0	2	2
10.000	1.000	0	111	111
10.000	10.000	0	45	45
12.000	2.000	0	338	338
15.000	5.000	0	4	4
20.000	2.000	0	204	204
20.000	20.000	0	14	14
25.000	5.000	46	51	97
25.000	25.000	0	24	24
30.000	5.000	2617	361	2978
30.000	30.000	0	1	1
50.000	5.000	223	324	547
50.000	25.000	1663	1	1664
50.000	50.000	0	54	54
75.000	10.000	1	0	1
100.000	10.000	0	108	108
100.000	50.000	3582	0	3582



Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
100.000	100.000	0	60	60
150.000	20.000	10	0	10
150.000	75.000	0	8	8
150.000	150.000	0	15	15
200.000	20.000	0	15	15
200.000	100.000	1568	0	1568
200.000	200.000	0	25	25
250.000	250.000	0	3	3
300.000	50.000	0	36	36
300.000	150.000	0	1	1
300.000	300.000	0	4	4
400.000	400.000	0	3	3
500.000	250.000	264	0	264
500.000	500.000	0	12	12
1000.000	500.000	175	0	175
1000.000	1000.000	0	58	58
2000.000	2000.000	0	6	6
5000.000	5000.000	0	1	1
10000.000	10000.000	0	5	5
<b>Total</b>		<b>10130</b>	<b>3165</b>	<b>13295</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	0.384	0.384	0	450	450
	1.000	1.000	0	1	1
	1.500	0.384	0	31	31
	1.500	1.000	0	117	117
	1.500	1.500	0	2	2
	2.000	2.000	0	164	164
	3.000	1.000	0	281	281
	5.000	5.000	0	24	24
	6.000	1.000	1	201	202
	8.000	2.000	0	2	2
	10.000	1.000	0	111	111



Technology

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business Govt	Total
10.000	10.000	0	45	45
12.000	2.000	0	338	338
15.000	5.000	0	4	4
20.000	2.000	0	204	204
20.000	20.000	0	14	14
25.000	5.000	46	51	97
25.000	25.000	0	24	24
30.000	5.000	2817	361	2978
30.000	30.000	0	1	1
50.000	5.000	223	324	547
50.000	25.000	1683	1	1684
50.000	50.000	0	54	54
75.000	10.000	1	0	1
100.000	10.000	0	108	108
100.000	50.000	3582	0	3582
100.000	100.000	0	60	60
150.000	20.000	10	0	10
150.000	75.000	0	8	8
150.000	150.000	0	15	15
200.000	20.000	0	15	15
200.000	100.000	1588	0	1588
200.000	200.000	0	25	25
250.000	250.000	0	3	3
300.000	50.000	0	36	36
300.000	150.000	0	1	1
300.000	300.000	0	4	4
400.000	400.000	0	3	3
500.000	250.000	284	0	284
500.000	500.000	0	12	12
1000.000	500.000	175	0	175
1000.000	1000.000	0	58	58
2000.000	2000.000	0	6	6
5000.000	5000.000	0	1	1



Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Business /		
			Consumer	Govt	Total
	10000.000	10000.000	0	5	5
<b>Total</b>			<b>10130</b>	<b>3165</b>	<b>13295</b>

**Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Georgia	29	0	0	0
Minnesota	4	0	0	0
Tennessee	19	2	0	0
Texas	27	0	0	0
Virginia	11555	3733	0	0
<b>Total</b>	<b>11634</b>	<b>3735</b>	<b>0</b>	<b>0</b>

**Fixed Voice Subscription (VGE Lines)**

**VGE Lines Provided to Unaffiliated Providers by State**

State	Wholesale	UNE-L
Georgia	0	0
Minnesota	0	0
Tennessee	555	0
Texas	0	0
Virginia	0	0
<b>Total</b>	<b>555</b>	<b>0</b>

**VGE Lines Provided to End Users by State, Bundle and Product Type**

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Georgia	29	0	29	0	0	0	29
Minnesota	4	4	0	0	0	0	4
Tennessee	19	18	1	0	2	0	17
Texas	27	27	0	0	0	0	27
Virginia	11555	10272	1283	519	3214	794	7028
<b>Total</b>	<b>11634</b>	<b>10321</b>	<b>1313</b>	<b>519</b>	<b>3216</b>	<b>794</b>	<b>7105</b>

**VGE Lines Provided to End Users by State, Ownership and Last-mile Medium**

State	Total	by Ownership				by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper	



State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Reeale	FTTP	Coax	Fixed Wireless	Copper
Georgia	29	29	0	0	29	0	0	0
Minnesota	4	4	0	0	4	0	0	0
Tennessee	19	19	0	0	19	0	0	0
Texas	27	27	0	0	27	0	0	0
Virginia	11555	11555	0	0	11555	0	0	0
<b>Total</b>	<b>11634</b>	<b>11634</b>	<b>0</b>	<b>0</b>	<b>11634</b>	<b>0</b>	<b>0</b>	<b>0</b>





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Form 477 Filing Summary

FRN: 0028292316 | Data as of: Jun 30, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Sep 1, 2020 15:22:50

### Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband of Opelika, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	832079
Data Contact Information	Data Contact Name	Chad Wachter
	Data Contact Phone Number	(706) 773-2663
	Data Contact E-mail	cwachter@itchold.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2663
	Emergency Operations E-mail	cwachter@itchold.com
Certifying Official Contact Information	Certifying Official Name	Olivia Barber
	Certifying Official Phone Number	(706) 518-1071
	Certifying Official E-mail	olivia.barber@point-broadband.com

### Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Point_Broadband_Opelika_477_Deployment_June_2020.csv	Aug 30, 2020 22:48:01	508
Fixed Broadband Subscription	Point_Broadband_Opelika_477_Data_Subscriptions_June_2020.csv	Aug 30, 2020 22:38:48	80
Fixed Voice Subscription	Opelika_Voice_Subs_June_2020.txt	Aug 30, 2020 22:30:19	8

### Fixed Broadband Deployment

#### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Point Broadband Opelika, LLC	Optical Carrier/Fiber to the End User	508
<b>Total</b>			<b>508</b>



**Fixed  
Broadband  
Subscription****Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Optical Carrier/Fiber to the End User	80	3876	358	4234
<b>Total</b>		<b>80</b>	<b>3876</b>	<b>358</b>	<b>4234</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
25.000	5.000	496	0	496
50.000	25.000	585	0	585
60.000	60.000	83	0	83
100.000	50.000	858	0	858
100.000	100.000	1065	285	1350
200.000	100.000	286	0	286
500.000	250.000	82	0	82
500.000	500.000	0	30	30
1000.000	500.000	68	0	68
1000.000	1000.000	353	43	396
<b>Total</b>		<b>3876</b>	<b>358</b>	<b>4234</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	25.000	5.000	496	0	496
	50.000	25.000	585	0	585
	60.000	60.000	83	0	83
	100.000	50.000	858	0	858
	100.000	100.000	1065	285	1350
	200.000	100.000	286	0	286
	500.000	250.000	82	0	82
	500.000	500.000	0	30	30
	1000.000	500.000	68	0	68
	1000.000	1000.000	353	43	396
<b>Total</b>			<b>3876</b>	<b>358</b>	<b>4234</b>

**VGE Lines and VoIP Subscriptions by State and End-user Type**



State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Alabama	1427	686	0	0
<b>Total</b>	<b>1427</b>	<b>686</b>	<b>0</b>	<b>0</b>

**Fixed Voice Subscription (VGE Lines)**

**VGE Lines Provided to Unaffiliated Providers by State**

State	Wholesale	UNE-L
Alabama	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

**VGE Lines Provided to End Users by State, Bundle and Product Type**

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Alabama	1427	1427	0	0	686	0	741
<b>Total</b>	<b>1427</b>	<b>1427</b>	<b>0</b>	<b>0</b>	<b>686</b>	<b>0</b>	<b>741</b>

**VGE Lines Provided to End Users by State, Ownership and Last-mile Medium**

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Alabama	1427	1427	0	0	1427	0	0	0
<b>Total</b>	<b>1427</b>	<b>1427</b>	<b>0</b>	<b>0</b>	<b>1427</b>	<b>0</b>	<b>0</b>	<b>0</b>





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Form 477 Filing Summary

FRN: 0026198762 | Data as of: Jun 30, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Sep 1, 2020 15:18:25

**Filer Identification**

Section	Question	Response
Filer Information	Company Name	Point Broadband, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(706) 518-1071
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2663
	Emergency Operations E-mail	cwachter@itchoild.com
Certifying Official Contact Information	Certifying Official Name	Olivia Barber
	Certifying Official Phone Number	(706) 518-1071
	Certifying Official E-mail	olivia.barber@point-broadband.com

**Data Submitted**

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	form477_deployments_7wlQ1Y.csv	Aug 31, 2020 16:08:27	1023
Fixed Broadband Subscription	form477_subscriptions_745jF2.csv	Aug 31, 2020 15:42:46	163

**Fixed Broadband Deployment**

**Census Block Counts by State, DBA Name and Technology**

State	DBA Name	Technology	Blocks
Alabama	Point Broadband LLC	Terrestrial Fixed Wireless	210
Florida	Point Broadband LLC	Terrestrial Fixed Wireless	3
Georgia	Point Broadband LLC	Terrestrial Fixed Wireless	696
Louisiana	Point Broadband LLC	Asymmetric xDSL	6
		Terrestrial Fixed Wireless	43
Mississippi	Point Broadband LLC	Terrestrial Fixed Wireless	65
<b>Total</b>			<b>1023</b>



**Fixed Broadband Subscription**

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Terrestrial Fixed Wireless	51	436	32	468
Florida	Terrestrial Fixed Wireless	2	3	0	3
Georgia	Terrestrial Fixed Wireless	88	1359	83	1442
Louisiana	Asymmetric xDSL	2	7	0	7
	Terrestrial Fixed Wireless	8	177	7	184
Mississippi	Terrestrial Fixed Wireless	12	182	8	190
<b>Total</b>		<b>163</b>	<b>2164</b>	<b>130</b>	<b>2294</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
5.000	1.000	3	0	3
9.999	1.000	1	5	6
10.000	1.000	1035	26	1061
10.000	1.033	7	2	9
10.000	5.000	0	1	1
20.000	2.000	827	66	893
20.000	5.000	0	2	2
30.000	3.000	28	7	35
50.000	1.000	243	16	259
80.000	10.000	20	5	25
<b>Total</b>		<b>2164</b>	<b>130</b>	<b>2294</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Asymmetric xDSL	10.000	1.000	7	0	7
Terrestrial Fixed Wireless	5.000	1.000	3	0	3
	9.999	1.000	1	5	6
	10.000	1.000	1028	26	1054
	10.000	1.033	7	2	9
	10.000	5.000	0	1	1
	20.000	2.000	827	66	893
	20.000	5.000	0	2	2



<https://apps.fcc.gov/eform477/Long-Form-Summary.xhtm1?retId=kq1>

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	30,000	3,000	28	7	35
	50,000	1,000	243	16	259
	80,000	10,000	20	5	25
<b>Total</b>			<b>2164</b>	<b>130</b>	<b>2294</b>





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Form 477 Filing Summary

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### Filer Identification

Section	Question	Response
Filer Information	Company Name	Sunset Digital Communications, LLC
	Holding Company Name	Sunset Digital Communications, LLC
	SAC ID	199025, 299033
	499 ID	833253
Data Contact Information	Data Contact Name	Chad Wachter
	Data Contact Phone Number	(706) 773-2663
	Data Contact E-mail	cwachter@tchold.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2663
	Emergency Operations E-mail	cwachter@tchold.com
Certifying Official Contact Information	Certifying Official Name	Olivia Barber
	Certifying Official Phone Number	(706) 518-1071
	Certifying Official E-mail	olivia.barber@point-broadband.com

### Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	2020-06-30_BVU_FCC477_Fixed_Broadband_Deployment_DuffieldRevised3.csv	Sep 1, 2020 16:37:11	1329
Fixed Broadband Subscription	2020-06-30_BVU_FCC477_Fixed_Broadband_Subscription_DuffieldRevised4.csv	Sep 1, 2020 17:08:56	320
Fixed Voice Subscription	2020-06-30_BVU_FCC477_Fixed_Voice_Data_Subscription_DuffieldRevised4.csv	Sep 1, 2020 17:15:42	31

### Fixed Broadband Deployment

#### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Tennessee	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	704
Virginia	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	625
<b>Total</b>			<b>1329</b>



**Fixed Broadband Subscription**

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	141	2839	209	3048
Virginia	Optical Carrier/Fiber to the End User	179	1738	277	2015
<b>Total</b>		<b>320</b>	<b>4577</b>	<b>486</b>	<b>5063</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
10.000	1.000	16	113	129
10.000	10.000	0	10	10
12.000	2.000	0	4	4
15.000	15.000	0	1	1
20.000	2.000	0	3	3
20.000	20.000	0	1	1
25.000	2.000	2	33	35
25.000	5.000	2272	39	2311
25.000	25.000	0	4	4
30.000	5.000	0	18	18
50.000	5.000	0	87	87
50.000	25.000	579	5	584
50.000	50.000	0	8	8
75.000	5.000	0	2	2
100.000	3.000	3	36	39
100.000	8.000	0	2	2
100.000	10.000	0	53	53
100.000	50.000	1174	14	1188
100.000	100.000	0	9	9
200.000	20.000	0	18	18
200.000	100.000	378	0	378
200.000	200.000	0	4	4
300.000	50.000	0	10	10
500.000	250.000	93	1	94
500.000	500.000	0	4	4
1000.000	500.000	60	0	60



Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
1000.000	1000.000	0	4	4
10000.000	10000.000	0	3	3
<b>Total</b>		<b>4577</b>	<b>486</b>	<b>5063</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	10.000	1.000	16	113	129
	10.000	10.000	0	10	10
	12.000	2.000	0	4	4
	15.000	15.000	0	1	1
	20.000	2.000	0	3	3
	20.000	20.000	0	1	1
	25.000	2.000	2	33	35
	25.000	5.000	2272	39	2311
	25.000	25.000	0	4	4
	30.000	5.000	0	18	18
	50.000	5.000	0	87	87
	50.000	25.000	579	5	584
	50.000	50.000	0	8	8
	75.000	5.000	0	2	2
	100.000	3.000	3	36	39
	100.000	8.000	0	2	2
	100.000	10.000	0	53	53
	100.000	50.000	1174	14	1188
	100.000	100.000	0	9	9
	200.000	20.000	0	18	18
200.000	100.000	378	0	378	
200.000	200.000	0	4	4	
300.000	50.000	0	10	10	
500.000	250.000	93	1	94	
500.000	500.000	0	4	4	
1000.000	500.000	60	0	60	
1000.000	1000.000	0	4	4	
10000.000	10000.000	0	3	3	



Technology	Downstream Bandwidth (in Mbps)		Upstream Bandwidth (in Mbps)		Consumer	Govt	Total
<b>Total</b>					<b>4577</b>	<b>486</b>	<b>5063</b>

**Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Tennessee	845	564	0	0
Virginia	462	203	0	0
<b>Total</b>	<b>1307</b>	<b>767</b>	<b>0</b>	<b>0</b>

**Fixed Voice Subscription (VGE Lines)**

**VGE Lines Provided to Unaffiliated Providers by State**

State	Wholesale	UNE-L
Tennessee	0	0
Virginia	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

**VGE Lines Provided to End Users by State, Bundle and Product Type**

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Tennessee	845	809	36	121	443	83	198
Virginia	462	456	6	203	0	259	0
<b>Total</b>	<b>1307</b>	<b>1265</b>	<b>42</b>	<b>324</b>	<b>443</b>	<b>342</b>	<b>198</b>

**VGE Lines Provided to End Users by State, Ownership and Last-mile Medium**

State	Total	by Ownership				by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper	
Tennessee	845	845	0	0	845	0	0	0	
Virginia	462	462	0	0	462	0	0	0	
<b>Total</b>	<b>1307</b>	<b>1307</b>	<b>0</b>	<b>0</b>	<b>1307</b>	<b>0</b>	<b>0</b>	<b>0</b>	





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Form 477 Filing Summary

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### Filer Identification

Section	Question	Response
Filer Information	Company Name	Sunset Fiber, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	822704
Data Contact Information	Data Contact Name	Chad Wachter
	Data Contact Phone Number	(706) 773-2663
	Data Contact E-mail	cwachter@itchoold.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2663
	Emergency Operations E-mail	cwachter@itchoold.com
Certifying Official Contact Information	Certifying Official Name	Olivia Johnson-Barber
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	olivia.barber@point-broadband.com

### Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	O2020-06-30_BVU_FCC477_Fixed_Broadband_DeploymentV2.csv	Sep 1, 2020 12:21:42	14159
Fixed Broadband Subscription	O2020-06-30_BVU_FCC477_Fixed_Broadband_Subscription_BristolFootprint.csv	Aug 31, 2020 16:01:10	879
Fixed Voice Subscription	2020-06-30_BVU_FCC477_Fixed_Voice_Data_Subscription_BristolFootPrint.csv	Sep 1, 2020 09:00:59	77

### Fixed Broadband Deployment

#### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Minnesota	OptiNet	Optical Carrier/Fiber to the End User	1
Tennessee	OptiNet	Optical Carrier/Fiber to the End User	1165
Texas	OptiNet	Optical Carrier/Fiber to the End User	1



State	DBA Name	Technology	Blocks
Virginia	OptiNet	Optical Carrier/Fiber to the End User	12992
<b>Total</b>			<b>14159</b>

**Fixed Broadband Subscription**

**Fixed Broadband Subscriptions by State, Technology and End-user Type**

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	17	9	12	21
Virginia	Optical Carrier/Fiber to the End User	862	10006	3168	13174
<b>Total</b>		<b>879</b>	<b>10015</b>	<b>3180</b>	<b>13195</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.384	0.384	0	450	450
1.000	1.000	0	1	1
1.500	0.384	0	36	36
1.500	1.000	0	128	128
1.500	1.500	0	2	2
2.000	2.000	0	166	166
3.000	1.000	1	319	320
5.000	5.000	0	26	26
6.000	1.000	1	223	224
8.000	2.000	0	2	2
10.000	1.000	0	106	106
10.000	10.000	0	53	53
12.000	2.000	0	313	313
15.000	5.000	0	4	4
20.000	2.000	1	222	223
20.000	20.000	0	15	15
25.000	2.000	0	1	1
25.000	5.000	14	56	70
25.000	25.000	0	22	22
30.000	5.000	3196	357	3553
30.000	30.000	0	1	1
50.000	5.000	266	284	550



Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
50.000	25.000	1743	1	1744
50.000	50.000	0	57	57
75.000	10.000	1	0	1
100.000	3.000	0	1	1
100.000	10.000	0	103	103
100.000	50.000	3180	0	3180
100.000	100.000	0	55	55
150.000	20.000	13	0	13
150.000	75.000	0	8	8
150.000	150.000	0	15	15
200.000	20.000	0	14	14
200.000	100.000	1378	0	1378
200.000	200.000	0	25	25
250.000	250.000	0	3	3
300.000	50.000	0	32	32
300.000	150.000	0	1	1
300.000	300.000	0	4	4
400.000	400.000	0	2	2
500.000	250.000	148	0	148
500.000	500.000	0	12	12
1000.000	500.000	73	0	73
1000.000	1000.000	0	53	53
2000.000	2000.000	0	5	5
5000.000	5000.000	0	1	1
10000.000	10000.000	0	1	1
<b>Total</b>		<b>10015</b>	<b>3180</b>	<b>13195</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	0.384	0.384	0	450	450
	1.000	1.000	0	1	1
	1.500	0.384	0	36	36
	1.500	1.000	0	128	128
	1.500	1.500	0	2	2



Technology	Downstream Bandwidth (in	Upstream Bandwidth (in	Consumer	Govt	Total
	Mbps)	Mbps)			
	2.000	2.000	0	166	166
	3.000	1.000	1	319	320
	5.000	5.000	0	26	26
	6.000	1.000	1	223	224
	8.000	2.000	0	2	2
	10.000	1.000	0	106	106
	10.000	10.000	0	53	53
	12.000	2.000	0	313	313
	15.000	5.000	0	4	4
	20.000	2.000	1	222	223
	20.000	20.000	0	15	15
	25.000	2.000	0	1	1
	25.000	5.000	14	56	70
	25.000	25.000	0	22	22
	30.000	5.000	3196	357	3553
	30.000	30.000	0	1	1
	50.000	5.000	266	284	550
	50.000	25.000	1743	1	1744
	50.000	50.000	0	57	57
	75.000	10.000	1	0	1
	100.000	3.000	0	1	1
	100.000	10.000	0	103	103
	100.000	50.000	3180	0	3180
	100.000	100.000	0	55	55
	150.000	20.000	13	0	13
	150.000	75.000	0	8	8
	150.000	150.000	0	15	15
	200.000	20.000	0	14	14
	200.000	100.000	1378	0	1378
	200.000	200.000	0	25	25
	250.000	250.000	0	3	3
	300.000	50.000	0	32	32
	300.000	150.000	0	1	1



Technology	Downstream Bandwidth (in	Upstream Bandwidth (in	Consumer	Govt	Total
	Mbps)	Mbps)			
	300.000	300.000	0	4	4
	400.000	400.000	0	2	2
	500.000	250.000	148	0	148
	500.000	500.000	0	12	12
	1000.000	500.000	73	0	73
	1000.000	1000.000	0	53	53
	2000.000	2000.000	0	5	5
	5000.000	5000.000	0	1	1
	10000.000	10000.000	0	1	1
<b>Total</b>			<b>10015</b>	<b>3180</b>	<b>13195</b>

**Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Minnesota	4	0	0	0
Tennessee	19	1	0	0
Texas	27	0	0	0
Virginia	12002	4233	0	0
<b>Total</b>	<b>12052</b>	<b>4234</b>	<b>0</b>	<b>0</b>

**Fixed Voice Subscription (VGE Lines)**

**VGE Lines Provided to Unaffiliated Providers by State**

State	Wholesale	UNE-L
Minnesota		0
Tennessee		595
Texas		0
Virginia		0
<b>Total</b>		<b>595</b>

**VGE Lines Provided to End Users by State, Bundle and Product Type**

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Minnesota	4	4	0	0	0	0	4
Tennessee	19	18	1	0	1	0	18
Texas	27	27	0	0	0	0	27



State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Virginia	12002	10553	1449	636	3597	823	6946
<b>Total</b>	<b>12052</b>	<b>10602</b>	<b>1450</b>	<b>636</b>	<b>3598</b>	<b>823</b>	<b>6995</b>

**VGE Lines Provided to End Users by State, Ownership and Last-mile Medium**

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Minnesota	4	4	0	0	4	0	0	0
Tennessee	19	19	0	0	19	0	0	0
Texas	27	27	0	0	27	0	0	0
Virginia	12002	12002	0	0	12002	0	0	0
<b>Total</b>	<b>12052</b>	<b>12052</b>	<b>0</b>	<b>0</b>	<b>12052</b>	<b>0</b>	<b>0</b>	<b>0</b>



# Telecommunications Needs Assessment and Development of Remedial Strategies for Southwest Virginia

Prepared for:

The Virginia Department of Housing and Community Development

The Town of Nickelsville

LENOWISCO, Cumberland Plateau, and Mount Rogers PDCs

May 8, 2019

*Prepared by*



*and*





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## 2 EXECUTIVE SUMMARY

This report documents a comprehensive needs assessment of the telecommunications services in thirteen counties and three cities in Planning Districts 1, 2 and 3 in Southwest Virginia.

The rural parts of Southwest Virginia are largely under-served, with some areas completely *unserved*, by broadband providers. The low population density in the region and the highly challenging geography -- the Appalachian Mountain range -- make it unlikely that the region's leaders will be able to rely on the private sector to solve this problem -- if there were a market-based business case, the investor-owned service providers would already be serving.

With few exceptions, the Incumbent Local Exchange Carriers' traditional copper and cable networks are insufficient to meet the current and future bandwidth needs of the region. Due to the financial impracticality of deploying current-technology networks, most incumbent local exchange carriers have neglected to extend, upgrade, or expand their networks in the region. Through public and private investment funds, others have built middle-mile fiber along the main corridors but generally without a last-mile solution.

This lack of ubiquitous, affordable, reliable broadband has had an ongoing impact on the region. In many areas covered in this study, populations are declining. Communities are having difficulties retaining youth. Economies are stagnant and lacking the means to grow. Residents are frustrated and, in some cases, indignant about the lack of broadband and wireless. Students are falling behind. Small businesses cannot compete. Larger businesses are moving out of the region. Not all of these maladies are caused by lack of sufficient broadband services, but it is certainly a contributing factor.

The need and demand for broadband communications services is great. The demand is sufficient to justify a long-term public investment. The total projected cost for broadband is estimated at \$52 Million. This represents a high-level estimate of the total cost to solve the last-mile issue at 62 high-priority communities within the three Planning Districts. This cost estimate is based upon leveraging the existing investments made by the Virginia Tobacco Region Revitalization Commission, the Virginia Coalfield Economic Development Authority, the EDA, and other providers of capital in the regional communications infrastructure. The plan calls for approximately -372 miles of new backbone fiber and 931 miles of drops, resulting in an estimated cost of \$ 7,584 per home. The investment will pass over 9,800 homes and it is estimated 6,884 will subscribe to service. It must be noted that these unserved and underserved 62 communities are the most difficult to reach with the sparsest population density. Also, once the backbone is built to serve these communities, additional incremental (those not subscribing to service in the initial buildout) can be added for approximately \$2,200 per residence, depending upon drop length.



The following table displays the breakdown of the residences to be served, the miles of backbone and drops, and total estimated cost to remediate the targeted areas by Planning District.

Cost Estimate	Regional Total	PDC 1	PDC 2	PDC 3
Homes Passed	9,831	1,368	4,574	3,889
No. of Customers (at take rate)	6,884	957	3,202	2,725
Miles of Backbone	372	70	126	177
Miles of Drop	931	130	433	368
Total Cost (EST)	\$ 52,207,296	\$ 8,662,984	\$ 20,566,494	\$ 22,977,817
Cost per Home	\$ 7,584	\$ 9,052	\$ 6,423	\$ 8,432

This \$52 million investment will not solve all of the regional connectivity problems. It will however, address access to high-speed Internet service for the communities in the greatest need.

Additionally, this plan does not address wireless services (cellular) in the region. Simply put, there is no path forward to improving commercial wireless services in the region without a partnership/collaboration with one of the major wireless operators. The region has immense potential to build upon the wireless infrastructure deployed for the 4g project, but it is fruitless to build additional towers, distributed antennae systems, or microcells in hopes that a wireless service provider will use the assets. Wireless operators are inscrutable in their network planning and never use assets simply because they have been made available.

The prioritized list of communities to be addressed are presented in Section 5 of this report. For implementation of this plan we recommend that the regional leaders find a way to formalize a relationship with Scott County Telephone Cooperative, Citizens Telephone Cooperative, and CPC Broadband. All three of these organizations have displayed a long history of *purpose-over-profit* and shared values with the regional planning leaders to improve the quality of life in the region and drive economic development. For any collaboration to work, shared values is the most important characteristic for success.

To fund this plan Section 7.2 of the Appendices lists the resources available to improve the lack of broadband services in the identified communities. It is recommended that a separate legal entity be organized to address the connectivity issues (broadband and



wireless) in the 13 -county region. Additionally, that Executive Director must be tasked with specific accountabilities (and rewards) to seek funding for these high priority communities. In short, all of rural America will be competing for these funds. The regional leaders must become tireless advocates for the region's communications needs.

Intuitively, everyone understands there is a correlation between investments in broadband and economic development. The relationships are well studied and there are a number of scholarly articles that quantify the impacts of investment in rural broadband and economic growth, specifically:

- Gross Domestic Product Per capita Increase,
- Median Household Income Increase, and
- Productivity Increase

One of the more recent studies commissioned by the World Bank, studied the economic impact in developing economies:

*Digital Dividends. Exploring the Relationship Between Broadband and Economic Growth,*  
by Michael Mingos, 2016.

The study concludes that a 10 percentage point increase in fixed broadband penetration would increase GDP growth by 1.21% in developed economies and 1.38% in developing ones. The GDP of the 13 county region is approximately \$12 Billion annually. The resulting economic impact in the region from the proposed investment can be expected to yield between \$145 Million and \$166 Million of economic growth, recurring annually.

There are hundreds of scholarly articles supporting this expectation.



## 3 INTRODUCTION

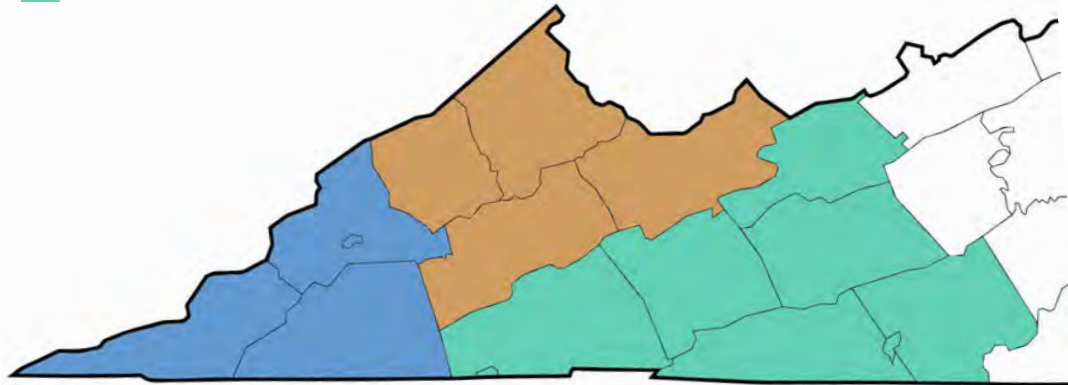
This report documents a comprehensive needs assessment of the telecommunications services in thirteen counties and three cities in Planning Districts 1, 2 and 3 in Southwest Virginia.

### 3.1 Project Area

#### Broadband Project Assessment Area – SW VA

##### Legend

- LENOWISCO PDC 1
- Cumberland Plateau PDC 2
- Mount Rogers PDC 3



Despite the fact that Southwest Virginia has seen over \$160 mm in capital investment over the last 20 years to improve the communications infrastructure, the region still has significant gaps in coverage. In 2016, a study by the Virginia Chamber of Commerce indicated that only 53 percent of rural Virginians had access to broadband Internet compared to urban areas with 96 percent.

During the course of this study, many communities have come forward to highlight the fact that there are areas completely unserved and underserved, and that many services are unaffordable. This outcry prompted leaders within the planning districts to strive to help improve high-speed Internet service, emergency communications service, and wireless service.



The areas studied are outlined in the following table. Across the region, population densities are low, and counties and cities are losing population due to the lack of vibrant economies. To support a growing economy, the region must have sufficient infrastructure and technologies.

Region	2010 Census	2018 Estimate	Percent Change	Square Miles	Density per Sq. Mile
Bland	6,824	6,432	-6%	358	18
Bristol city	17,835	16,877	-5%	13	1,297
Buchanan	24,098	21,576	-10%	503	43
Carroll	30,042	29,141	-3%	475	61
Dickenson	15,903	14,516	-9%	331	44
Galax City	7,042	6,587	-6%	8	799
Grayson	15,533	15,330	-1%	442	35
Lee	25,587	23,994	-6%	436	55
Norton City	3,958	3,908	-1%	7	522
Russell	28,897	27,057	-6%	474	57
Scott	23,177	22,121	-5%	536	41
Smyth	32,208	30,475	-5%	451	68
Tazewell	45,078	41,973	-7%	519	81
Washington	54,876	53,992	-2%	561	96
Wise	41,452	38,386	-7%	403	95
Wythe	29,235	28,650	-2%	462	62
<b>Total/Average</b>	<b>401,745</b>	<b>381,015</b>	<b>-5%</b>	<b>5,977</b>	<b>211</b>

### 3.2 Project Team

#### Thompson and Litton Engineers

Thompson & Litton Engineers (T&L), a local professional services firm, was selected to develop the study. T&L teamed with Blue Ridge Advisory Services Group, Inc. (Blue Ridge) to complete a comprehensive needs assessment and identify potential remedial solutions for the LENOWISCO (PDC 1), Cumberland Plateau (PDC 2), and Mount Rogers (PDC 3) planning districts.

T&L has over 100 employees in eight offices, offering an array of engineering, architectural, surveying, planning and construction services throughout Southwest Virginia, Tennessee, and West Virginia. T&L has designed 15 broadband projects and numerous wireless deployment projects since 2006.



With offices in Wise, Tazewell, and Chilhowie, T&L has a presence in each PDC associated with this study and is committed to providing superior service to the people within the region, as it has since 1956.

T&L's related project experiences include:

- Roanoke Valley Broadband Authority
- Citizens Telephone Cooperative
- Bristol VA Utilities/Cumberland Plateau
- Virginia Coalfield Coalition
- Verizon Wireless
- AT&T Mobility
- Nextel Communications
- SBA Communications
- Roanoke County, Virginia
- Virginia State Police

### **Blue Ridge Advisory Services Group**

Blue Ridge Advisory Services Group (Blue Ridge) is a professional services firm that has been serving the telecommunications sector for 20 years. The firm provides strategies, business plans, feasibility studies, financial modeling, and other value-added related services to bring about actionable plans to improve communities.

Blue Ridge's related project experience includes:

- Dominion Energy Telecommunications,
- DukeNet,
- CaroNet,
- TVA Telecom,
- Bonneville Power Telecom,
- Mid-Atlantic Broadband (and LIT Networks),
- Virginia Coalfield Coalition 4g Wireless.
- LENOWISCO LLC
- Roanoke Valley Broadband Authority
- Consolidated Cooperative FTTH Initiative

The study is being funded by a grant from the Appalachian Regional Commission (ARC) and Virginia Department of Housing and Community Development (DHCD). It is sponsored by the Town of Nickelsville, the Cumberland Plateau, LENOWISCO and Mount Rogers PDCs, and the Virginia Coalfield Coalition (VCC). The results of this study will serve to increase awareness and knowledge of where the broadband gaps are and hopefully lead to improved broadband choices for all residents, businesses, and visitors in Southwest Virginia.



### **3.3 Deliverables**

The final deliverables of this study include this written report, as well as two presentations to the management team. The first presentation was made in February 2019 and was followed by a second presentation in April 2019. All work products are the property of the ARC, DHCD, the VCC, the three PDCs, and the Town of Nickelsville.

### **3.4 Methodology**

T&L and Blue Ridge worked with a cross-functional management team of regional representatives to define:

- Accomplishments in the Region,
- Community Needs,
- Regional Needs,
- Remedial Strategies and Associated Costs,
- Prioritized List of Communities in Greatest Need,
- Potential Funding Sources and Strategies, and
- Potential Service Providers.

To identify the specific needs of each community (as well as the regional needs identified in Section 7.1 of the Appendices to this report) Blue Ridge conducted 40 interviews with key stakeholders in the region, covering 13 counties and 3 cities in Southwest Virginia, including:

- 8 with LENOWISCO
- 6 with Cumberland Plateau
- 8 with Mount Rogers
- 7 with industry leaders/stakeholders in the region
- 11 with telecom service providers that are active in the region



### 3.5 Accomplishments in Southwest Virginia

Over the past 20 years, approximately \$168 Million dollars of public investments have been made in Planning Districts 1, 2 and 3 to enhance broadband communication. The following table shows a breakdown of those investments by planning district.

Planning District	Amount Invested
LENOWISCO	\$ 71,579,167
Cumberland Plateau	\$ 45,758,931
Mount Rogers	\$ 50,383,291
<b>Total Public Investment in Planning Districts 1, 2, &amp; 3</b>	<b>\$167,721,389</b>

Beginning in 2000, the PDCs, realizing that the Internet was more than a passing fad, began to aggressively integrate broadband planning into their regional planning. Attitudes towards broadband gradually shifted from being considered an *amenity* to being recognized as a *necessity*. Broadband has become a quality of life issue and a necessity for ensuring economic development in every region. Essentially, it is the modern day equivalent of the Rural Electrification Act from the 1930s that brought electricity to rural America. In fact, today many are calling broadband “*the fifth utility*.”

On a national level, investments are being made in tele-health, school system technology, distance learning, and emergency preparedness. Telecommunications grants and loans are being made to improve services in each of these critical areas within the study area.

While some of these grant awards were single purpose and would not allow broadband operators to maximize their use by connecting all classes of commercial and residential customers in some cases, technology investment has driven and enhanced economic development in certain areas. A prime example of this is the Southwest Virginia Technology Center of Excellence, which is a software development and systems integration facility in the town of Lebanon in Russell County. CGI Group Inc., the fifth largest independent information technology and business process services firm in the world, invested in the area because of the grant-funded fiber optic backbone. Northrop Grumman Corporation, an American global aerospace and defense technology company, is also located in Lebanon.

Other examples include DP Facilities, Inc. data center in Wise County and Sykes Enterprises’ call centers in Buchanan and Wise Counties. Norton (PDC 1) has a Medicare transportation call center and one of its partners – the medical records data center - is in Duffield (Scott County). It is billed as “the first Tier 4 commercial data center in the US.”



## 4 Regional Needs

The region's needs to support technology-enabled, quality-of-life-improving applications were identified by interviewing key stakeholders throughout the three planning districts. Regional leaders view broadband as a necessity - a "4th utility." Some county leaders have taken the lack of broadband into their own hands and have begun their own initiatives to secure better services (Grayson County's RFP, for example).

### Major Trends

These viewpoints and initiatives demonstrate the following major trends/needs that were identified during the interview process:

- Plenty of middle-mile fiber exists in the region but there is **very little last mile connection**, especially in the more rural areas/off the main corridors. This presents a real need for a last-mile solution, as several providers have deployed fiber in the region along the major corridors but haven't extended the lines. The existing last mile providers, the incumbent local exchange carriers (ILECs), have not invested in upgrading their networks to adequately serve customers or ensure reliability in service.
- Broadband is available in areas with higher densities (cities such as Bristol and/or Norton), but issues include **unaffordable prices, lack of competition, and low quality of service**
- Some areas lack the basics - *cable TV* and/or reliable *landline* service
- **Cellular service is spotty** throughout parts of the region; there is no comprehensive cellular solution. *Some areas still run on 3G.*
- Residents in the more rural areas seem to tolerate the lack of coverage. Visitors and prospective investors -- who are accustomed to better services -- do NOT. They take their business elsewhere.

### Impact on Economic Development

While there is adequate connectivity to most of the industrial parks in the region, the lack of broadband in many areas has a profound impact on economic development.

- **Attracting Investment** - Prospective companies expect broadband to be available & won't wait for it to be built to suit. If a business expects to locate, high speed broadband with 4G is anticipated. Potential investors who cannot place a phone call from their cell phones are immediately turned off.
- **Tourism** - Tourists don't come back without cell service.
- **Infrastructure** - Broadband infrastructure is key to economic survival. Can't "get in the game" or even "sit on the bench" without it.
- **Workforce** - It's a serious "workforce issue" for retaining employees or getting new hires to relocate. Non-traditional, virtual jobs, and work from home will become more and more the future.



- **Innovation** - Broadband is necessary to foster innovation and to retain young people -- largest export is educated youth.
- **Real Estate** - Impacts home sales, as there is a noted lower demand for homes without access to broadband
- **Farming** - Impacts farming as operations become more technology-driven

#### Impact on Citizens

- **Options** - Without fiber and broadband, communities are unable to develop and provide advanced services
- **Price** - Consumers experience substantial pricing differentials across the region, depending on the level of competition
- **Speeds** – There is a gap between what’s advertised and what residents are experiencing, plus asymmetry between upload and download speeds

#### Impact on Emergency Medical Services

- Seamless emergency services communication is necessary
- A large concern by EMS is reaching tourists who cannot place cellular calls from remote areas
- Some people have to use landlines to call 911. As an illustration, in Haysi, if a call doesn’t go through, it doesn’t get forwarded, and callers have no access to emergency service.

#### Impact on Educational System

- Schools are well connected, but there is a major disconnect between school and home accessibility, also known as the “homework gap”



## 5 PRIORITIZATION OF COMMUNITIES

To prioritize the communities, the following methodology was agreed upon and used:

Rank	Criteria	Weight
1	<b>Level of Need</b>	<b>50 points</b>
	a) Un-served	
	b) Underserved	
2	<b>Number of Potential Connections</b>	<b>30 points</b>
3	<b>Cost</b>	<b>20 points</b>
	a) Backbone Connection Cost	
	b) Cost Per Connection (wireless, fiber)	

### 5.1 Broadband – Target Areas for Improvement

The following areas have been identified as targets for remediation in descending order of priority.

#### PDC 1 -- Broadband

PDC 1 - LENOWISCO								
Priority	County	Target Area for Improvement - Broadband	Homes Passed	Cost per Customer	Customers (at take rate)	Backbone Miles	Drop Miles	Total Estimated Cost
1	Lee	District 5 (north of 58 Alt)	62	\$ 8,100	43	3	6	\$ 348,313
2	Scott	Gate City to Duffield	366	\$ 10,688	256	24	35	\$ 2,736,206
3	Wise	Appalachia - Stonega	268	\$ 6,388	188	7	25	\$ 1,201,032
4	Wise	Appalachia - Exeter	260	\$ 6,578	182	8	25	\$ 1,197,236
5	Wise	Coeburn	150	\$ 7,005	105	5	14	\$ 735,528
6	Wise	Guest River	103	\$ 10,309	72	6	10	\$ 742,264
7	Wise	Birchfield	91	\$ 12,389	64	7	9	\$ 792,921
8	Lee	Blackwater	39	\$ 19,884	27	6	4	\$ 536,867
9	Wise	Hurricane	29	\$ 18,631	20	4	3	\$ 372,618
<b>TOTAL - PDC 1</b>			<b>1,368</b>	<b>\$ 9,052</b>	<b>957</b>	<b>70</b>	<b>129</b>	<b>\$ 8,662,984</b>



## PDC 2 -- Broadband

PDC 2 - CUMBERLAND PLATEAU								
Priority	County	Target Area for Improvement - Broadband	Homes Passed	Cost per Customer	Customers (at take rate)	Backbone Miles	Drop Miles	Total Estimated Cost
1	Tazewell	Baptist Valley	712	\$ 3,671	498	2	67	\$ 1,828,233
2	Dickenson	Haysi	37	\$ 5,454	26	1	4	\$ 141,813
3	Russell	Cleveland to Carbo	690	\$ 4,246	483	6	65	\$ 2,050,899
4	Buchanan	Council to Davenport	473	\$ 3,415	331	0	45	\$ 1,130,458
5	Tazewell	Abbs Valley	370	\$ 3,899	259	2	35	\$ 1,009,884
6	Tazewell	Gratton Valley	341	\$ 5,317	239	6	32	\$ 1,270,687
7	Dickenson	Honey Camp	85	\$ 9,467	60	5	8	\$ 568,009
8	Buchanan	Conaway	77	\$ 10,159	54	5	7	\$ 548,573
9	Buchanan	Big Rock	76	\$ 7,936	53	3	7	\$ 420,621
10	Tazewell	Richlands to Jewell Ridge	248	\$ 7,172	174	9	23	\$ 1,247,892
11	Buchanan	Dismal River Rd to Whitewood	234	\$ 11,460	164	17	22	\$ 1,879,384
12	Dickenson	Clinchco	112	\$ 4,267	78	1	11	\$ 332,822
13	Tazewell/Buchanan	Jewell Ridge to Bearwallow	63	\$ 13,490	44	6	6	\$ 593,565
14	Tazewell	Thompson Valley	167	\$ 11,241	117	12	16	\$ 1,315,201
15	Russell	Green Valley Rd	139	\$ 7,311	97	5	13	\$ 709,206
16	Russell	Belfast Mills	129	\$ 7,011	90	4	12	\$ 630,976
17	Tazewell	Tannersville	122	\$ 13,576	85	11	12	\$ 1,153,952
18	Buchanan	Home Creek	105	\$ 7,835	74	4	10	\$ 579,798
19	Buchanan	Hurricane Creek	89	\$ 9,166	62	5	8	\$ 568,297
20	Dickenson	Breaks	78	\$ 8,462	55	4	7	\$ 465,385
21	Buchanan	Hurley	57	\$ 9,021	40	3	5	\$ 360,833
22	Dickenson	Hill Ridge	56	\$ 6,974	39	2	5	\$ 271,981
23	Dickenson	Lick Creek	79	\$ 16,872	55	10	7	\$ 927,987
24	Buchanan	Bearwallow to Peapatch	35	\$ 22,402	25	6	3	\$ 560,039
<b>TOTAL - PDC 2</b>			<b>4,484</b>	<b>\$ 209,957</b>	<b>3,139</b>	<b>126</b>	<b>425</b>	<b>\$ 20,566,494</b>



## PDC 3 -- Broadband

PDC 3 - MOUNT ROGERS								
Priority	County	Target Area for Improvement - Broadband	Homes Passed	Cost per Customer	Customers (at take rate)	Backbone Miles	Drop Miles	Total Estimated Cost
1	Washington	South of Glade Spring	182	\$ 7,733	127	7	17	\$ 982,091
2	Bland	Ceres	39	\$ 6,271	27	1	4	\$ 169,327
3	Grayson	Providence to Fries	374	\$ 4,548	262	4	35	\$ 1,191,642
4	Smyth	Sugar Grove	301	\$ 4,910	211	4	29	\$ 1,035,967
5	Bland	Clear Fork	113	\$ 13,752	79	11	11	\$ 1,086,374
6	Smyth	Rich Valley	443	\$ 6,863	310	14	42	\$ 2,127,419
7	Bland	Bland to Holly Brook	283	\$ 10,703	198	19	27	\$ 2,119,121
8	Carroll	Hillsville to Fancy Gap	254	\$ 7,132	178	9	24	\$ 1,269,484
9	Washington	Damascus	182	\$ 3,768	127	1	17	\$ 478,483
10	Wythe	Austinville	175	\$ 5,955	123	4	17	\$ 732,497
11	Bland	Grapefield	96	\$ 16,083	67	11	9	\$ 1,077,560
12	Grayson	Independence to Elk Creek	185	\$ 9,485	130	10	18	\$ 1,233,007
13	Bland	Dry Fork	151	\$ 8,958	106	8	14	\$ 949,500
14	Grayson	Baywood	76	\$ 6,313	53	2	7	\$ 334,601
15	Washington	Mendota	63	\$ 4,959	44	1	6	\$ 218,205
16	Grayson	Galax to Old Town	60	\$ 5,962	42	1	6	\$ 250,419
17	Washington	Hayter's Gap	45	\$ 9,927	32	3	4	\$ 317,649
18	Smyth	Chilhowie Industrial Park	1	\$ 88,852	1	1	0	\$ 88,852
19	Bland	Little Creek	119	\$ 15,516	83	13	11	\$ 1,287,826
20	Carroll	Dugspur to Laurel Fork	105	\$ 15,285	74	11	10	\$ 1,131,108
21	Grayson	Independence to Bridle Creek	101	\$ 9,296	71	5	10	\$ 660,010
22	Wythe	Castleton Road	98	\$ 9,239	69	5	9	\$ 637,484
23	Carroll	South of Woodlawn	73	\$ 8,112	51	3	7	\$ 413,735
24	Wythe	Barren Springs	53	\$ 8,221	37	2	5	\$ 304,195
25	Grayson	East of Troutdale	25	\$ 7,217	18	1	2	\$ 129,910
26	Grayson	Mouth of Wilson to Rugby	87	\$ 14,762	61	9	8	\$ 900,503
27	Grayson	Rte 58 to Providence	77	\$ 12,331	54	6	7	\$ 665,873
28	Grayson	Elk Creek to Comers Rock	74	\$ 9,816	52	4	7	\$ 510,407
29	Grayson	Bridle Creek to Mouth of Wilson	54	\$ 17,752	38	7	5	\$ 674,567
<b>TOTAL - PDC 3</b>			<b>3,889</b>	<b>\$ 349,720</b>	<b>2,725</b>	<b>177</b>	<b>368</b>	<b>\$ 22,977,817</b>



## 5.2 Broadband Prioritized Target Areas for Improvement; All PDCs

Ranking	PDC	County	Target Area for Improvement - Broadband	Ranking	PDC	County	Target Area for Improvement - Broadband
1	PDC2	Tazewell	Baptist Valley	32	PDC1	Wise	Coeburn
2	PDC3	Washington	South of Glade Spring	33	PDC2	Russell	Green Valley Rd
3	PDC3	Bland	Ceres	34	PDC2	Russell	Belfast Mills
4	PDC2	Dickenson	Haysi	35	PDC3	Grayson	Baywood
5	PDC2	Russell	Cleveland to Carbo	36	PDC3	Washington	Mendota
6	PDC2	Buchanan	Council to Davenport	37	PDC3	Grayson	Galax to Old Town
7	PDC3	Grayson	Providence to Fries	38	PDC3	Washington	Hayter's Gap
8	PDC2	Tazewell	Abbs Valley	39	PDC3	Smyth	Chilhowie Industrial Park
9	PDC2	Tazewell	Gratton Valley	40	PDC2	Tazewell	Tannersville
10	PDC3	Smyth	Sugar Grove	41	PDC3	Bland	Little Creek
11	PDC3	Bland	Clear Fork	42	PDC3	Carroll	Dugspur to Laurel Fork
12	PDC2	Dickenson	Honey Camp	43	PDC2	Buchanan	Home Creek
13	PDC2	Buchanan	Conaway	44	PDC1	Wise	Guest River
14	PDC2	Buchanan	Big Rock	45	PDC3	Grayson	Independence to Bridle Creek
15	PDC1	Lee	District 5 (north of 58 Alt)	46	PDC3	Wythe	Castleton Road
16	PDC3	Smyth	Rich Valley	47	PDC2	Buchanan	Hurricane Creek
17	PDC1	Scott	Gate City to Duffield	48	PDC2	Dickenson	Breaks
18	PDC3	Bland	Bland to Holly Brook	49	PDC3	Carroll	South of Woodlawn
19	PDC1	Wise	Appalachia - Stonega	50	PDC2	Buchanan	Hurley
20	PDC1	Wise	Appalachia - Exeter	51	PDC2	Dickenson	Hill Ridge
21	PDC3	Carroll	Hillsville to Fancy Gap	52	PDC3	Wythe	Barren Springs
22	PDC2	Tazewell	Richlands to Jewell Ridge	53	PDC3	Grayson	East of Troutdale
23	PDC2	Buchanan	Dismal River Rd to Whitewood	54	PDC1	Wise	Birchfield
24	PDC3	Washington	Damascus	55	PDC3	Grayson	Mouth of Wilson to Rugby
25	PDC3	Wythe	Austinville	56	PDC2	Dickenson	Lick Creek
26	PDC2	Dickenson	Clinchco	57	PDC3	Grayson	Rte 58 to Providence
27	PDC3	Bland	Grapefield	58	PDC3	Grayson	Elk Creek to Comers Rock
28	PDC2	Tazewell/Buchanan	Jewell Ridge to Bearwallow	59	PDC3	Grayson	Bridle Creek to Mouth of Wilson
29	PDC3	Grayson	Independence to Elk Creek	60	PDC1	Lee	Blackwater
30	PDC2	Tazewell	Thompson Valley	61	PDC2	Buchanan	Bearwallow to Peapatch
31	PDC3	Bland	Dry Fork	62	PDC1	Wise	Hurricane



### 5.3 Cellular – Target Areas for Improvement

#### PDC 1 – Wireless

PDC 1	
County	Target Area for Improvement - Cellular
Lee	Blackwater
Lee	Ewing
Lee	Flatwoods
Lee	Keokee
Lee	LMU Vet School
Lee	Rose Hill
Lee	St Charles
Norton	Flag Rock Recreation Area
Norton	Hawthorne Drive
Scott	Clinchport to Dungannon
Scott	Dungannon
Scott	Fort Blackmore
Scott	Gate City to Duffield
Scott	Gate City to Nickelsville
Scott	Nickelsville
Scott/Russell	Nickelsville to Lebanon (Russell County, 30 mi)
Scott	Rye Cove
Scott	Twin Springs
Wise	Airport
Wise	Appalachia
Wise	Coeburn
Wise	Guest River area (NW of Norton, N of Blackwood)
Wise	Pound
Wise	Wise (past the airport towards Dickenson County)



**PDC 2 – Wireless**

<b>PDC 2</b>	
<b>County</b>	<b>Target Area for Improvement - Cellular</b>
Buchanan	US 460 Vasant to Richlands
Buchanan/Dickenson/Russell	Route 80/Scenic Bike Trail
Dickenson	Clintwood to St. Paul
Dickenson	Edwards Ridge
Dickenson	Haysi
Dickenson	Lick Creek
Russell	Cleveland
Russell	Dante
Russell	Honaker
Russell	Lebanon to Hansonville
Russell/Washington	Hansonville to Abingdon

**PDC 3 – Wireless**

<b>PDC 3</b>	
<b>County</b>	<b>Target Area for Improvement - Cellular</b>
Bland	Ceres
Bland	Clear Fork
Bland	Dry Fork
Bland	Grapefield
Bland	Holly Brook
Bland	Little Creek
Carroll	Dugspur
Carroll	Laurel Fork
Carroll	S of Woodlawn/NE of Lambsburg
Washington	Abingdon

**Wireless Service in the Future**

Unlike Broadband Service, little can be done by the regional leaders to improve wireless communications without the full cooperation and assistance of a major wireless carrier.



It is impossible to forecast the total capital cost to improve the wireless coverage in these unserved communities. The recent 4g wireless project undertaken by the Virginia Coalfield Coalition resulted in significant regional coverage expansion (estimated at 90% of the population in PDCs 1 and 2) for \$15 Million, with a matching capital expenditure by a carrier. It is reasonable to estimate that a similar budget would be required to achieve 100% coverage.

One thing is clear from the initial 4g wireless initiative. There can be no economic development, eco-tourism, smart communities, smart electric grid, autonomous vehicles, or anything of the like without solid wireless communications network.

#### **5<sup>th</sup> Generation Wireless (5G).**

The next evolution of wireless communications (mobile point-to-multipoint communications, sometimes called “cellular”) is called 5<sup>th</sup> Generation Wireless or 5G. 5G is a standards-based protocol that enables much higher data transmission speed to wireless devices than any previous standard.

**Why is 5G important?** 5<sup>th</sup> generation wireless will enable speeds of up to 4 gigabits per second. That is 80 times faster than the speeds experienced on a 4g LTE network. Our world is becoming increasingly more dependent upon mobile data. Things like Smart Cities, Smart Grid, Hi-definition Tele Health, and Autonomous Vehicles will all require 5G.

**What is the network like?** 5G operates at a much higher wave frequency than any of the previous generation’s networks. This means the signals will travel shorter distances and not be able to travel through impediments. However, the frequencies will carry much greater data payloads.

The FCC concluded its first 5G spectrum auction this year in the 28 GHz band, and its auction of 24 GHz spectrum is taking place right now. Later this year, the FCC will auction the upper 37 GHz, 39 GHz, and 47 GHz bands.

5G will require a completely different network architecture and infrastructure than is currently in place. Instead of 200 foot-tall towers with large macro cells that can cover miles of territory, 5G will require small-cell or micro-cell architecture that broadcasts only a few hundred feet. It is generally believed that 5G cells will be required every thousand feet or so. Cells will be placed on light poles, utility poles, rooftops, and sides of buildings. The cells are small and require less power than macro cells. A key component of the network is fiber optic cable, as all cells must be connected with fiber to meet the bandwidth and latency requirements.

**When will 5G be deployed?** Carriers are working on beta tests and early network testing in a handful of metropolitan markets. The complete spectrum auction being managed by the FCC will not be completed until the end of 2019. Mobile handset makers like Apple will not release a 5G phone until late 2020 or 2021. 5G will not be widely available for several years. The initial deployments that have been announced are all major metropolitan areas. It is unknown how long, if ever, 5G will be deployed in rural markets like our three Planning Districts. ***There is nothing expected from 5G that would disrupt the plan outlined in this document for the foreseeable planning horizon.***



## 6 Recommendations and Next Steps

It is neither the purpose nor the intention of this study to point out the obvious to the leadership of PDCs 1, 2, and 3. The situation is plainly known to every planner, politician, stakeholder, and citizen in the region – **the communications infrastructure in Southwest Virginia is woefully inadequate to move the region forward.**

There are areas of breakthrough performance that can be pointed to as major successes:

1. LIT Networks bringing direct fiber connectivity and terabit speeds to the region from Ashburn thus enabling the development of critical data centers. Lowering the cost of wholesale Internet for all regional service providers. And providing diversity to the major Internet NAPs in Atlanta Georgia with ring protection.
2. Scott County Telephone's, Citizens Telephone's, and Sunset Digital's Fiber to the Home (FTTH) initiatives delivering gigabit speeds to residential customers.
3. The VCC 4g wireless project which enabled 4<sup>th</sup> generation wireless services to reach a reported 90% of the population of PDC's 1 and 2 (excluding Scott and Tazewell Counties).
4. CPC Broadband (formerly CPC OptiNet) is a subsidiary company of the Cumberland Plateau PDC. It was organized to serve Russell, Dickenson, Tazewell, and Buchanan Counties. Partnering with Point Broadband the Company has obtained over \$37 million in grant funding for the construction of 700 miles of fiber optic broadband backbone that is now serving almost 900 industrial, commercial, governmental and educational institutions in the region, including Northrup Grumman, Sykes, Pyott-Boone, and Dickenson County Public Schools.

Yet, despite these successes, the plain truth is that without service **ubiquitously** in the region, there can be no sustainable economic development, job creation and retention, and work force development.

The purpose of this report is to identify a prioritized inventory of areas to address; presented in Section 5. Our recommendations for implementing improvement are as follows:

### 6.1 Recommendations

1. Address the broadband problem on a regional basis as three PDC's, not individually, competing against one another for scarce resources. Consider forming a separate legal entity (or repurposing an existing one like the VCC) specifically to attack solving the broadband problems in the region. Hire a



dedicated Executive Director and task him/her with time-specific and measurable goals. Link compensation to goal attainment.

2. This report presents a priority list by PDC, and a single integrated list. There are economies of scale to network deployment. It may be far more cost effective to attack the highest priority from PDC 3 and a middle priority from PDC 2 at the same time. This should be considered before undertaking a strict buildout of the presented priorities.
3. Formalize agreements with SCTC, Citizens, and CPC Broadband that outline the mechanics of how network will be funded, deployed, operated, and maintained, including any revenue sharing.
4. Continue to encourage WISPs such as iGo, HillCom, and Gigabeam to deploy their wireless networks in unserved markets. While wireless is neither as robust nor as high-a-quality service as fiber, this is a situation where anything is better than nothing for the unserved customer. The encouragement can come in the form of discounted costs for tower attachment, access to dark fiber, and assistance with grant/loan programs.
5. Ignore the notion that some communities may eventually be served by virtue of the Connect America Fund. The FCC Connect America Fund recipients are not obligated to serve customers for up to six years. The unserved residents of Southwest Virginia need service NOW.
6. Attain legislative assistance, particularly for wireless (cellular) deployments. Several times in this report it has been noted that there is no path forward for wireless expansion without a carrier's participation. When the VCC implemented the 4g wireless program in 2011, it was only possible because of the leadership of Delegate Kilgore and the Tobacco Commission striking a deal with a commercial wireless provider.
7. Strive to get Southwest Virginia broadband worked into the annual state budget. Governor Northam has noted several times that rural broadband is a priority for his administration. In December 2018, the Governor announced plans to ask the General Assembly to commit \$46 million in the state's upcoming budget to assist rural areas of Virginia to get broadband Internet access. The Southwest Legislative Delegation should strive for a specific earmark for the region.



## 7 ATTACHMENTS AND APPENDICES

### 7.1 COMMUNITY NEEDS APPENDIX

#### LENOWISCO

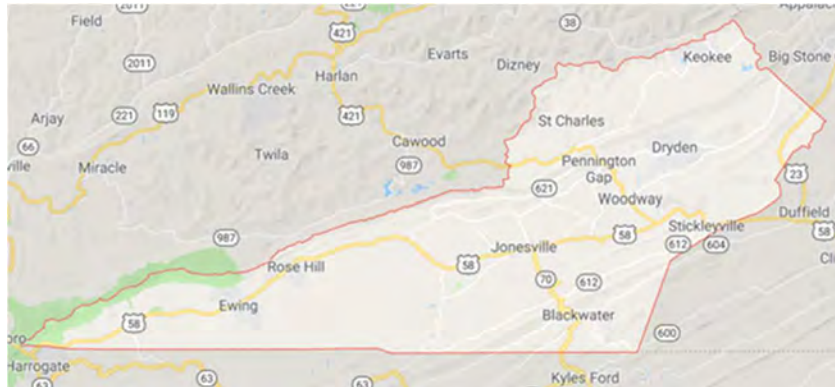
The following table shows the population change and density per square mile for PDC 1 – LENOWISCO (Lee, Norton, Wise, and Scott).

PDC 1	2010 Census	2018 Estimate	Percent Change	Square Miles	Density/Sq. Mile
Lee	25,587	23,994	-6%	436	55
Norton City	3,958	3,908	-1%	7	522
Wise	41,452	38,386	-7%	403	95
Scott	23,177	22,121	-5%	536	41
<b>Total/Average</b>	<b>94,174</b>	<b>88,409</b>	<b>-5%</b>	<b>1,382</b>	<b>68</b>

#### Lee County

Lee County is served by Comcast and Verizon with additional services provided by Sunset Digital Communications.

Pennington Gap and Jonesville are the main population centers within the county and are relatively well served. However, St. Charles and the surrounding communities are not as well served. A few areas reported no telephone service in inclement weather and a complete void of multi-channel video service. Of course, high speed Internet service is non-existent. Business services are limited.



From Rose Hill westward toward Cumberland Gap, complaints about broadband service have been ongoing for years.

Verizon, the Incumbent Local Exchange Carriers (ILEC) in the region, is offering broadband services using DSL in some portions of the region. DSL has a physical







Wise County communities identified as high-priority for broadband expansion are:

- Powell Valley
- Appalachia and the immediately surrounding coal camps
- Blackwood
- Areas north of the City of Norton
- West of US. 23
- Areas outside of Coeburn toward Scott County
- Smaller communities northeast of the Town of Wise
- Coeburn Mountain area (including Airport Road)
- Northwest of St. Paul
- Pound

### Scott County

Scott County Telephone Cooperative is the Incumbent Local Exchange Carrier for the county. SCTC has been very active in providing advanced telecom services throughout the county and region. Residents and businesses located near SCTC's central offices, remote access nodes, and switching centers receive excellent service. However, communities located further from the main exchanges don't have all of the bandwidth necessary to power their digital needs.



All schools in the county are well served; however, the lack of last-mile connectivity to residents hampers the full digital curricula potential.

The lack of adequate wireless (cellular) coverage throughout the county continues to be a challenge, with routine complaints coming in from various governmental entities within the county.

Specific communities in need for improved cellular service include:

- Nickelsville
- Fort Blackmore
- Rye Cove and
- Dungannon

*“Our biggest obstacle is not the infrastructure, but our vision of how to use that infrastructure.” – Danny Dixon, Vice Mayor of Nickelsville*



## City of Norton

The City of Norton has enjoyed robust communications services for years as a result of Verizon hosting a major Central Office in the downtown area. Economic development has taken advantage of that situation by successfully recruiting several digital businesses over the years including the Dual Party Relay Center providing services for the entire Commonwealth of Virginia through a contract with AT&T. That center recently closed as a result of contract changes and consolidation of services elsewhere. Verizon has also placed a directory assistance center within the city as has the statewide service that arranges Medicaid transportation services for their clients.

## Cumberland Plateau

The following table shows the population change and density per square mile for PDC 2 – Cumberland Plateau (Buchanan, Dickenson, Russell, and Tazewell Counties).

PDC 2	2010 Census	2018 Estimate	Percent Change	Square Miles	Density/Sq. Mile
Buchanan	24,098	21,576	-10%	503	43
Dickenson	15,903	14,516	-9%	331	44
Russell	28,897	27,057	-6%	474	57
Tazewell	45,078	41,973	-7%	519	81
<b>Total/Average</b>	<b>113,976</b>	<b>105,122</b>	<b>-8%</b>	<b>1,826</b>	<b>56</b>

## Buchanan County

Buchanan County is deep within the Coalfields of Virginia, adjacent to both Kentucky and West Virginia. The greatest communications network challenges in Buchanan County are the steep mountain terrain. However, a certain “can do” attitude exists which has fostered creative solutions to many problems.

This theme carried throughout the interviews conducted in the county. When solutions weren’t forthcoming from the service providers, local leaders took the initiative to raise funds and, in some cases, worked directly with the incumbent providers to extend services into communities where a business case could be made.

Educational institutions have created strong demand for broadband and wireless services, making communications a critical success factor for the region. A private law school and college of pharmacy have been operational in Buchanan County since 1994 and 2003,









*“Poor cellular coverage results in unsatisfying tourism experiences for our visitors” - Rita Surratt, Director, Dickenson County Chamber of Commerce*

## Russell County

Service providers in Russell County include Shentel, Verizon, and the Cumberland Plateau Company through a partnership with Sunset Digital. Russell County has capitalized on the “gig economy” by successfully recruiting call centers and software development centers to the region.

High-speed fiber lines were first placed in Lebanon nearly two decades ago which allowed the creation of data center and software development jobs.

However, connectivity beyond the Lebanon and the transportation corridors is still a problem for most of the county.



Affordability of broadband services was mentioned as a particular issue in Russell County.

When interviewees were asked about particular Russell County needs, **“all areas beyond Lebanon”** was the response.

Particular communities outlined regarding cellular wireless service needs included:

- Lebanon to Gate City - 71 - No service 75% of the time (1 hr. drive)
- Lebanon to Hansonville - Dropped calls/spotty coverage
- Lebanon to Abingdon - Dropped calls/spotty coverage
- Dante (near St. Paul) - Dropped calls/spotty coverage
- Cleveland - Dropped calls/spotty coverage
- Swords Creek -- Dropped calls/spotty coverage

The most pressing concern however was the inability to foster innovation and retain young people without dependable, affordable, quality broadband communications.

*From an economic development perspective, “you can’t ‘get in the game’ or even ‘sit on the bench’ without broadband infrastructure.” – Rachel Patton, WIA One Assistant Director*



## Tazewell County

Service providers in Tazewell County include Verizon, Spectrum, Burkes Garden, Comcast and Sunset. Tazewell County communities identified as high-priority for broadband expansion:

- Gratton Valley
- Tannersville and Clear Fork
- Thompson Valley
- Baptist Valley
- Abbs Valley
- Jewell Ridge
- Bluestone Commerce Park



The poor condition of Verizon legacy infrastructure is of great concern. Even landline service, the most basic of all telecom services, is unreliable.

In terms of cellular service, the main transportation corridor running through the county was the only reliable area for wireless communication.

*“The most important piece of technology in the classroom is the teacher.” – Drennon Laney, Server and Systems Administrator, Tazewell County Public Schools.*

## Mount Rogers

The following table shows the population change and density per square mile for PDC 3 – Mount Rogers (Bland, Bristol, Carroll, Galax, Grayson, Smyth, Washington, and Wythe).

PDC 3	2010 Census	2018 Estimate	Percent Change	Square Miles	Density per Sq. Mile
Bland	6,824	6,432	-6%	358	18
Bristol City	17,835	16,877	-5%	13	1,297
Carroll	30,042	29,141	-3%	475	61
Galax City	7,042	6,587	-6%	8	799
Grayson	15,533	15,330	-1%	442	35
Smyth	32,208	30,475	-5%	451	68
Washington	54,876	53,992	-2%	561	96
Wythe	29,235	28,650	-2%	462	62
<b>Total/Average</b>	<b>193,595</b>	<b>187,484</b>	<b>-3%</b>	<b>2,770</b>	<b>305</b>



## Bland County

Bland County, the least populated county studied, was recently awarded a \$459,764 grant from the Appalachian Regional Commission for a 33-mile fiber build to businesses and institutions in the county. The fiber run will start in Rocky Gap, then south through Bastian, then to Bland. The fiber will run along the Route 52 corridor. Once the fiber construction is finished, an ISP partner will use wireless technology to reach additional locations off Route 52. The project will make Internet access available to 37 businesses, as well as Bland County Schools, the Board of Education offices and the Bland County Medical Clinic, a federally qualified health center.



The existing providers in Bland County primarily use fixed wireless and existing DSL network plant to provide service and include:

- Sunset - Middle-mile fiber along Rt. 42 to Bland Correctional Facility
- CenturyLink – Some 10 MBPS service over copper but mostly 3 MBPS
- Verizon
- Gigabeam – Serving approximately 200 residents using towers throughout the county. They provide 50 MBPS service for \$79/mo. and 25 MBPS for \$30/mo.

Bland currently has a public-private partnership with Gigabeam Networks for up to 2 gig wireless.

Currently, the residential needs are not being met. The following areas were identified as having the greatest needs:

- Ceres (agriculture, tourism, 42/52 split)
- Grapefield
- Dry fork, Clear Fork, and Little Creek
- Hollybrook

## Carroll County

Carroll County has a population of approximately 29,724. Parts of the county are adequately served (the north side of Hillsville, for example), but other areas (specifically the south side of Hillsville) can only get about 1.5 MBPS, or “barely enough to e-mail.” In terms of cellular coverage, U.S Cellular has “good coverage” along main transportation corridors.





Resident complaints stem from CenturyLink and the lack of responsiveness to customers. The county has good broadband in the industrial parks, but workforce is the big issue for economic development.

CenturyLink is using its incumbent network (DSL) to serve customers

and used CAF funding to make it look as if customers had access to broadband when, in fact, they didn't.

Areas of greatest need include:

- Pipers Gap
- Laurel Fork
- Dugspur Region
- South of Woodlawn/Northeast of Lambsburg (FastLink has about 300 customers north of Lambsburg)

### Grayson County

Grayson County has been very proactive in pursuing solutions to its communities' broadband needs. In fall 2018, Grayson County issued an RFP for Broadband Services.

While a high level of detail on Grayson County's specific needs can be found in the RFP, a high level assessment is that most of the county is underserved or unserved.

- 77%, or 5,222 households have documented need for improved broadband
- Broadband is the number one need in the community. After Broadband, "Roads" are the number two need.
- Real estate sales and values are impacted by the degree to which broadband is available in a community.
- There is a potential growth opportunity for farmers to implement enabling technologies to better manage farm operations, but these technologies often require a broadband infrastructure
- Population retention & recruitment is a top priority for the Grayson County government. Broadband is considered #1 opportunity to solve this problem.





- As a former health care administrator, the County Administrator sees the value of connectivity to the entire population to improve health outcomes, especially in an area such as Grayson with a “graying population.”
- A lack of high speed communications is also contributing to the loss of young people after graduation.
- Areas of greatest need in the county (from current RFP):
  - Wilson & Elk Creek Districts; Mouth of Wilson, Rugby, East of Troutdale, Comers Rock
  - Providence, Elk Creek and Old Town; Elk Creek, Independence, Baywood
  - Wilson & Elk Creek Districts; East Mouth of Wilson, Buck Mountain, Big Ridge, Bridle Creek
  - Wilson District; West Mouth of Wilson, Whitetop
  - Providence, Old Town Districts; Fries, Baywood (east)
- Existing providers include:
  - CenturyLink
  - HughesNet and Exceed (WildBlue)
  - Comcast
  - Lingo (via Wired Road)
  - Citizens Telephone
- There are 13 total towers in the County but providers lack the incentive to upgrade.

*“High speed communication is a driver and enabler for the community. After Broadband, ‘Roads’ are the number two need.” – Bill Shepley, Grayson County Administrator*

### Smyth County

Smyth County has some fiber assets in the area through Sunset but, like many other counties in the planning districts covered in this report, needs a last mile solution. The business community’s needs are not being met and are at risk of leaving.

Providers serving Smyth County include CenturyLink, Comcast, and Sunset. There are no competitive local exchange carriers in the area. Cell phone service is “totally unreliable” in certain areas (northern and southern bands of the county), but providers won’t locate off the towers in the area. The majority of the complaints are about CenturyLink’s service.



The communities within Smyth County with the greatest need are:



- Sugar Grove
- Rich Valley.

### Washington County



In Washington County, business needs are being met only along I-81 corridor and within the Town of Abingdon and the City of Bristol. Beyond a three-mile radius from that corridor, businesses are either underserved or unserved. Residential needs are even greater. Mendota, Glade Spring and Damascus are all in need of service. Complaints from residents are frequent.

Service providers include Sunset, Charter, CenturyLink, and Comcast. Cellular wireless providers include VZW, T-Mobile and AT&T.

The specific communities within the county with the greatest needs include:

- Mendota
- Glade Spring
- Damascus

### Wythe County



In general, the industrial parks have good service. Businesses located along the transportation corridors are considered adequately served due to the amount of fiber available. However, residential coverage is spotty. The county has been suffering from economic stagnation in recent years. Historically, Wythe had been slowly growing while counties to the west were losing population. Only recently has the trend changed in Wythe as well. The current population is just over 29k.

The level of coverage in Wythe County varies depending on the part of the county. The denser areas (the eastern end of the county including Max Meadows and Austinville) have more coverage than less dense areas.

The current providers include CenturyLink and Shentel (which bought Rural Retreat Cable). Shentel offers “higher” speeds in Rural Retreat (up to 10 Mbps). The Chairman



of the BoS lives on Chapman road (the road running parallel to I-81/77 corridor (south side of Interstate) and is very dissatisfied with options and speeds available.

The Fort Chiswell/Lead Mines area is the one of greatest need. Also, the eastern end of the county is the largest growth area.

### **City of Galax**

Galax is more dense than other areas with the planning district. Also, it is part of Wired Road and is a Regional Broadband Authority, so the businesses and residents' needs are being met for the most part.

- Big businesses include Albany Industries, Moag Industrial, Vaughn Bassett furniture company, etc. CrossRoads Facility is a business incubator, and XM Radio call center has about 150 employees.
- There are about 7,000 people over 8 square miles, so a bit denser than other areas in the planning district.
- Wired Road forced providers to upgrade and expand their networks
- Perceived positive impact on real estate (byers won't consider moving to homes without broadband)
- Important for small businesses' online sales
- Schools are seeing higher enrollments and were using Lingo, which is one of the Wired Road providers. They are now using CenturyLink.
- Galax is upgrading some cell towers to ensure reliability
- Fiber runs east up to Airport Road

The main regional service providers in Galax include:

- Comcast – up to 130 meg residential in some areas; has a retail store in downtown Galax.
- CenturyLink – up to 25 meg
- Wired Road RBA



## 7.2 Sources of Funding Appendix

### National Funding

In December 2018, US Department of Agriculture (through RUS) announced a \$600 million grant and loan Broadband Program, ReConnect, to assist with building rural broadband infrastructure. Telecommunications companies, rural electric cooperatives and utilities, Internet service providers, and municipalities may apply for funding. To be eligible, communities must have populations smaller than 20,000 people with no broadband service or where service is slower than 10/1. Loan applications are due April and May 2019, depending on the program applied for.

### State Level Awards Granted

The state of Virginia, through Governor Northam, is heavily invested in the vision of equitable broadband coverage throughout the state. The Governor's vision is statewide broadband coverage within 10 years. The two agencies that have deployed the most capital to support broadband connectivity are the Virginia Tobacco Region Revitalization Commission (Tobacco Commission) and the Virginia Department of Housing and Community Development (DHCD). Part of receiving funding is a requirement that communities/localities have a "granular plan" for ensuring coverage.

#### Virginia Coalfield Economic Development Authority (VCEDA)

VCEDA has been involved with regional broadband expansion efforts for many years. They have been a provider of capital for the LENOWISCO Fiber-to-the-Home initiative, the Cumberland Plateau Company network expansion, and the Virginia Coalfield Coalition 4g Wireless project.

VCEDA indicated that "the more broadband deployed in the region, the more economic development is enhanced."

VCEDA identified the following communities as high potential candidates for broadband deployment:

- Haysi
- Nickelsville
- US 460 (between Richlands and Vansant)
- Hurley
- Whitewood
- Clinchco.

### Regional Awards Granted

#### Appalachian Regional Commission (ARC)



The Appalachian Regional Commission, or ARC, believes that “access to advanced telecommunications infrastructure for all Appalachian communities is essential for the Region to reach economic parity with the nation.”

ARC partners with public entities, non-profits, and the private-sector to spread access to telecommunications infrastructure and applications throughout the Region.

Specifically, ARC’s POWER program is a congressionally funded initiative that targets federal resources to help communities and regions that have been affected by job losses in coal mining, coal power plant operations, and coal-related supply chain industries due to the changing economics of America’s energy production. Virginia will receive 5 grants totaling more than \$2.8 million as part of this program.

One of the grants will go to Bland County (in the amount of \$459,764) for a 33-mile fiber build to businesses in the county. The fiber run will start in Rocky Gap, then south through Bastian, then to Bland. The fiber will run along the Route 52 corridor. Once the fiber construction is finished, an ISP partner will use wireless technology to reach additional locations off Route 52. The project will make Internet access available to 37 businesses, as well as Bland County Schools, the Board of Education offices and the Bland County Medical Clinic, a federally qualified health center.

**Pending Applications at the Tobacco Commission**

- Fiscal year 2019 pending last mile broadband applications to the Tobacco Commission for Southwest Virginia are outlined in the following table:

FY 2019 Last Mile Broadband - Pending Applications for SWVA

<b>Req #</b>	<b>Organization</b>	<b>Project Title</b>	<b>Request Amount</b>
3535	Carroll County Industrial Development Authority	The Wired Road/Carroll County Last Mile Neighborhood Pole Project	\$200,000
3531	Cumberland Plateau Company	Cleveland Broadband Expansion Project	\$544,137
3530	Grayson County	Connect Grayson	\$325,000
3522	Industrial Development Authority of Dickenson County	Honey Camp Last Mile Broadband	\$65,000
3519	Scott County Telephone Cooperative	Weber City Broadband Fiber-to-the-Home Initiative	\$1,500,000
3525	Tazewell County Industrial Development Authority	Tazewell County Wireless Service Authority Broadband Expansion Phase III	\$150,000
3527	Industrial Development Authority of Russell County VA	North Central Russell / South Buchanan Counties Broadband Expansion Project	\$1,900,000
<b>Total Potential Funding for SWVA</b>			<b>\$4,684,137</b>



## Funding Strategy

Identify the highest potential providers of capital, including government and private sources, to fund the highest priority communities. Start at the regional level, then state, then national.

- Virginia Rural Broadband Planning Initiative (VRBPI)
- Connect America Fund
- Rural Utility Services
- Community Development Block Grants (CDBG)

## Potential Funding Sources

The following table outlines a more comprehensive list of potential funding sources that have been identified by the Tobacco Commission.

Source	Opportunity	Brief Description	Application Timeline
<b>State Funding Opportunities</b>			
<b>Department of Housing and Community Development (DHCD)</b>	Community Development Block Grant Planning Grant <a href="http://www.dhcd.virginia.gov/index.php/community-partnerships-dhcd/79-community-development-block-grant-cdbg-planning-grant.html">http://www.dhcd.virginia.gov/index.php/community-partnerships-dhcd/79-community-development-block-grant-cdbg-planning-grant.html</a>	Funds available for 3 areas: planning grants, local innovation grants, implementation and economic development, and large scale local level projects.	January – September
<b>Department of Housing and Community Development (DHCD)</b>	Virginia Telecommunication Initiative <a href="http://www.dhcd.virginia.gov/">http://www.dhcd.virginia.gov/</a>	Provides financial assistance to supplement construction costs by private sector providers to extend services to areas that are presently unserved by any broadband provider. Definition of unserved; speeds <= 10 Mbps/1 Mbps. Eligible applicants: towns, cities, counties, EDA/IDA, broadband/wireless authorities, PDC, etc.	Fall



<b>Virginia Tobacco Region Revitalization Commission</b>	TRRC Last-mile Grant and Loan Fund  <a href="https://www.revitalizeva.org/grant-loan-program/grant-programs/research-development-grant-program/">https://www.revitalizeva.org/grant-loan-program/grant-programs/research-development-grant-program/</a>	Provides grants and loans to public/private partnerships between localities and ISPs to construct projects within its service area.	Announced annually
<b>Virginia Resources Authority (VRA)</b>	Virginia Pooled Financing Program <a href="http://www.virginiaresources.org/page/virginia-pooled-financing-program/">http://www.virginiaresources.org/page/virginia-pooled-financing-program/</a>	Provides financing to local governments for essential projects. All VRA's authorized project areas are eligible for financing in the Virginia Pooled Financing Program (VPFP). Since inception in 2003, over 100 local governments in Virginia have utilized this program to finance or refinance over \$2 billion in infrastructure projects.	Multiple windows annually

### Federal Funding Opportunities

<b>United States Department of Agriculture Rural Development (USDA)</b>	Community Connect Grant program  <a href="https://www.rd.usda.gov/programs-services/community-connect-grants">https://www.rd.usda.gov/programs-services/community-connect-grants</a>	This program helps fund broadband deployment into rural communities where it is not yet economically viable for private sector providers to deliver service.	Announced periodically
<b>United States Department of Agriculture Rural Development (USDA)</b>	Rural Broadband Access Loan and Loan Guarantee <a href="https://www.rd.usda.gov/programs-services/rural-broadband-access-loan-and-loan-guarantee">https://www.rd.usda.gov/programs-services/rural-broadband-access-loan-and-loan-guarantee</a>	This program offers financial assistance to eligible applicants that will construct, improve, or acquire facilities and equipment needed to provide service at the broadband lending speed as defined in the most recent funding announcement in eligible rural areas.	Announced periodically
<b>United States Department of Agriculture Rural Development (USDA)</b>	Telecommunications Infrastructure Loans & Loan Guarantees  <a href="https://www.rd.usda.gov/programs-services/telecommunications-">https://www.rd.usda.gov/programs-services/telecommunications-</a>	This program provides financing for the construction, maintenance, improvement and expansion of telephone service and broadband in rural areas.	Applications are accepted on a continuing basis



	<a href="#">infrastructure-loans-loan-guarantees</a>		
<b>United States Department of Agriculture Rural Development (USDA)</b>	Distance Learning and Telemedicine Program  <a href="https://www.rd.usda.gov/programs-services/distance-learning-telemedicine-grants">https://www.rd.usda.gov/programs-services/distance-learning-telemedicine-grants</a>	This program helps rural communities use telecommunications to connect to each other and to the world for the purposes of distance learning and telemedicine.	Announced periodically
<b>United States Department of Agriculture Rural Development (USDA)</b>	Community Facilities Direct Loan & Grant Program  <a href="https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program">https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program</a>	This program provides affordable funding to develop essential community facilities in rural areas.	Applications are accepted on a continuing basis
<b>Federal Communications Commission (FCC)</b>	Connect America Fund <a href="https://www.fcc.gov/general/connect-america-fund-caf">https://www.fcc.gov/general/connect-america-fund-caf</a> CAF I, \$1.5B over 10 years to 103 companies. CAF II \$1.98 B over 10 years. Bidding ended 8/2018. Awards pending.	Provider funding for FCC eligible areas only. Eligible areas map: <a href="https://www.fcc.gov/reports-research/maps/connect-america-phase-ii-initial-eligible-areas-map/">https://www.fcc.gov/reports-research/maps/connect-america-phase-ii-initial-eligible-areas-map/</a>	No longer active for new bidders.
<b>Federal Communications Commission (FCC)</b>	FCC Mobility Fund Phase II <a href="https://www.fcc.gov/mobility-fund-phase-2">https://www.fcc.gov/mobility-fund-phase-2</a>	The FCC plans to make up to \$4.53 billion in funding available to mobile operators that are building out 4G LTE networks to underserved rural markets. The funding will be made available over a 10-year period. Operators that receive the support from the auction will build out 4G LTE mobile service that will deliver at least 10 Mbps to customers in markets that lack access to unsubsidized 4G LTE.	Not yet active
<b>Federal Communications Commission (FCC)</b>	E-Rate Funding <a href="http://www.fcc.gov/encyclopedia/e-rate-schools-libraries-usf-program">http://www.fcc.gov/encyclopedia/e-rate-schools-libraries-usf-program</a>	The schools and libraries universal service support program, commonly known as the E-Rate program, helps schools and libraries to obtain affordable broadband.	Winter-Spring
<b>Universal Service Administration Co. (USAC)</b>	Lifeline Support <a href="https://www.usac.org/li/">https://www.usac.org/li/</a>	Lifeline is a federal program that lowers the monthly cost of phone and Internet for eligible customers. Participating companies in Virginia: <a href="http://www.lifelinesupp">http://www.lifelinesupp</a>	Applications are accepted on a continuing basis



		<a href="http://www.usac.org/rhc/healthcare-connect/default.aspx">ort.org/ls/companies/CompanyListing.aspx?state=VA&amp;stateName=Virginia</a>	
<b>Universal Service Administration Co. (USAC)</b>	Rural Health Care – Healthcare Connect Fund  <a href="https://www.usac.org/rhc/healthcare-connect/default.aspx">https://www.usac.org/rhc/healthcare-connect/default.aspx</a>	This program provides a 65 percent discount on eligible expenses related to broadband connectivity to both individual rural health care providers (HCPs) and consortia, which can include non-rural HCPs, if the consortium has a majority of rural sites.	Winter - Summer
<b>Universal Service Administration Co. (USAC)</b>	Rural Health Care – Telecommunications Program <a href="https://www.usac.org/rhc/telecommunications/default.aspx">https://www.usac.org/rhc/telecommunications/default.aspx</a>	This program provides reduced rates to rural health care providers (HCPs) for telecommunications services related to the use of telemedicine and telehealth.	Winter - Summer
<b>US Economic Development Administration (EDA)</b>	Planning Program and Local Technical Assistance Program  <a href="https://www.grants.gov/web/grants/view-opportunity.html?opId=301936">https://www.grants.gov/web/grants/view-opportunity.html?opId=301936</a>	This program assists eligible recipients in developing economic development plans and studies designed to build capacity and guide the economic prosperity and resiliency of an area or region.	Applications are accepted on a continuing basis
<b>US Economic Development Administration (EDA)</b>	Public Works and Economic Adjustment Assistance Programs <a href="https://www.grants.gov/web/grants/view-opportunity.html?opId=294771">https://www.grants.gov/web/grants/view-opportunity.html?opId=294771</a>	Grants made under this program will leverage regional assets to support the implementation of regional economic development strategies designed to create jobs, leverage private capital, encourage economic development, and strengthen America's ability to compete in the global marketplace.	Applications are accepted on a continuing basis
<b>Department of Education (DOE)</b>	Promise Neighborhoods Competition <a href="http://www2.ed.gov/programs/promiseneighborhoods/index.html">http://www2.ed.gov/programs/promiseneighborhoods/index.html</a>	This program provides funding to support eligible entities to significantly improve the educational and developmental outcomes of children and youth in our most distressed communities.	Spring
<b>Appalachian Regional Commission (ARC)</b>	ARC Project Grants <a href="https://www.arc.gov/funding/arprojectgrants.asp">https://www.arc.gov/funding/arprojectgrants.asp</a>	ARC funds a number of telecommunications activities, including strategic community planning, equipment	Announced annually



		acquisition, and hardware and software for network building. ARC funds can be used for strategic telecommunications planning activities, telecommunication service inventory and assessment activities, aggregation of demand projects, among other activities.	
<b>Federal Reserve</b>	Community Reinvestment Act (CRA) <a href="https://www.dallasfed.org/cd/pubs/digitaldivide.aspx">https://www.dallasfed.org/cd/pubs/digitaldivide.aspx</a>	The Federal Reserve has issued guidance on how to leverage a bank's CRA resources in digital equity initiatives.	Ongoing
<b>Tribal Funding Opportunities</b>			
<b>U.S. Department of Housing and Urban Development (HUD)</b>	Indian Community Development Block Grant <a href="http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/icdbg">http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/icdbg</a>	Provides funds to eligible grantees for housing rehabilitation, land acquisition, community facilities, infrastructure construction, and economic development activities. Eligible applicants for assistance include any Indian tribe, band, group, or nation.	Winter
<b>U.S. Department of Housing and Urban Development (HUD)</b>	Indian Housing Block Grant (IHBG) program <a href="http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/ihbg">http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/ihbg</a>	The provision of broadband is eligible under this program. Eligible IHBG recipients are Federally recognized Indian tribes or their tribally designated housing entity (TDHE), and a limited number of state recognized tribes who were funded under the Indian Housing Program authorized by the United States Housing Act of 1937 (USHA).	Winter
<b>Institute of Museum and Library Services</b>	Native American Library Services <a href="https://www.ims.gov/nofo/native-american-library-services-basic-grants-fy16-notice-funding-opportunity">https://www.ims.gov/nofo/native-american-library-services-basic-grants-fy16-notice-funding-opportunity</a>	Basic Grants are available to support existing library operations and to maintain core library services. Indian tribes, Alaska native villages, regional corporations, and village corporations are eligible to apply for funding under the Native American Library Services grant program.	Spring



### 7.3 Addressable Market Appendix

#### Market Overview

The telecommunications market in Southwest Virginia is estimated at \$289 Million annually for voice, video, data, and wireless services. This estimate is based on the following key factors:

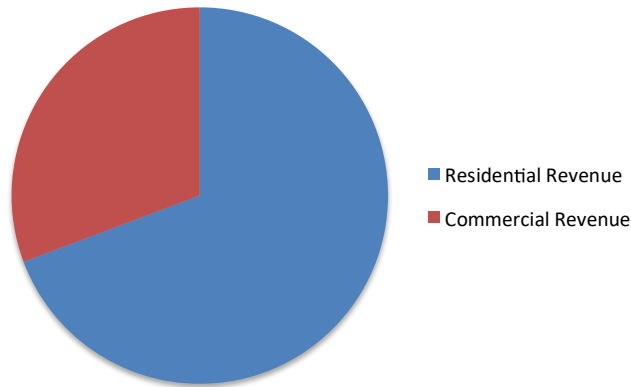
Key Economic Index Factors	SWVA Region
Residential	
Population (2018)	401,745
Households (BRASG 2018 Estimate)	84,270
Median Household Income (BRASG 2018 Estimate)	\$38,945
Economic Index (Income Relative to US)	68%
Economic Index (Income Relative to VA)	56%
Commercial	
Businesses (BRASG Estimate)	7,430
Employment (BRASG Estimate)	49,423

On average, approximately 4% of household income is spent on all communication services.

The overall market is roughly split between 31% commercial and 69% residential services.

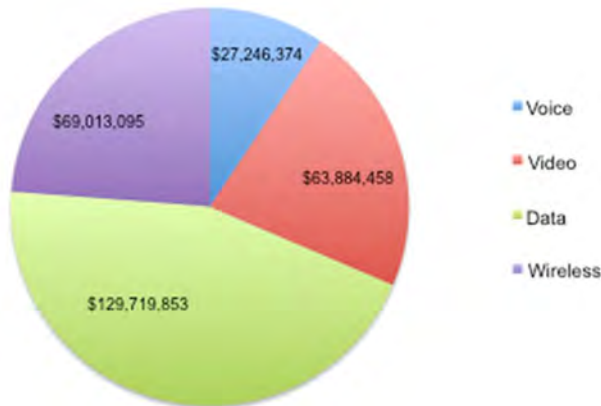


### Total Revenue – Residential vs. Commercial



By service, the revenue distribution is outlined in the following table, with broadband services driving most of the growth:

### Total Annual Telecom Revenue at Year 1



The important market dynamics that will influence this addressable market are threefold:

- Cable TV Cord Cutting.** As wireless service becomes more reliable and ubiquitous, and as broadband becomes more available, there will be a continued defection not only from landline voice to wireless but also from cable tv to digital, a-la-carte streaming services. Cisco predicts that nearly four-fifths (79 percent) of the world’s mobile data traffic will be video by 2022.
- Mobile Data Demand.** The explosion in mobile data demand only continues. It grew 23% in 2017 in North America. The increasing number of wireless devices and connections will continue to drive the surge in demand for wireless data.



3. **5G Technology.** The evolution of 5<sup>th</sup> Generation, or 5G, networks, holds the promise to deliver faster speeds. However, it is likely that rural areas such as Southwest Virginia may be last in line to see the carriers upgrade, as they will target the larger markets initially. A strong fiber backbone will still be needed to service the 5G network. 4G will carry most of the traffic for the next 10 years or so.

These trends will drive demand for expanded fiber and wireless-dependent services in the region, presenting an opportunity for service providers. However, the issue remains. The associated costs of upgrading networks to meet that demand is still extremely high due to the low population densities and challenging geography of the region. Regional leaders must find ways to partner with providers to bridge the gap so that their communities are not left behind.



## **7.4 Service Provider Appendix**

Following is a brief description of the regional service providers and their capabilities:

### **Burkes Garden Telephone Company**

Burkes Garden Telephone Company (BGTCO) is a small, investor-owned telephone company offering “triple-play” services via a fiber-optic system of approximately 72 fiber miles. The service area is tucked in the eastern edge of Tazewell County, adjacent to Bland County, Virginia. BGTCO migrated from copper to fiber over approximately two years.

The service area covers approximately 75 Sq. Miles from the top of Rich Mountain through Little Creek through Burkes Garden. The service area sits within a crater-like bowl with a mountain ridge totally surrounding the region. The customer count includes 160 full-time with as many as 185 during the summer season. Approximately 100 customers receive broadband, which equates to a take rate of 62%.

GPON and active Ethernet are utilized to serve these customers providing 15/10 Mbps service priced at \$32.95/mo. There are no business customers on the system and approximately 13 or 14 customers are considered to be Amish and as such only utilize the telephone service.

### **Charter Communications**

Charter / Spectrum is the second largest cable provider in the United States (third largest multi-channel video service provider when AT&T / DirecTV are considered) but has limited network operations in Southwest Virginia. Spectrum’s local network is primarily in Buchanan and Tazewell counties, with some network in Russell County. Charter has an operational office in Richlands, with a head-end site in Cedar Bluff. Spectrum’s network covers the Town of Tazewell, a good portion of Tazewell County, Grundy, and Richlands. Charter utilizes a hybrid-fiber-coaxial cable network architecture. 100 MBPS asynchronous service is Charter’s standard/basic service at \$44.99 per month. This price is dependent upon various bundling schemes.

### **Citizens Telephone Cooperative**

Citizens is a regional ILEC with full-service communications offerings, including land-line telephone, VoIP, IPTV Video, web and e-mail hosting, DSL, and FTTP (Fiber to the Premise, and Business Ethernet. Citizen’s serves portions of 7 counties in Southwest Virginia. Based in Floyd, Virginia, Citizens network is still 90% copper based, but they are rolling out gigabit FTTP.

There is some overlap of their services and a few counties within PDC’s 1, 2, &3, including Carroll County, Grayson County, and Wythe County. Citizens’ network stops at the Smyth County line. Their fiber runs from 58 to 16 (BVU/Sunset) and 221 to Sparta. They just completed a build on 221 (North) to Roanoke Co., passing over 1,000 homes with FTTH.



## **Century Link**

CenturyLink is the incumbent local exchange carrier in many parts of the study region. CenturyLink still has their legacy network in place and have not invested in upgrading their network. As a result, customer satisfaction rates due to speed and reliability, were low across the board. The biggest complaint related to customer service and the perception of a total “lack of response.”

## **Comcast**

Comcast is the largest cable provider in the United States (second largest multi-channel video service provider when AT&T / DirecTV are considered). Comcast operates a hybrid-fiber-coaxial system throughout the study area. Comcast is doing little in terms of upgrades, with some limited upgrades in PDC 1. In PDC 2, one respondent placed Comcast quality of service at the middle of the pack of the 5 service providers available in that area. Another respondent in the northwestern portion of PDC 2 listed Comcast as “adequate” with 4 stars. Still another official in the southwestern portion of region 3 gave Comcast high marks for quality of service.

## **CPC Broadband**

CPC Broadband (formerly CPC OptiNet) is a subsidiary company of the Cumberland Plateau PDC. It was organized to serve Russell, Dickenson, Tazewell, and Buchanan Counties. Partnering with Bristol Virginia Utility's OptiNet division (now Point Broadband) the Company has obtained over \$37 million in grant funding for the construction of 700 miles of fiber optic broadband backbone that is now serving almost 900 industrial, commercial, governmental and educational institutions in the region.

## **iGo Technologies**

iGo, founded in 1994, is a Virginia-based Internet service company, providing wireless and fiber high speed Internet service to its customers who include residential and commercial clients, individuals and small to mid-size and large business. In 2017, iGo also began offering telephone service to its Internet customers.

iGo coverage areas include parts of Buchanan, Russell, Tazewell, Washington and Wise counties, with additional operations in Tennessee and West Virginia. iGo utilizes one VCC tower to reach unserved residents of the region.

iGo is mainly a fixed wireless provider with 6-8 towers, 520 customers, and 12 employees. Although existing customers are mostly wireless, iGo has successfully competed for USDA Community Connect grants for FTTH build outs. They are underway with a \$1.78M project awarded in 2016 which will include 21 miles of fiber in the Buchanan County area north of Oakwood.

In 2017, they were awarded an additional \$3.0M project for a buildup Garden Creek Rd toward Honaker. iGo was just awarded \$455,581 to extend the build into Russell County and add interconnection with SCTC along Virginia Route 624.



The current build includes 468 customers passed. iGo is an essential element of solving the problem of unserved residents in the region.

### **Gigabeam Networks**

Gigabeam Networks, a wireless Internet service provider, or WISP, provides service in Southwest Virginia, West Virginia and southeastern Kentucky. Their network is completely wireless, including the backhaul. Gigabeam is a small entrepreneurial venture owned by Michael Clemens. They have approximately 200 subscribers in Bland and utilize towers throughout the county. Their service packages include \$79/mo. for 50 meg and \$30 for 25 meg.

### **HillCom**

HillCom, Inc is a family-owned wireless Internet service provider located in Dickenson County. The company started in 2016 out of necessity when a local resident was unable to access adequate Internet service but was able to create his own wireless broadband network solution. By 2017, HillCom had responded to neighbors requesting the service and grew to 20 customers. They then purchased DCWin (Dickenson County Wireless) and now have approximately 600 customers (95% in Dickenson County), with a mission to provide service to the entire county.

Most of the service requests HillCom receives are from the following areas within the county:

- Lick Creek
- Honey Camp
- Breaks

### **Point Broadband**

Formerly BVU OptiNet, Point Broadband was organized in 2018 as the combination of Duffield-based Sunset Digital and Bristol-based BVU OptiNet. The organization is part of a family of telecommunications enterprises headquartered in West Point, Georgia called ITC Holding Company, LLC. ITC began as The West Point Telephone and Electric Company, founded in 1896. Point Broadband is in the process of an organization period, and their exact strategy is unknown. As with many other providers in the region, Point Broadband is attempting to determine how to affordably build out and maintain their network. Point Broadband is the recipient of a multi-million-dollar CAF II award for the study region including Lee County, and the Cumberland Plateau counties of Dickenson, Russell, and Tazewell.

### **Scott County Telephone Cooperative**

Scott County Telephone Cooperative (SCTC), a local provider headquartered in Gate City, is a key player in the region. It serves 420 square miles of Scott County with some service in Tennessee. Their current service territory includes parts of Russell, Wise, Dickenson, and Lee Counties, and the City of Norton. They provide voice, video, and data Voice,



video, data, and security, primarily over a traditional copper/ILEC network but have been upgrading to eventually deploy and utilize an all fiber network to provide enhanced broadband services.

Using primarily grant funding, SCTC has upgraded about 100 miles of its network to fiber, with builds to 5 exchanges in the following areas:

- Ft. Blackmore
- Duffield
- Nickelsville
- Dungannon
- Clinchport

SCTC has approximately 7,000 access lines (about 5,000 in ILEC area and 2,000 in CLEC area). Additionally, they have about 7,000 high speed Internet customers.

### **Shentel**

Shentel, or Shenandoah Telecommunications Company, is a publicly traded telecommunications company headquartered in Edinburg, Virginia. Shentel has digital wireless and wireline network in rural Virginia, West Virginia, Maryland and Pennsylvania. Shentel is also an affiliate of Sprint with wireless coverage in Pennsylvania, Maryland, Virginia, West Virginia, Kentucky and Ohio. It owns its own cell site towers built on leased land and leases space on these towers to both affiliates and non-affiliated service providers. Shentel has invested over \$200 million in the past two years upgrading and expanding its wireless networks, primarily in rural markets. Shentel also provides fiber services to commercial and wholesale customers along its 5,641-mile fiber network across four states.

Shentel's cable segment provides video, Internet and voice services in franchise areas in Virginia, West Virginia, and portions of western Maryland and leases fiber optic facilities throughout its service area. It does not include video, Internet and voice services provided to customers in Shenandoah County, Virginia.

Shentel's wireline segment provides regulated and unregulated voice services, DSL Internet access and long-distance access services throughout Shenandoah County and portions of Rockingham, Frederick, Warren and Augusta Counties, Virginia. The segment also provides video services in portions of Shenandoah County and leases fiber optic facilities throughout the northern Shenandoah Valley of Virginia, northern Virginia and adjacent areas along the Interstate 81 corridor, including portions of West Virginia and Maryland.

Shentel has over 5,400 fiber route miles with fiber to over 325 cell sites, but with network in only Carroll and Russell counties. It has cable plant in Lebanon, Honaker, Swords Creek, Rye, Dante, Wytheville, and Rural Retreat.

Shentel does not actively pursue grant funding, as they have not been very successful in the past doing so.



## **Wired Road**

The Wired Road Authority is a collaborative effort between private sector service providers, the local governments of Grayson County, Carroll County, and the City of Galax, and the Carroll-Grayson-Galax Regional Industrial Facilities Authority (dba Blue Ridge Crossroads Economic Development Authority). Its purpose is to provide the critical enabling infrastructure to transform the regional economy into a dynamic, small business, and entrepreneurial economy. This transformation, enabled by The Wired Road and a complementary economic development focus on attracting and supporting entrepreneurs and small businesses, will allow the region's economy to spawn new businesses, generate jobs, create wealth, and protect the rural character of our region.

The Wired Road network has been in operation for over ten years and is a true public/private partnership with two service providers offering last mile services on the network. The Wired Road is an open access, fully integrated fiber and wireless regional broadband network offering "big broadband" 100 megabit and Gigabit fiber connections and multi-megabit wireless connections in Carroll County, Grayson County, and Galax.

Currently, the Wired Road is finishing a network extension which will connect fiber in Galax with fiber in Hillsville. It is also expanding its wireless coverage and constructing "community poles" to get service to areas that couldn't be reached before. Fiber Wireless Providers

The bill will allow Dominion Energy and Appalachian Power to provide or make available broadband capacity to service providers in unserved areas. It also authorizes the utility to own or lease broadband capacity equipment.

With existing infrastructure that already serves almost every resident and business in rural areas, utilities are uniquely positioned to bridge the gap between middle mile networks and last mile consumers.



## References

Source data for population: Published on January 28, 2019 by the Weldon Cooper Center for Public Service Demographics Research Group <https://demographics.coopercenter.org>

Source data for county land area: U.S. Census Bureau, Census of Population and Housing. Land area is based on current information in the TIGER® data base, calculated for use with Census 2010.

Source: WideOpen Networks, The Wired Road, "Broadband Recommendations," April 2017, Revised, October 2017, pp. 32-34.

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September 9, 2021

Tamarah Holmes  
Director, Office of Broadband  
Department of Housing and Community Development  
Main Street Centre  
600 East Main Street  
Suite 300  
Richmond, VA 23219

Dear Dr. Holmes,

I am writing to affirm Point Broadband's support and commitment to the 2021 CPC Universal Broadband Project. Point Broadband is proud to be a partner in the project application. The proposal includes VATI funding request of \$45,925,426 and is to be matched by Point Broadband's \$12,624,000 of private capital, and \$800,000 of CPC related funds.

Sincerely,

Robert Joseph Puckett  
Regional General Manager