

October 12, 2017

Mr. Roger Kirchen, Director
Review and Compliance Division
Virginia Department of Historic Resources
2801 Kensington Ave.
Richmond, VA 23221

**Subject: Section 106 Review – Initial Assessment of Effects for Architectural Resources
Atlantic Coast Pipeline, LLC, Atlantic Coast Pipeline Project
DHR File No. 2014-0710**

Dear Mr. Kirchen:

Atlantic Coast Pipeline, LLC (Atlantic) is requesting review and comment on the enclosed revised initial assessment of effects architectural survey report conducted for the proposed Atlantic Coast Pipeline (ACP). Revisions are based on the August 8, 2017 letter. The Federal Energy Regulatory Commission (FERC) is the lead Federal agency for this Project. Atlantic's consultant, ERM, conducted the survey and prepared the enclosed report pursuant to the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended.

Atlantic would appreciate your comments on the enclosed document, and we look forward to continuing to work with you on this Project. If you have any questions regarding the enclosed reports, please contact Richard B. Gangle at (804) 273-2814 or Richard.B.Gangle@dominionenergy.com, or by letter at:

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Respectfully submitted,



Robert M. Bisha
Technical Advisor, Atlantic Coast Pipeline

cc: Richard Gangle (Dominion Energy)

Enclosure: Initial Assessment of Effects for Architectural Resources



**INITIAL ASSESSMENT OF POTENTIAL EFFECTS FOR ARCHITECTURAL RESOURCES
ATLANTIC COAST PIPELINE PROJECT**

Resources Not Affected Due to Topography and Screening

Revised



Prepared by



October 2017

**INITIAL ASSESSMENT OF POTENTIAL EFFECTS FOR ARCHITECTURAL RESOURCES
ATLANTIC COAST PIPELINE PROJECT**

Resources Not Affected Due to Topography and Screening

DHR File No. 2014-0710

Revised

Prepared for

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October 2017

ABSTRACT

This report presents the results of the initial assessment of potential effects on identified resources during Phase I historic architectural surveys conducted in association with the Atlantic Coast Pipeline (ACP) project (Project). Dominion Energy Transmission, Inc. will build and operate approximately 600 miles of natural gas transmission pipeline and associated laterals on behalf of Atlantic Coast Pipeline, LLC (Atlantic), which is a company consisting of subsidiaries of Dominion Energy Inc., Duke Energy, Piedmont Natural Gas, and Southern Company Gas. The pipeline system extends from West Virginia to southern North Carolina, and the Project will also include access roads, meter stations, compressor stations, and other above-ground facilities. In Virginia, the pipeline right-of-way is 307.0 miles long, and passes through the counties of Highland, Bath, Augusta, Nelson, Buckingham, Cumberland, Prince Edward, Nottoway, Dinwiddie, Brunswick, and Southampton and the cities of Suffolk and Chesapeake. It includes the 234.5 mile-long trunk line (AP-1), and three laterals (AP-3, AP-4, and AP-5) that total 72.5 miles.

This report provides a summary of previously recorded and surveyed structures that are listed in the National Register of Historic Places (NRHP), considered potentially eligible for listing in the NRHP, and not evaluated properties within 0.5-miles of the Project for which it has been determined that the Project will have no effect due to intervening vegetation, topography, or modern infrastructure.

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INTRODUCTION

This report presents the results of the initial assessment of potential effects for architectural resources identified during Phase I historic architectural surveys conducted in association with the Atlantic Coast Pipeline (ACP) project (Project). Dominion Energy Transmission, Inc. (DETI) will build and operate approximately 600 miles of natural gas transmission pipeline and associated laterals on behalf of Atlantic Coast Pipeline, LLC (Atlantic), which is a company consisting of subsidiaries of Dominion Energy Inc., Duke Energy, Piedmont Natural Gas, and Southern Company Gas. The pipeline system extends from West Virginia to southern North Carolina (Figure 1), and the Project will also include access roads, meter stations, compressor stations, and other above-ground facilities. In Virginia, the pipeline right-of-way is 307.0 miles long, and passes through the counties of Highland, Bath, Augusta, Nelson, Buckingham, Cumberland, Prince Edward, Nottoway, Dinwiddie, Brunswick, and Southampton, and the cities of Suffolk and Chesapeake. It includes the 234.5 mile-long trunk line (AP-1), and three laterals (AP-3, AP-4, and AP-5) that total 72.5 miles.

The Federal Energy Regulatory Commission (FERC) is the lead federal agency, and work was conducted pursuant to the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108). Section 106 requires federal agencies to take into account the effects of their undertakings (including the issuance of Certificates) on properties listed in or eligible for listing in the National Register of Historic Places (NRHP). DETI., as a non-federal party, is assisting FERC in meeting its obligations under Section 106 by preparing the necessary information, analyses, and recommendations as authorized by 36 C.F.R. § 800.2(a)(3). ERM has conducted Phase I cultural resource investigations to gather information on historic properties that could be affected by the Project in support of the Section 106 consultation process.

An APE is defined as “the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties, if any such properties exist” (36 CFR Part 800.16[d]). In the case of the current Project, the APE includes possible areas of direct construction effects within a 300-foot corridor encompassing the centerline of the proposed pipeline, as well as within the footprint of the associated pipeline facilities, and it also includes areas of potential visual effects on identified historic structures from changes to the setting from construction of new facilities, clearing of vegetation, and/or other modifications to the landscape. Thus, the APE extends into areas surrounding the Project containing historic resources within line-of-sight of changes that will derive from the proposed undertaking.

Potential visual effects from the Project were deemed not to exceed a maximum distance of 0.5 miles of any proposed facility. Thus, within a half-mile buffer of the Project, line-of-sight was used to define the APE and identify historic resources for survey; those resources are discussed in the various reports prepared for this Project to date (Anderson and Staton 2015; Lesiuk et al. 2016; Staton 2016; Tucker-Laird et al. 2017a, 2017b, 2017c; Voisin George et al. 2016). The current report identifies those structures within 0.5 miles of the Project that were determined through field surveys and computer modeling (as documented in the supporting materials) to not be affected by the Project. ERM identified 229 previously recorded resources within 0.5 miles of the Project that are eligible, listed, or not evaluated for NRHP eligibility, and which will not be affected by the Project due to intervening topography, vegetation, or infrastructure. Of these, nine resources are listed, 21 resources are recommended eligible, and 199 resources are not evaluated; those not evaluated include 159 resources previously recommended potentially eligible for the NRHP and 40 for which no recommendation was previously offered.

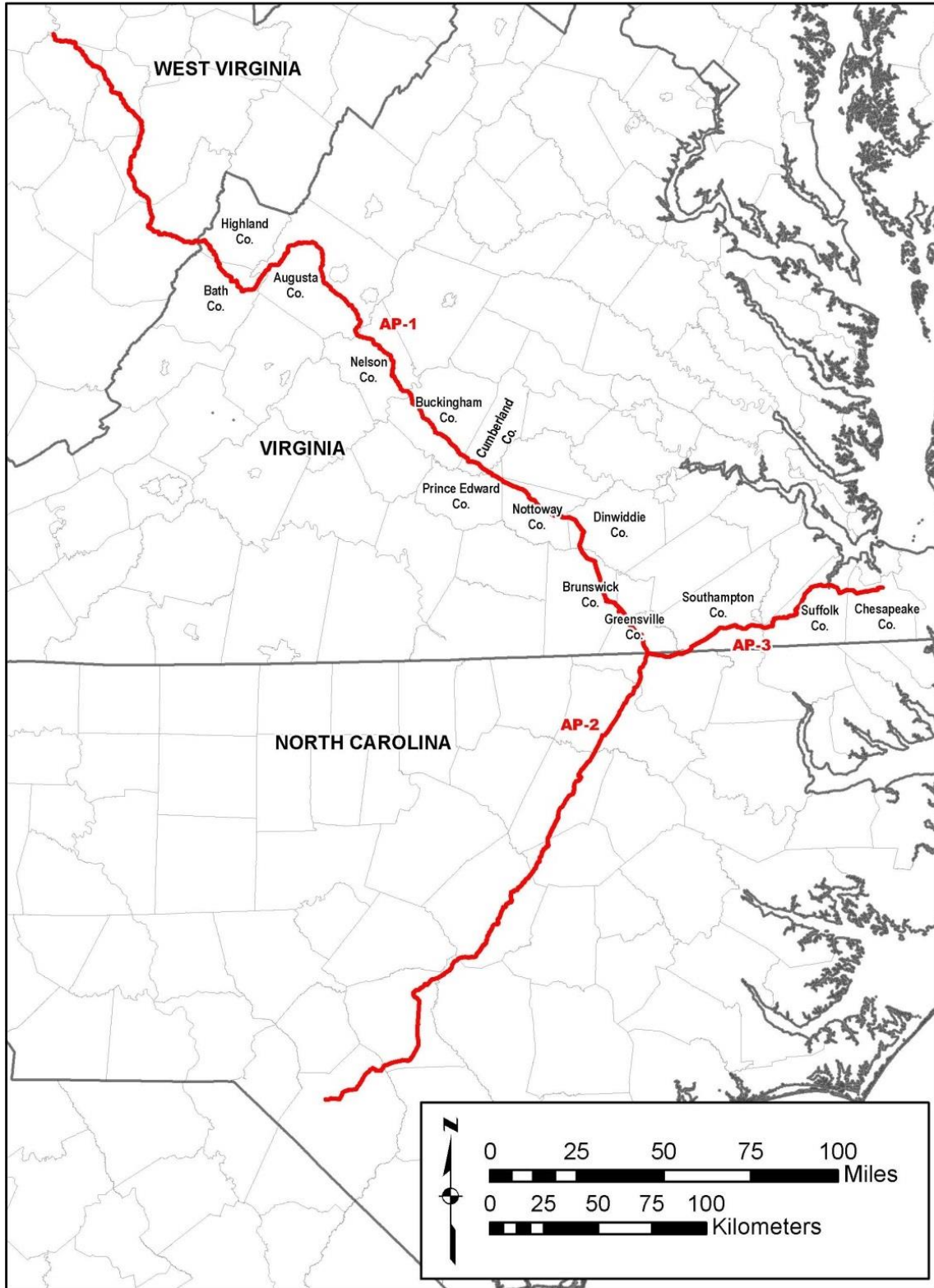


Figure 1. General overview of the Project corridor.

METHODS

BACKGROUND AND FIELD RESEARCH

Before field investigations for historic resources were initiated, a file search was conducted for previously identified resources, along with information on properties listed in or nominated for the NRHP, within a 0.5-mile buffer of the proposed Project corridor. In response to changes in the proposed route, and to recognize recently identified resources since the start of the Project, updated file searches were conducted over the course of the Project. ERM collected information on resources maintained by the Virginia Department of Historic Resources (VDHR) in the Virginia Cultural Resource Information System (V-CRIS). The purpose of the search was to identify resources that might be located within the APE, and to anticipate the types of resources likely to be encountered in the region. File search results can be found in the various reports prepared for the historic architectural survey work on the Project, including that conducted by Dovetail Cultural Resource Group (Anderson and Staton 2015; Lesiuk et al. 2016; Staton 2016), and that conducted by ERM (Tucker-Laird et al. 2017a, 2017b, 2017c; Voisin George et al. 2016). The results of an updated file search for the entire length of the current Project in Virginia are presented in the Addendum Report 3 (Voisin George et al. 2016), and these results remain valid for the Project as it currently stands. Field studies augmented the file search by confirming the presence of previously recorded resources where Project effect was expected.

POTENTIAL EFFECTS ANALYSIS METHODS

This phased assessment of effects is based on the meeting held between the VDHR, Dominion Energy, and ERM on April 4, 2017. As discussed, the phased approach involves a process by which properties are excluded from further consideration based on several different screening factors (route changes, topography, vegetation, etc.). This report identifies those structures that were determined through field surveys and computer modeling (as documented in the supporting materials) to not be affected by the Project. Those resources not excluded through this process, and which are considered eligible or potentially eligible for the NRHP, are the subject of separate reporting to assess Project effects (Tucker-Laird et al. 2017d).

For all identified architectural resources within a 0.5-mile radius of the Project, ERM assessed the potential for Project effects through desktop review, field studies, and computer modeling to determine whether or not resources would experience visual effects based on the nature of topography, vegetation, and modern infrastructure between a given resource and proposed Project facilities. Desktop review assessments consisted of a detailed review of topographic maps and aerial photographs, along with utilizing Google Earth imaging software with 3-D terrain modeling (Appendix A). When using this software, a pin was placed at the location of each listed, eligible, and not evaluated resource to verify cases where the desktop review suggested that there would be no view to the Project. Using the altitude feature, which was set to the lowest possible elevation (2 meters, relative to ground), a viewshed analysis was then run. Although the Project will be below ground, analysis was performed as if it was 2 meters above ground in an effort to supply adequate data. The 3-D terrain modeling only captures topography and not vegetation, but because the resulting imagery retains the coloring from the original aerial photographs, the viewer can visualize areas where tree cover might obstruct the view to the Project. The purpose of this assessment was to rule out the resources that did not have a line-of-sight to the Project. For resources where line-of-sight could not be determined, field studies were conducted.

For those resources not excluded from the APE through the methodology described in the current report, the field survey covered all resources—both previously recorded and newly identified—with line-of-sight to the Project. The findings for the survey, including areas associated with previous alignments and not currently in the APE, are presented in a series of reports (Anderson and Staton 2015; Lesiuk et al. 2016; Staton 2016; Tucker-Laird et al. 2017a, 2017b, 2017c; Voisin George et al. 2016). For those 58 resources within the current APE considered eligible or potentially eligible for the NRHP, potential Project effects were assessed, with recommendations presented in a separate report (Tucker-Laird et al. 2017d).

RESULTS

Background research along with field studies conducted by ERM indicated that a total of 988 previously and newly recorded resources fell within 0.5 miles of the Project (Appendix B). Of these, 573 of the resources are considered not to be affected by the Project. Due to route deviations, 168 of these resources will not be affected by the Project, and a further 25 resources are no longer extant. The remainder of the 573 resources will not be affected by the Project for the following reasons, No Effect due to vegetation screening (199), Intervening buildings (108), and topography (7), and no effect due to no vegetation change (66). The total number of resources that would be affected by the Project is 415, which are not covered in this report. ERM has described and evaluated the resources in the APE in a series of survey reports (Anderson and Staton 2015; Lesiuk et al. 2016; Staton 2016; Tucker-Laird et al. 2017a, 2017b, 2017c; Voisin George et al. 2016), and provides assessment of effects discussions for 58 resources in the APE for the final Project alignment that are eligible or potentially eligible for the NRHP (Tucker-Laird et al. 2017d).

ELIGIBLE, LISTED, AND NOT EVALUATED RESOURCES IN LOCATIONS WITH NO POTENTIAL FOR PROJECT EFFECTS

The background research carried out by ERM identified 229 previously recorded resources within a 0.5-mile radius of the Project that are eligible, listed, or not evaluated for NRHP eligibility and that will not be affected by the Project due to intervening topography, vegetation, or modern infrastructure, or due to no vegetation change. Of these resources, nine are listed in the NRHP, 21 are recommended eligible for listing in the NRHP, and 199 resources have not been evaluated (Table 1; Appendix A, Figures 1–920). For the not evaluated resources, no further eligibility recommendations have been provided by ERM since those resources were not subject to further study once it was determined that they would not be affected by the Project.

There are a number of factors, discussed in the sections that follow, that account for a finding of no potential effects.

Eligible and Not Evaluated Resources within 0.5 Miles of Project with No Effect			
Resource #	Eligibility	Comments	Appendix A Figure #
007-0012	NRHP, VLR Listed	Intervening topography	1–4
007-0014	Not evaluated	Intervening topography	5-8
007-0097	Not evaluated	Intervening topography	9-12
007-0100	Eligible	Vegetative Screening	13-16
007-0102	Not evaluated	Unforested-no major vegetation change	17-20
007-0134	Eligible	Unforested-no major vegetation change	21-24
007-0233	NRHP, VLR Listed	Unforested-no major vegetation change	25-28
007-0434	Not evaluated	Unforested-no major vegetation change	29-32
007-0435	Not evaluated	Unforested-no major vegetation change	33-36
007-0449	Not evaluated	Vegetative Screening	37-40
007-0450	Not evaluated	Vegetative Screening	41-44
007-0454	Not evaluated	Vegetative Screening	45-48

Table 1			
Eligible and Not Evaluated Resources within 0.5 Miles of Project with No Effect			
Resource #	Eligibility	Comments	Appendix A Figure #
007-0455	Not evaluated	Vegetative Screening	49-52
007-0456	Not evaluated	Vegetative Screening	53-56
007-0460	Not evaluated	Unforested-no major vegetation change	57-60
007-0472	Not evaluated	Vegetative Screening	61-64
007-0473	Not evaluated	Vegetative Screening	65-68
007-0474	Not evaluated	Intervening topography	69-72
007-0475	Not evaluated	Vegetative Screening	73-76
007-0478	Not evaluated	Vegetative Screening	77-80
007-0482	Not evaluated	Intervening Buildings	81-84
007-0488	Not evaluated	Intervening Buildings	85-88
007-0489	Not evaluated	Intervening Buildings	89-92
007-0793	Not evaluated	Unforested-no major vegetation change	93-96
007-0794	Not evaluated	Vegetative Screening	97-100
007-0798	Not evaluated	Vegetative Screening	101-104
007-0804	Not evaluated	Vegetative Screening	105-108
007-0870	Not evaluated	Vegetative Screening	109-112
007-0871	NRHP, VLR Listed	Vegetative Screening	113-116
007-0898	Not evaluated	Unforested-no major vegetation change	117-120
007-0900	Not evaluated	Unforested-no major vegetation change	121-124
007-0911	Not evaluated	Vegetative Screening	125-128
007-0915	Not evaluated	Intervening Buildings	129-132
007-0917	Eligible	Vegetative Screening	133-136
007-0918	Eligible	Vegetative Screening	137-140
007-0919	Eligible	Vegetative Screening	141-144
007-0923	Not evaluated	Vegetative Screening	145-148
007-1107	Not evaluated	Vegetative Screening	149-152
007-1114	Not evaluated	Unforested-no major vegetation change	153-156
007-1116	Not evaluated	Vegetative Screening	157-160
007-1154	NRHP, VLR Listed	Intervening Buildings	161-164
007-1167	Not evaluated	Intervening topography	165-168
007-1172	Not evaluated	Intervening Buildings	169-172
007-1173	Not evaluated	Unforested-no major vegetation change	173-176
007-1211	NRHP, VLR Listed	Intervening Buildings	177-180
007-1304	Eligible	Vegetative Screening	181-184
007-5054	Not evaluated	Vegetative Screening	185-188
007-5398	Not evaluated	Unforested-no major vegetation change	189-192
007-5399	Not evaluated	Unforested-no major vegetation change	193-196

Table 1			
Eligible and Not Evaluated Resources within 0.5 Miles of Project with No Effect			
Resource #	Eligibility	Comments	Appendix A Figure #
007-5400	Not evaluated	Unforested-no major vegetation change	197-200
007-5567	Not evaluated	Unforested-no major vegetation change	201-204
007-5568	Not evaluated	Intervening Buildings	205-208
007-5572	Not evaluated	Unforested-no major vegetation change	209-212
007-5573	Not evaluated	Unforested-no major vegetation change	213-216
007-5574	Not evaluated	Unforested-no major vegetation change	217-220
007-5575	Not evaluated	Unforested-no major vegetation change	221-224
007-5576	Not evaluated	Unforested-no major vegetation change	225-228
007-5577	Not evaluated	Unforested-no major vegetation change	229-232
007-5578	Not evaluated	Unforested-no major vegetation change	233-236
007-5579	Not evaluated	Unforested-no major vegetation change	237-240
007-5580	Not evaluated	Unforested-no major vegetation change	241-244
007-5581	Not evaluated	Vegetative Screening	245-248
007-5582	Not evaluated	Unforested-no major vegetation change	249-252
008-5015	Not evaluated	Vegetative Screening	253-256
012-0002	Eligible	Vegetative Screening	257-260
012-0003	Not evaluated	Vegetative Screening	261-264
012-0034	Eligible	Vegetative Screening	265-268
012-0037	Eligible	Vegetative Screening	269-272
012-0089	Eligible	Unforested-no major vegetation change	273-276
012-0139	Eligible	Vegetative Screening	277-280
012-5044	Eligible	Vegetative Screening	281-284
012-5072	Not evaluated	Vegetative Screening	285-288
012-5171	Not evaluated	Vegetative Screening	289-292
012-5172	Not evaluated	Unforested-no major vegetation change	293-296
012-5173	Not evaluated	Vegetative Screening	297-300
014-0006	Not evaluated	Unforested-no major vegetation change	301-304
014-0014	Not evaluated	Vegetative Screening	305-308
014-0016	Not evaluated	Unforested-no major vegetation change	309-312
014-0019	NRHP, VLR Listed	Vegetative Screening	313-316
014-0028	Not evaluated	Vegetative Screening	317-320
014-0042	Eligible	Vegetative Screening	321-324
014-0049	Not evaluated	Unforested-no major vegetation change	325-328
014-0050	Not evaluated	Vegetative Screening	329-332
014-0069	Not evaluated	Vegetative Screening	333-336
014-0074	Not evaluated	Vegetative Screening	337-340
014-0090	Not evaluated	Vegetative Screening	341-344

Table 1			
Eligible and Not Evaluated Resources within 0.5 Miles of Project with No Effect			
Resource #	Eligibility	Comments	Appendix A Figure #
024-0170	Not evaluated	Vegetative Screening	345-348
024-0171	Not evaluated	Vegetative Screening	349-352
024-0173	Not evaluated	Vegetative Screening	353-356
024-0174	Not evaluated	Unforested-no major vegetation change	357-360
024-0179	Not evaluated	Vegetative Screening	361-364
024-0180	Not evaluated	Vegetative Screening	365-368
024-0181	Not evaluated	Vegetative Screening	369-372
024-0311	Not evaluated	Unforested-no major vegetation change	373-376
024-0318	Not evaluated	Vegetative Screening	377-380
024-0384	Eligible	Vegetative Screening	381-384
024-0391	Not evaluated	Unforested-no major vegetation change	385-388
026-0037	Not evaluated	Vegetative Screening	389-392
040-5014	Not evaluated	Vegetative Screening	393-396
062-0005	NRHP, VLR Listed	Intervening topography	397-400
062-0133	Not evaluated	Vegetative Screening	401-404
062-0452	Not evaluated	Vegetative Screening	405-408
062-5041	Not evaluated	Vegetative Screening	409-412
067-0018	Eligible	Vegetative Screening	413-416
067-0031	NRHP, VLR Listed	Unforested-no major vegetation change	417-420
067-0036	Eligible	Unforested-no major vegetation change	421-424
067-0089	Not evaluated	Vegetative Screening	425-428
067-0090	Not evaluated	Unforested-no major vegetation change	429-432
067-0096	Not evaluated	Vegetative Screening	433-436
067-0097	Not evaluated	Unforested-no major vegetation change	437-440
067-0111	Not evaluated	Vegetative Screening	441-444
067-0112	Not evaluated	Vegetative Screening	445-448
067-0113	Not evaluated	Vegetative Screening	449-452
067-0122	Not evaluated	Unforested-no major vegetation change	453-456
067-0124	Not evaluated	Vegetative Screening	457-460
067-0125	Not evaluated	Vegetative Screening	461-464
067-0126	Not evaluated	Unforested-no major vegetation change	465-468
067-0207	Eligible	Vegetative Screening	469-472
067-0231	Eligible	Vegetative Screening	473-476
073-5088	Not evaluated	Vegetative Screening	477-480
087-0092	Eligible	Unforested-no major vegetation change	481-484
087-0105	Not evaluated	Vegetative Screening	485-488
087-5330	Not evaluated	Vegetative Screening	489-492

Table 1			
Eligible and Not Evaluated Resources within 0.5 Miles of Project with No Effect			
Resource #	Eligibility	Comments	Appendix A Figure #
087-5395	Not evaluated	Unforested-no major vegetation change	493-496
087-5404	Not evaluated	Vegetative Screening	497-500
131-0031	Not evaluated	Intervening Buildings	501-504
131-0456	Not evaluated	Intervening Buildings	505-508
131-0459	Not evaluated	Intervening Buildings	509-512
131-0498	Not evaluated	Intervening Buildings	513-516
131-0499	Not evaluated	Intervening Buildings	517-520
131-0504	Not evaluated	Intervening Buildings	521-524
131-0524	Not evaluated	Intervening Buildings	525-528
131-0525	Not evaluated	Vegetative Screening	529-532
131-0526	Not evaluated	Vegetative Screening	533-536
131-0527	Not evaluated	Vegetative Screening	537-540
131-0528	Not evaluated	Vegetative Screening	541-544
131-0529	Not evaluated	Vegetative Screening	545-548
131-0530	Not evaluated	Vegetative Screening	549-552
131-0531	Not evaluated	Vegetative Screening	553-556
131-0532	Not evaluated	Intervening Buildings	557-560
131-0533	Not evaluated	Intervening Buildings	561-564
131-0534	Not evaluated	Vegetative Screening	565-568
131-0535	Not evaluated	Vegetative Screening	569-572
131-0540	Not evaluated	Intervening Buildings	573-576
131-0541	Not evaluated	Intervening Buildings	577-580
131-0544	Not evaluated	Vegetative Screening	581-584
131-0546	Not evaluated	Vegetative Screening	585-588
131-0547	Not evaluated	Vegetative Screening	589-592
131-5034	Not evaluated	Intervening Buildings	593-596
131-5035	Not evaluated	Intervening Buildings	597-600
131-5036	Not evaluated	Vegetative Screening	601-604
131-5325-0010	Not evaluated	Vegetative Screening	605-608
131-5325-0011	Not evaluated	Vegetative Screening	609-612
131-5325-0012	Not evaluated	Vegetative Screening	613-616
131-5325-0013	Not evaluated	Vegetative Screening	617-620
131-5325-0014	Not evaluated	Vegetative Screening	621-624
131-5325-0015	Not evaluated	Vegetative Screening	625-628
131-5325-0016	Not evaluated	Vegetative Screening	629-632
131-5325-0017	Not evaluated	Vegetative Screening	633-636
131-5325-0018	Not evaluated	Vegetative Screening	637-640

Table 1			
Eligible and Not Evaluated Resources within 0.5 Miles of Project with No Effect			
Resource #	Eligibility	Comments	Appendix A Figure #
131-5325-0019	Not evaluated	Vegetative Screening	641-644
131-5325-0020	Not evaluated	Vegetative Screening	645-648
131-5325-0021	Not evaluated	Vegetative Screening	649-652
131-5325-0022	Not evaluated	Vegetative Screening	653-656
131-5325-0023	Not evaluated	Vegetative Screening	657-660
131-5325-0066	Not evaluated	Vegetative Screening	661-664
131-5325-0067	Not evaluated	Vegetative Screening	665-668
131-5325-0068	Not evaluated	Vegetative Screening	669-672
131-5325-0085	Not evaluated	Vegetative Screening	673-676
131-5325-0086	Not evaluated	Vegetative Screening	677-680
131-5325-0125	Not evaluated	Vegetative Screening	681-684
131-5325-0130	Not evaluated	Vegetative Screening	685-688
131-5325-0131	Not evaluated	Vegetative Screening	689-692
131-5325-0133	Not evaluated	Vegetative Screening	693-696
131-5325-0134	Not evaluated	Vegetative Screening	697-700
131-5325-0135	Not evaluated	Vegetative Screening	701-704
131-5325-0136	Not evaluated	Vegetative Screening	705-708
131-5325-0137	Not evaluated	Vegetative Screening	709-712
131-5325-0138	Not evaluated	Vegetative Screening	713-716
131-5325-0139	Not evaluated	Vegetative Screening	717-720
131-5325-0140	Not evaluated	Vegetative Screening	721-724
131-5325-0141	Not evaluated	Vegetative Screening	725-728
131-5325-0142	Not evaluated	Vegetative Screening	729-732
131-5325-0143	Not evaluated	Vegetative Screening	733-736
131-5325-0144	Not evaluated	Vegetative Screening	737-740
131-5325-0145	Not evaluated	Vegetative Screening	741-744
131-5325-0146	Not evaluated	Vegetative Screening	745-748
131-5325-0147	Not evaluated	Vegetative Screening	749-752
131-5325-0148	Not evaluated	Vegetative Screening	753-756
131-5325-0149	Not evaluated	Vegetative Screening	757-760
131-5325-0150	Not evaluated	Vegetative Screening	761-764
131-5325-0151	Not evaluated	Vegetative Screening	765-768
131-5325-0152	Not evaluated	Vegetative Screening	769-772
131-5325-0153	Not evaluated	Vegetative Screening	773-776
131-5325-0154	Not evaluated	Vegetative Screening	777-780
131-5325-0155	Not evaluated	Vegetative Screening	781-784
131-5325-0156	Not evaluated	Vegetative Screening	785-788

Table 1			
Eligible and Not Evaluated Resources within 0.5 Miles of Project with No Effect			
Resource #	Eligibility	Comments	Appendix A Figure #
131-5325-0158	Not evaluated	Vegetative Screening	789-792
131-5325-0159	Not evaluated	Vegetative Screening	793-796
131-5325-0160	Not evaluated	Vegetative Screening	797-800
131-5325-0161	Not evaluated	Vegetative Screening	801-804
131-5325-0162	Not evaluated	Vegetative Screening	805-808
131-5325-0168	Not evaluated	Vegetative Screening	809-812
131-5614	Not evaluated	Vegetative Screening	813-816
133-0038	Not evaluated	Vegetative Screening	817-820
133-0102	Eligible	Vegetative Screening	821-824
133-0208	Not evaluated	Vegetative Screening	825-828
133-0210	Not evaluated	Vegetative Screening	829-832
133-0217	Not evaluated	Vegetative Screening	833-836
133-0232	Not evaluated	Intervening Buildings and vegetation	837-840
133-0387	Not evaluated	Vegetative Screening	841-844
133-0388	Not evaluated	Vegetative Screening	845-848
133-0389	Not evaluated	Vegetative Screening	849-852
133-0390	Not evaluated	Vegetative Screening	853-856
133-0391	Not evaluated	Vegetative Screening	857-860
133-0392	Not evaluated	Vegetative Screening	861-864
133-0691	NRHP, VLR Listed	Vegetative Screening	865-868
133-0739	Not evaluated	Intervening Buildings	869-872
133-5254	Not evaluated	Vegetative Screening	873-876
133-5262	Not evaluated	Unforested-no major vegetation change	877-880
133-5263	Not evaluated	Unforested-no major vegetation change	881-884
133-5264	Not evaluated	Unforested-no major vegetation change	885-888
133-5265	Not evaluated	Vegetative Screening	889-892
133-5266	Not evaluated	Unforested-no major vegetation change	893-896
133-5267	Not evaluated	Vegetative Screening	897-900
133-5469	Eligible	Vegetative Screening	901-904
133-5499	Not evaluated	Unforested-no major vegetation change	905-908
133-5559	Not evaluated	Unforested-no major vegetation change	909-912
270-5014	Not evaluated	Vegetative Screening	913-916

No Effect - Vegetative Screening

ERM determined that the existing vegetation between the resources in this category and the Project would continue to obstruct views of any necessary tree clearing associated with the Project. Given that there would be vegetative screening, it was determined by ERM that the

existing setting of the resources would remain unchanged. Of the 229 total resources where ERM determined that there would be no potential effect, 153 resources would not be affected due to vegetative screening that obscured Project visibility.

Of the 153 resources where there would be no potential effect due to vegetative screening, three resources are listed in the NRHP, 17 resources have been determined eligible, and 133 resources are not evaluated. Of the listed resources, 007-0871 has considerable distance and numerous intervening mature trees between it and the Project (see Appendix A Figures 105–108). Resource 014-0019 is within a cleared area; however, the resource is surrounded by mature vegetation (see Appendix A Figures 217–220), so there will be no view to the Project. The Project will not be visible from 133-0691 due to the presence of mature trees and modern infrastructure (see Appendix A Figures 717–720).

No Effect - Intervening Buildings

In some cases, the presence of existing buildings between the resource and the Project would block the view of any Project activity. Of the 229 total resources where ERM determined that there would be no potential effect, 23 resources would not be affected due to intervening buildings in the viewshed that blocked Project visibility. Because intervening buildings block the view toward the Project at these locations, it was determined by ERM that the surrounding setting for each of these resources would remain unchanged.

Of the 23 resources where there would be no potential effect due to intervening buildings, two resources are listed in the NRHP, none have been determined eligible, and 21 resources are not evaluated. The two listed resources (007-1154 and 007-1211) will not be affected specifically due to intervening modern infrastructure (residences, support buildings, and associated landscaping) and distance (see Appendix A Figures 153–156 and 169–172).

No Effect - No Vegetation Change

ERM determined that in some locations, the existing vegetation consists of low-profile plants (pasture grasses or crops, for example), and construction through these unforested parcels would not create an effect on the viewshed of nearby resources. Since vegetation will revert to the pre-construction state, there will be no Project impact. Of the 229 total resources where ERM determined that there would be no potential effect, 47 resources would not be affected based on the absence of post-construction vegetation change. Given the fact that the vegetation will not change in these locations, it was determined by ERM that the surrounding setting for each of these resources would remain unchanged.

Among the 47 resources that will not be affected by the Project due to revegetation reverting to the pre-construction state, two resources are listed in the NRHP, five resources have been determined eligible, and 40 resources are not evaluated. The two listed resources are 007-0233 (see Appendix A Figures 21–24) and 067-0031 (see Appendix A Figures 321–324).

No Effect - Intervening Topography

In some cases, intervening topography will block the view to the Project. Given that intervening topography blocks the view toward the Project, it was determined by ERM that the surrounding setting for each of these resources would remain unchanged. Of the 229 total resources where

ERM determined that there would be no potential effect, six resources would not be affected due to intervening topography that blocked views of the Project.

Of the six resources that would not be affected due to intervening topography, two resources are listed, none have been determined eligible, and four resources are not evaluated. Of the listed resources, 007-0012 has intervening hills between it and the Project (see Appendix A Figures 1–4). Resource 062-0005 has a mountain range between it and the Project (see Appendix A Figures 297–300), so there will be no view to the Project.

SUMMARY AND RECOMMENDATIONS

Field investigation and viewshed analysis conducted by ERM indicates that there are 229 previously recorded resources that are eligible, listed, or not evaluated for listing in the NRHP that fall within a 0.5-mile radius of the Project for which the Project will have no effect due to intervening topography, vegetation, or modern infrastructure. Of these resources, nine resources are listed, 21 resources are recommended eligible, and 199 resources are not evaluated.

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APPENDIX A – FIGURES

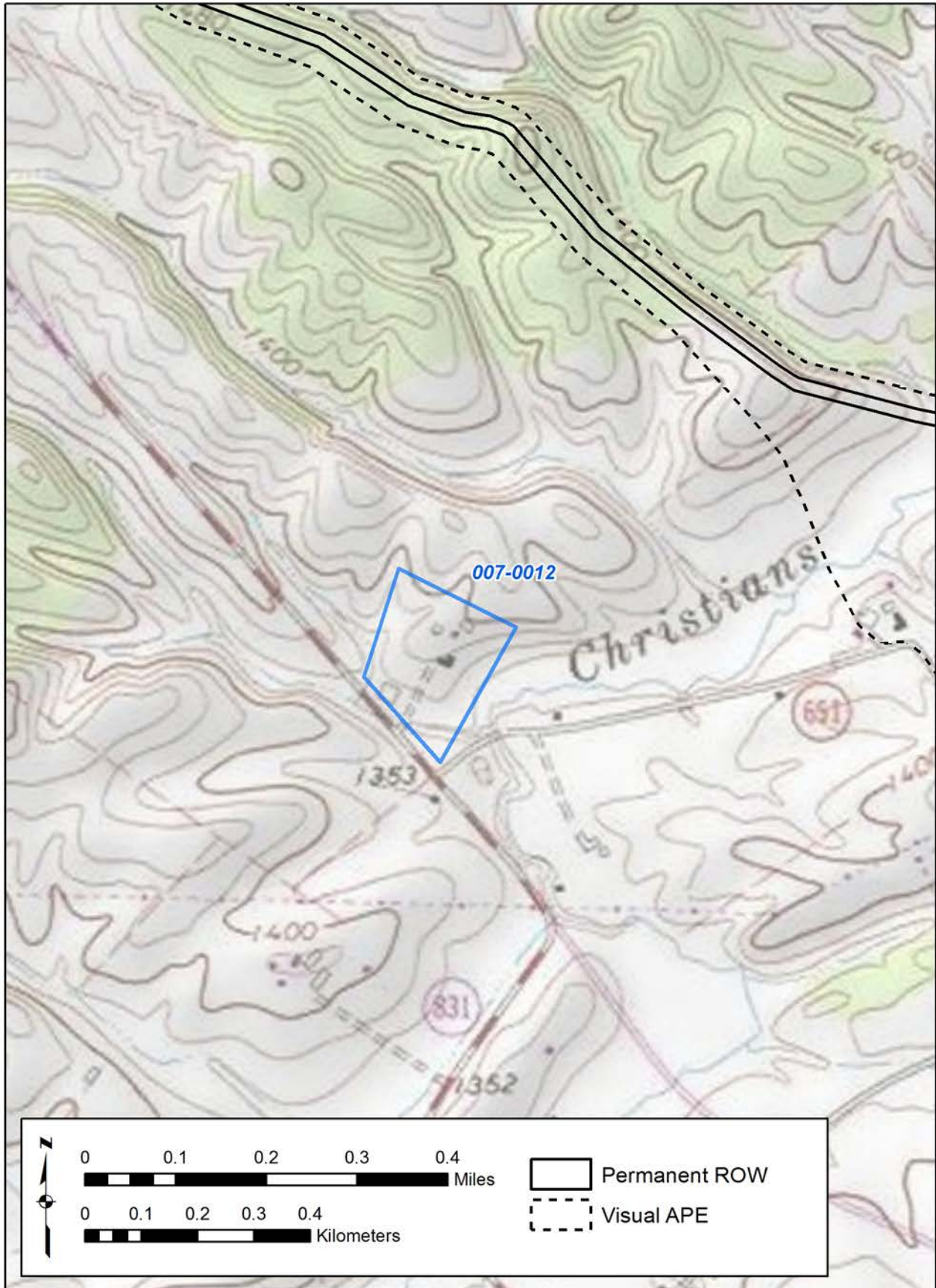


Figure 1. 007-0012 - USGS Quadrangle.

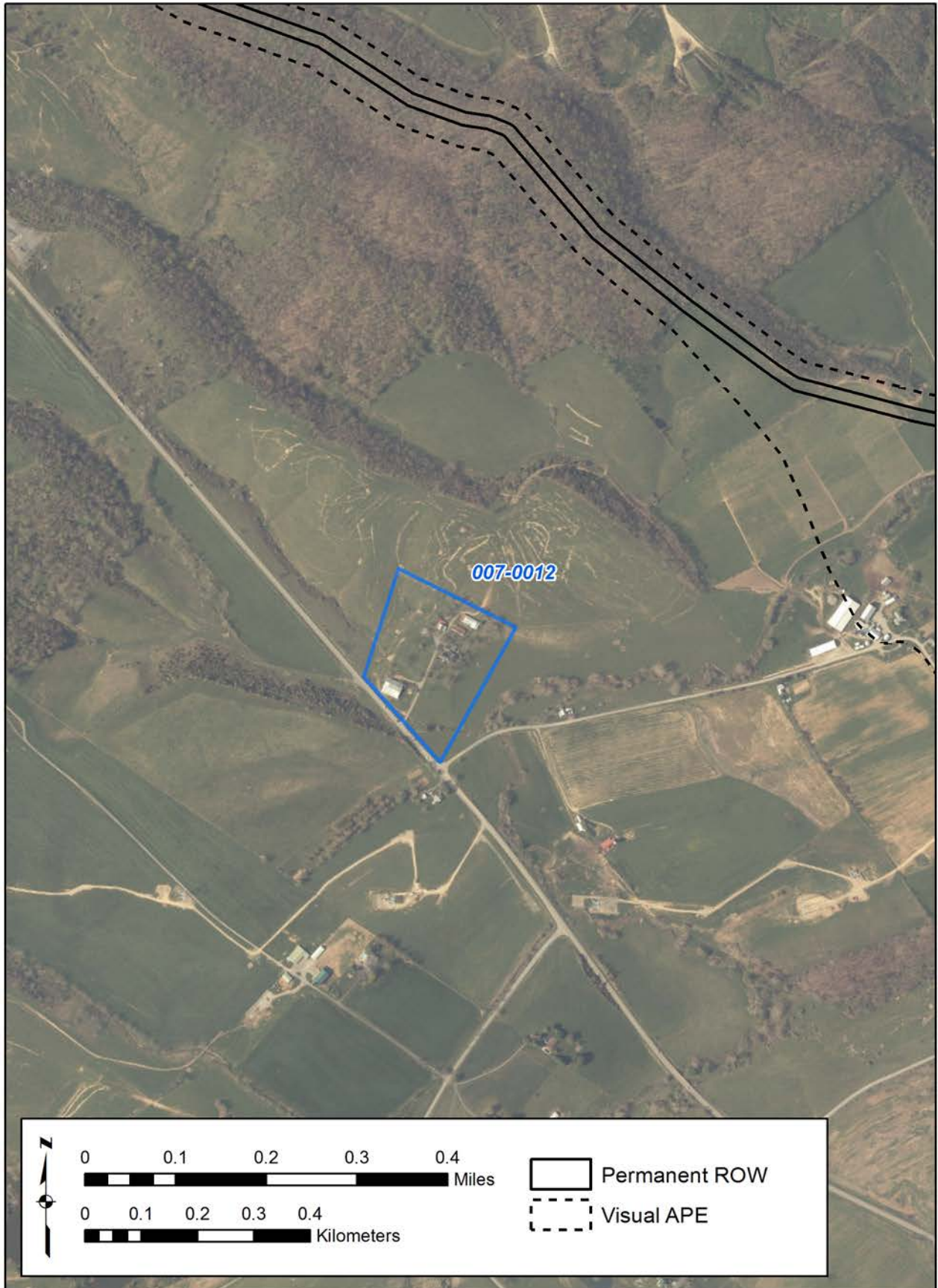


Figure 2. 007-0012 - Aerial.



Figure 3. 007-0012 - 3-D View.

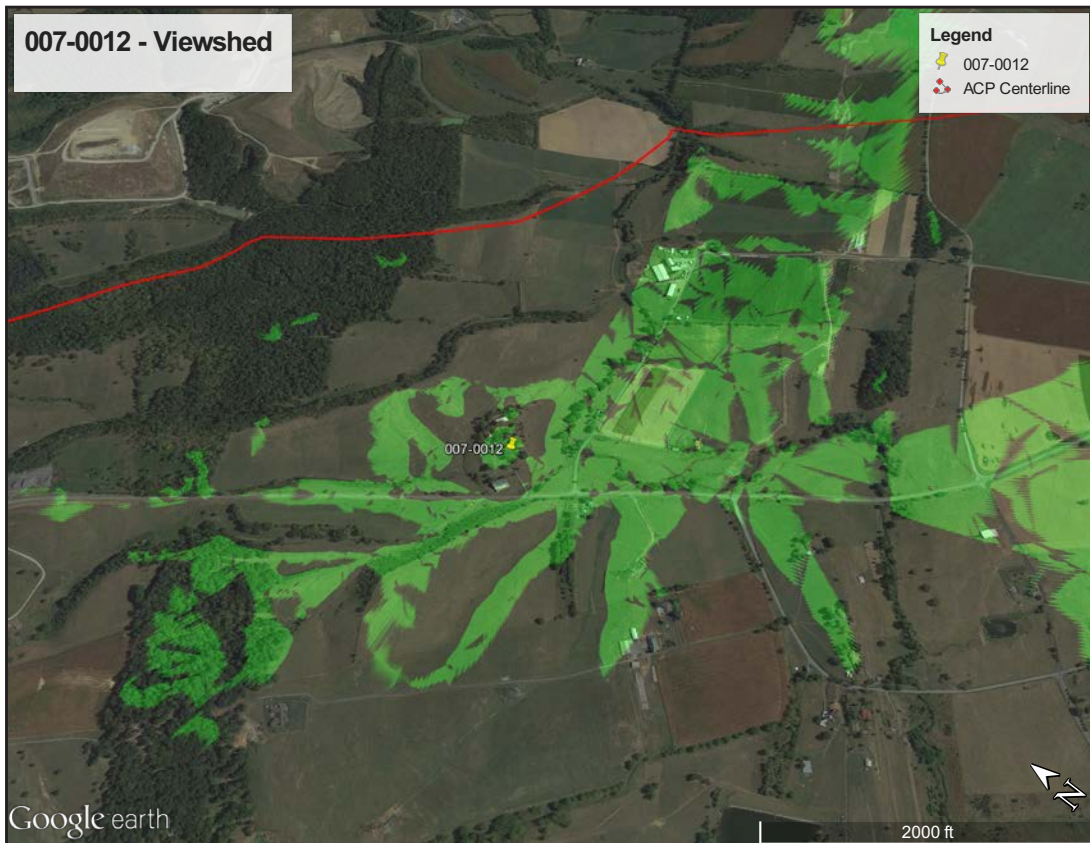


Figure 4. 007-0012 - Viewshed.

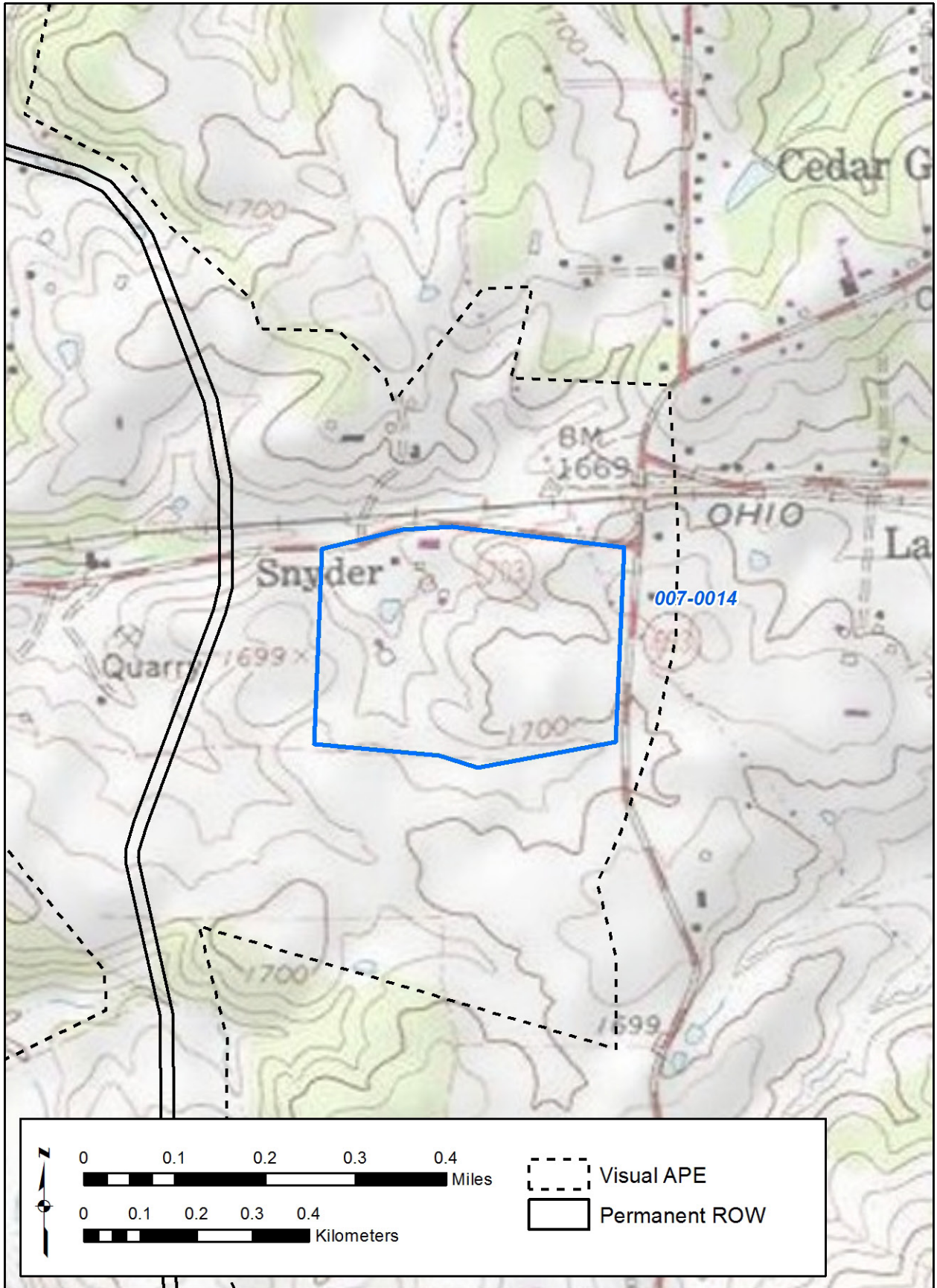


Figure 5. 007-0014 - USGS Quadrangle.



Figure 6. 007-0014 - Aerial.



Figure 7. 007-0014 - 3-D View.



Figure 8. 007-0014 - Viewshed.



Figure 9. 007-0097 - USGS Quadrangle.

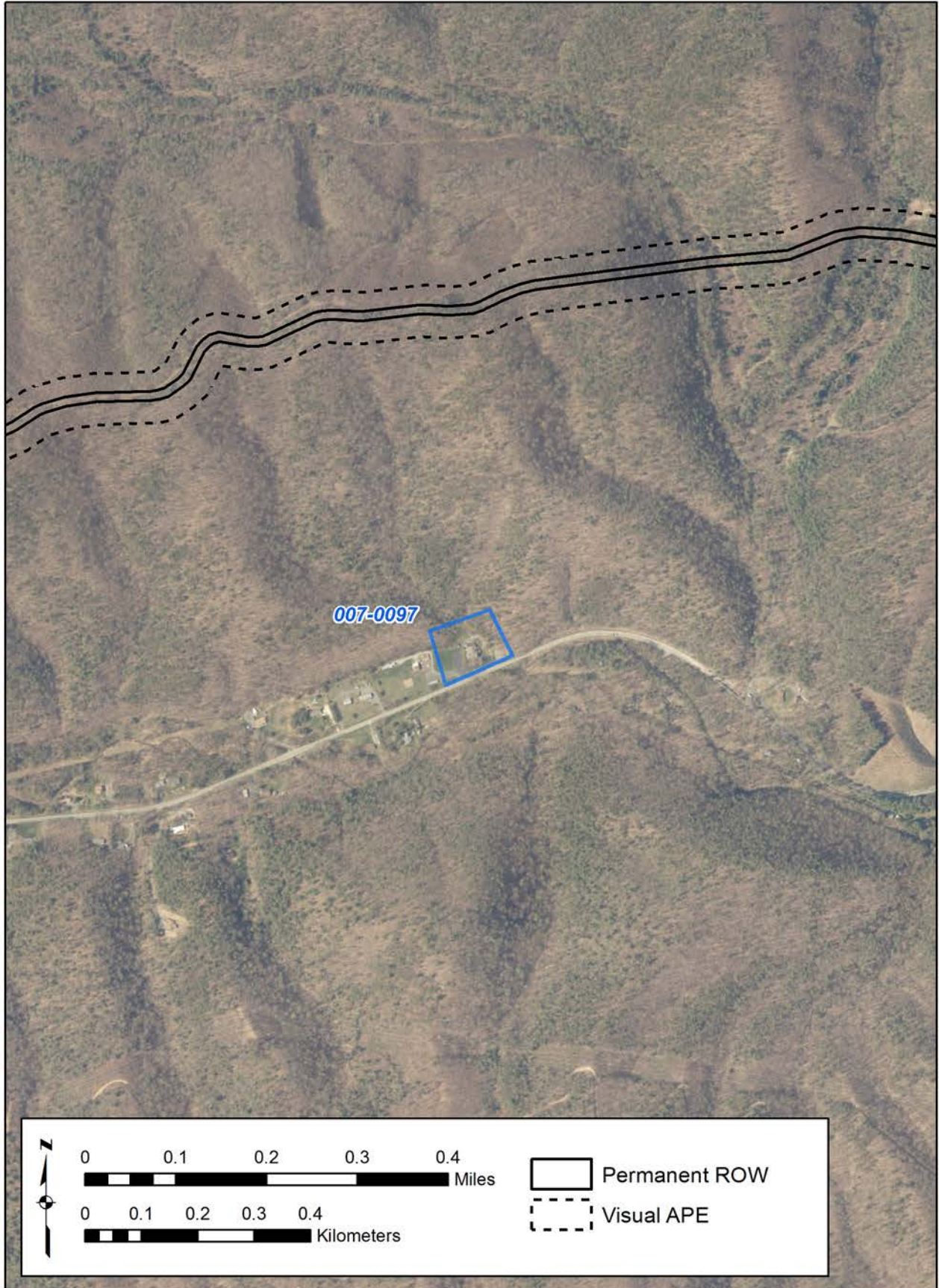


Figure 10. 007-0097 - Aerial.

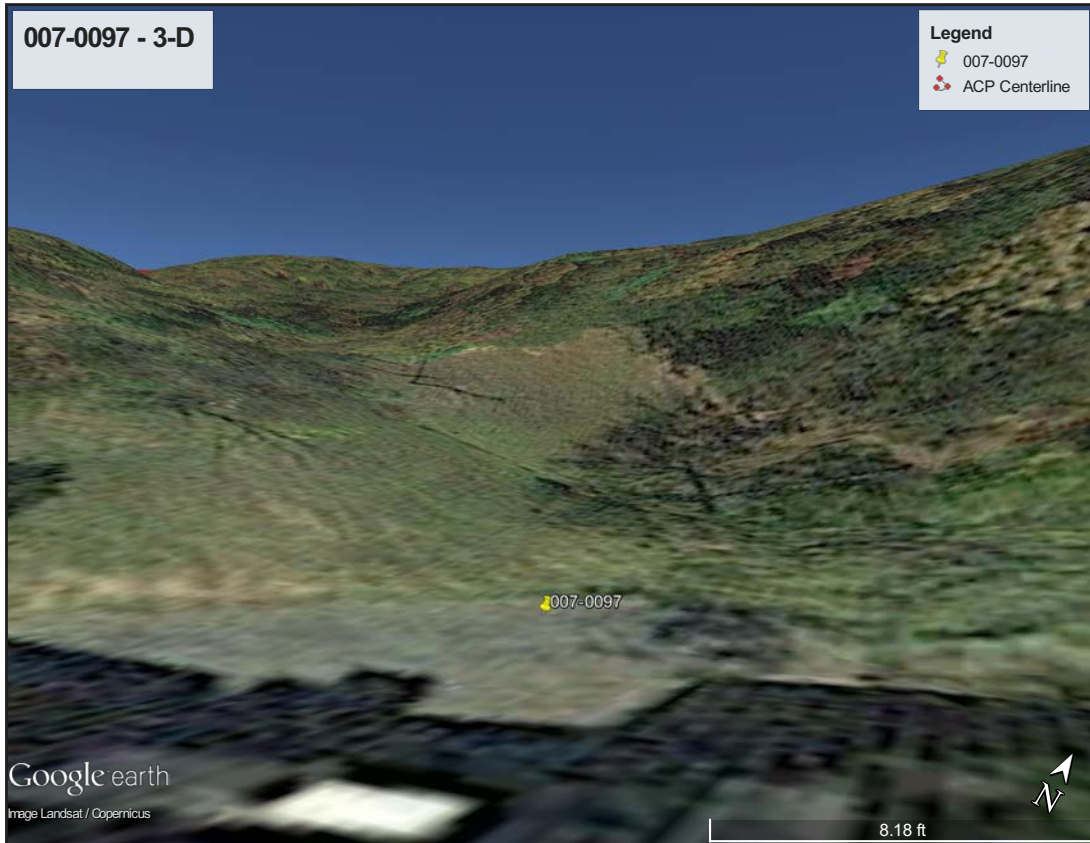


Figure 11. 007-0097 - 3-D View.

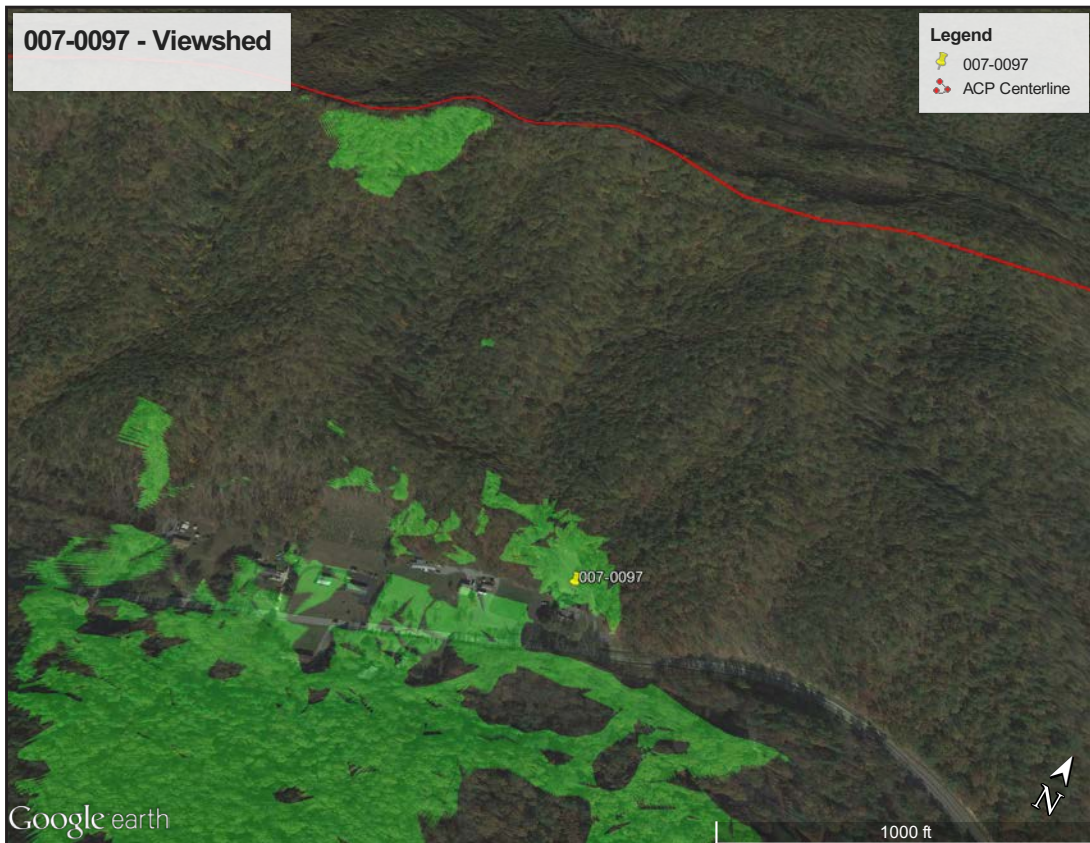


Figure 12. 007-0097 - Viewshed.

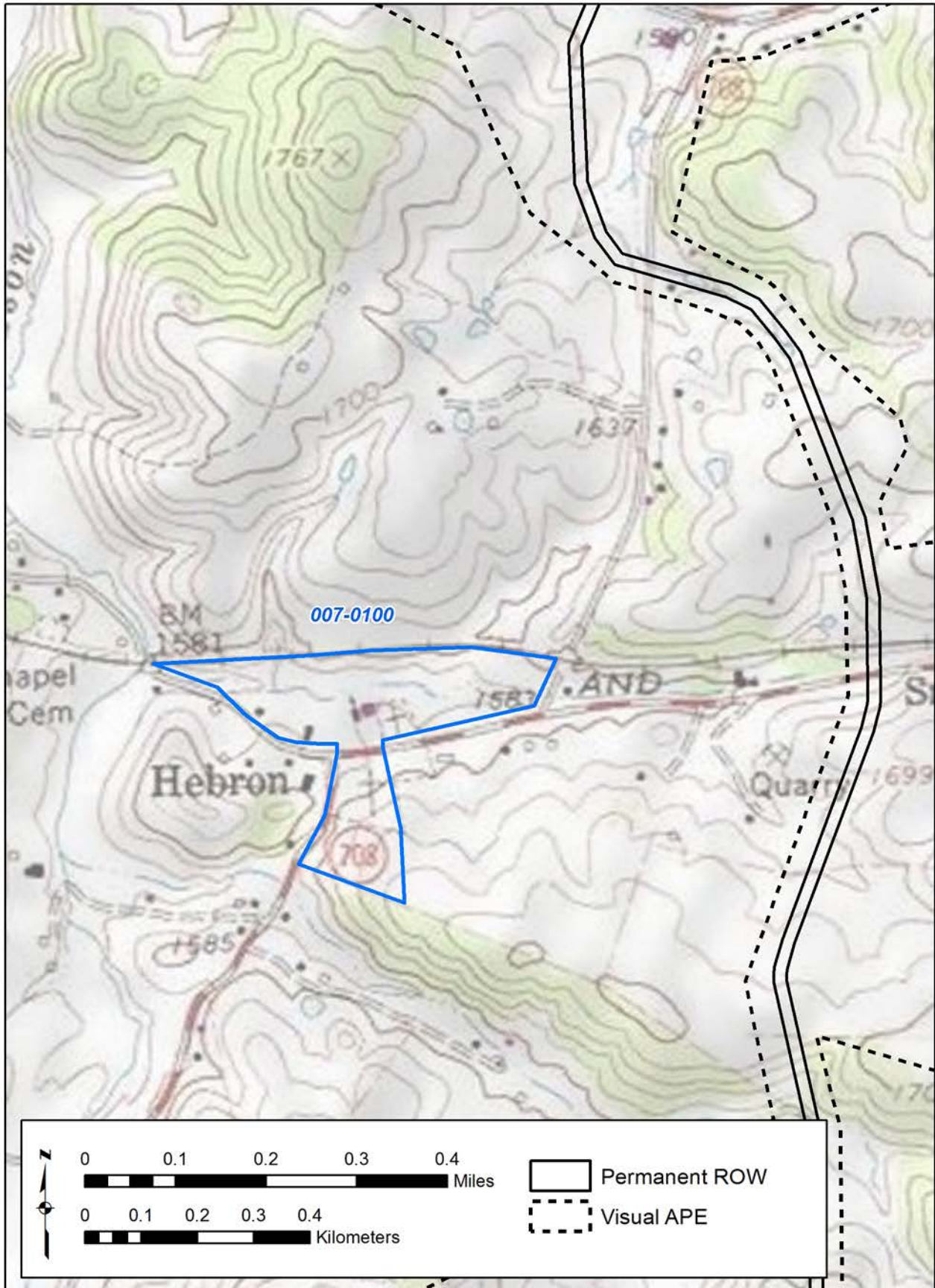


Figure 13. 007-0100 - USGS Quadrangle.



Figure 14. 007-0100 - Aerial.

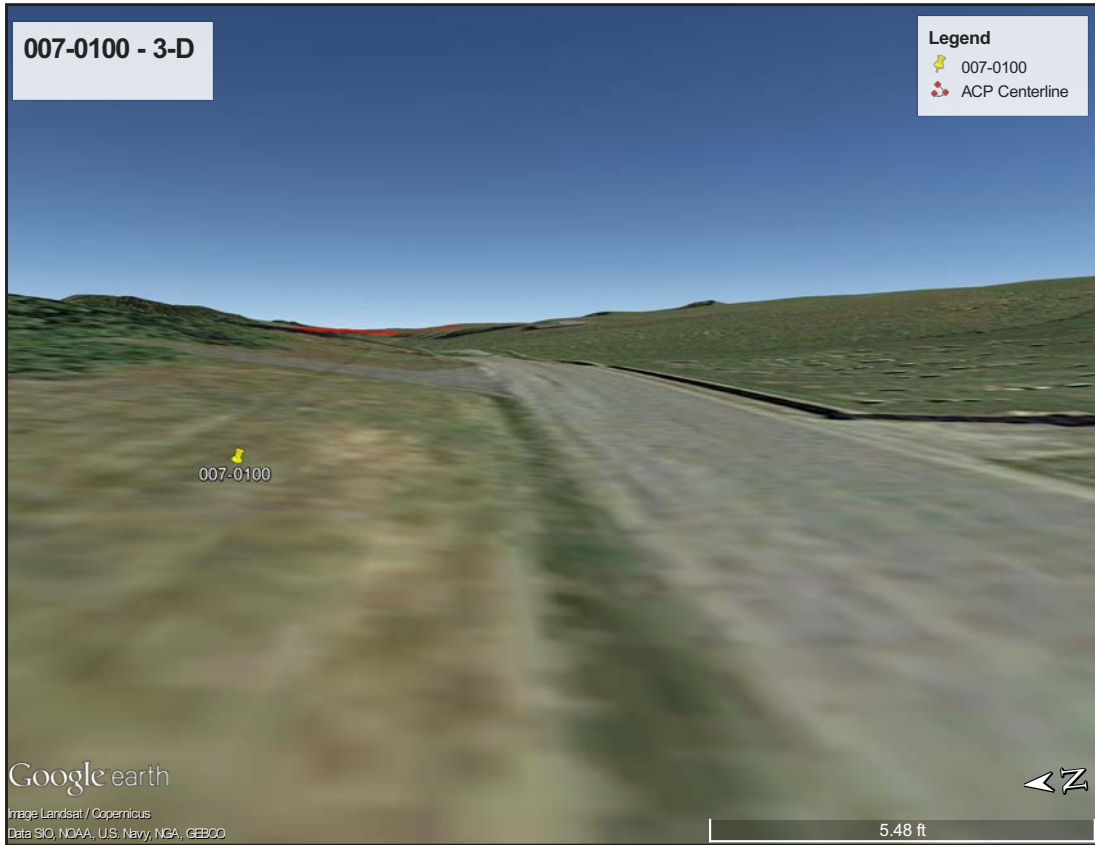


Figure 15. 007-0100 - 3-D View.

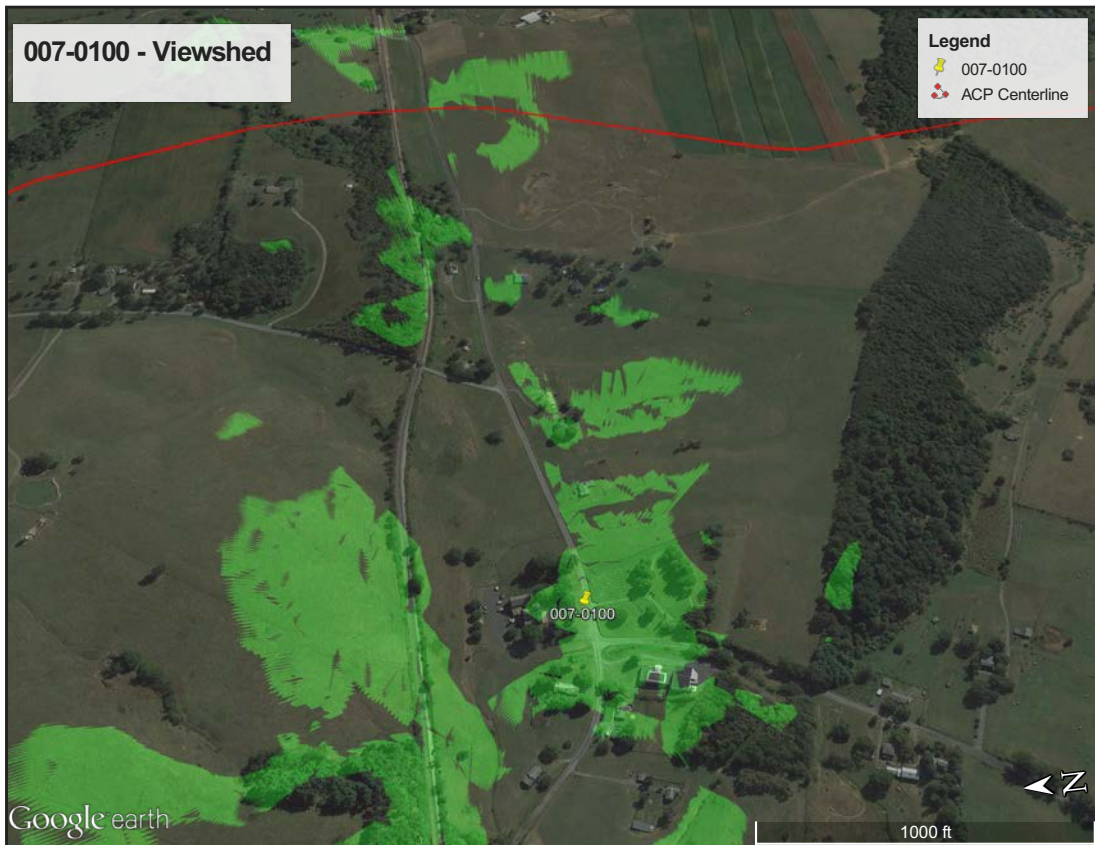


Figure 16. 007-0100 - Viewshed.

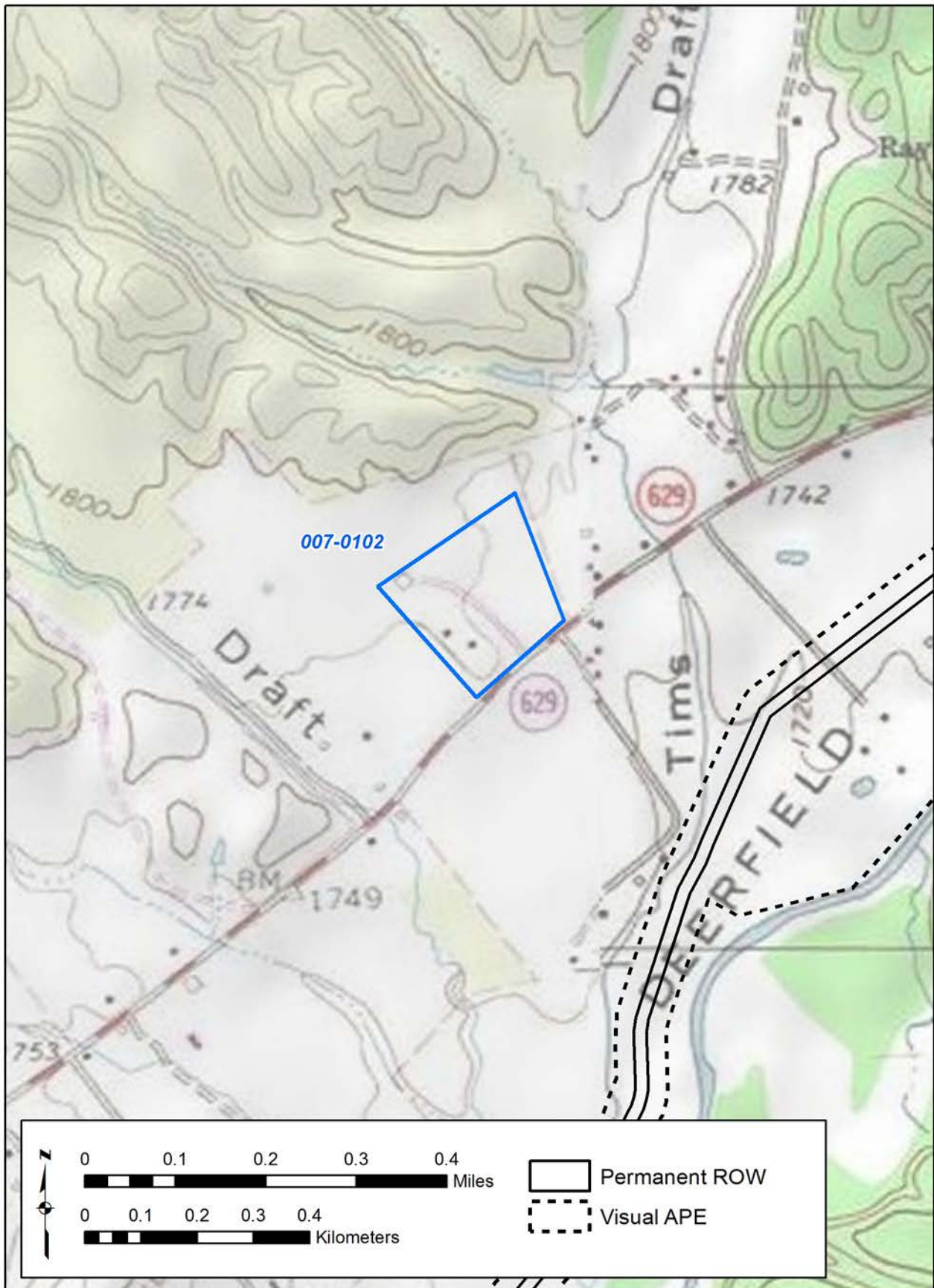


Figure 17. 007-0102 - USGS Quadrangle.

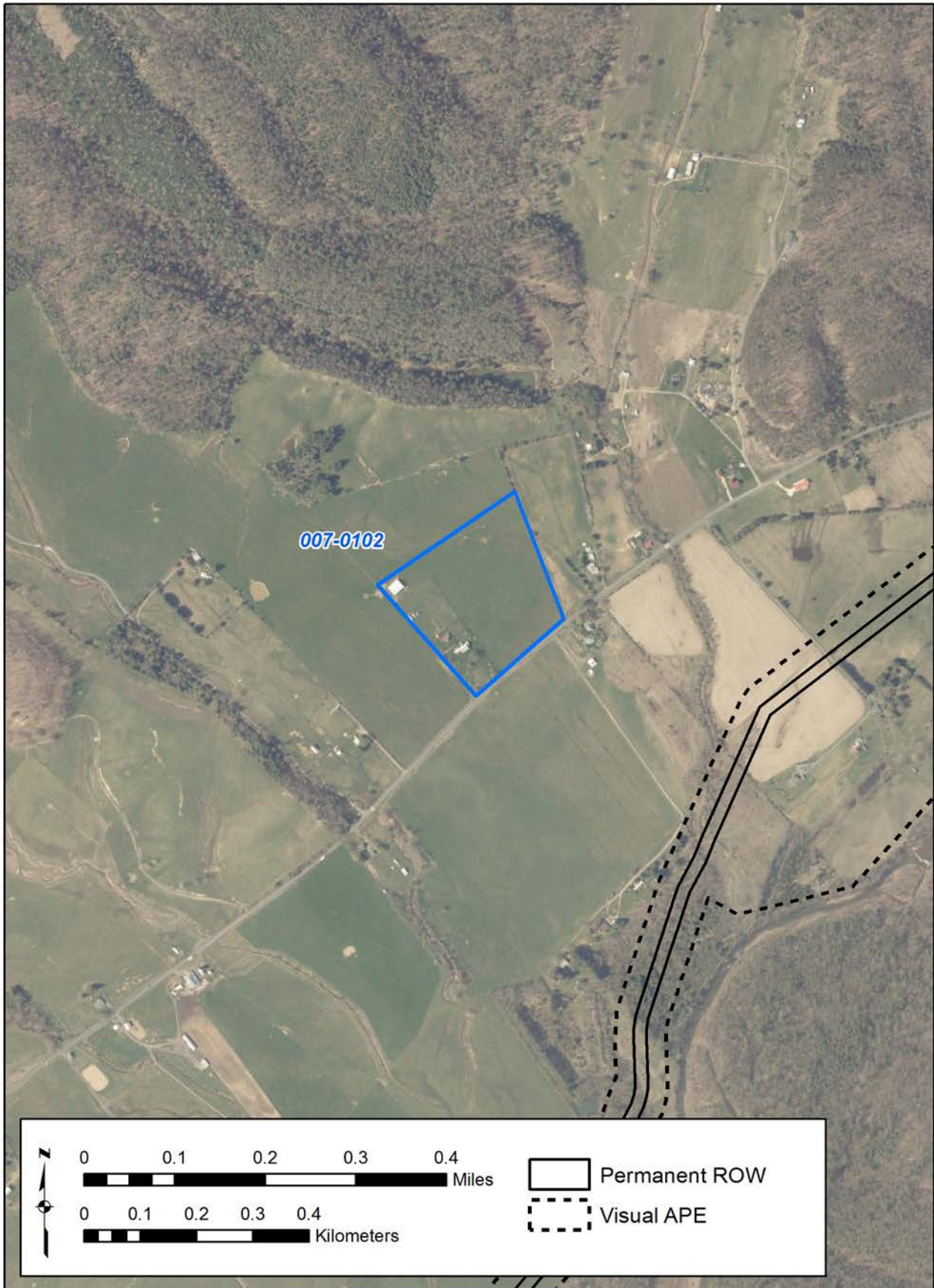


Figure 18. 007-0102 - Aerial.

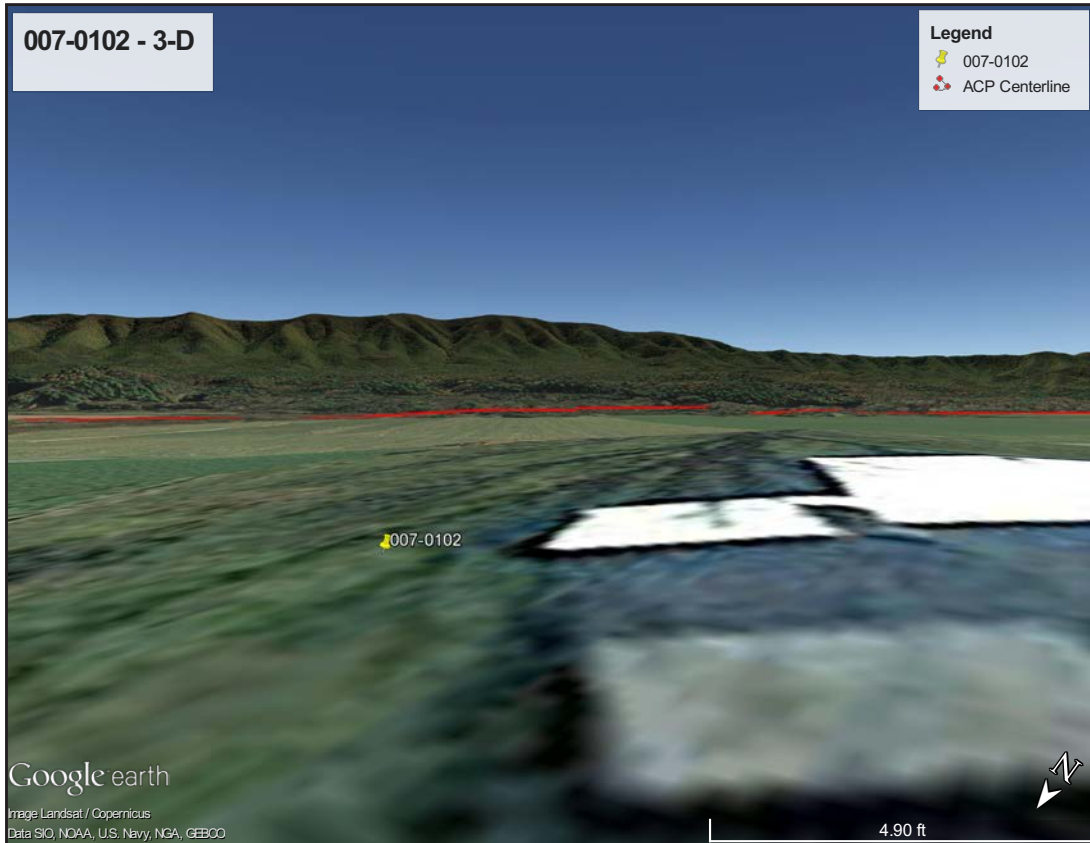


Figure 19. 007-0102 - 3-D View.

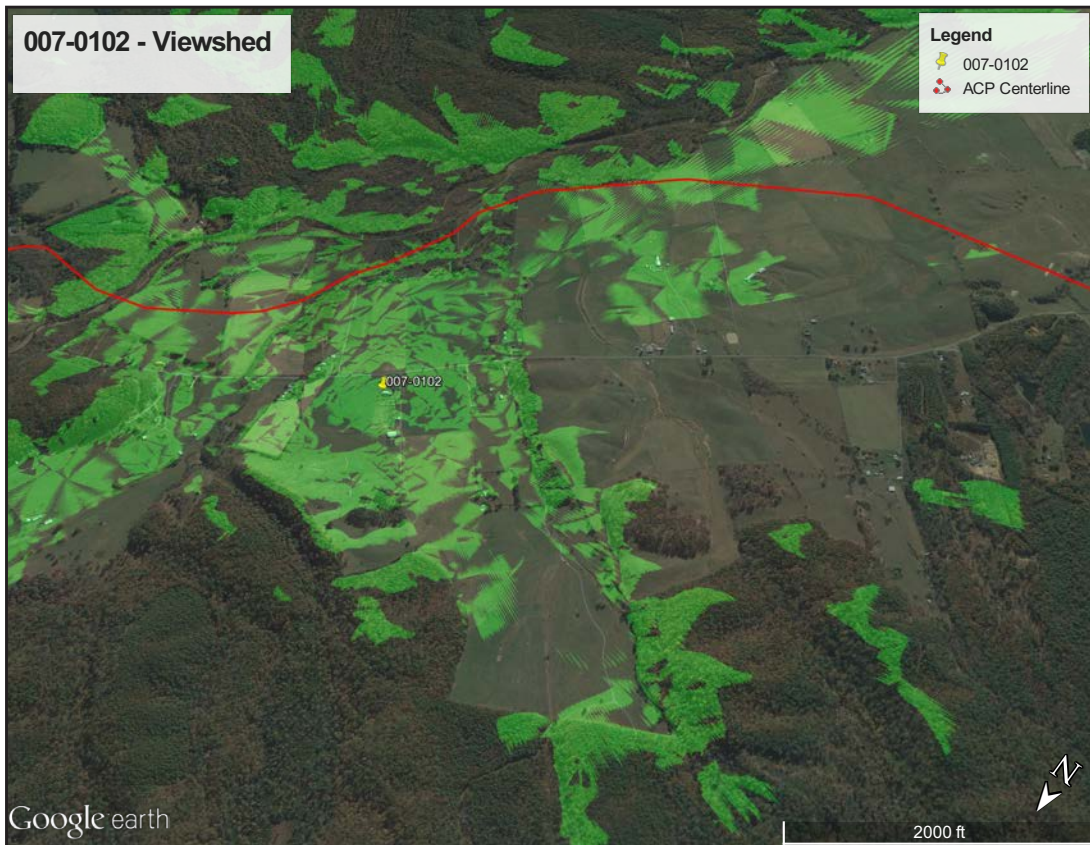


Figure 20. 007-0102 - Viewshed.

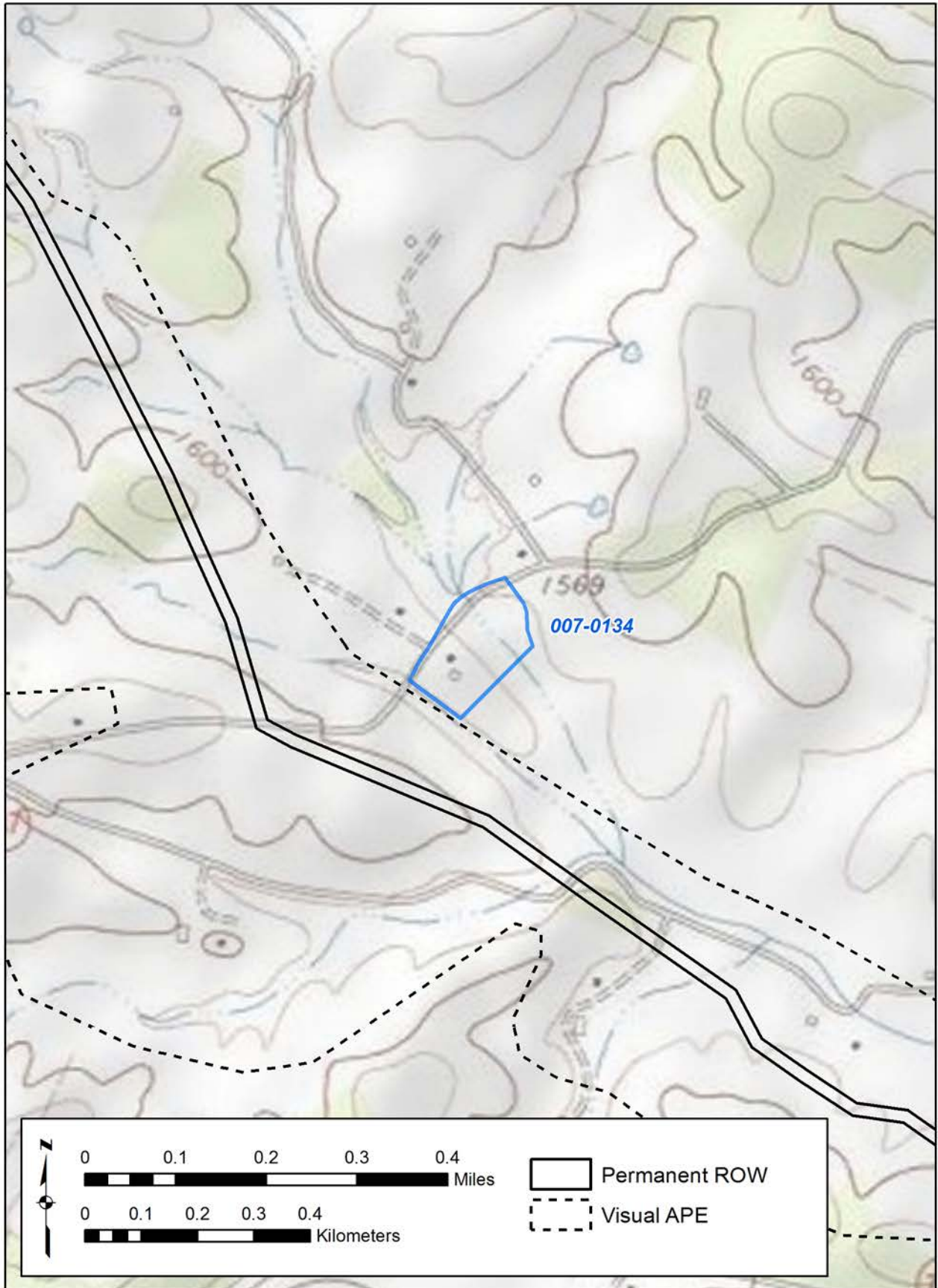


Figure 21. 007-0134 - USGS Quadrangle.



Figure 22. 007-0134 - Aerial.

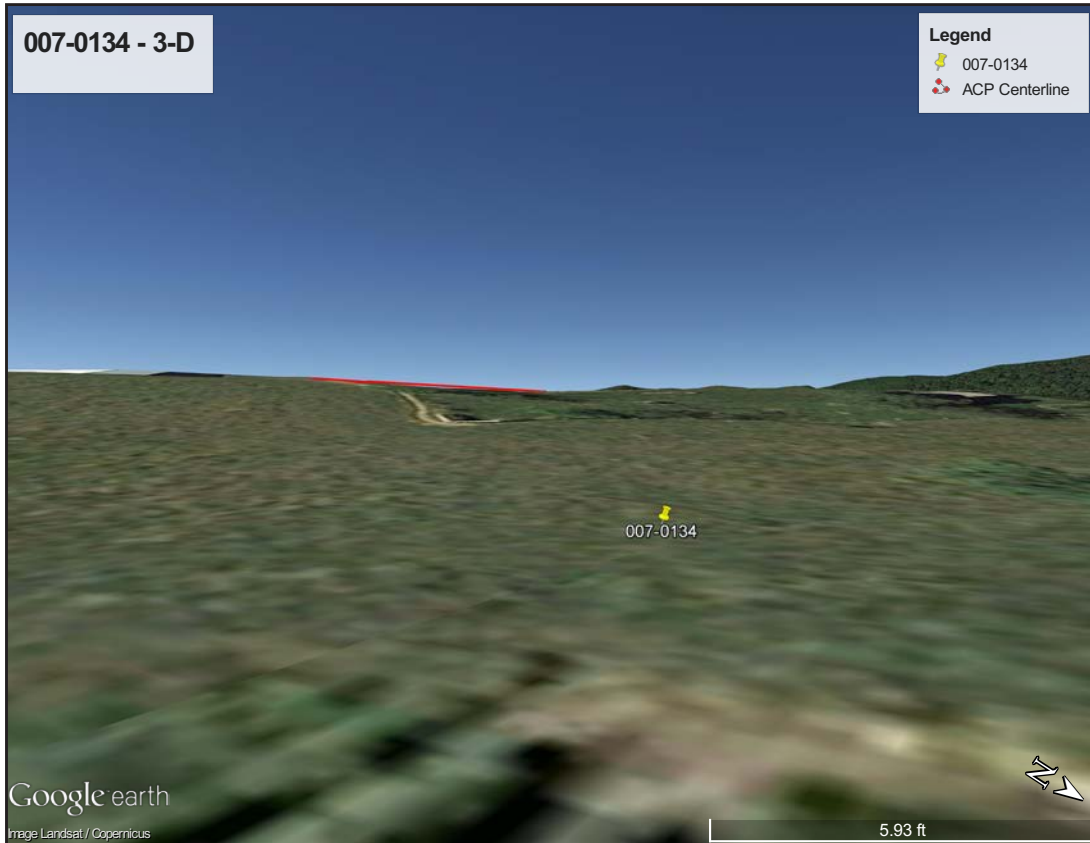


Figure 23. 007-0134 - 3-D View.

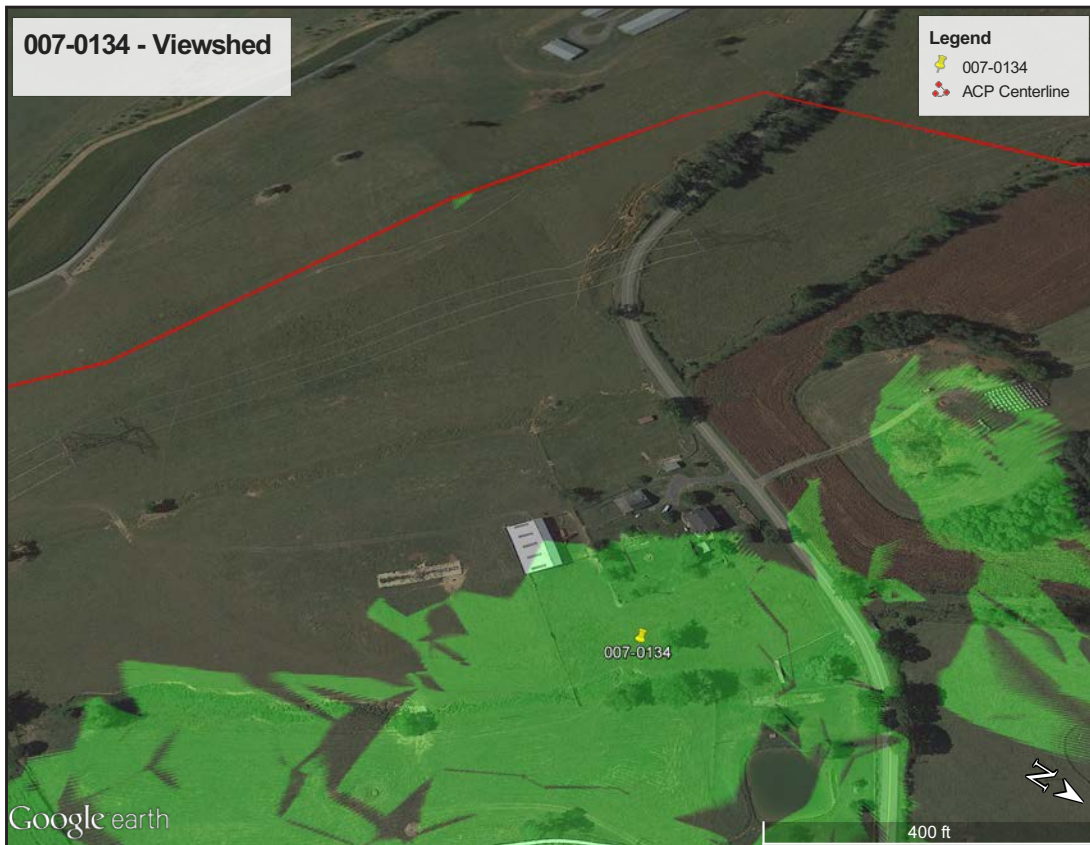


Figure 24. 007-0134 - Viewshed.

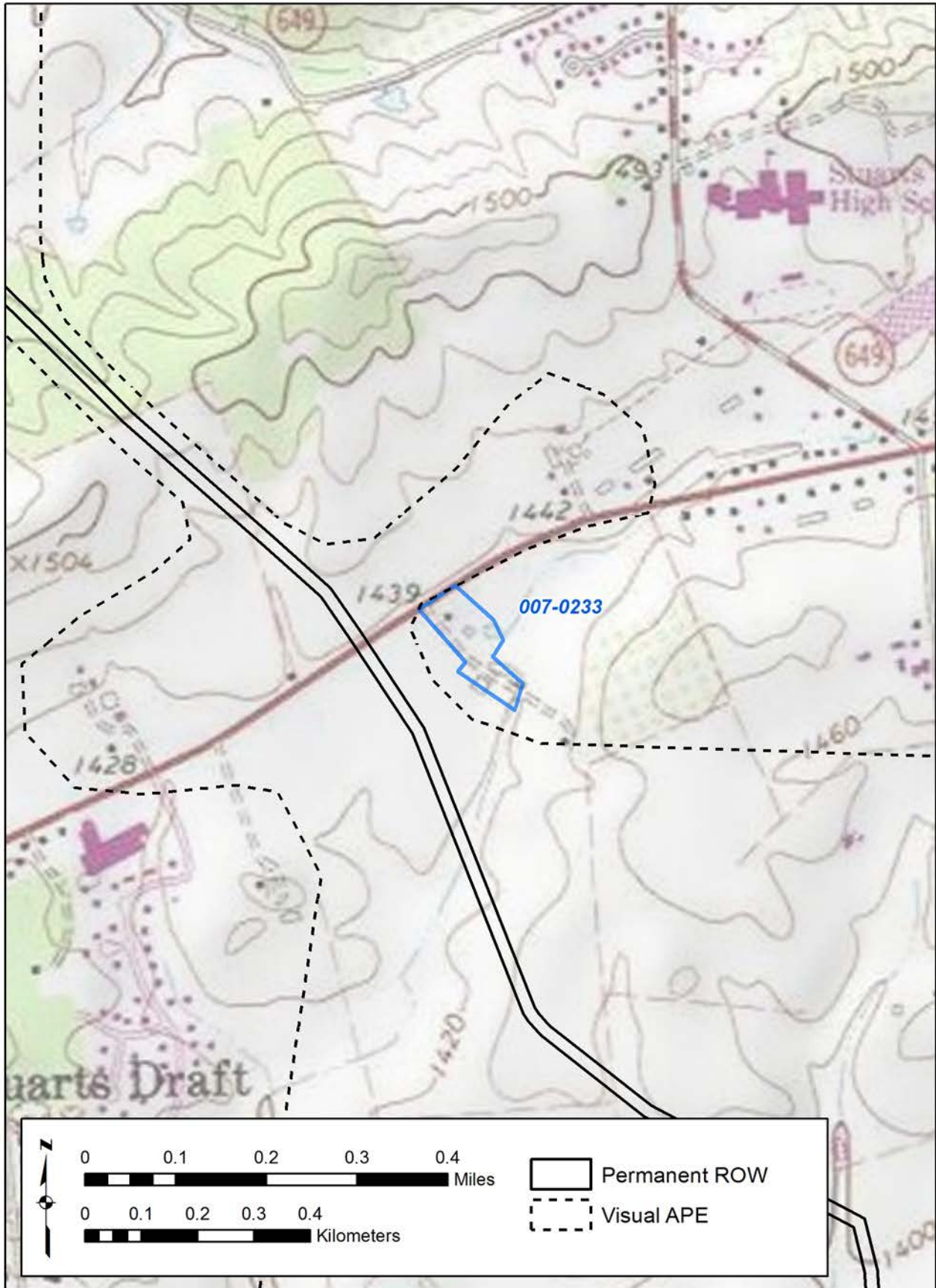


Figure 25. 007-0233 - USGS Quadrangle.

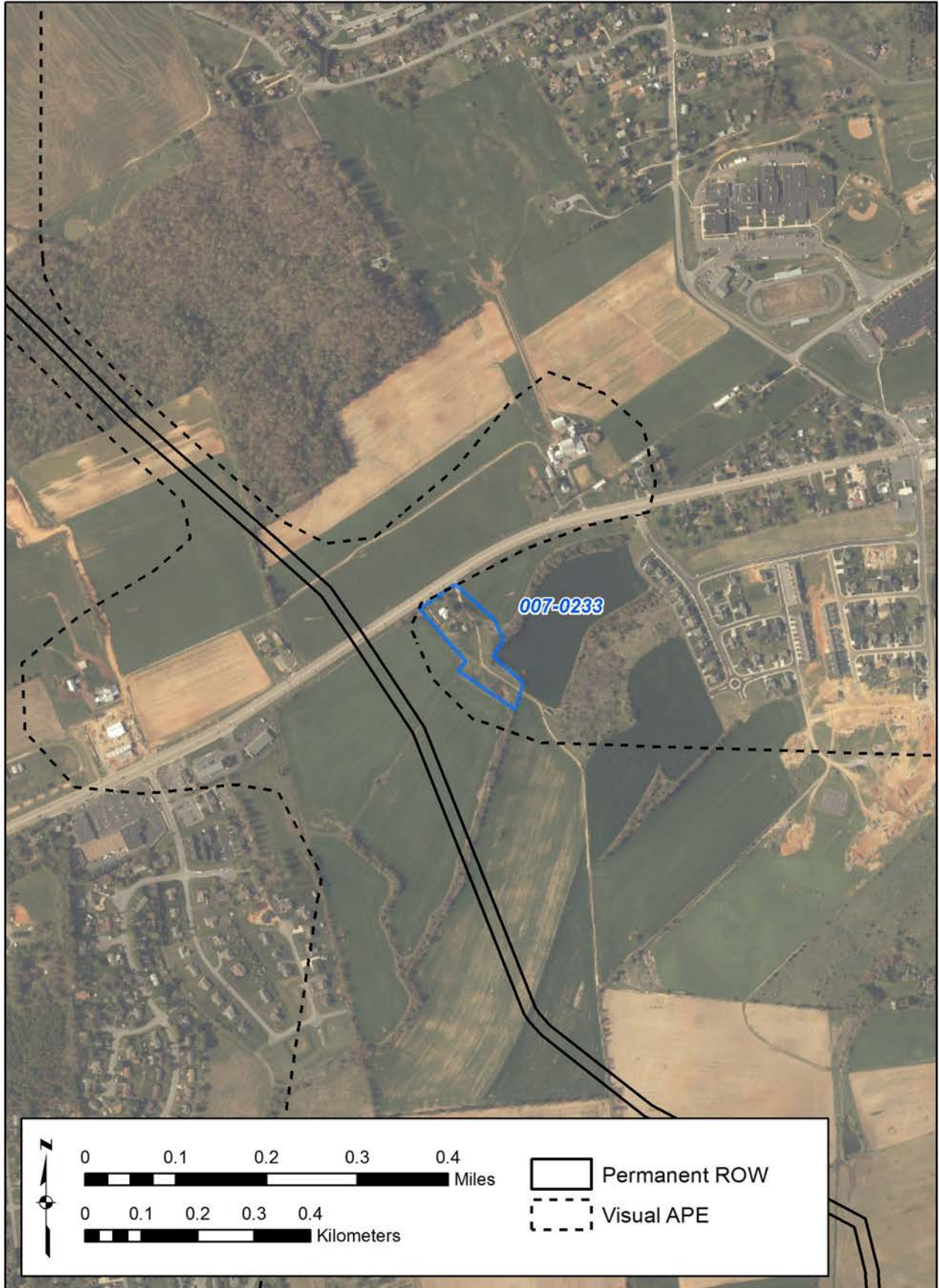


Figure 26. 007-0233 - Aerial.

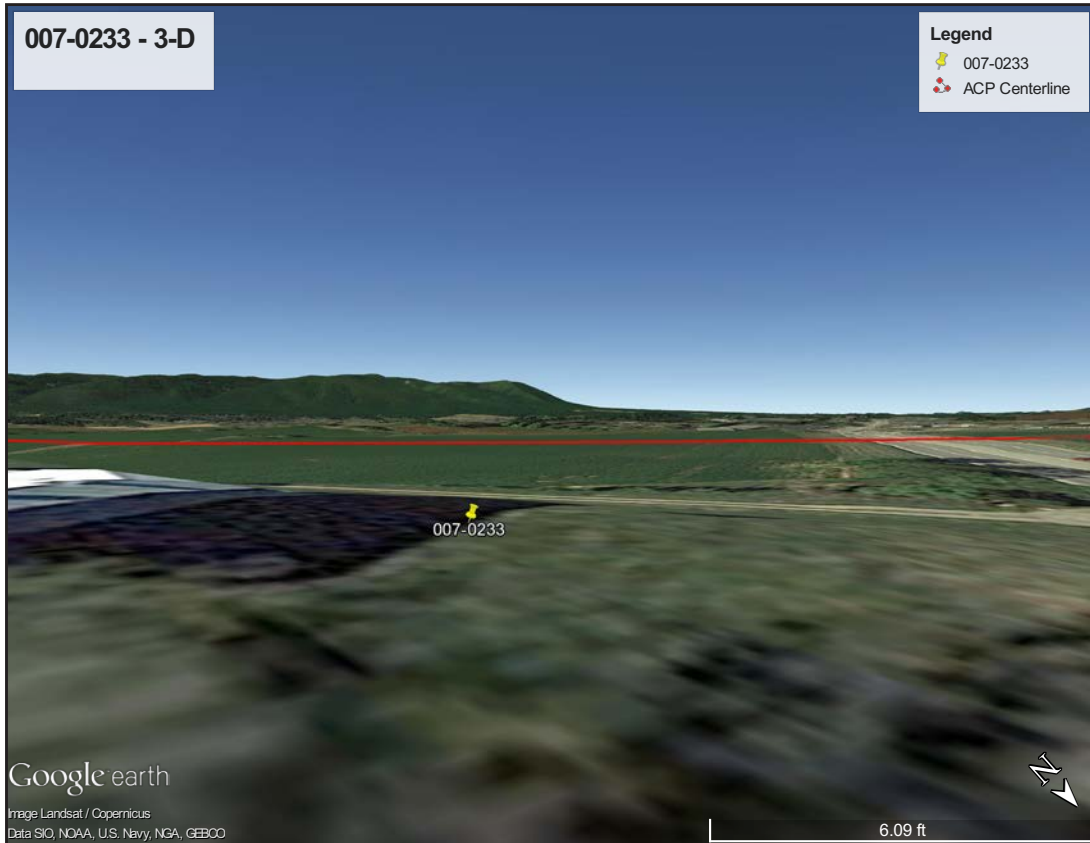


Figure 27. 007-0233 - 3-D View.



Figure 28. 007-0233 - Viewshed.

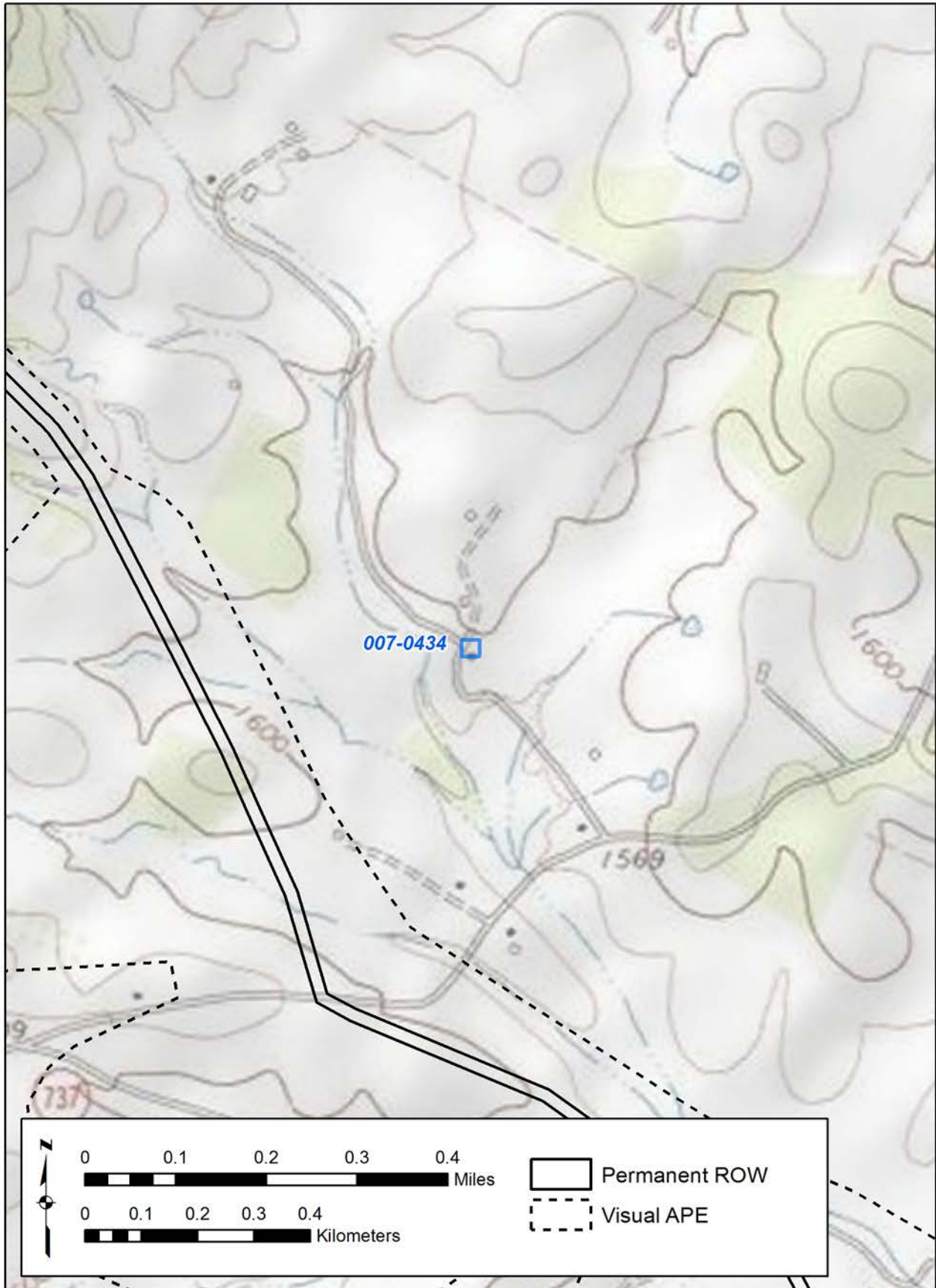


Figure 29. 007-0434 - USGS Quadrangle.

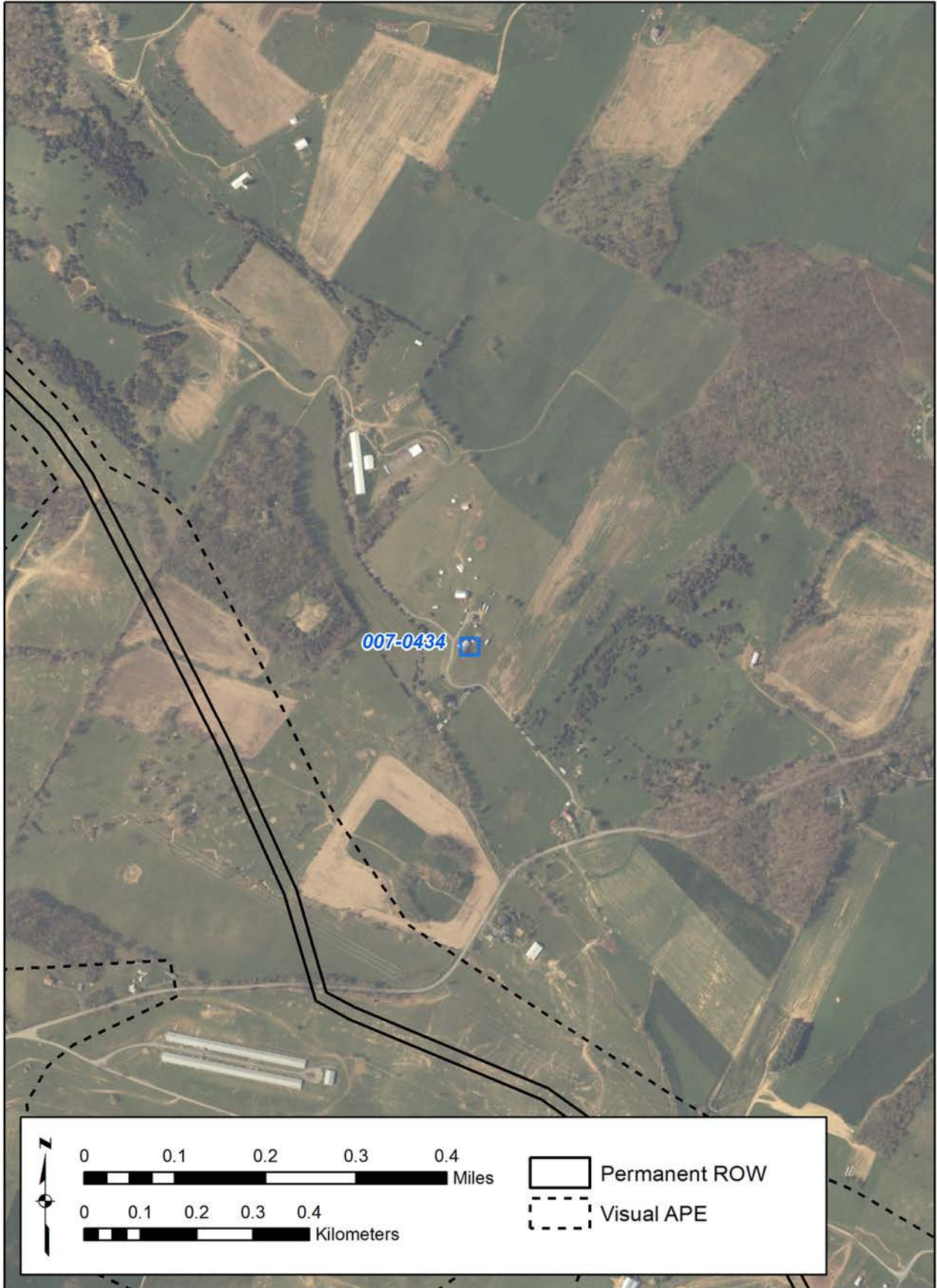


Figure 30. 007-0434 - Aerial.



Figure 31. 007-0434 - 3-D View.

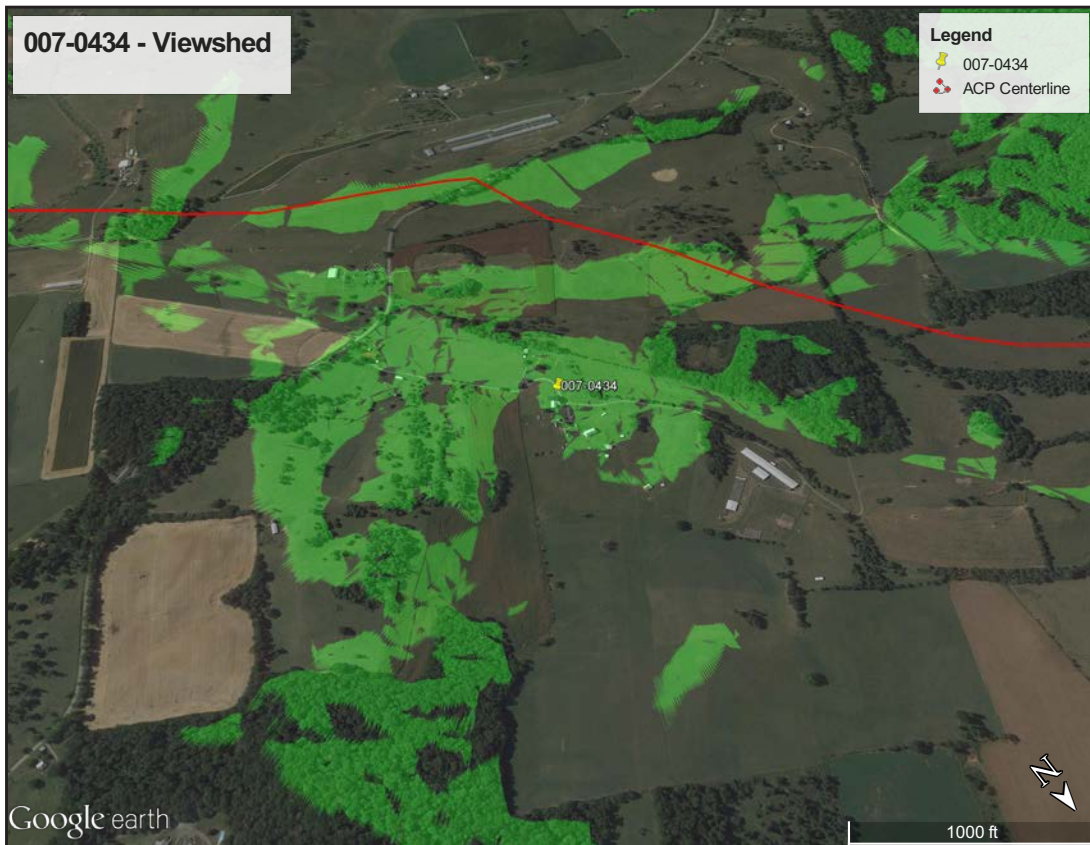


Figure 32. 007-0434 - Viewshed.

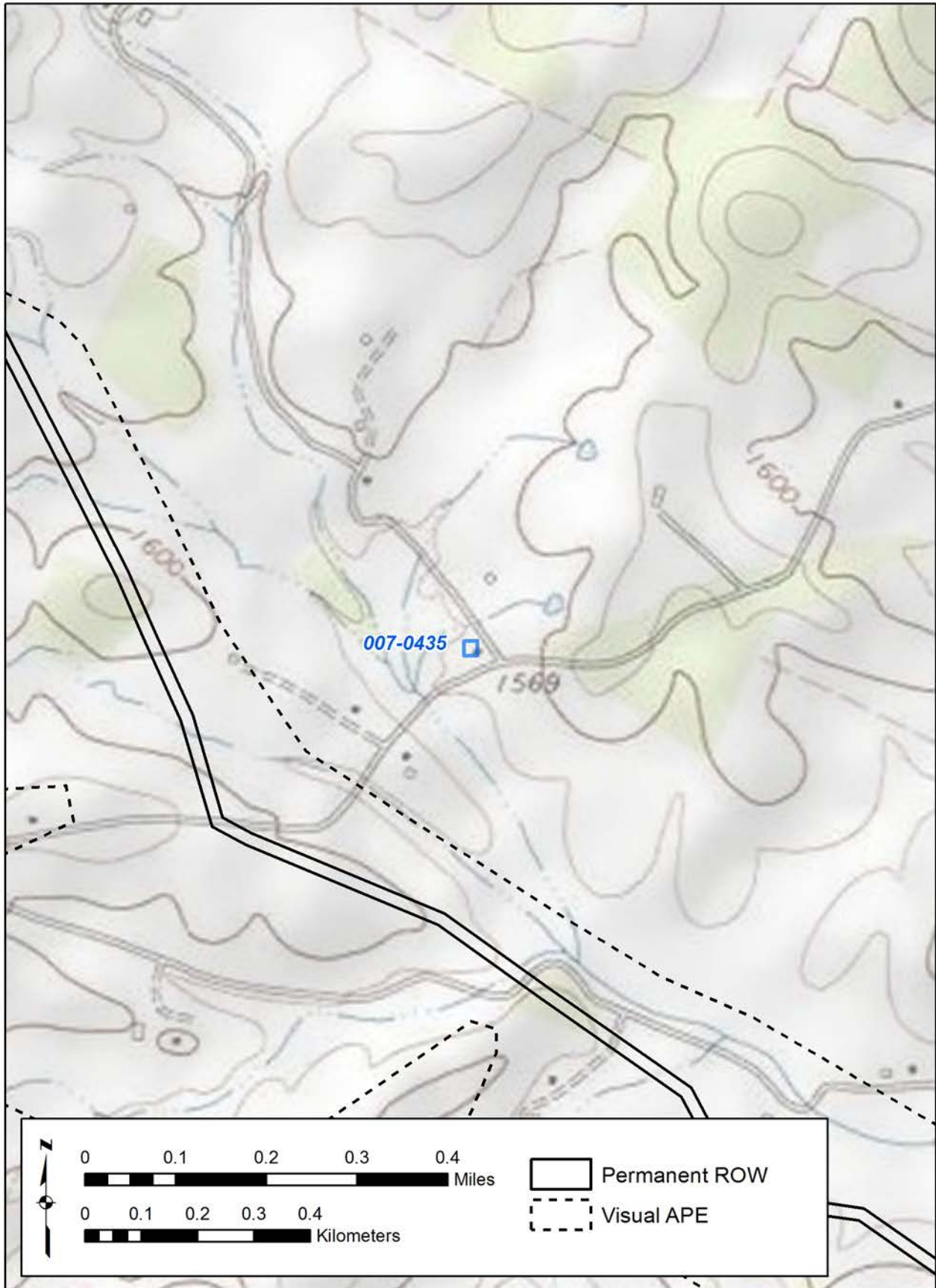


Figure 33. 007-0435 - USGS Quadrangle.



Figure 34. 007-0435 - Aerial.

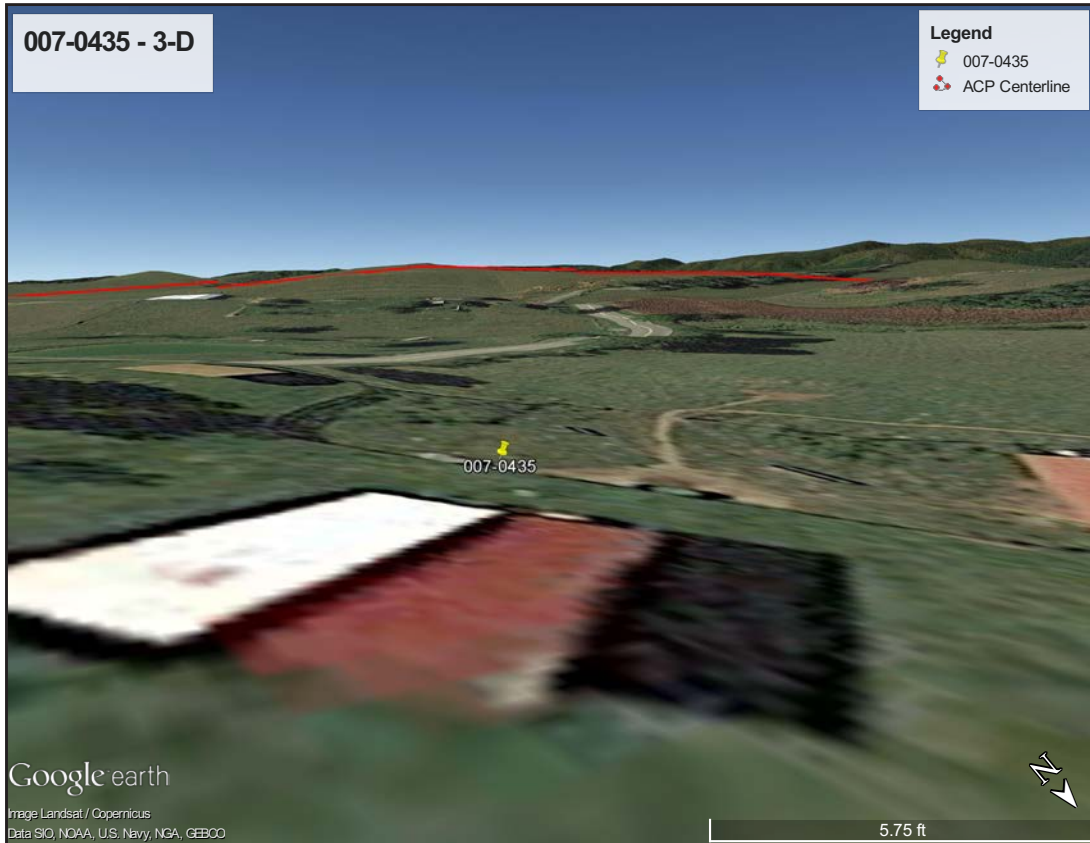


Figure 35. 007-0435 - 3-D View.

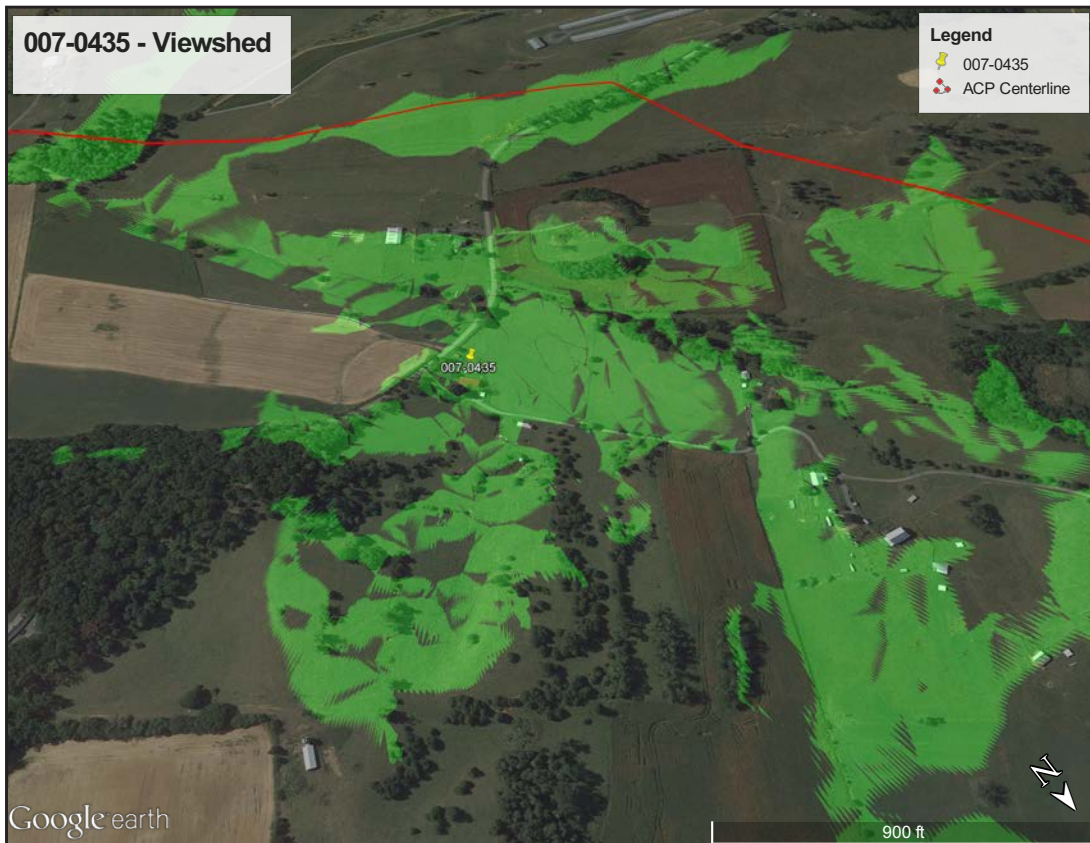


Figure 36. 007-0435 - Viewshed.

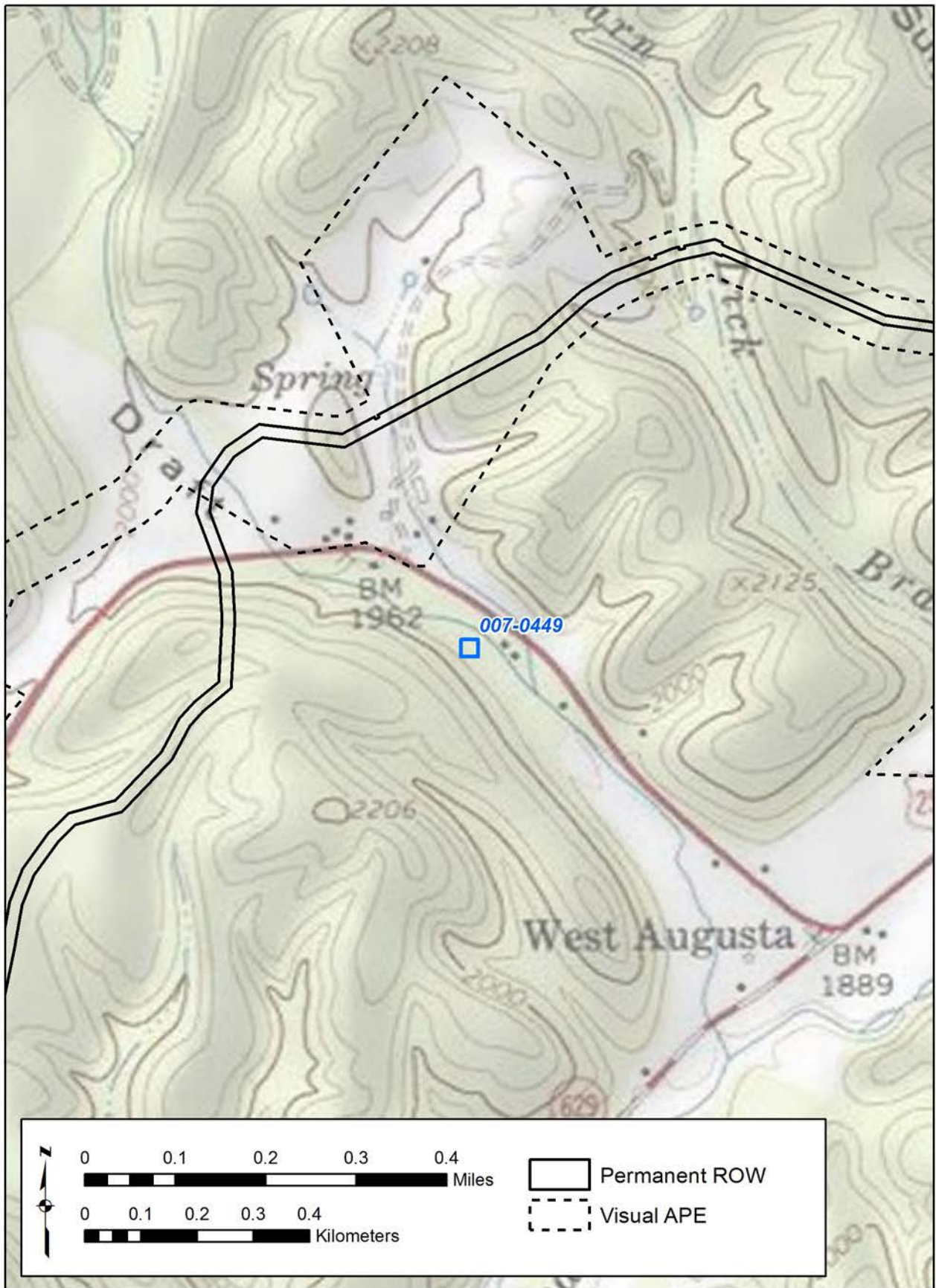


Figure 37. 007-0449 - USGS Quadrangle.



Figure 38. 007-0449 - Aerial.



Figure 39. 007-0449 - 3-D View.

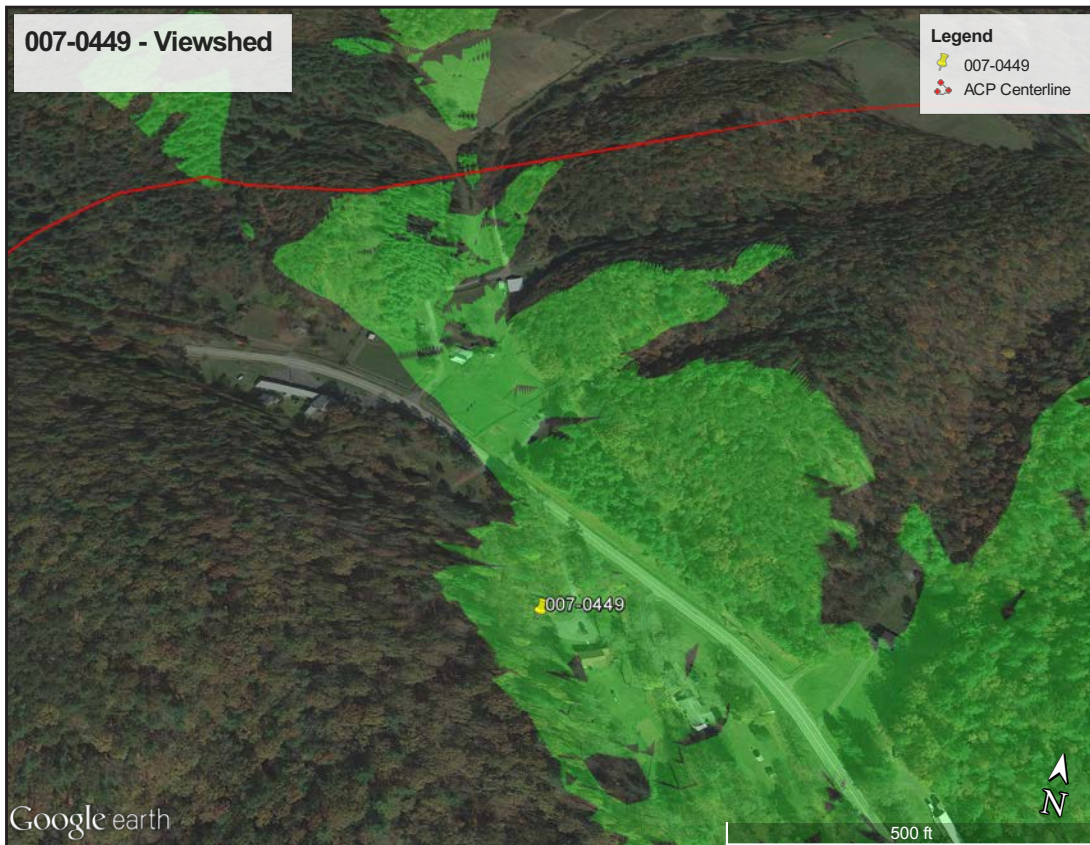


Figure 40. 007-0449 - Viewshed.

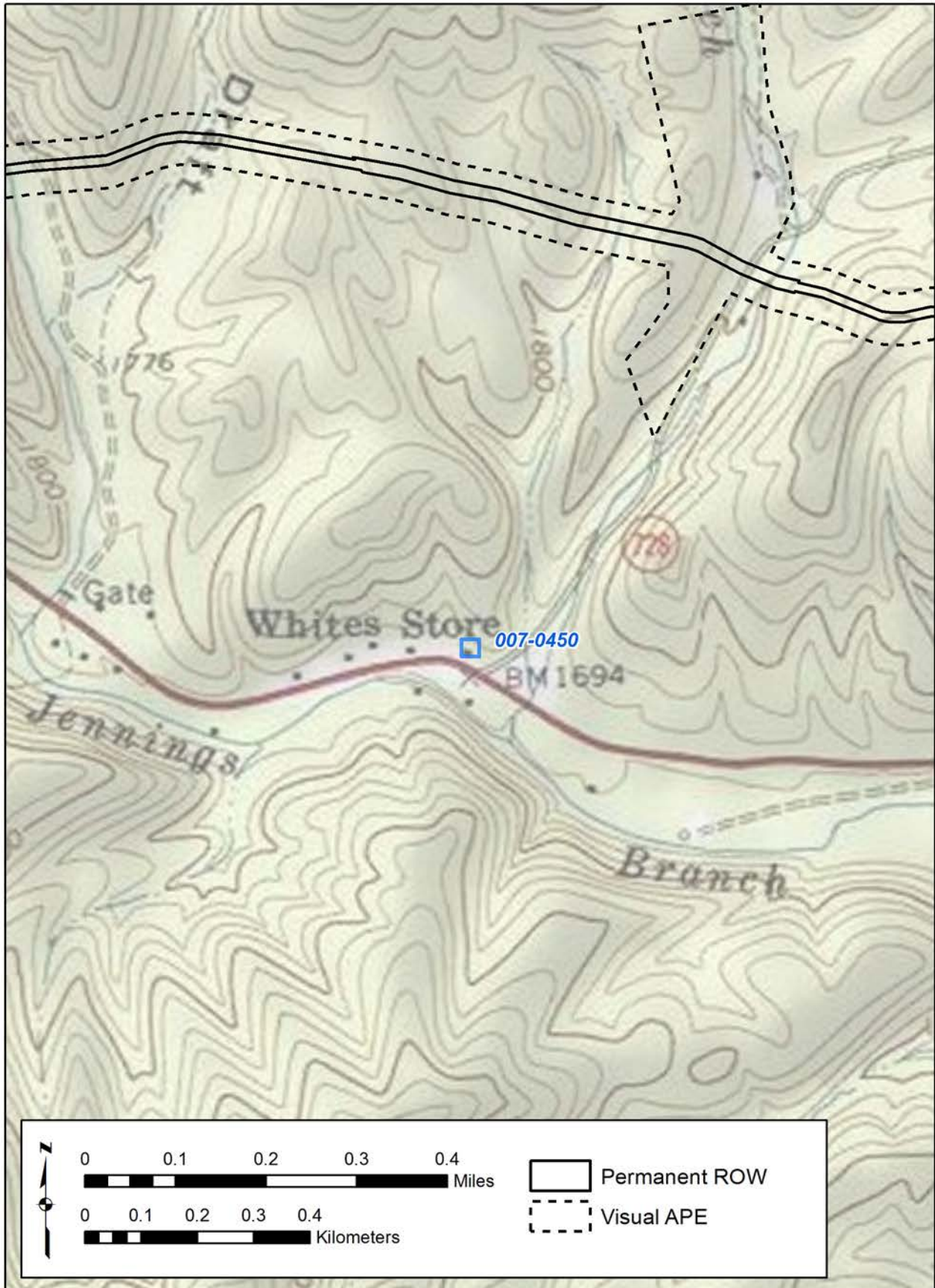


Figure 41. 007-0450 - USGS Quadrangle.

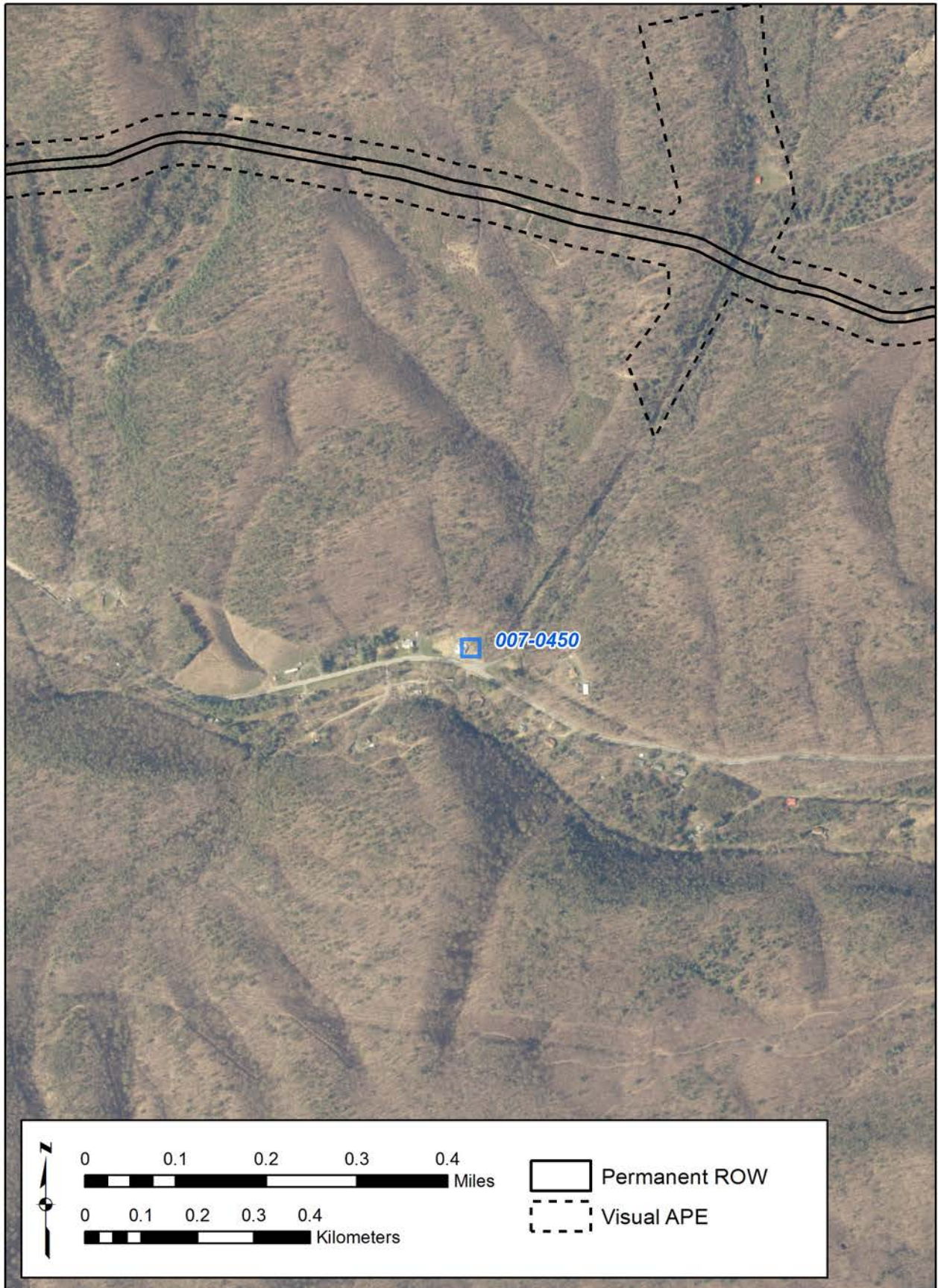


Figure 42. 007-0450 - Aerial.



Figure 43. 007-0450 - 3-D View.

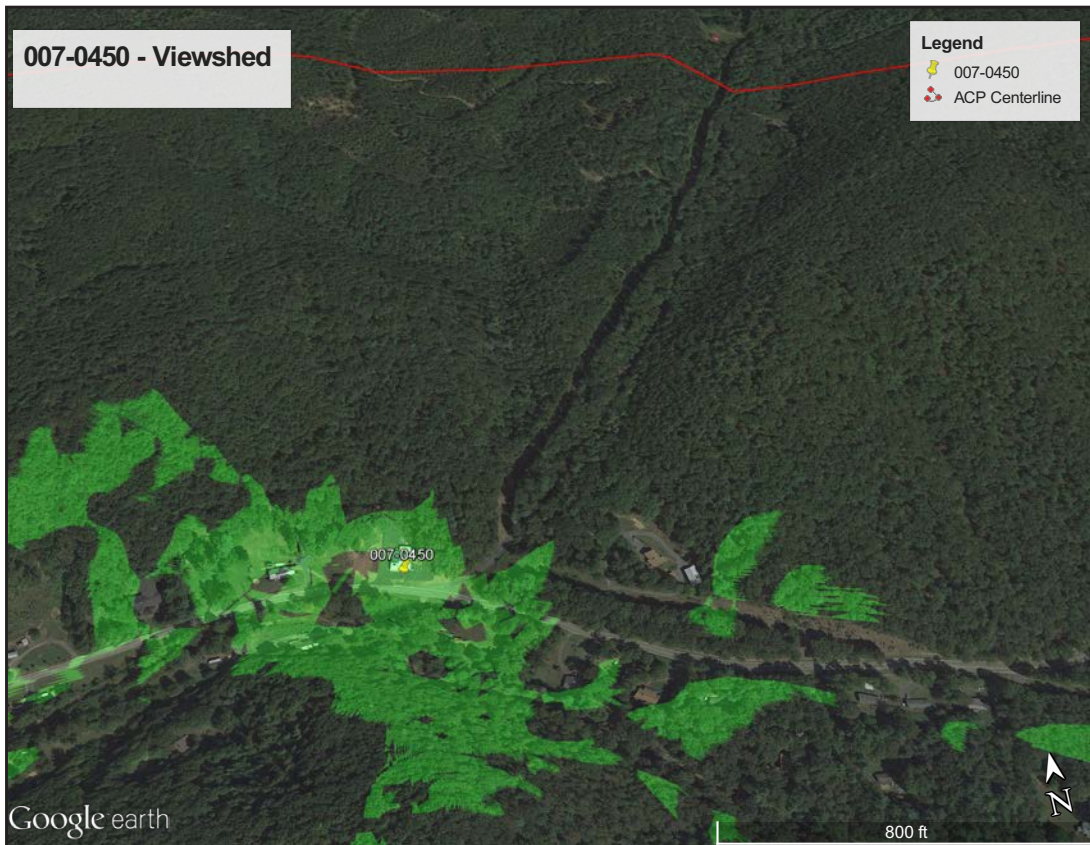


Figure 44. 007-0450 - Viewshed.

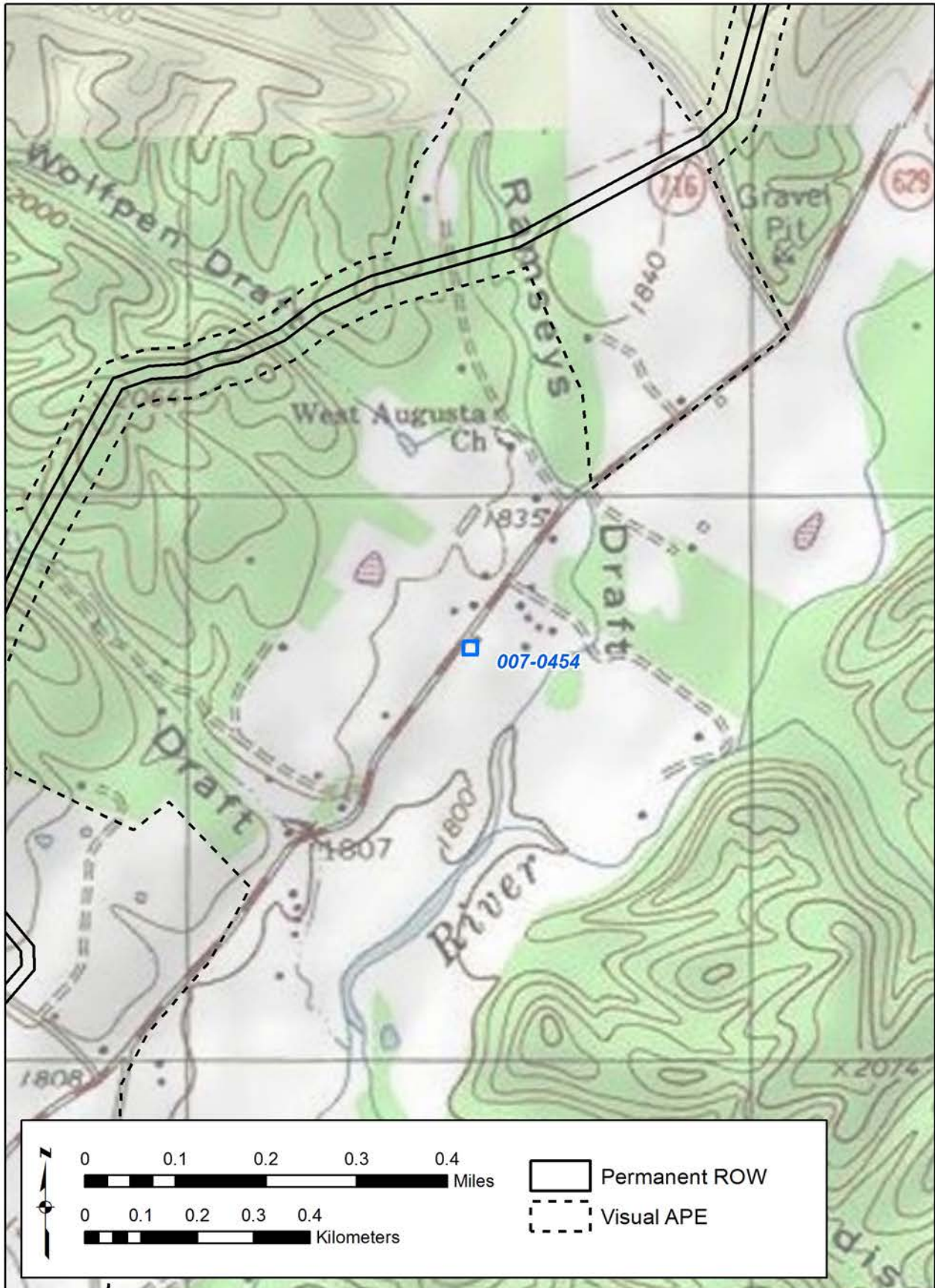


Figure 45. 007-0454 - USGS Quadrangle.



Figure 46. 007-0454 - Aerial.



Figure 47. 007-0454 - 3-D View.

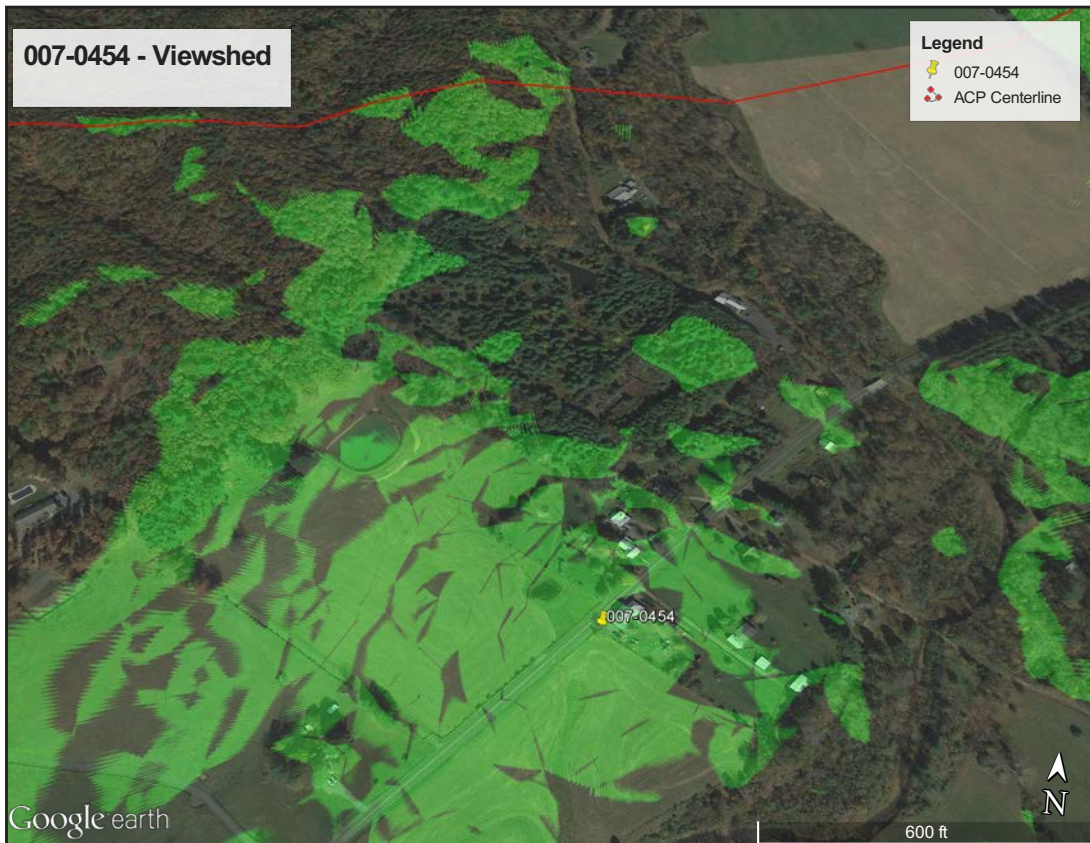


Figure 48. 007-0454 - Viewshed.

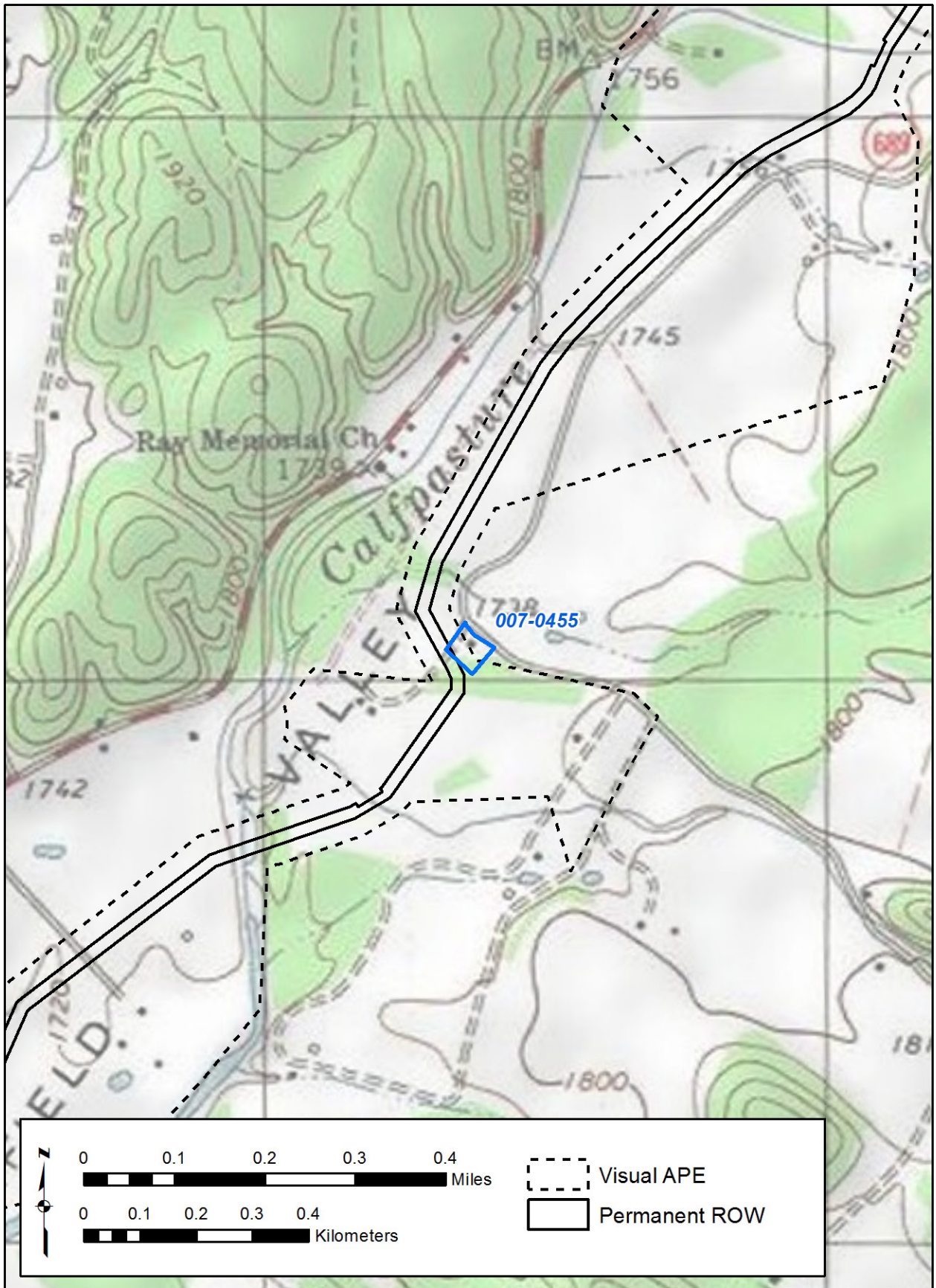


Figure 49. 007-0455 - USGS Quadrangle.

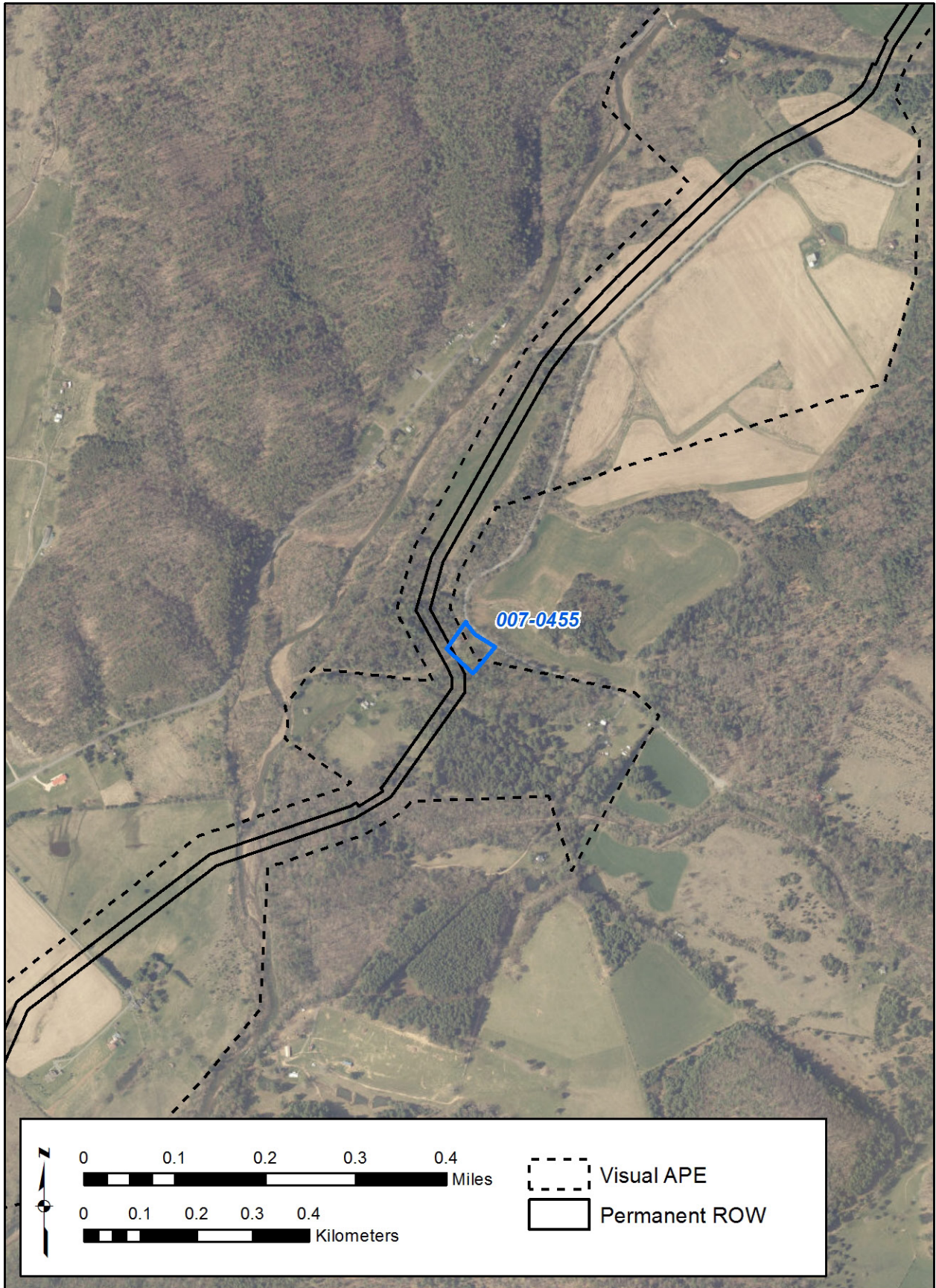


Figure 50. 007-0455 - Aerial.



Figure 51. 007-0455 - 3-D View.

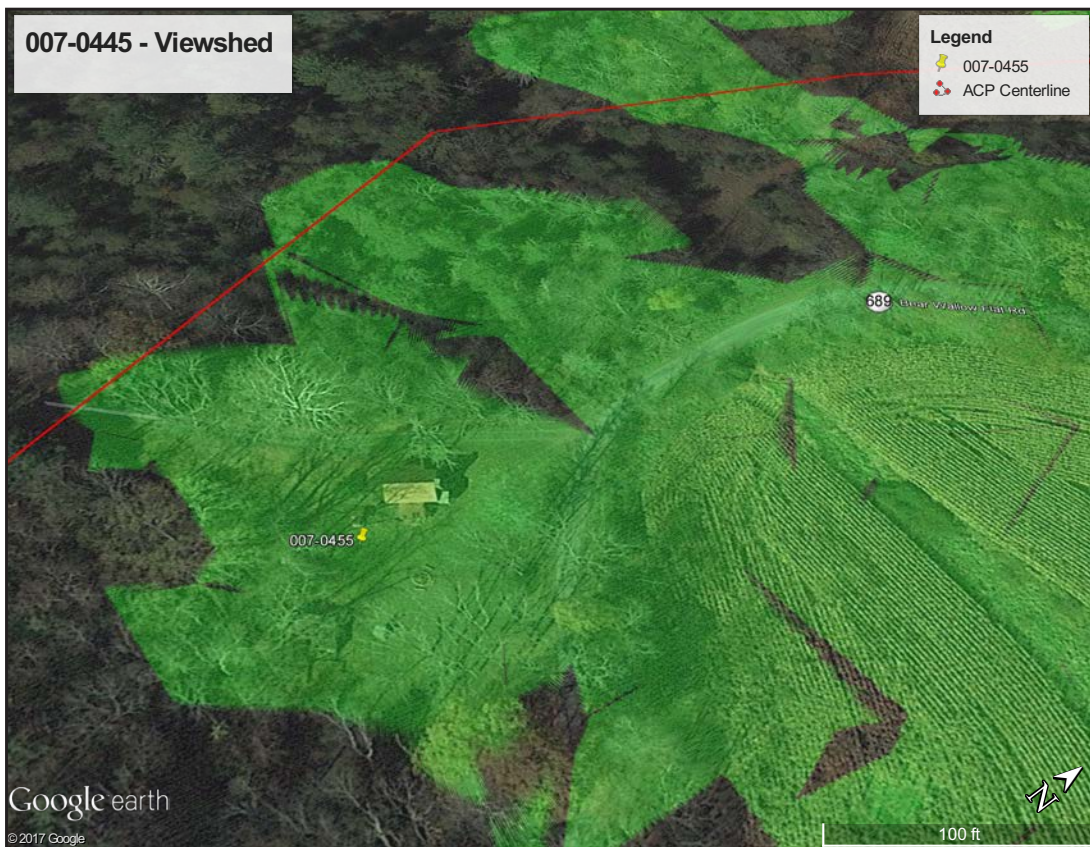


Figure 52. 007-0455 - Viewshed.



Figure 53. 007-0456 - USGS Quadrangle.

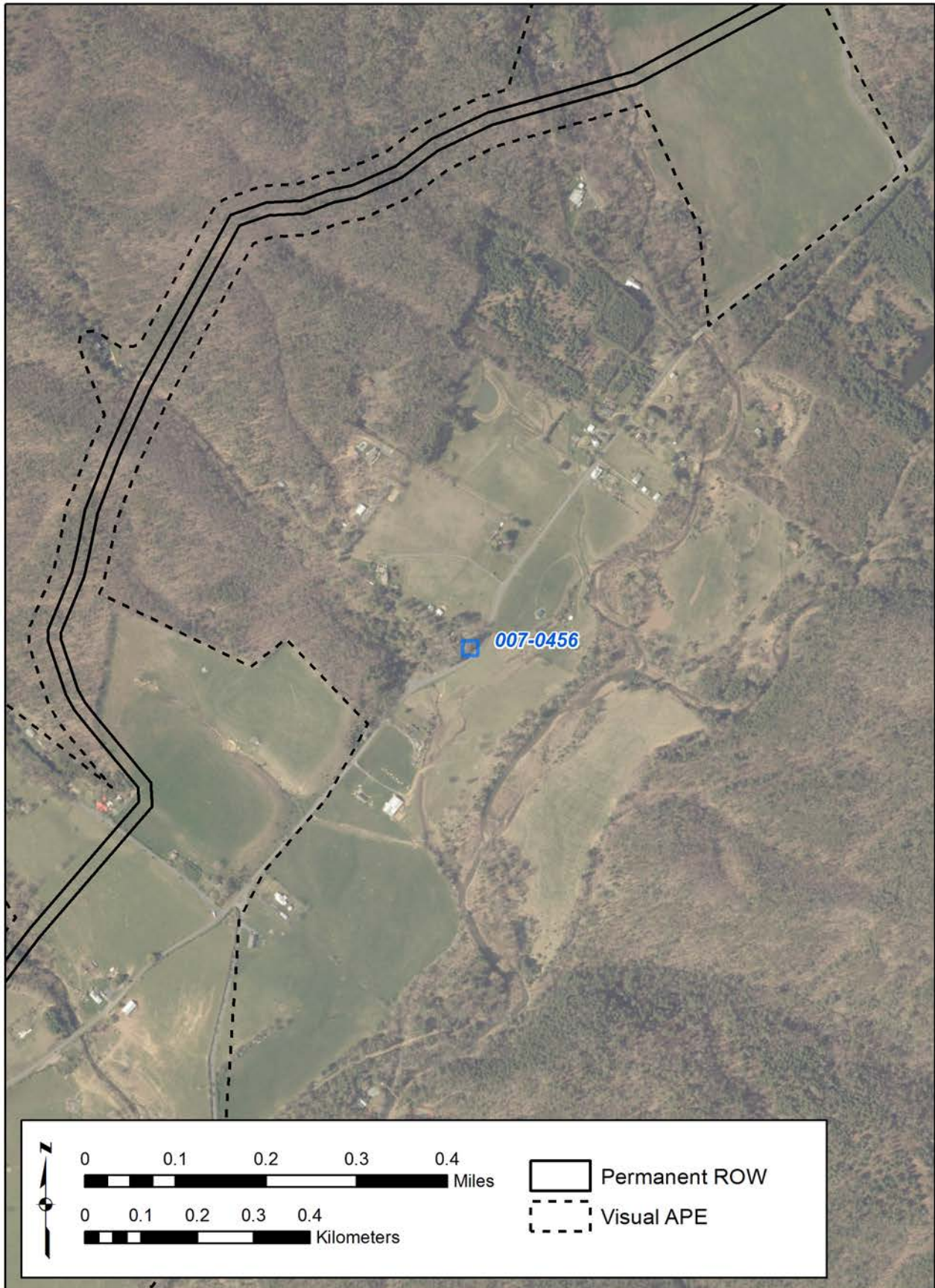


Figure 54. 007-0456 - Aerial.



Figure 55. 007-0456 - 3-D View.

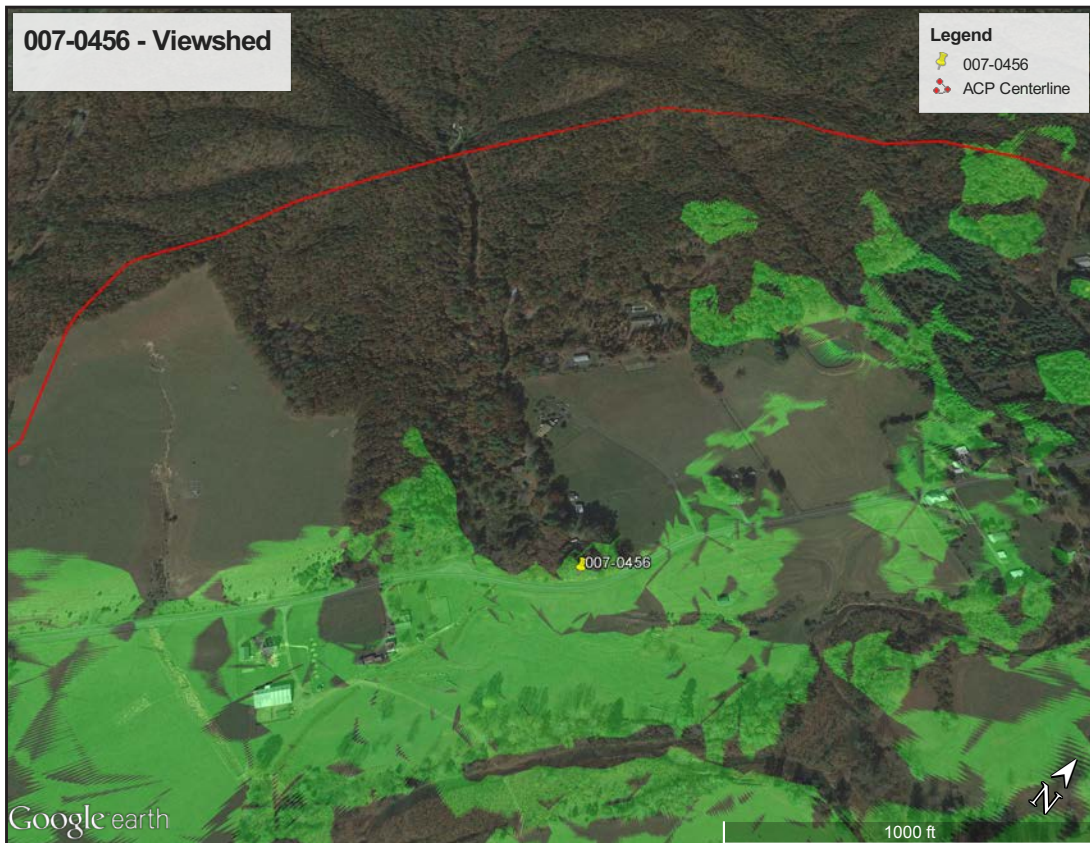


Figure 56. 007-0456 - Viewshed.



Figure 57. 007-0460 - USGS Quadrangle.

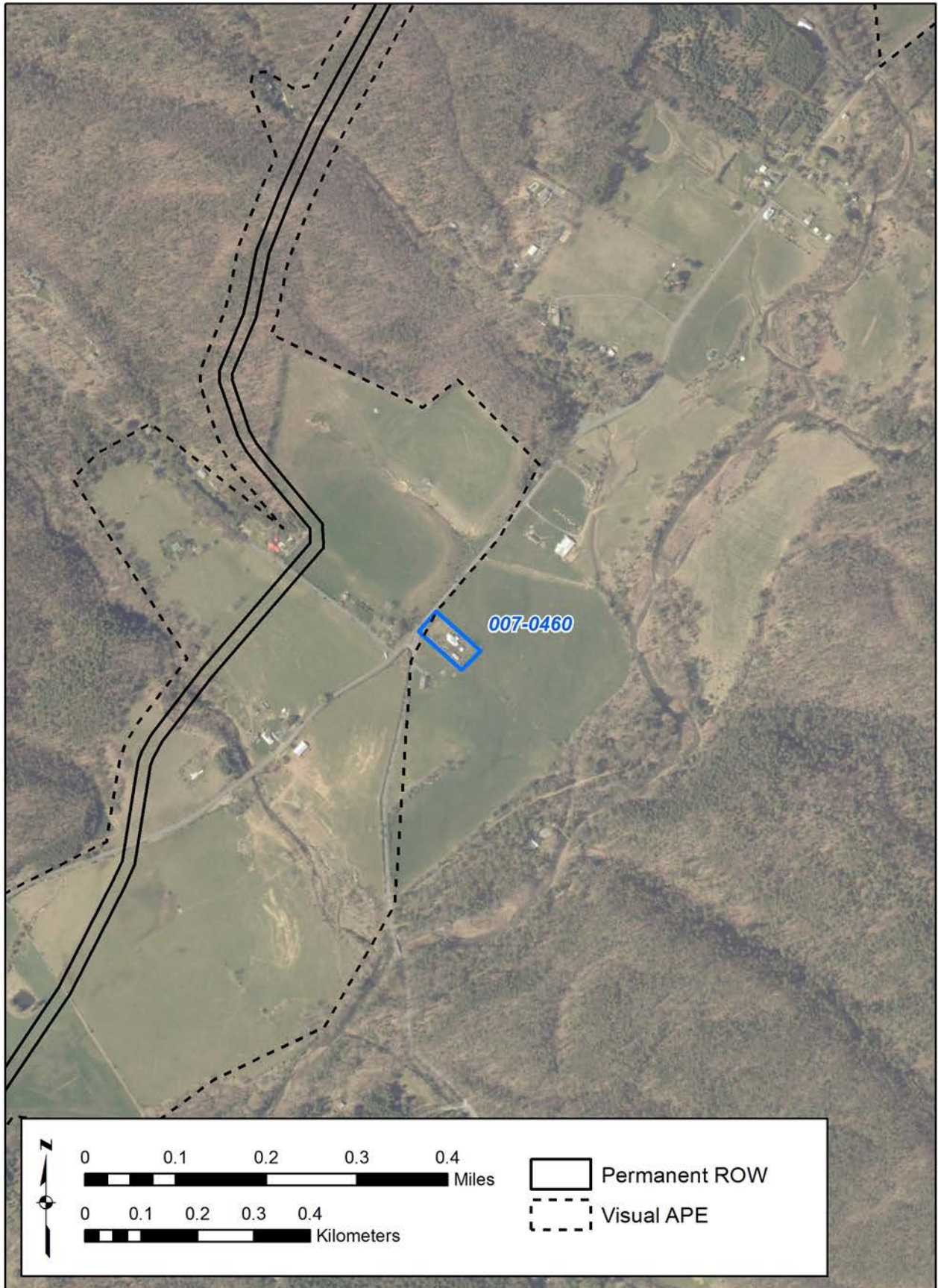


Figure 58. 007-0460 - Aerial.



Figure 59. 007-0460 - 3-D View.

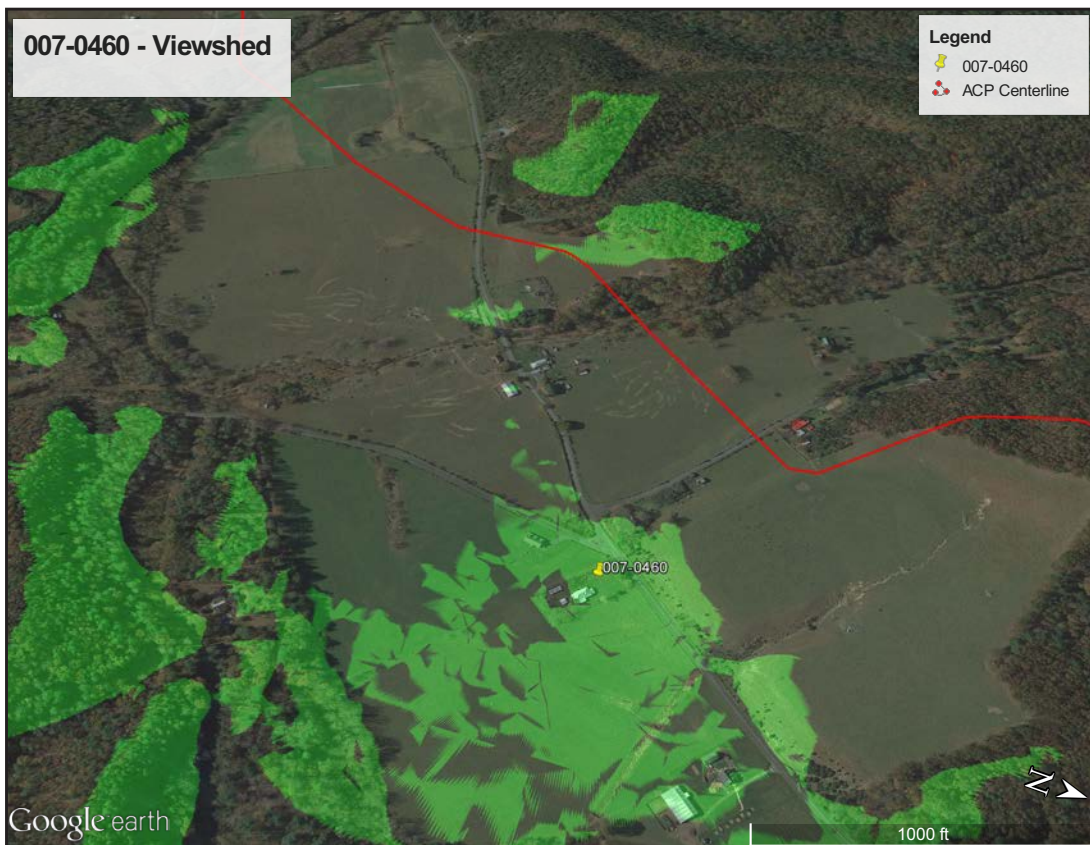


Figure 60. 007-0460 - Viewshed.

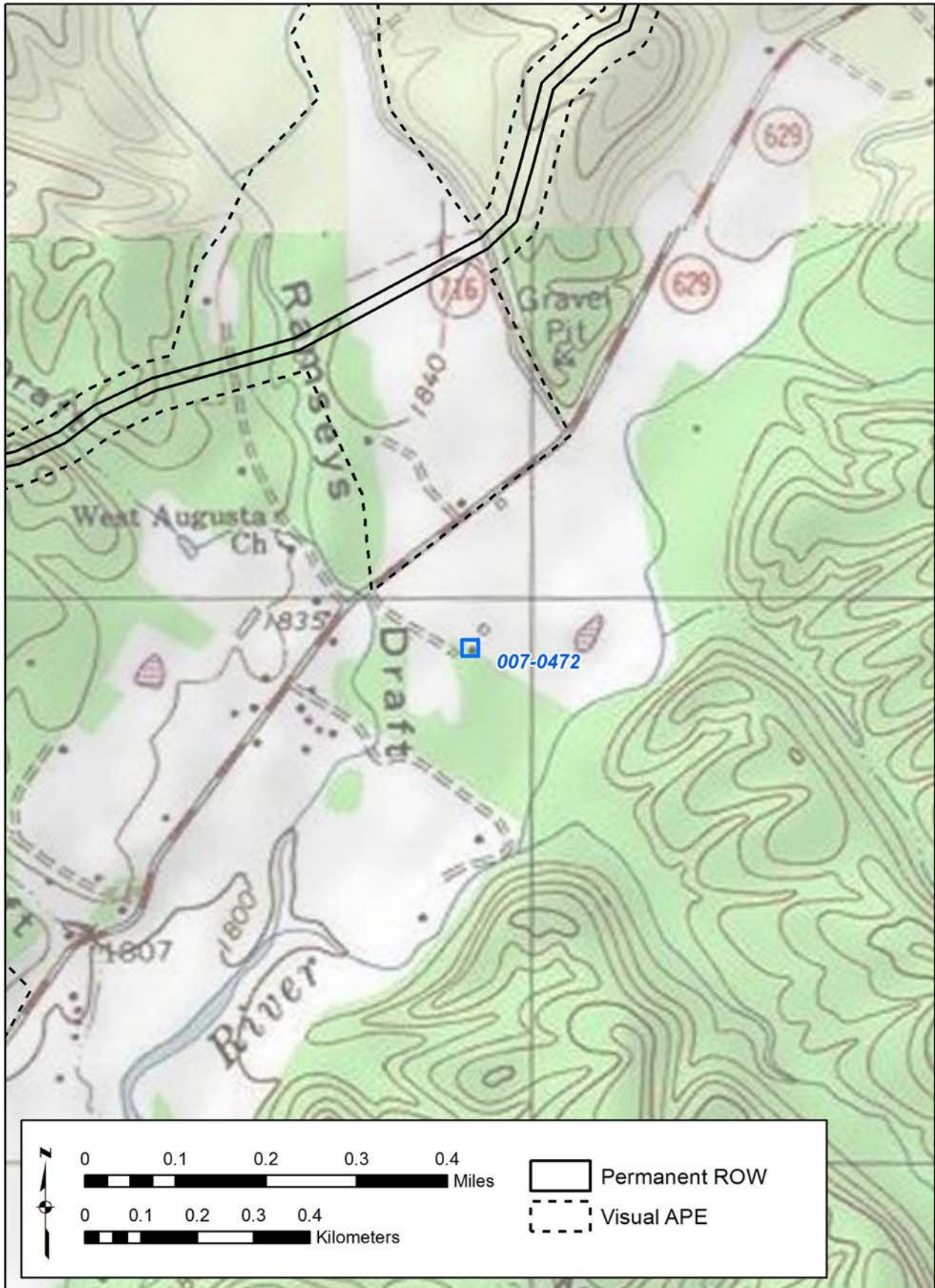


Figure 61. 007-0472 - USGS Quadrangle.

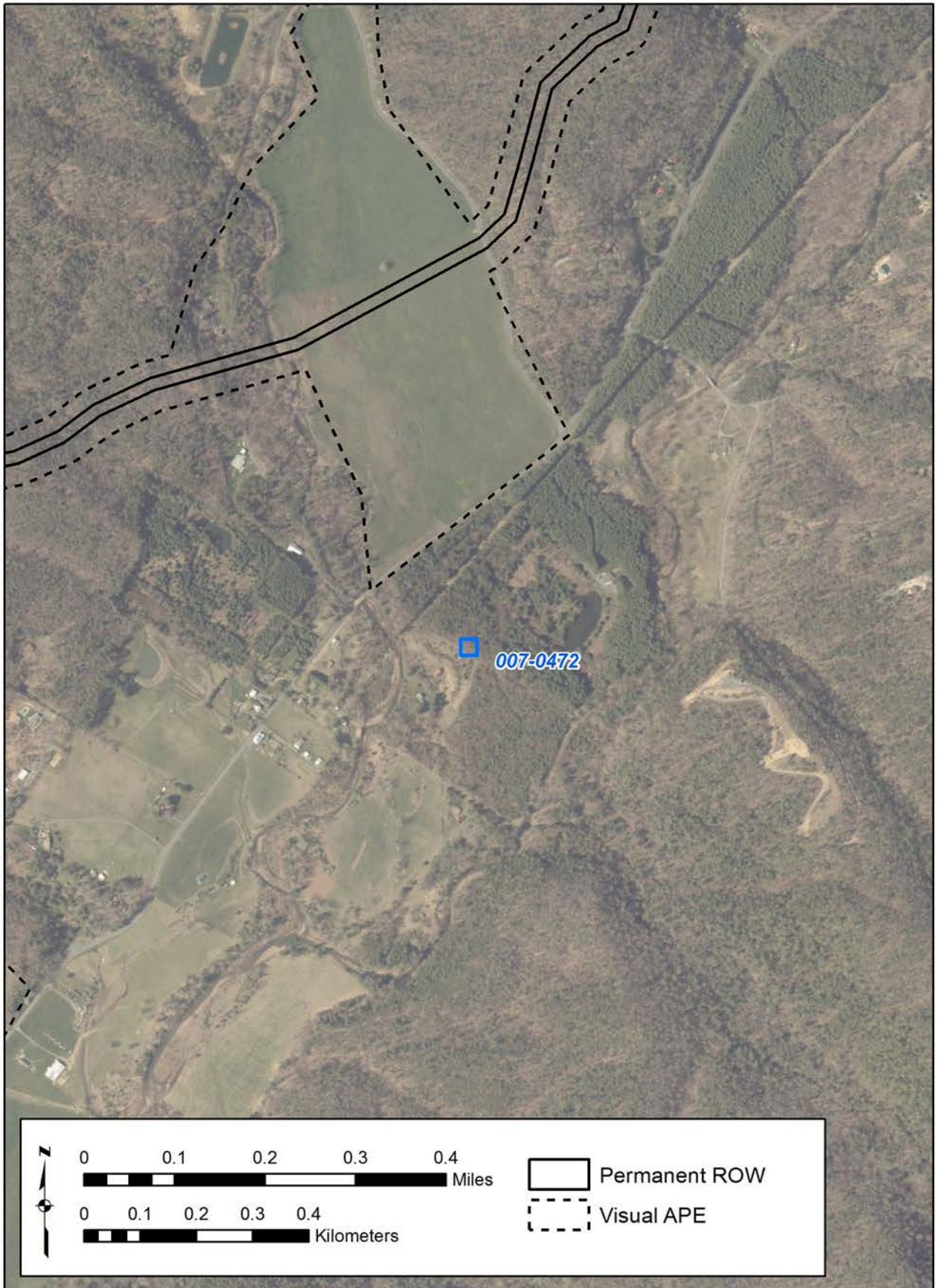


Figure 62. 007-0472 - Aerial.

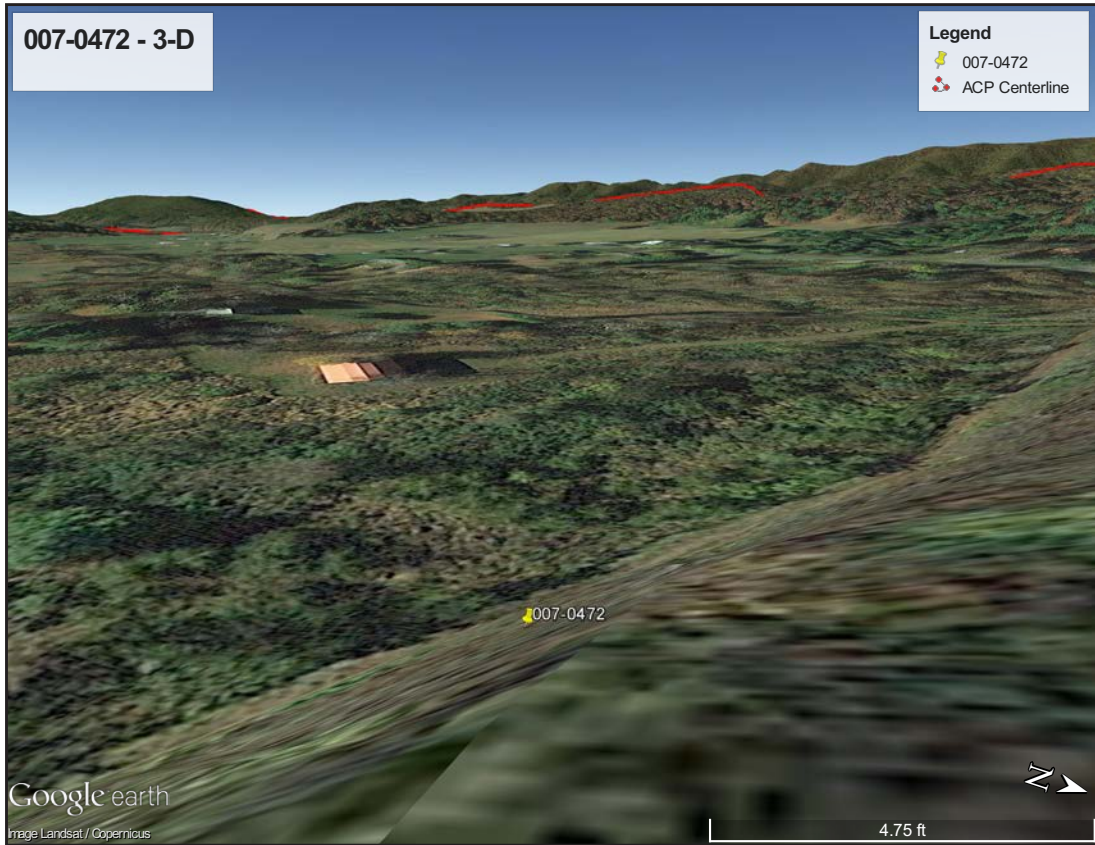


Figure 63. 007-0472 - 3-D View.

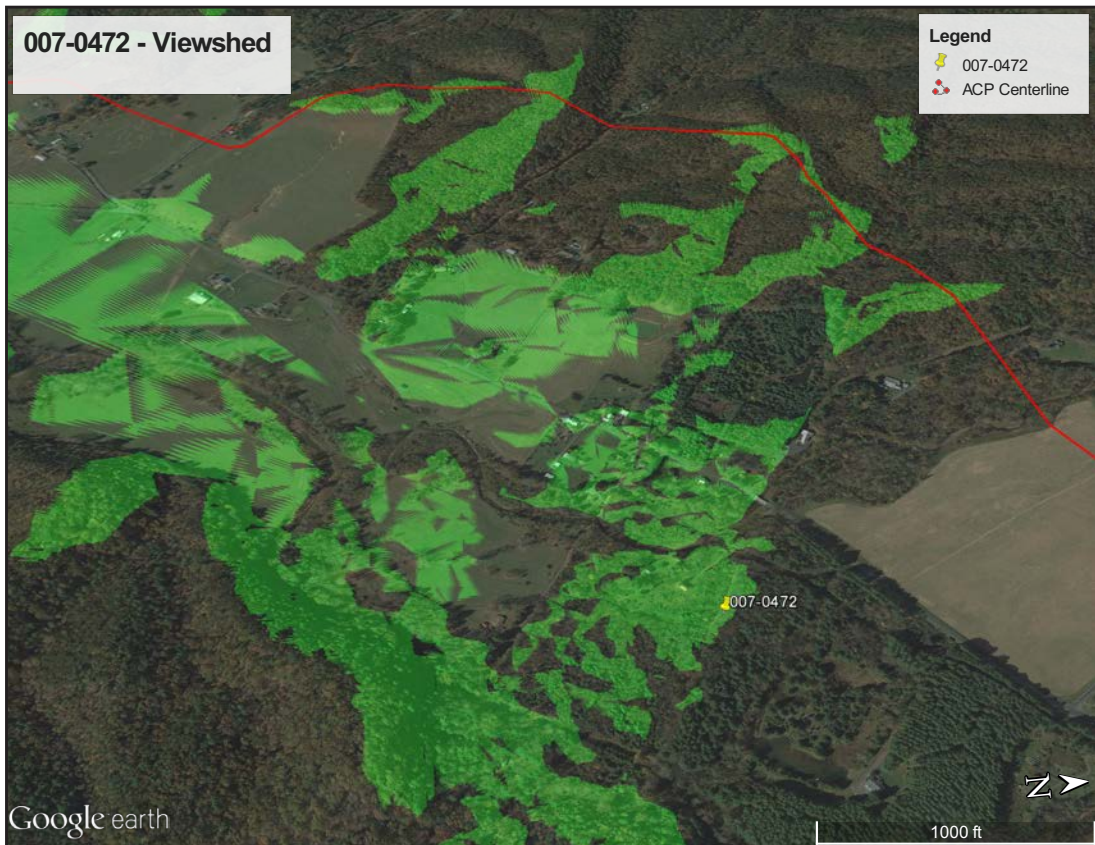


Figure 64. 007-0472 - Viewshed.

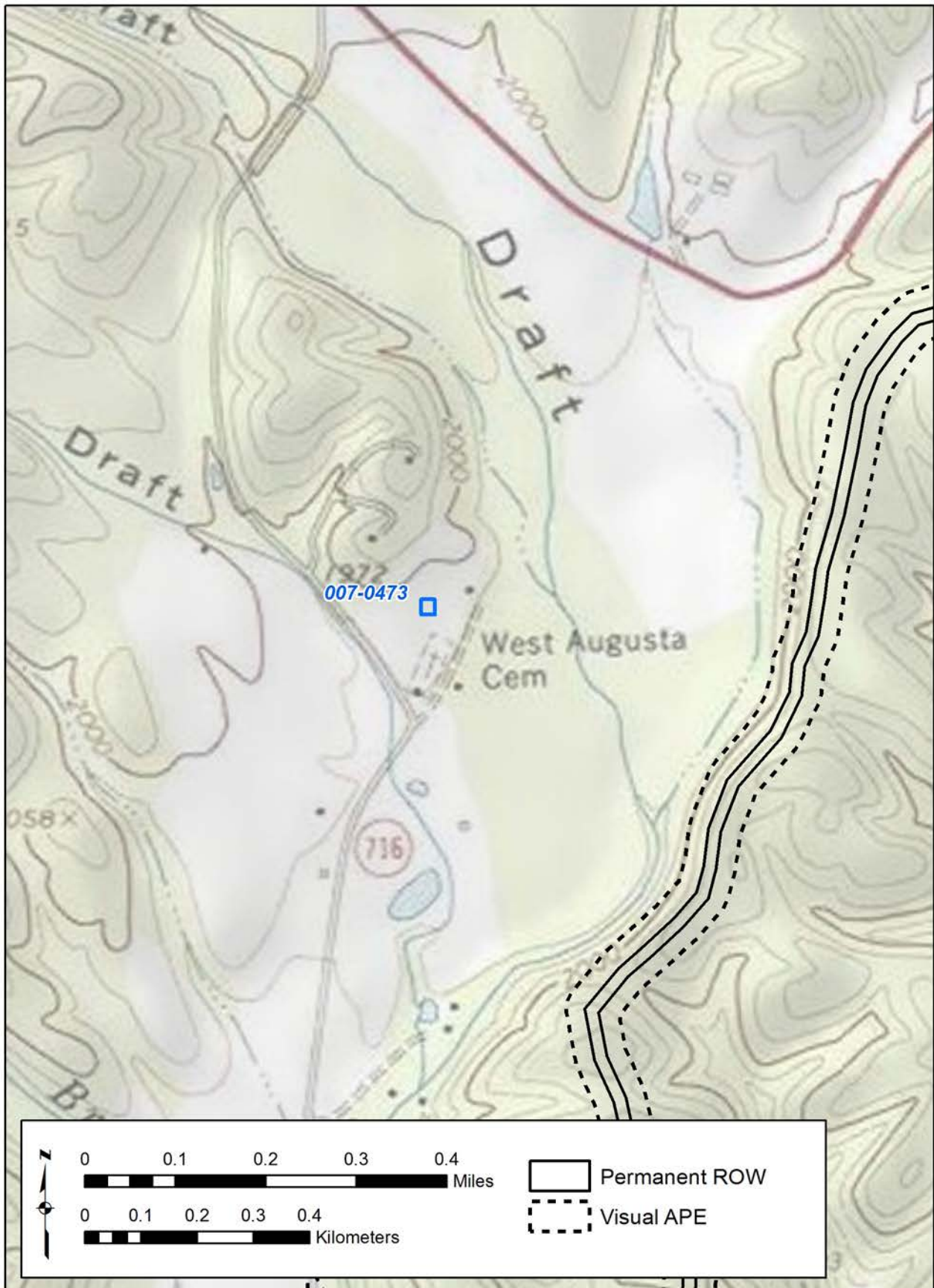


Figure 65. 007-0473 - USGS Quadrangle.



Figure 66. 007-0473 - Aerial.

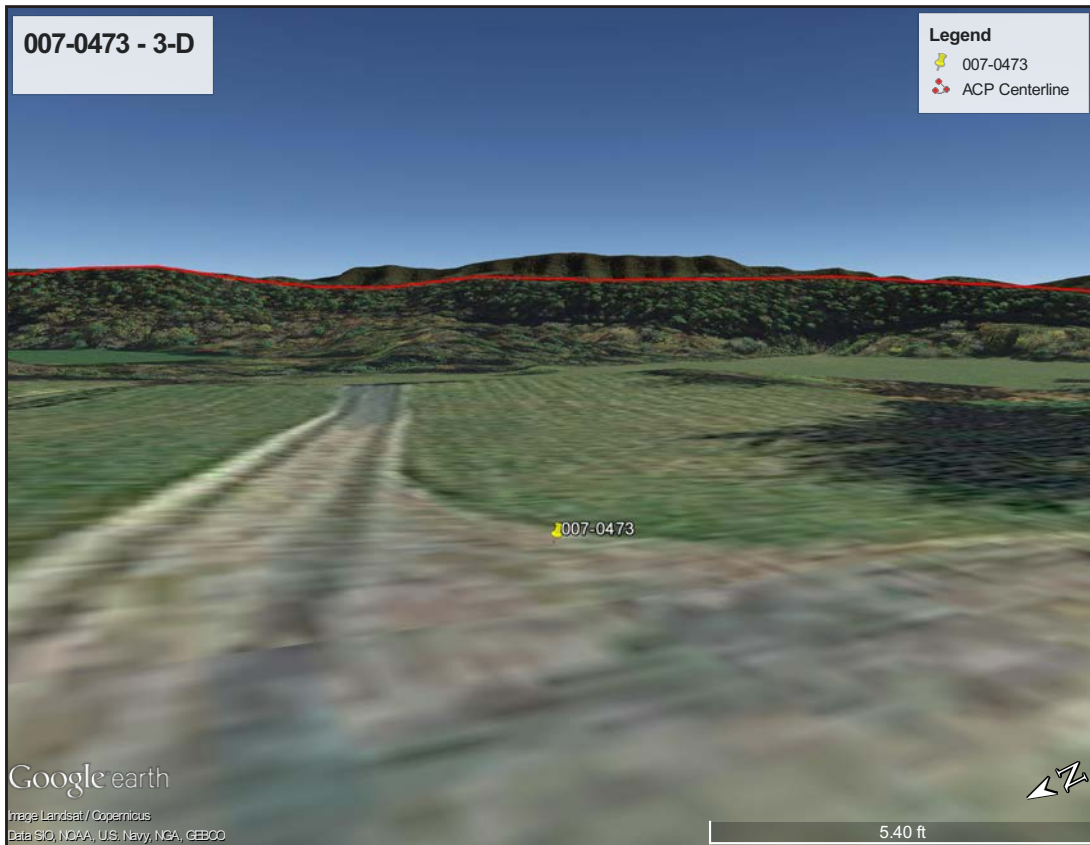


Figure 67. 007-0473 - 3-D View.



Figure 68. 007-04734 - Viewshed.

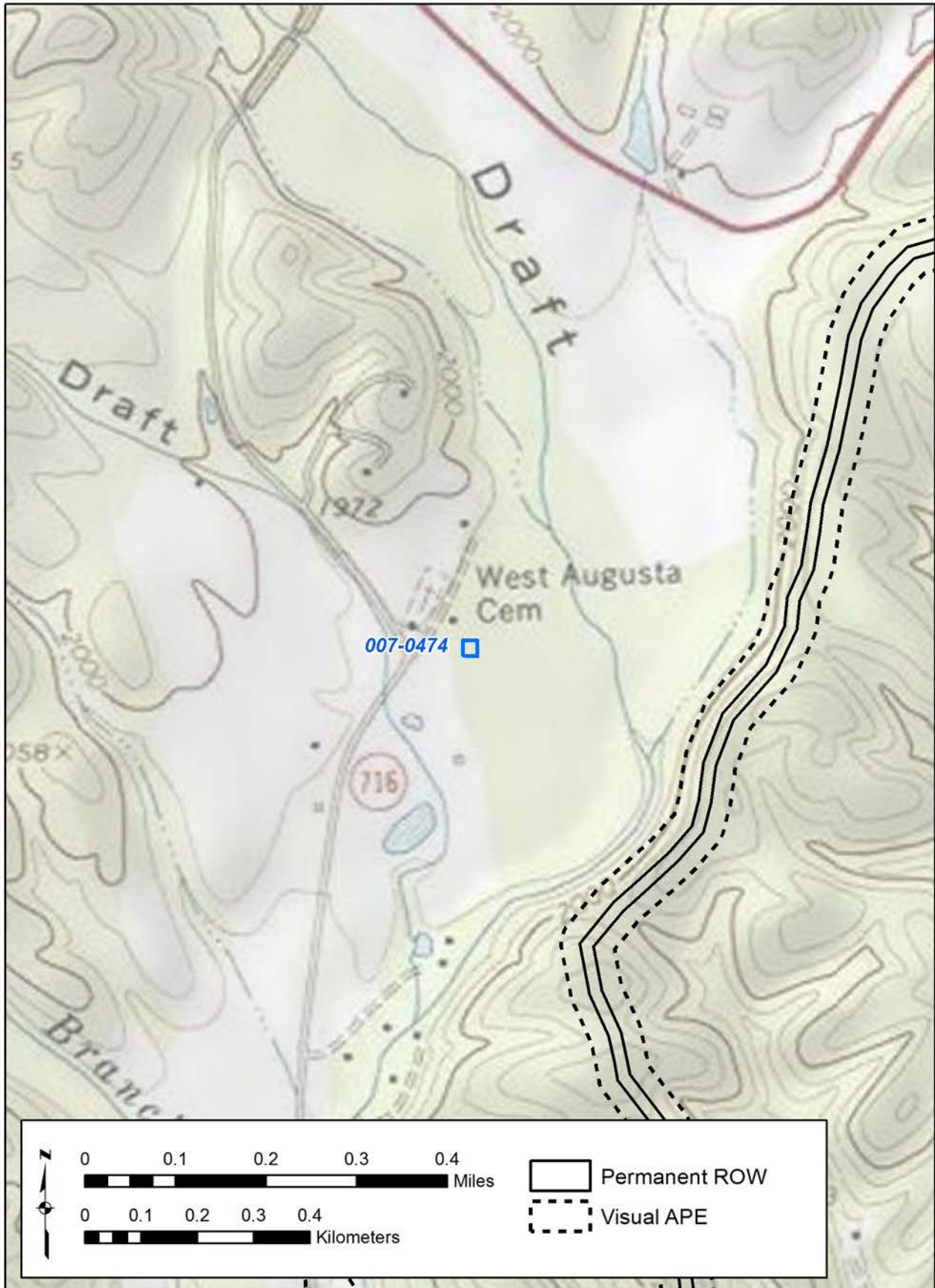


Figure 69. 007-0474 - USGS Quadrangle.



Figure 70. 007-0474 - Aerial.



Figure 71. 007-0474 - 3-D View.

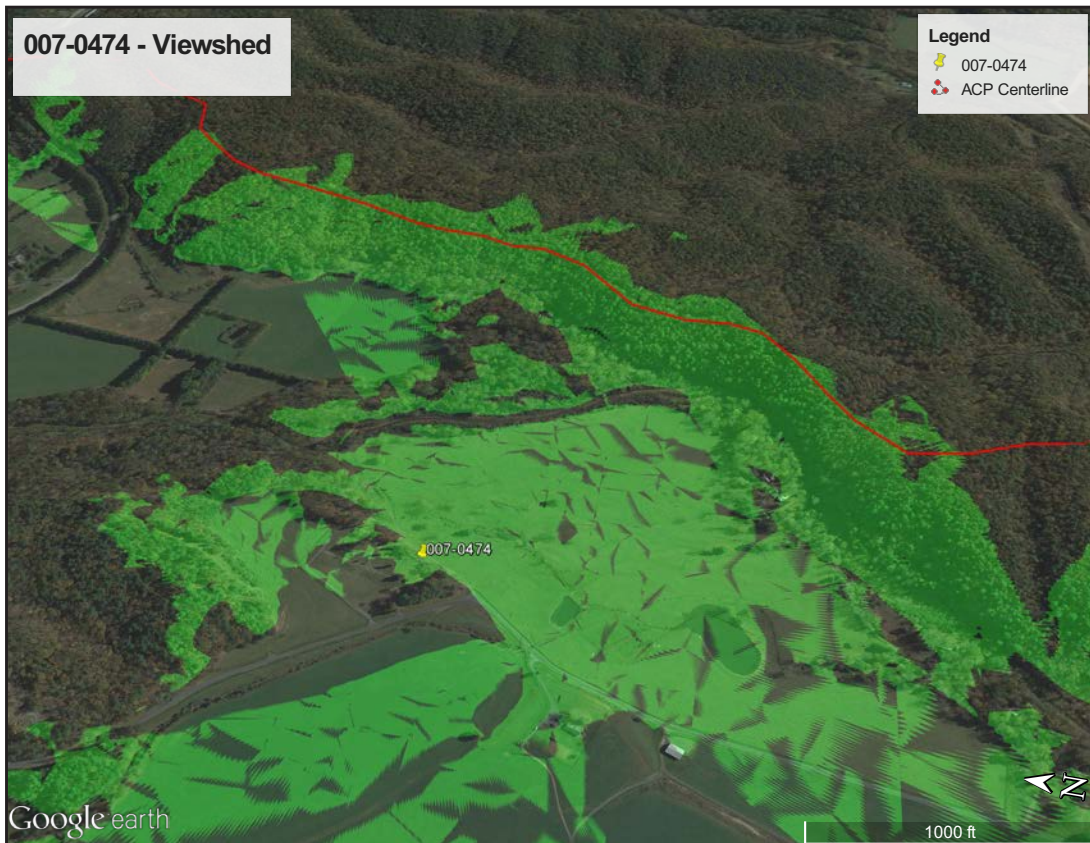


Figure 72. 007-0474 - Viewshed.

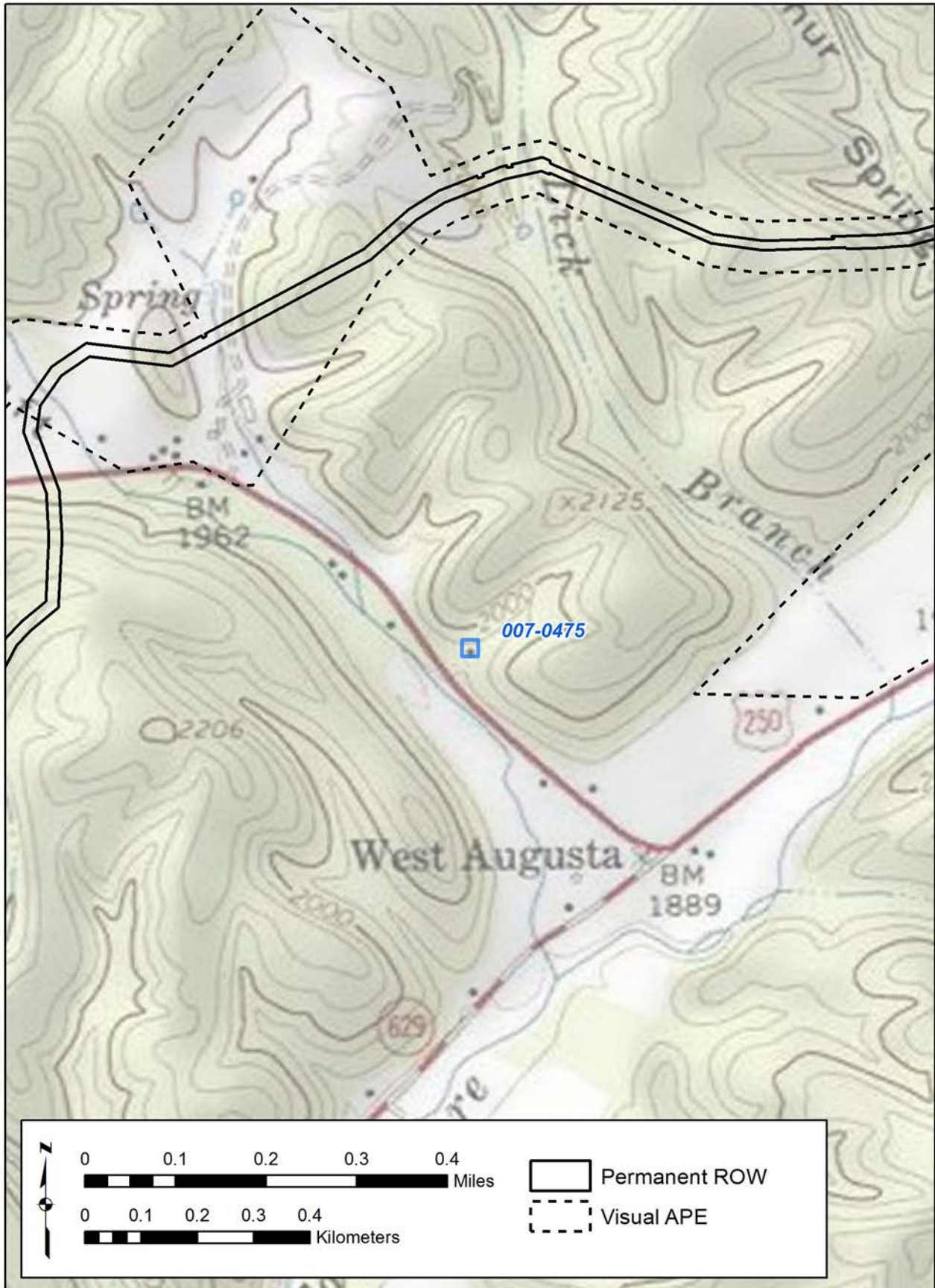


Figure 73. 007-0475 - USGS Quadrangle.

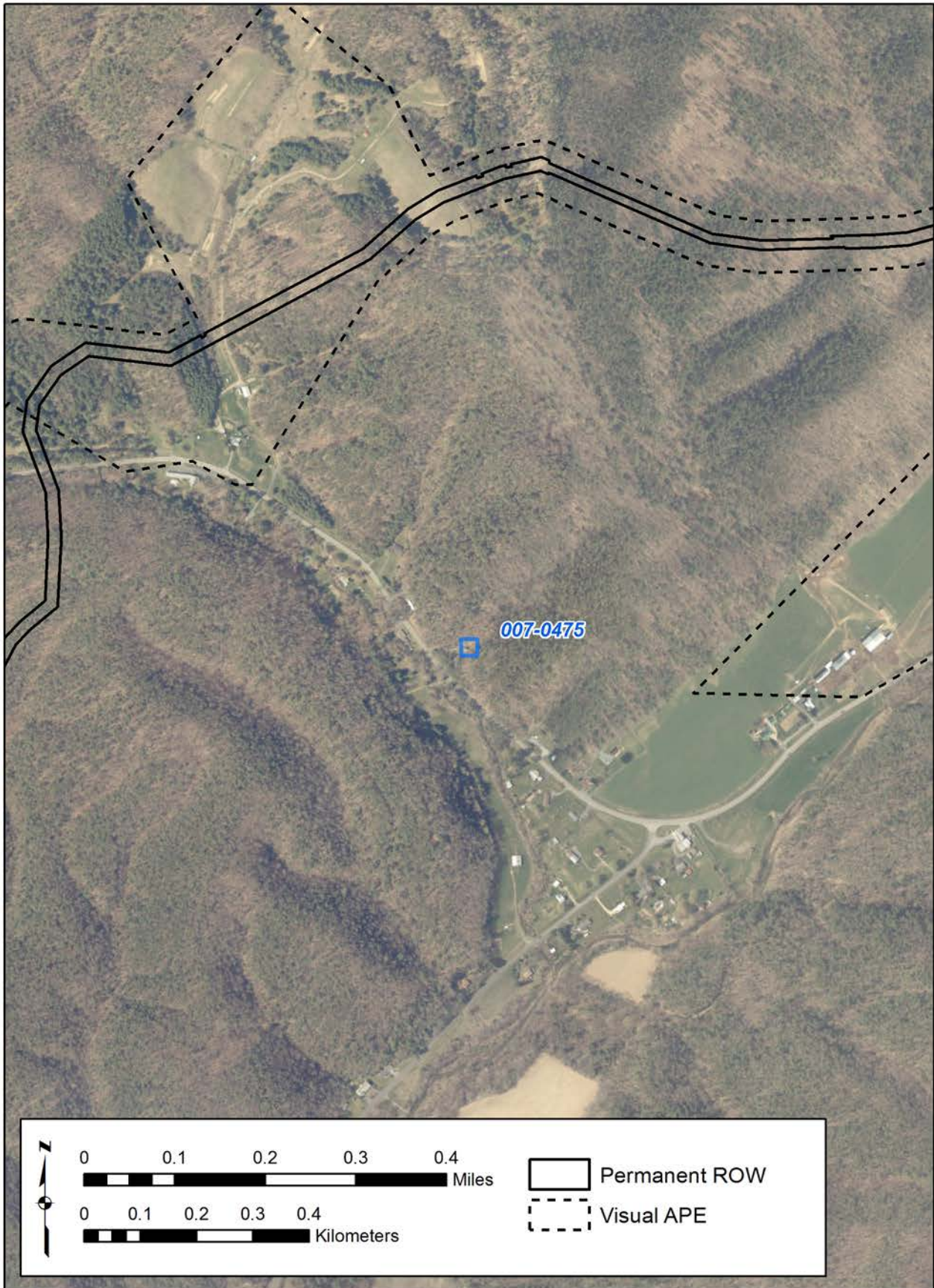


Figure 74. 007-0475 - Aerial.



Figure 75. 007-0475 - 3-D View.

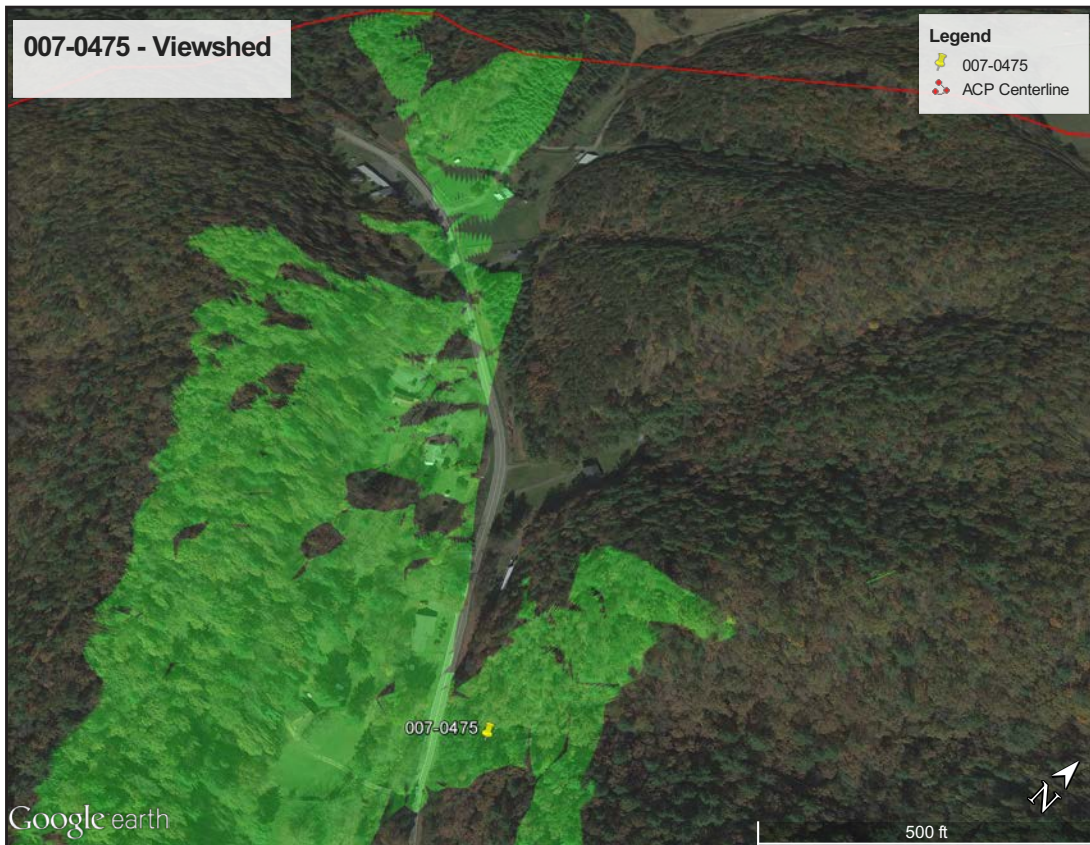


Figure 76. 007-0475 - Viewshed.



Figure 77. 007-0478 - USGS Quadrangle.

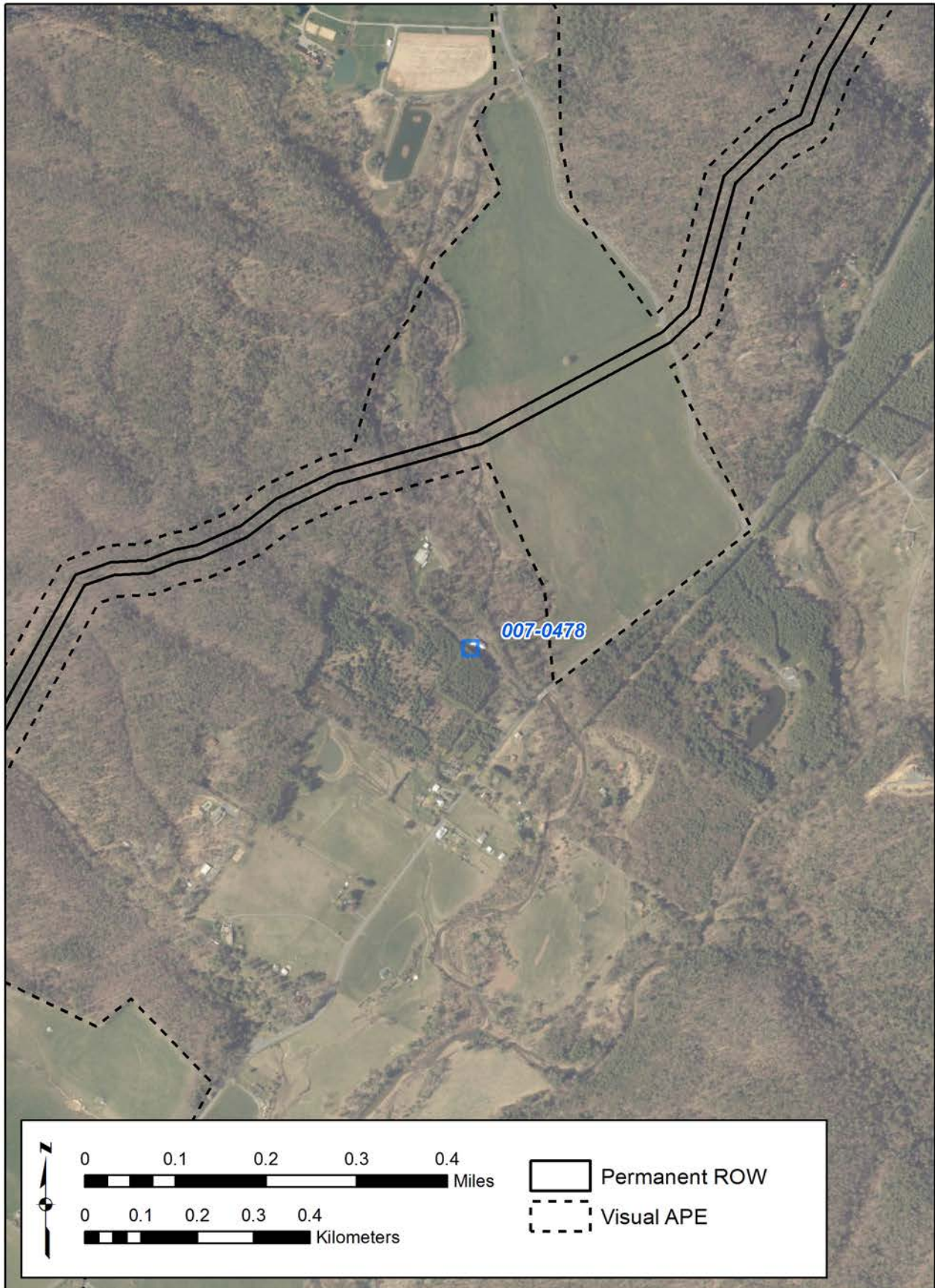


Figure 78. 007-0478 - Aerial.

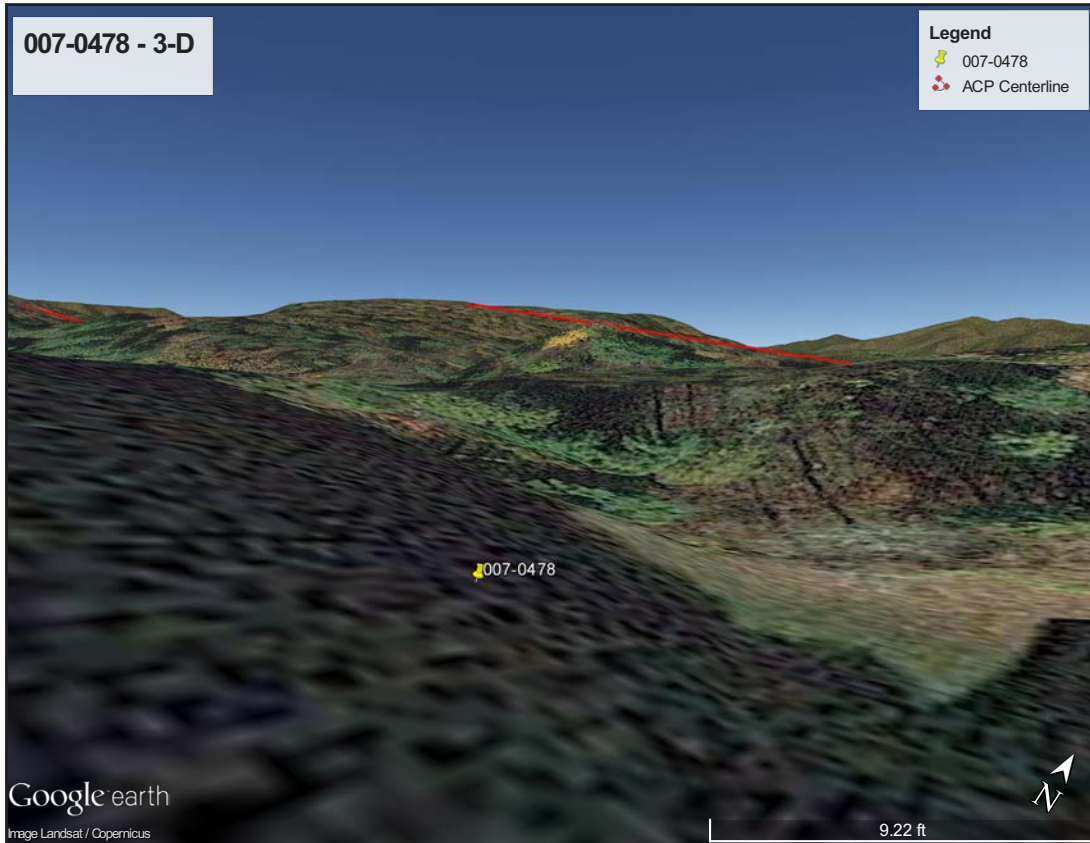


Figure 79. 007-0478 - 3-D View.



Figure 80. 007-0478 - Viewshed.

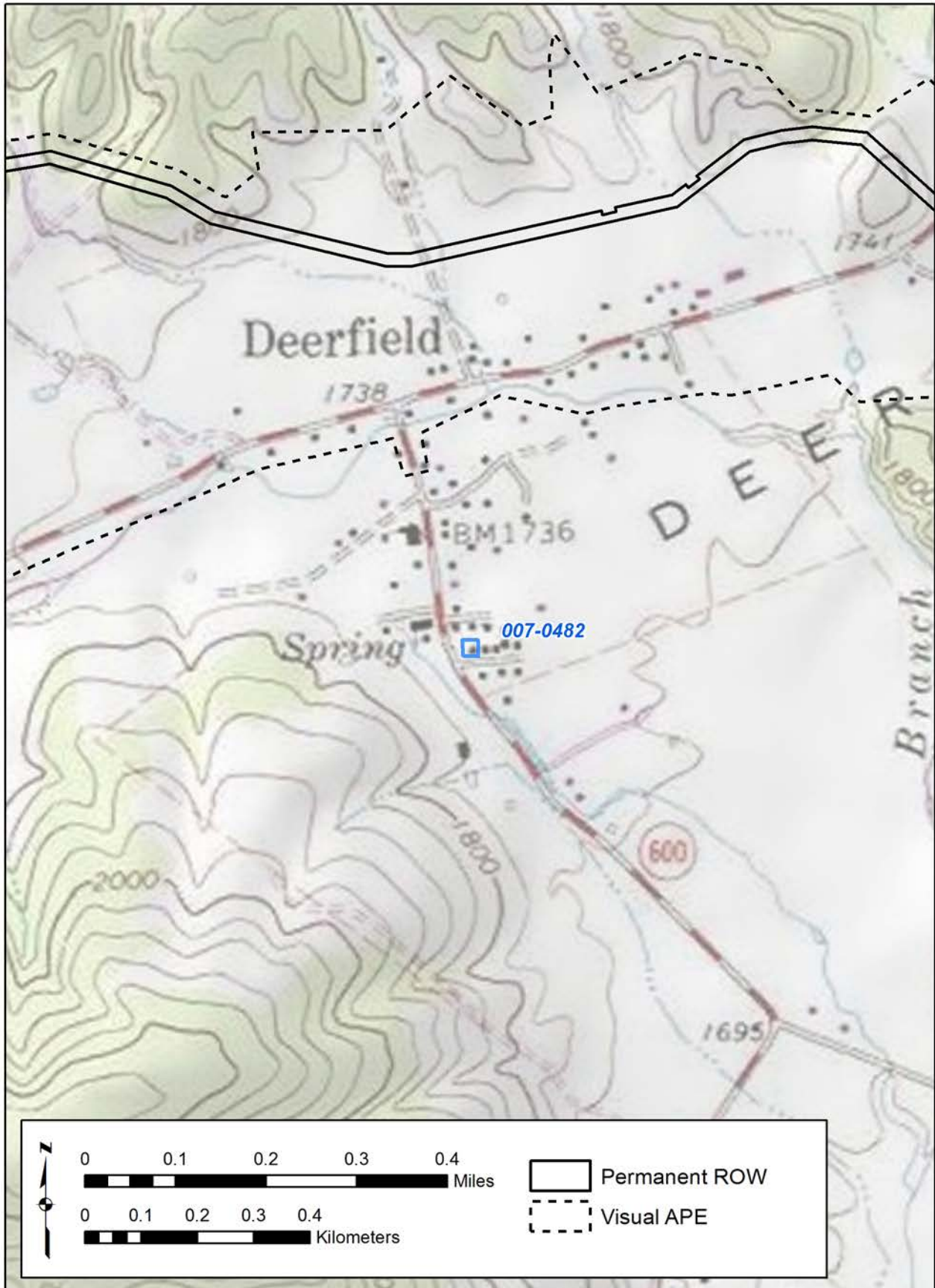


Figure 81. 007-0482 - USGS Quadrangle.



Figure 82. 007-0482 - Aerial.



Figure 83. 007-0482 - 3-D View.



Figure 84. 007-0482 - Viewshed.

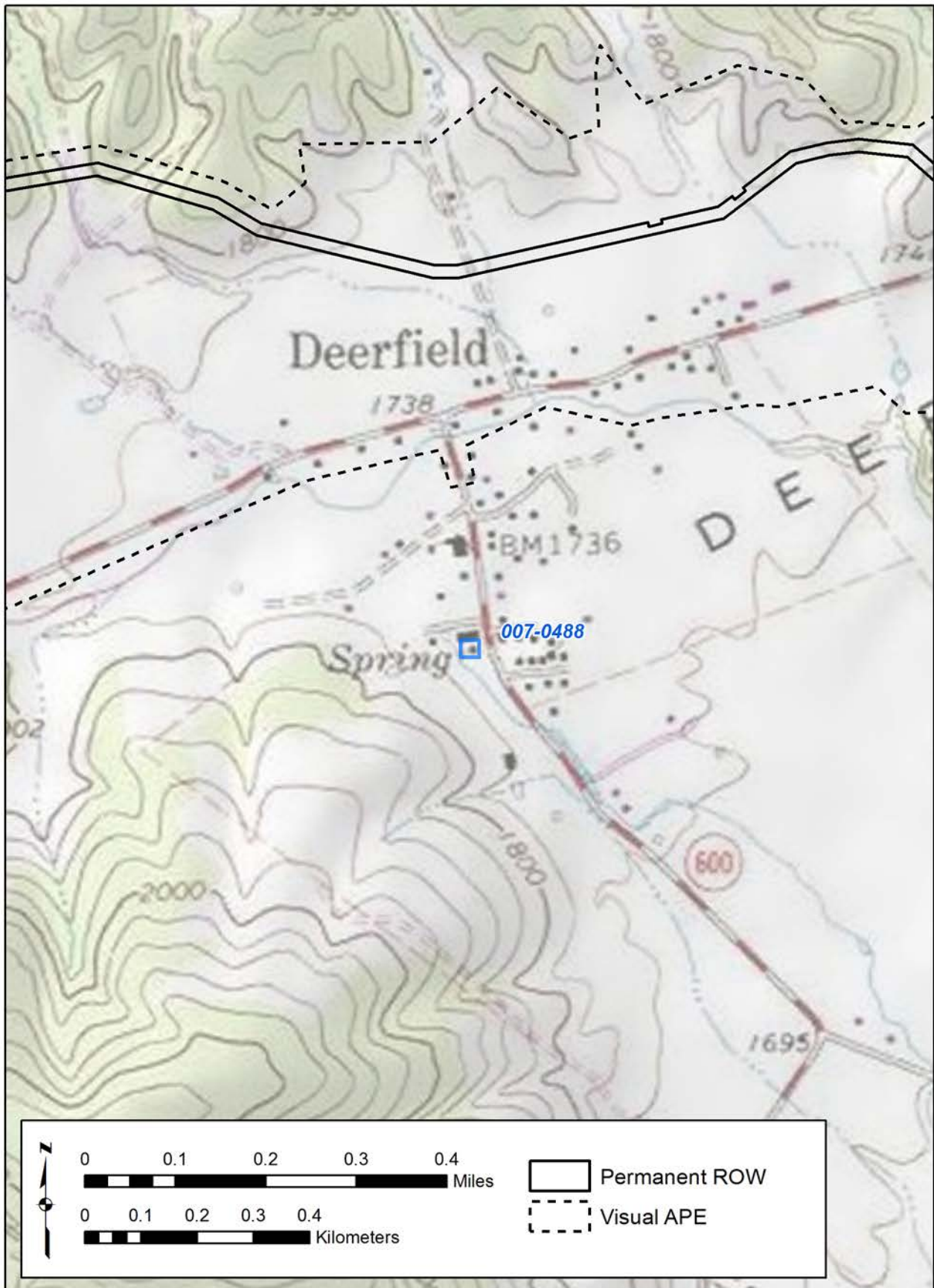


Figure 85. 007-0488 - USGS Quadrangle.



Figure 86. 007-0488 - Aerial.

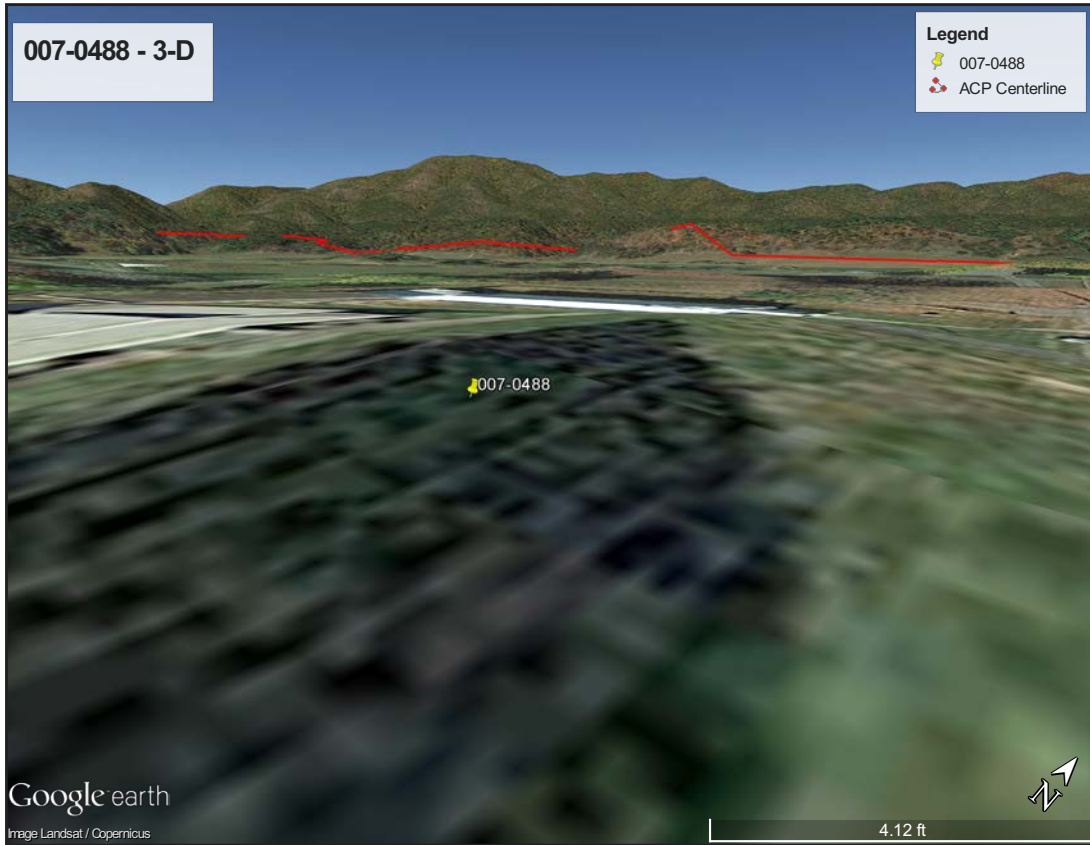


Figure 87. 007-0488 - 3-D View.

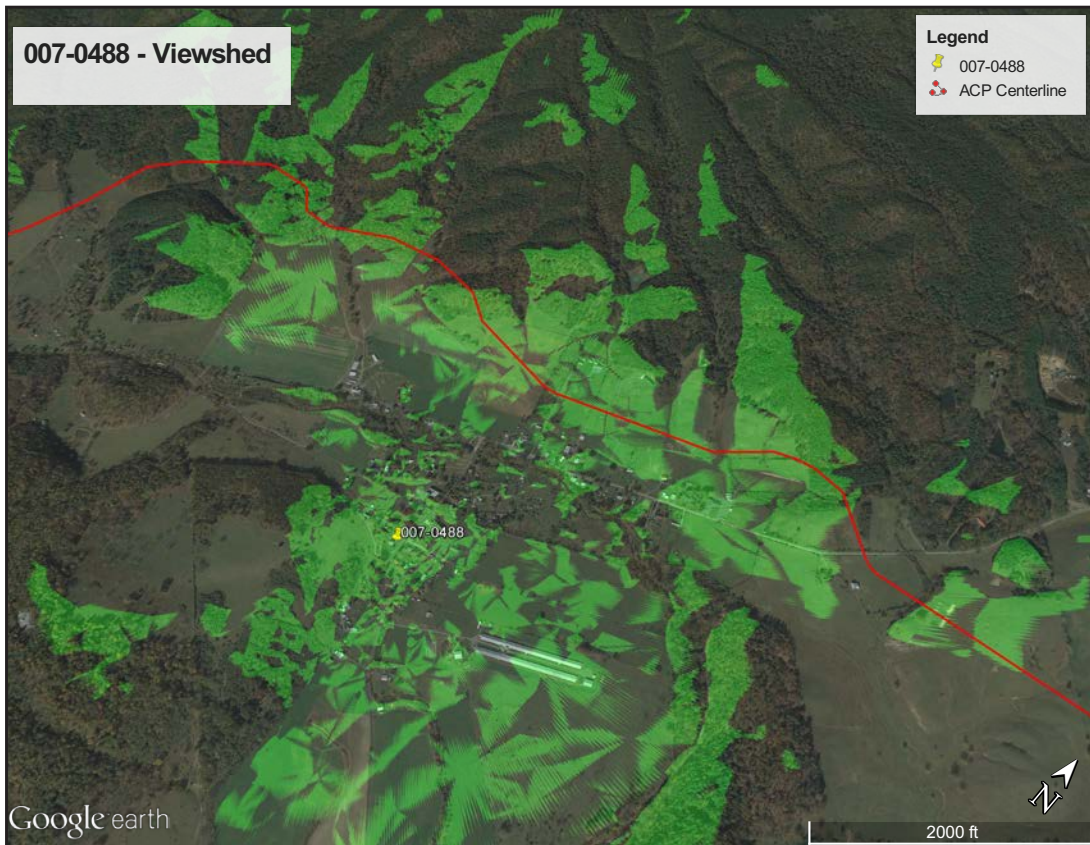


Figure 88. 007-0488 - Viewshed.

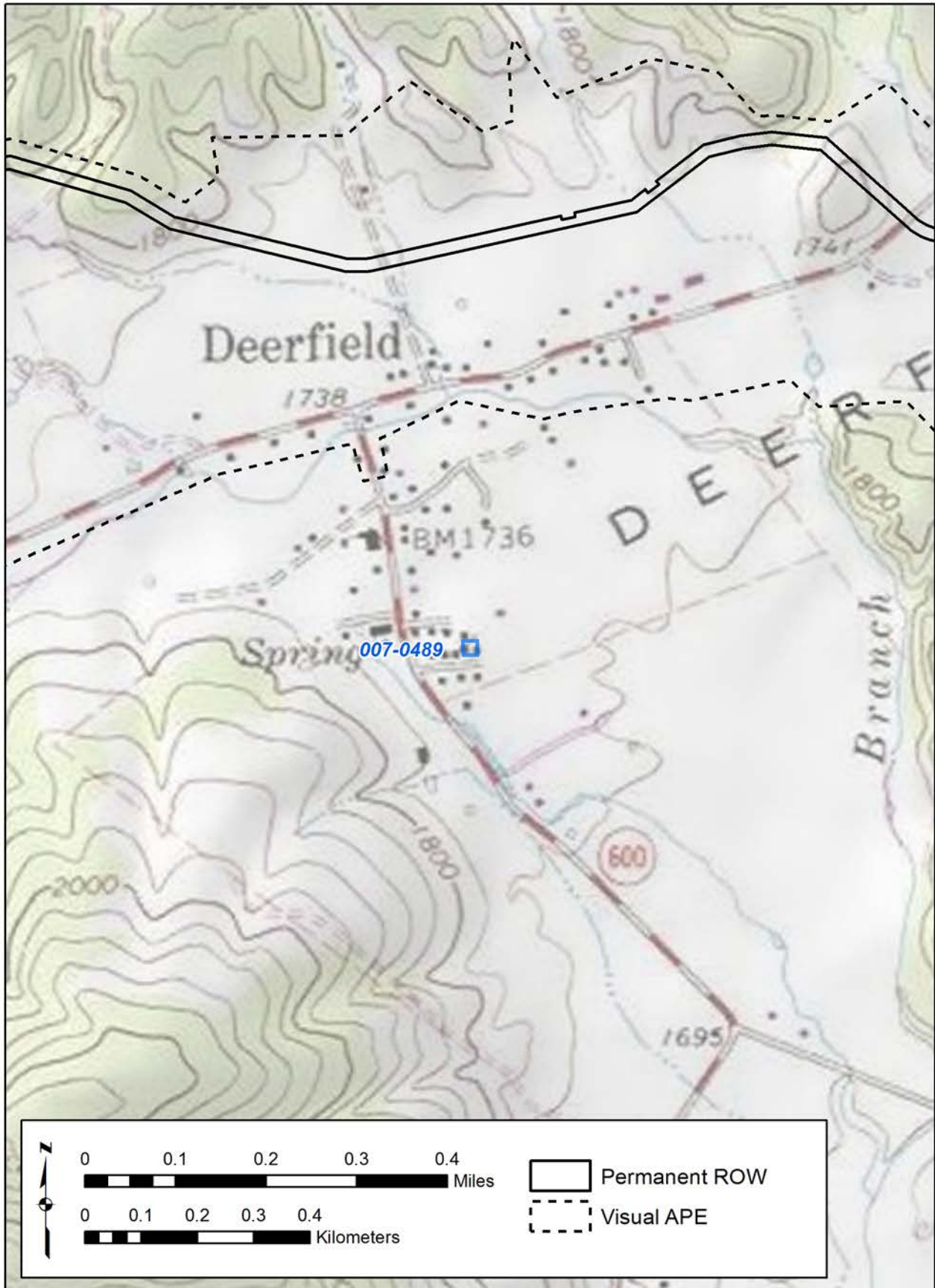


Figure 89. 007-0489 - USGS Quadrangle.



Figure 90. 007-0489 - Aerial.

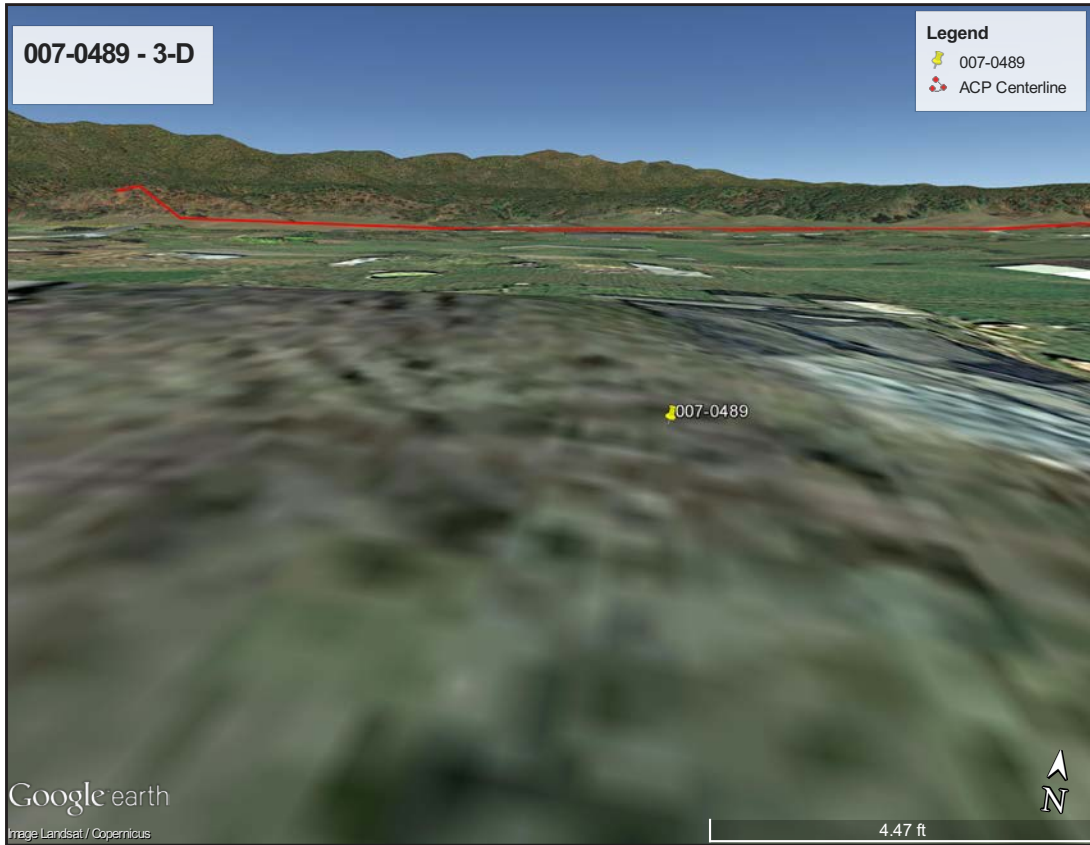


Figure 91. 007-0489 - 3-D View.

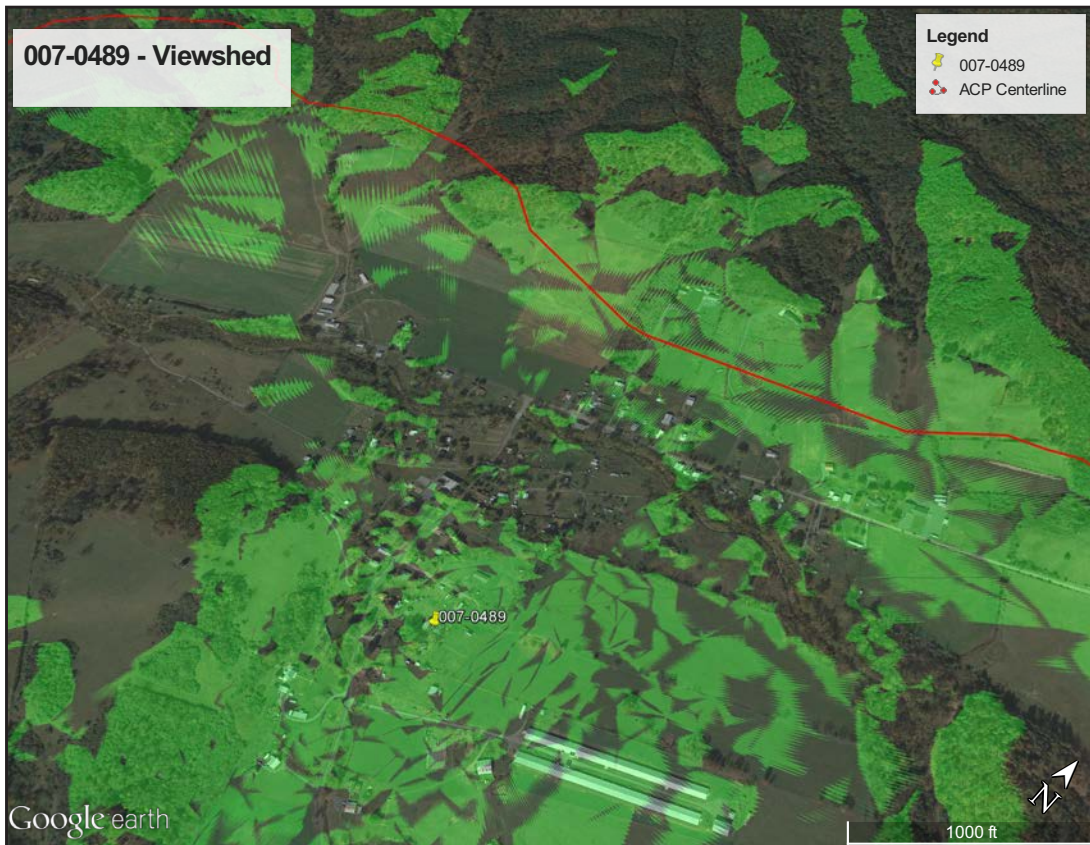


Figure 92. 007-0489 - Viewshed.

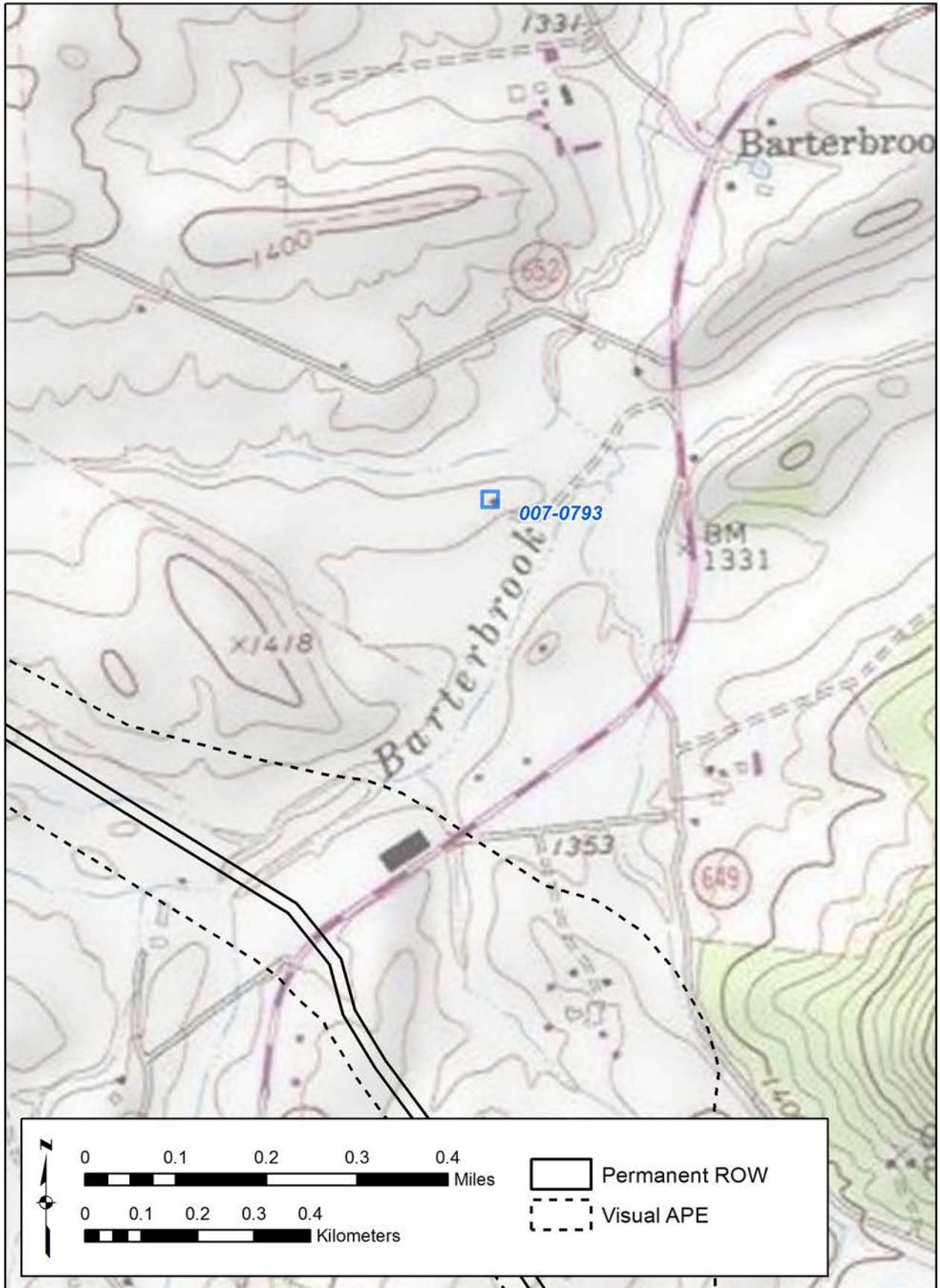


Figure 93. 007-0793 - USGS Quadrangle.



Figure 94. 007-0793 - Aerial.

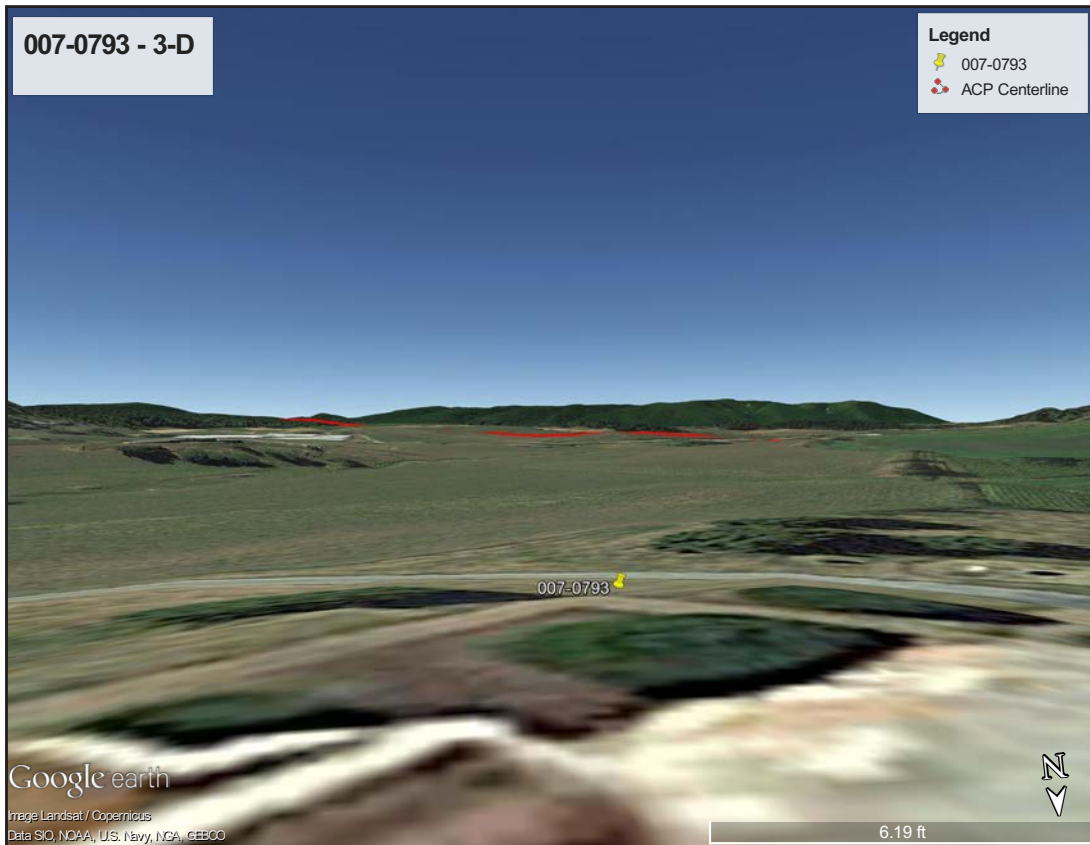


Figure 95. 007-0793 - 3-D View.



Figure 96. 007-0793 - Viewshed.

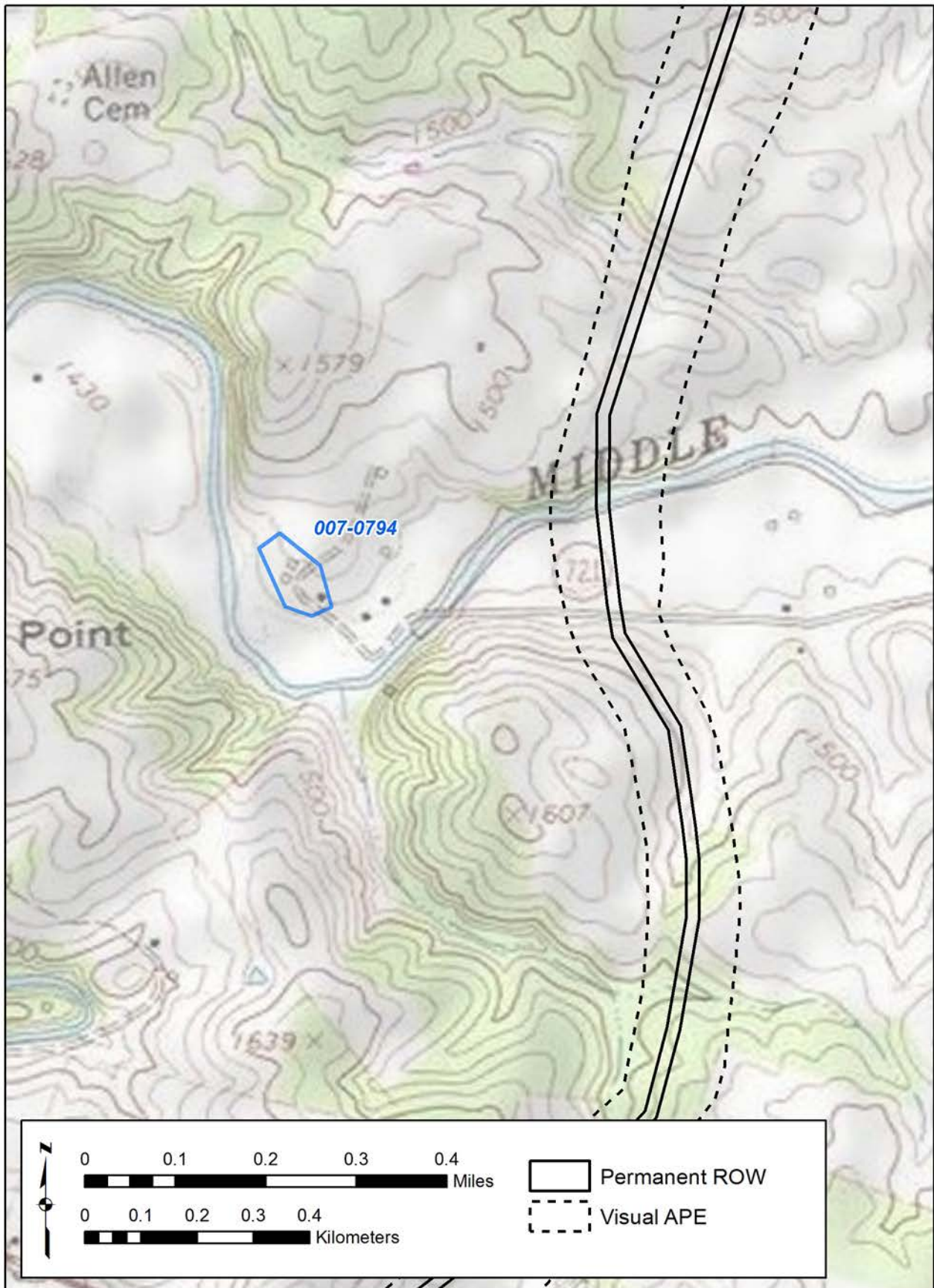


Figure 97. 007-0794 - USGS Quadrangle.



Figure 98. 007-0794 - Aerial.

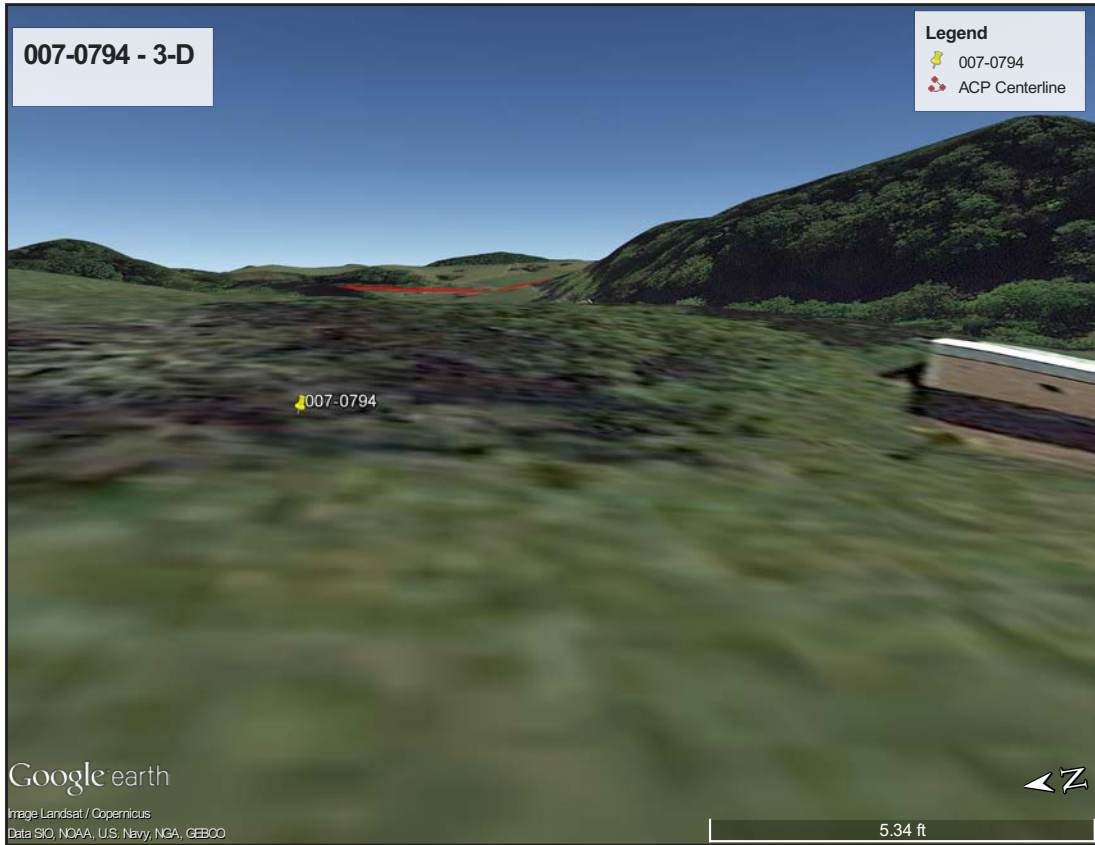


Figure 99. 007-0794 - 3-D View.

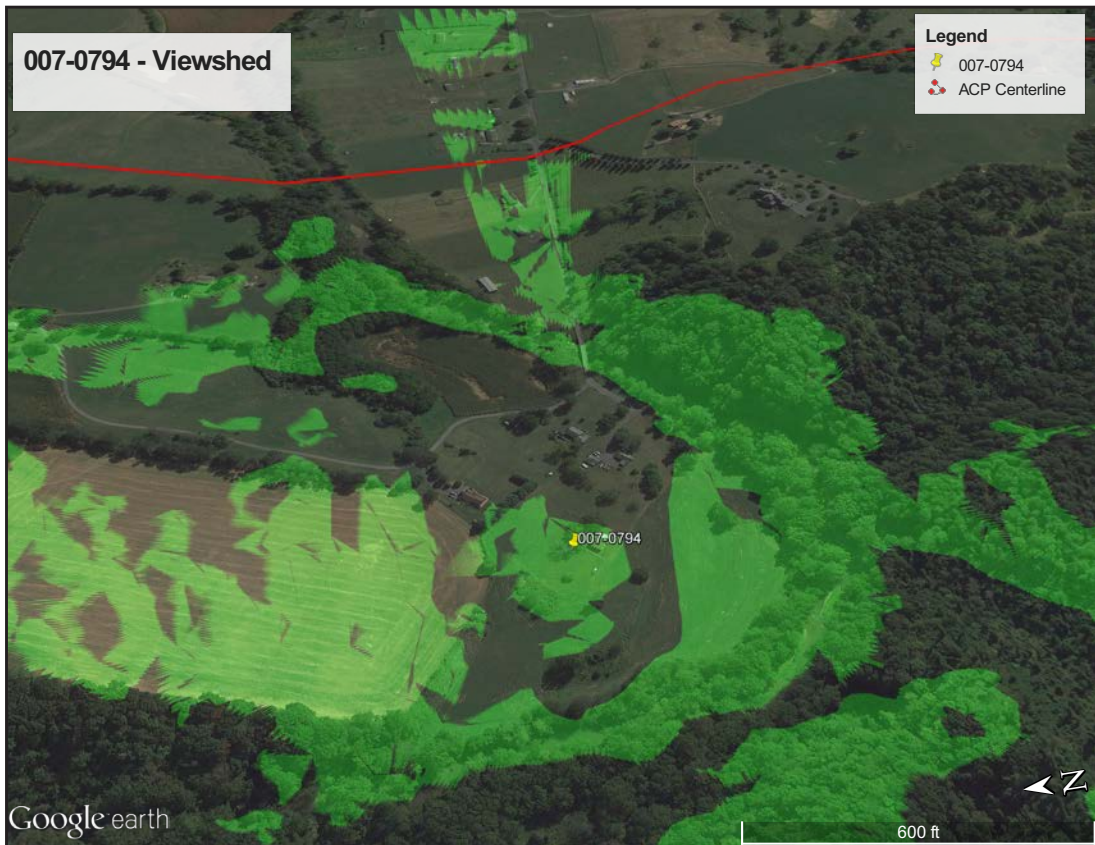


Figure 100. 007-0794 - Viewshed.

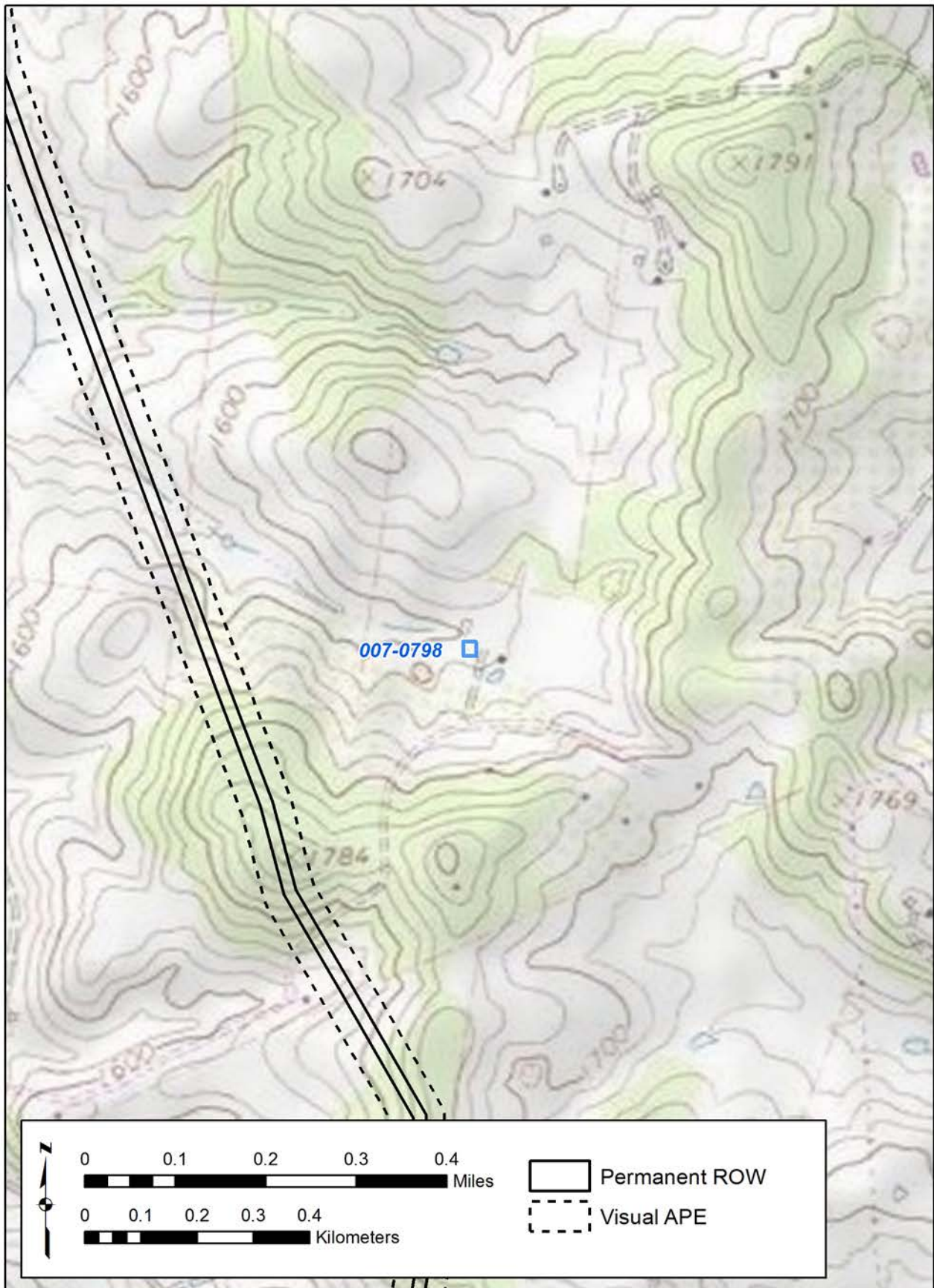


Figure 101. 007-0798 - USGS Quadrangle.

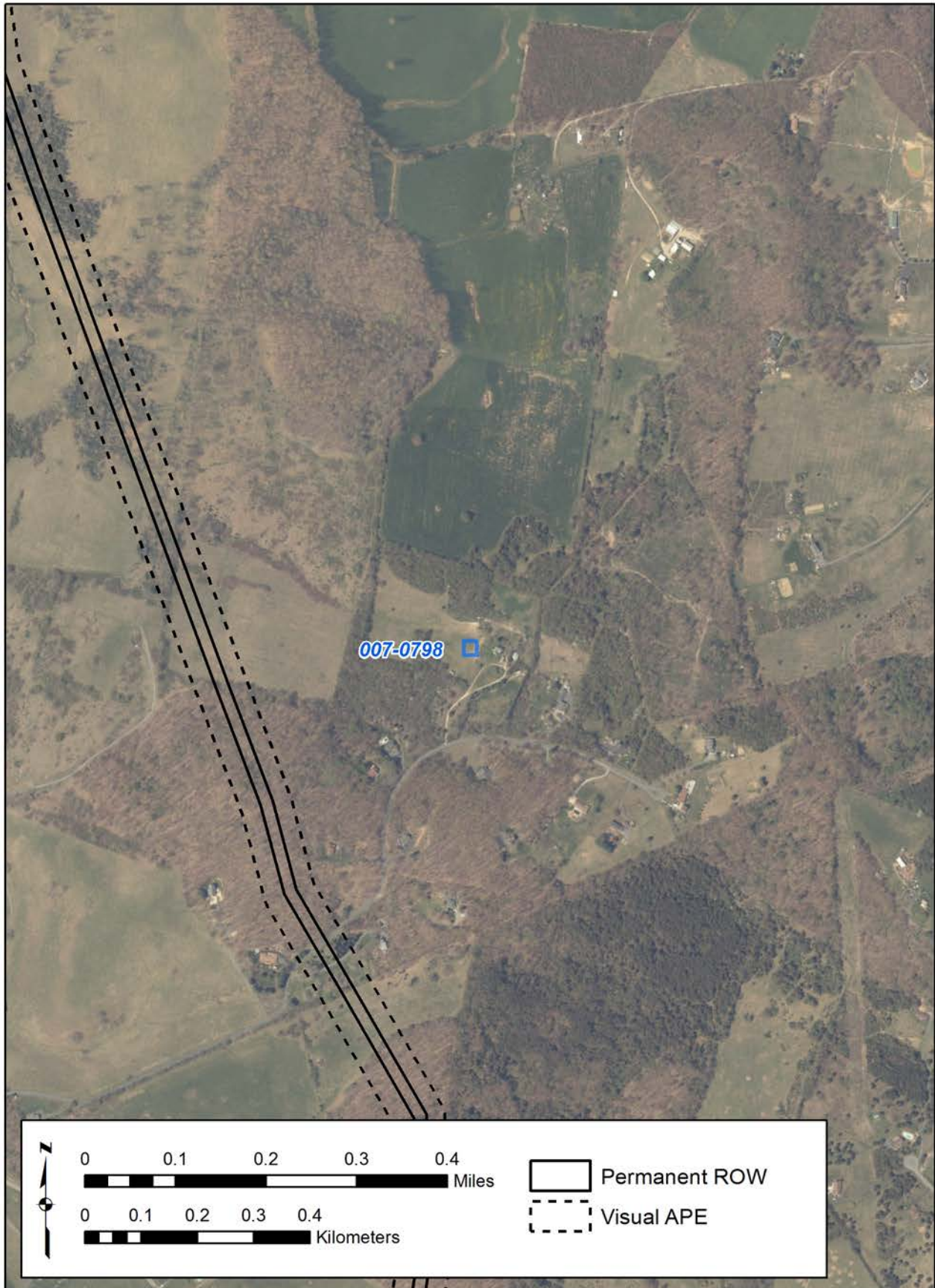


Figure 102. 007-0798 - Aerial.

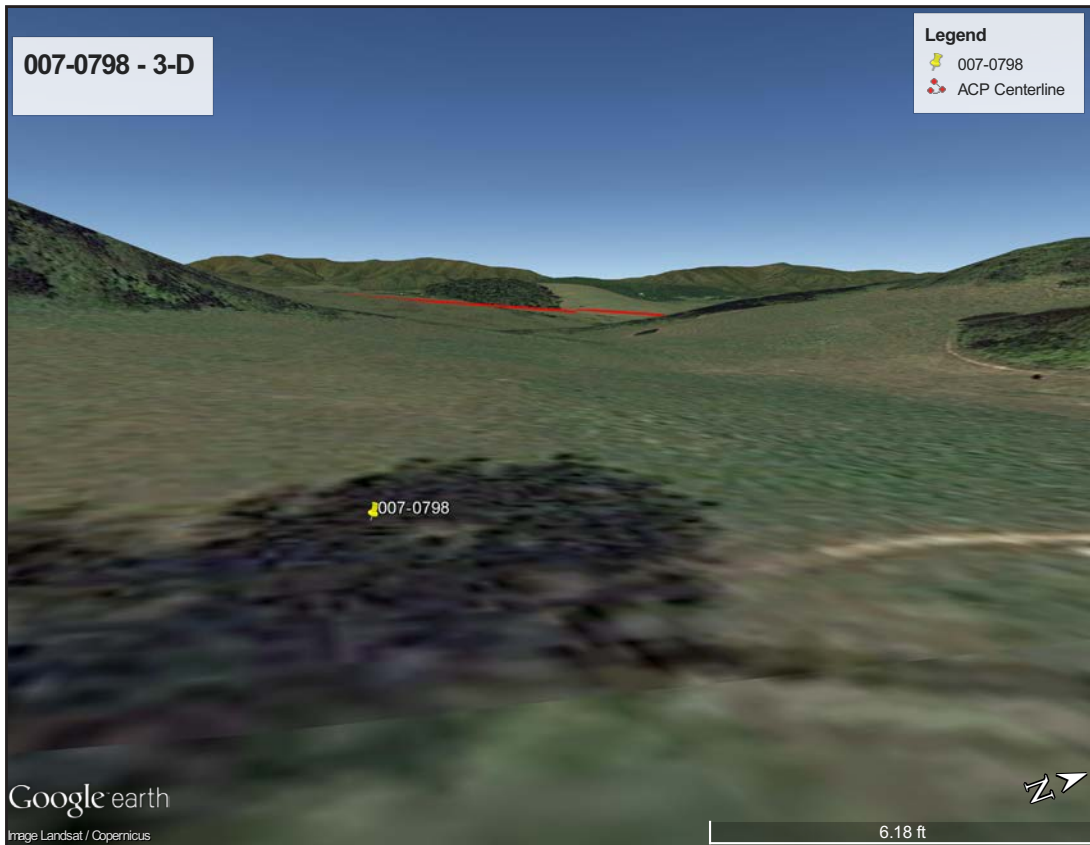


Figure 103. 007-0798 - 3-D View.



Figure 104. 007-0798 - Viewshed.

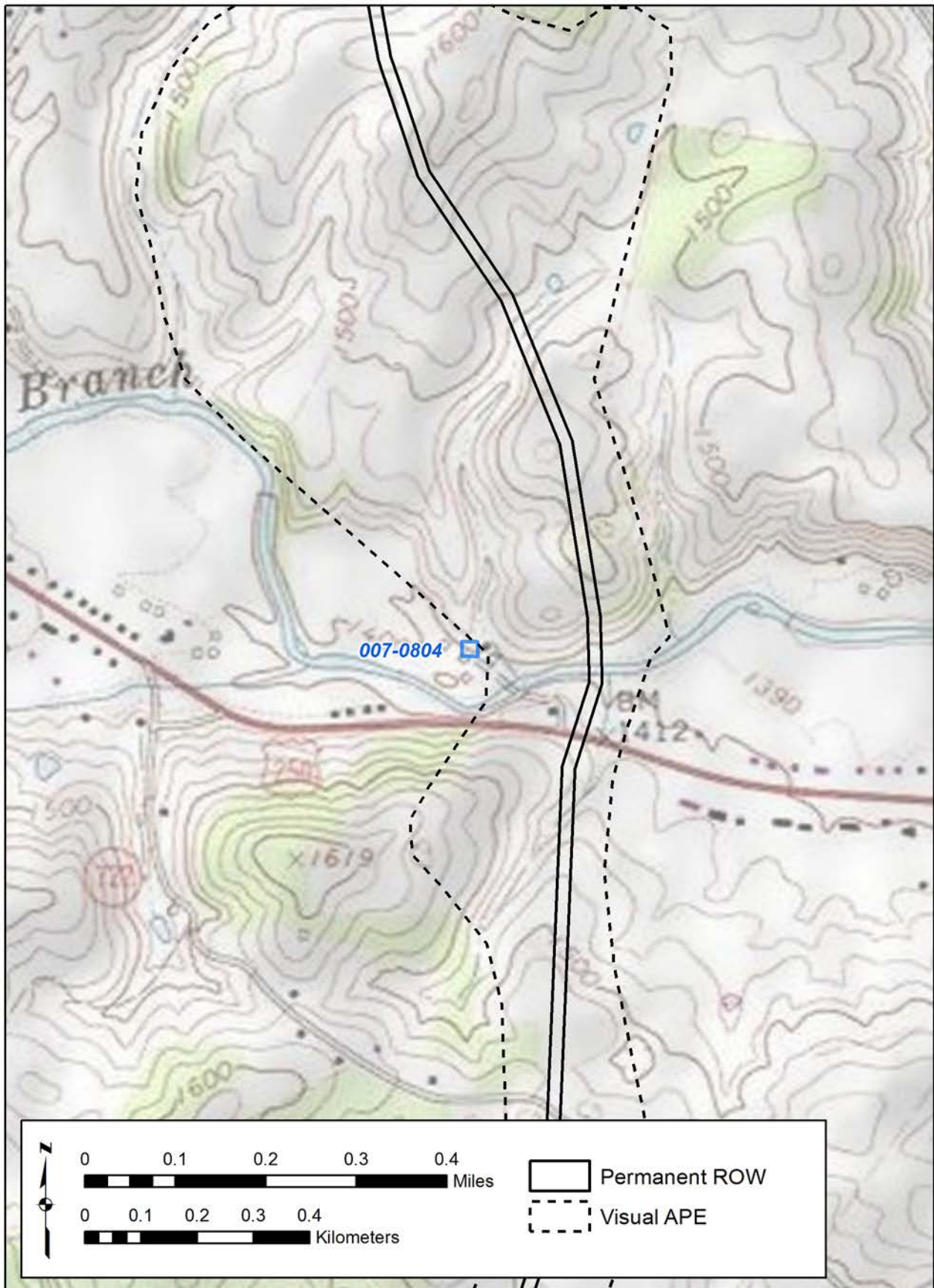


Figure 105. 007-0804 - USGS Quadrangle.



Figure 106. 007-0804 - Aerial.



Figure 107. 007-0804 - 3-D View.



Figure 108. 007-0804 - Viewshed.



Figure 109. 007-0870 - USGS Quadrangle.



Figure 110. 007-0870 - Aerial.

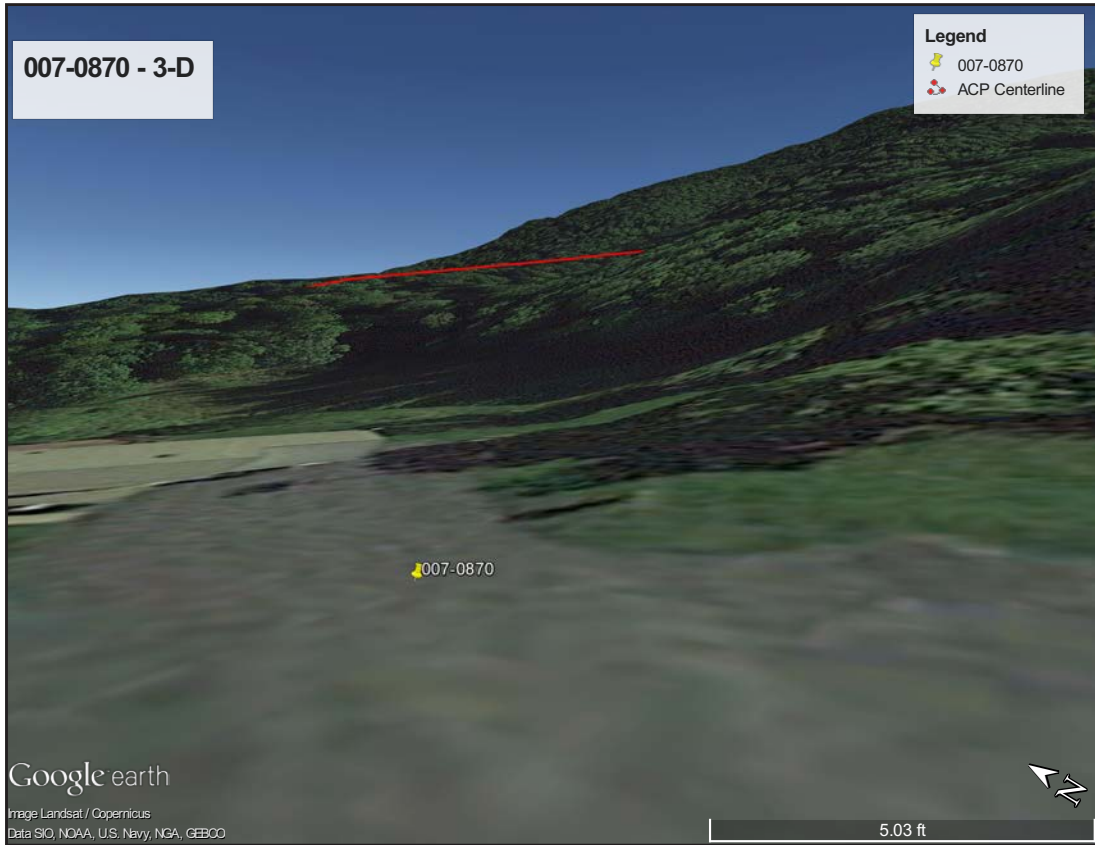


Figure 111. 007-0870 - 3-D View.

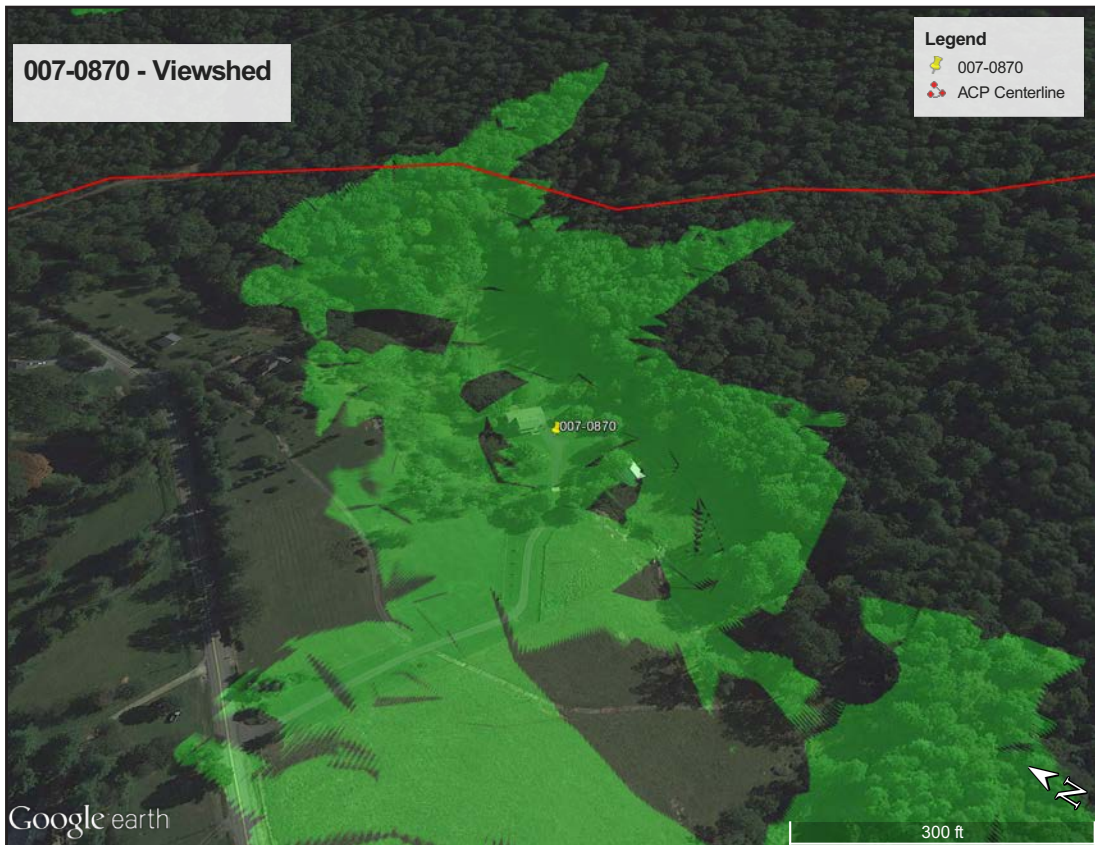


Figure 112. 007-0870 - Viewshed.



Figure 113. 007-0871 - USGS Quadrangle.



Figure 114. 007-0871 - Aerial.

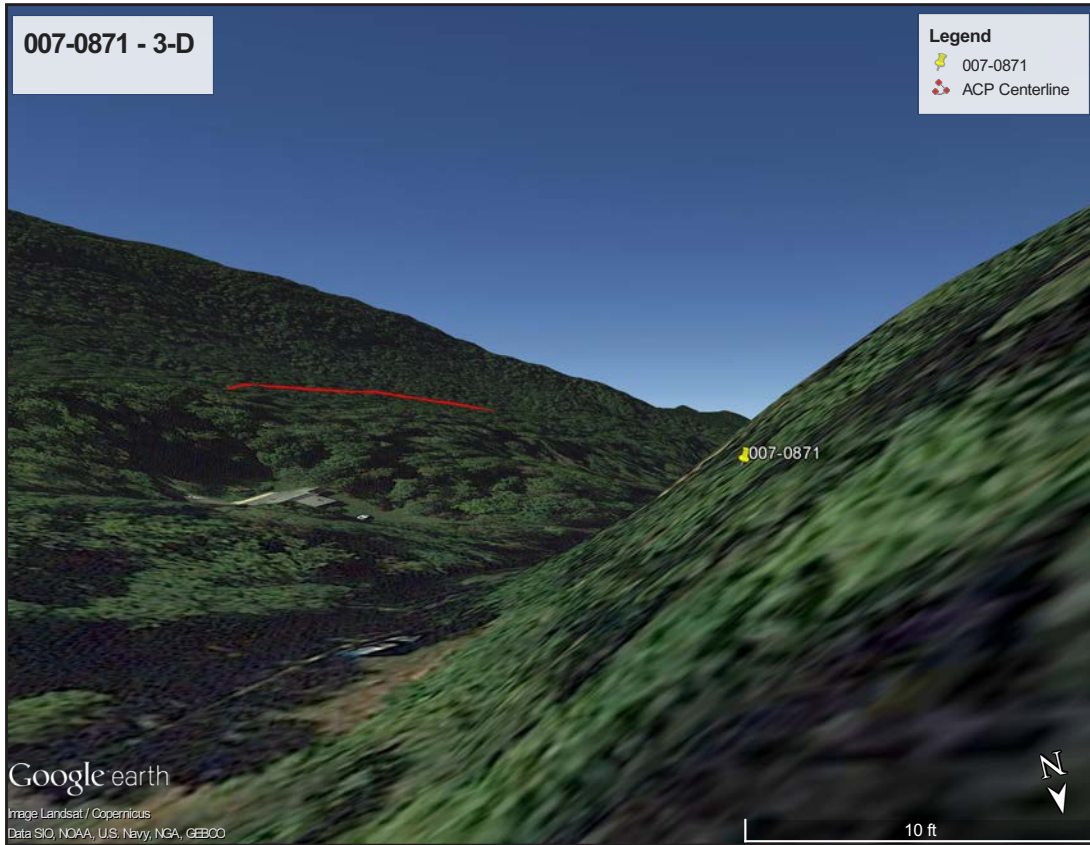


Figure 115. 007-0871 - 3-D View.

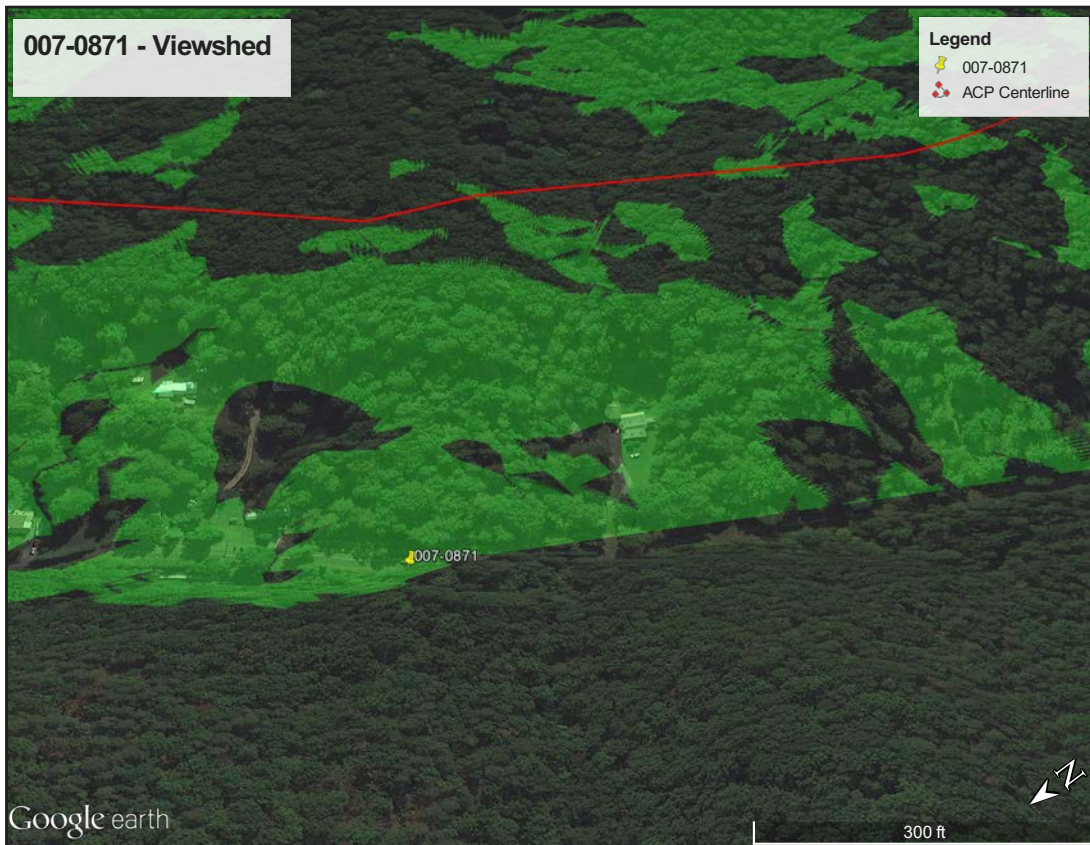


Figure 116. 007-0871 - Viewshed.

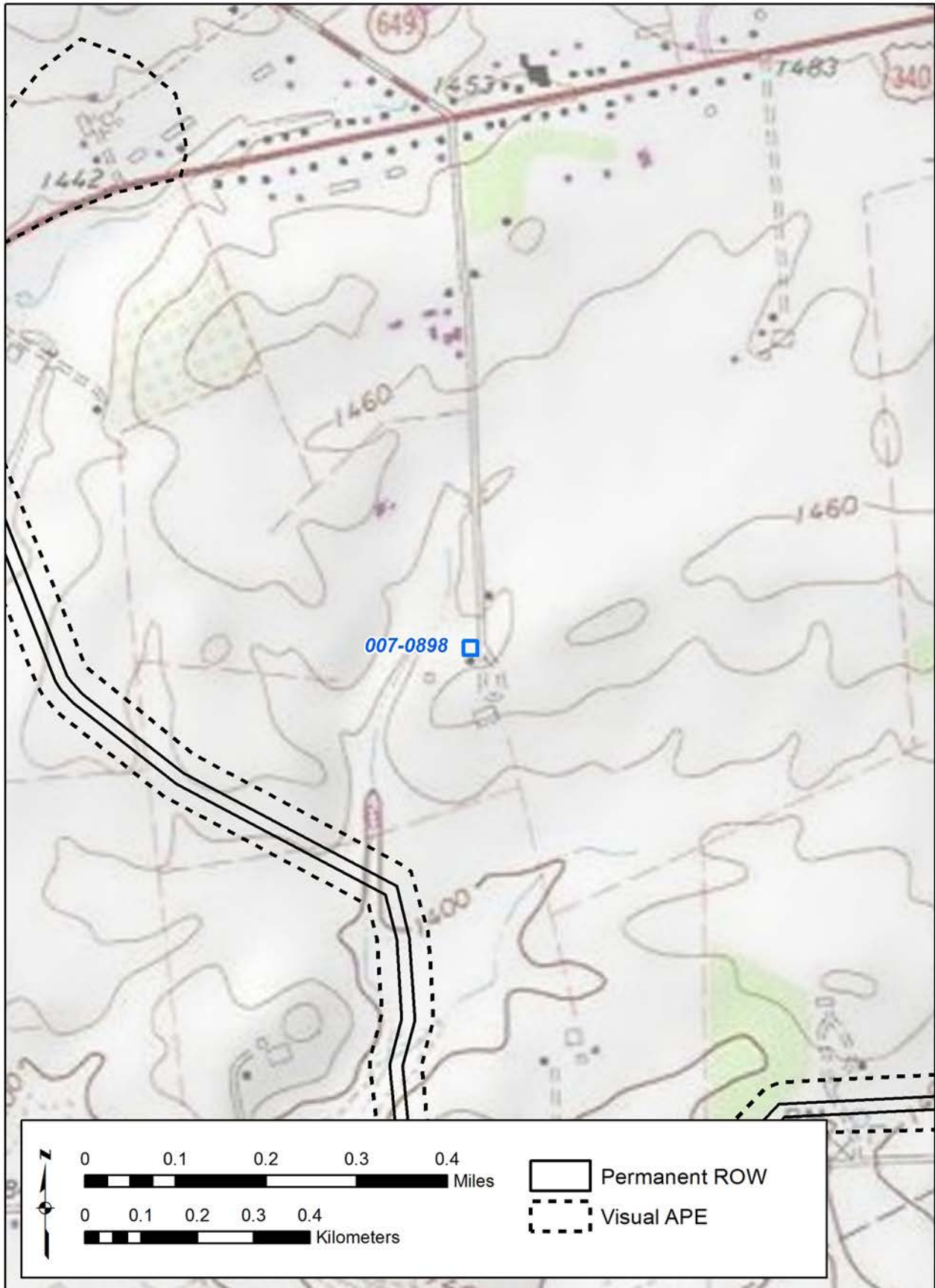


Figure 117. 007-0898 - USGS Quadrangle.



Figure 118. 007-0898 - Aerial.

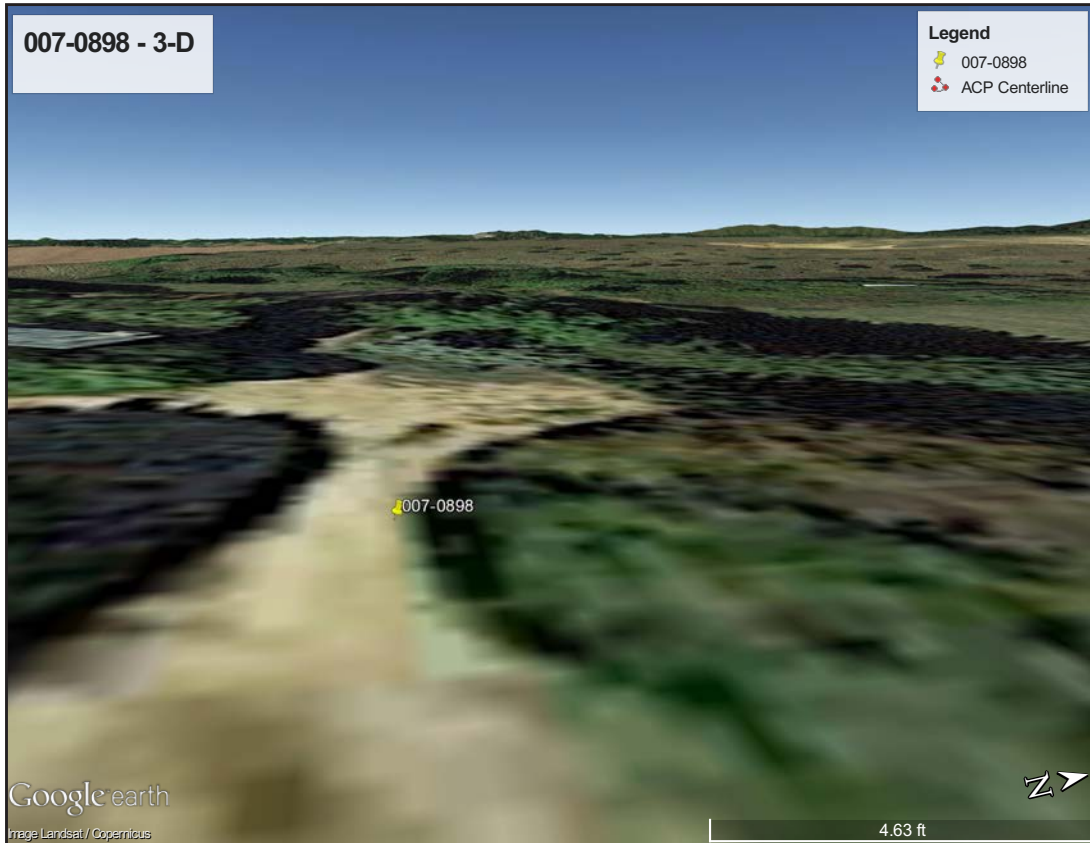


Figure 119. 007-0898 - 3-D View.

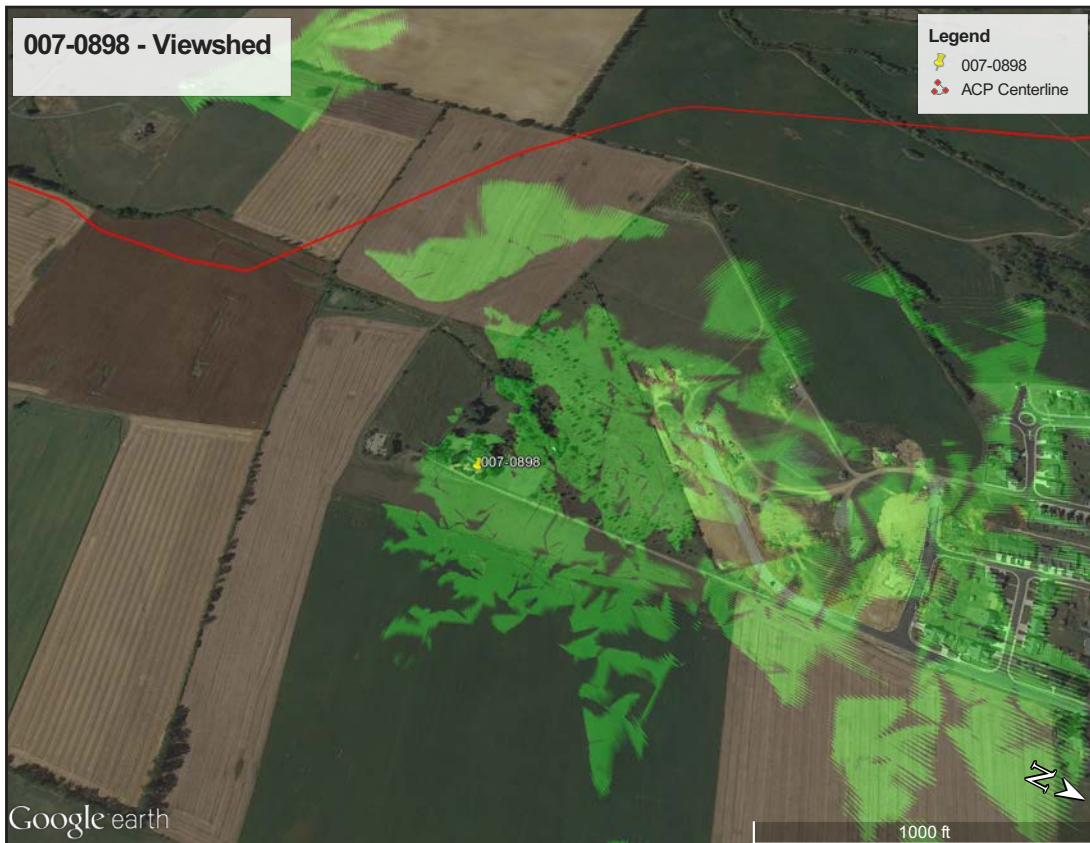


Figure 120. 007-0898 - Viewshed.

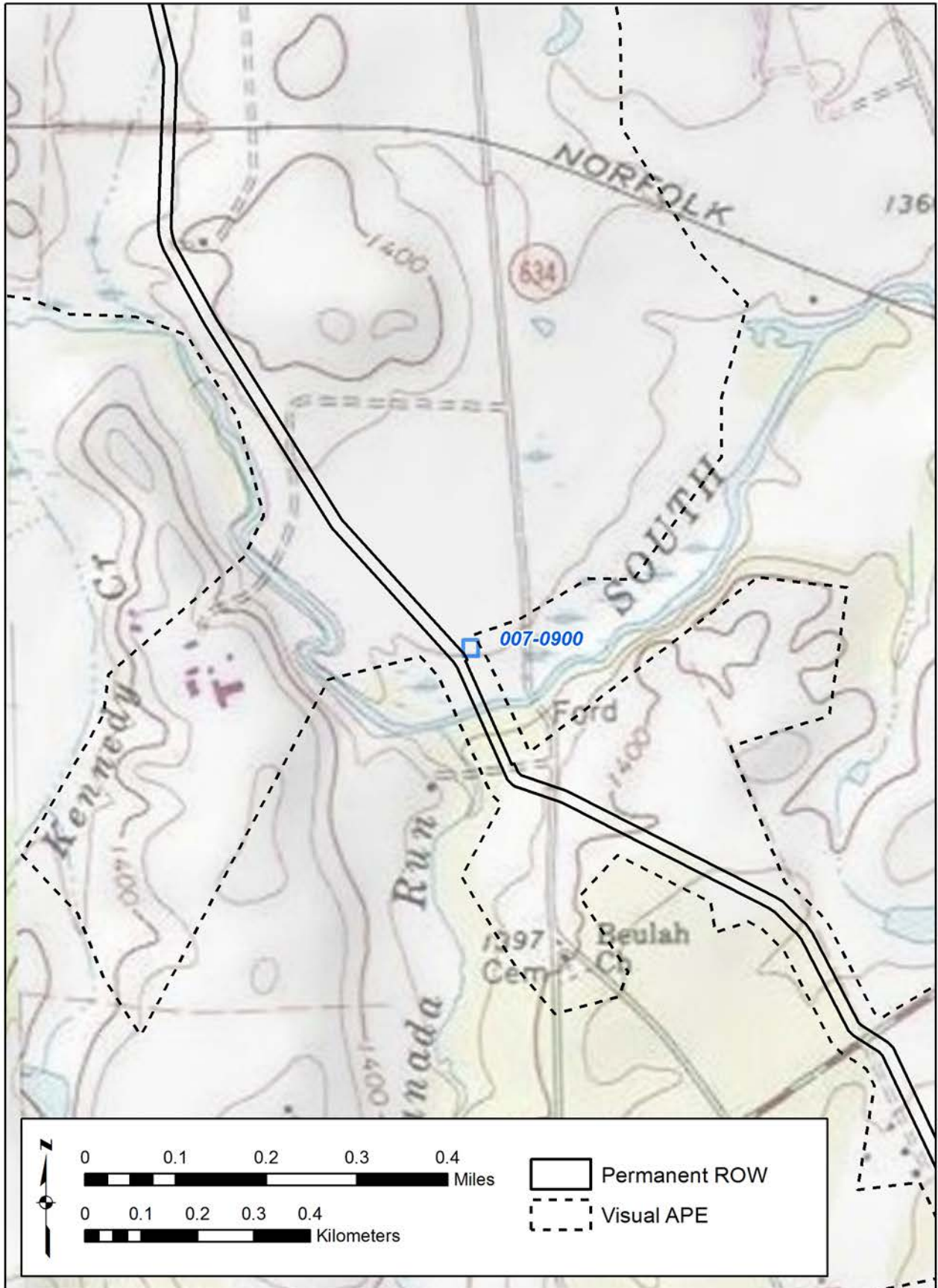


Figure 121. 007-0900 - USGS Quadrangle.

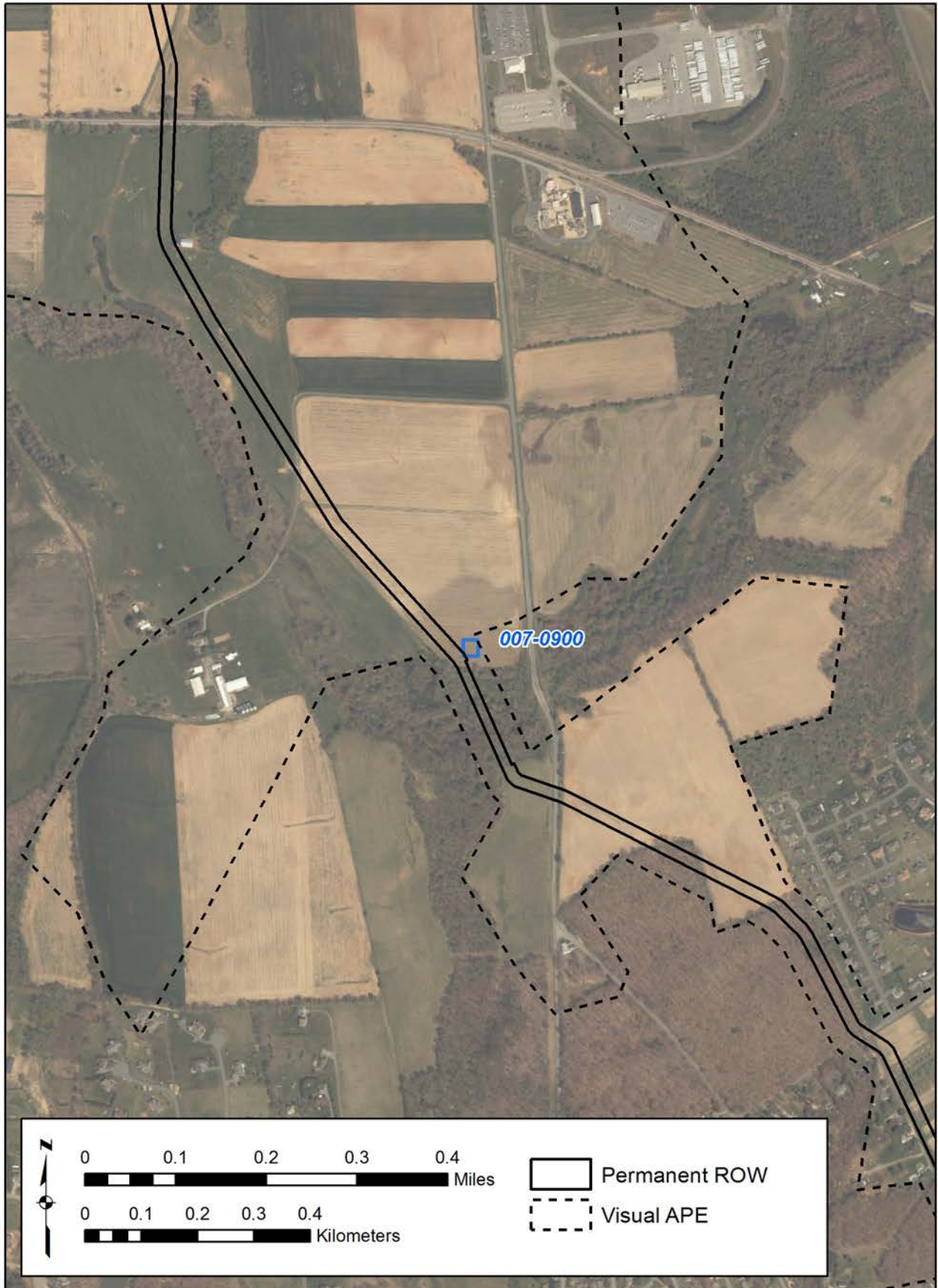


Figure 122. 007-0900 - Aerial.

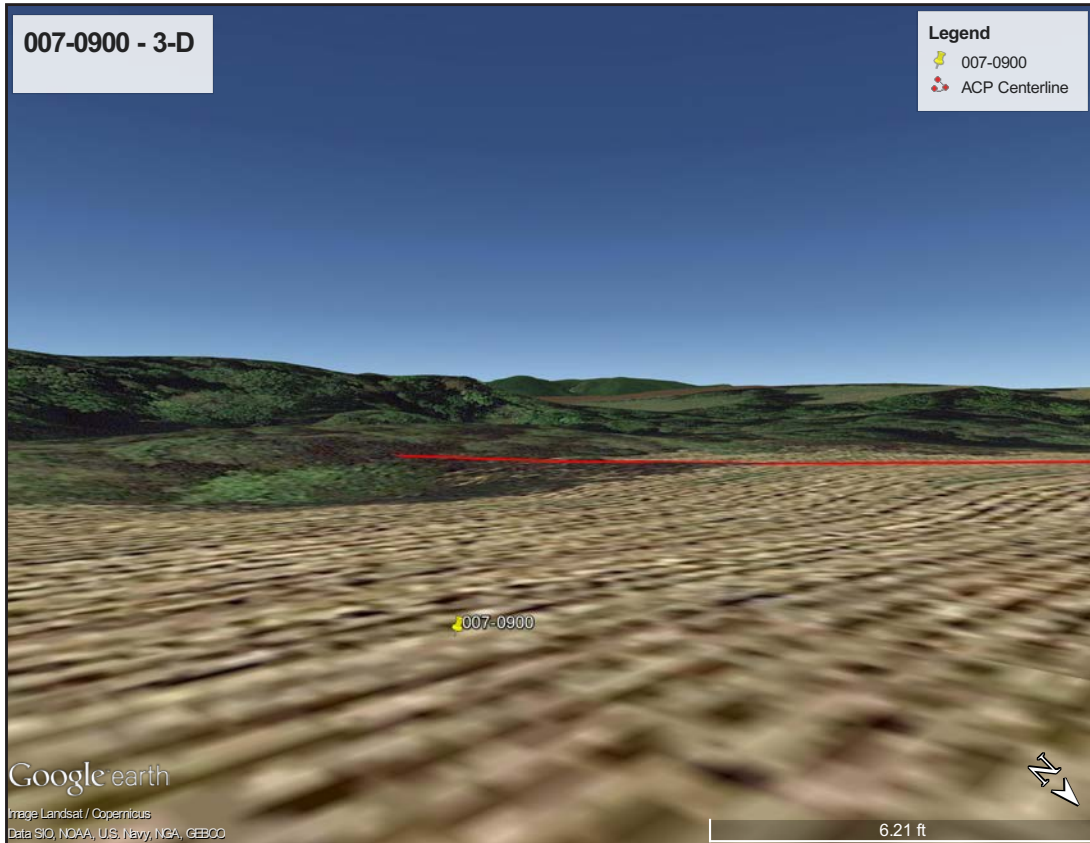


Figure 123. 007-0900 - 3-D View.

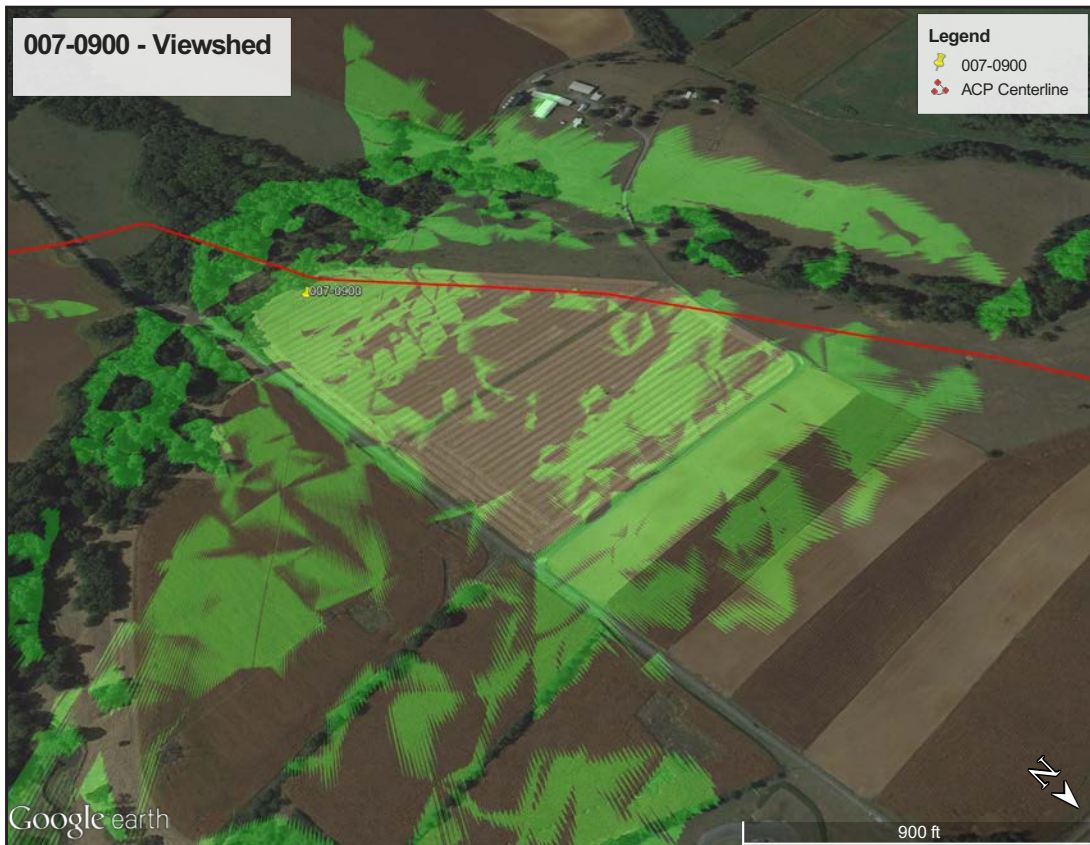


Figure 124. 007-0900 - Viewshed.



Figure 125. 007-0911 - USGS Quadrangle.



Figure 126. 007-0911 - Aerial.



Figure 127. 007-0911 - 3-D View.

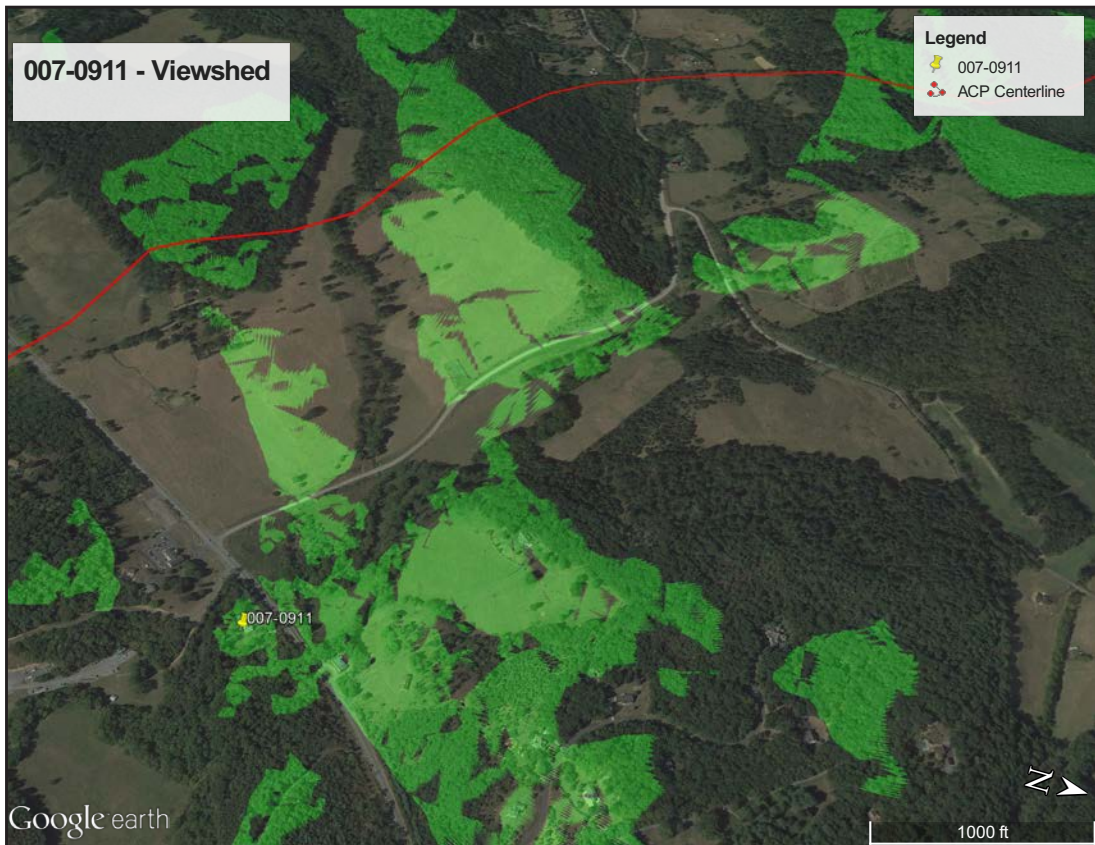


Figure 128. 007-0911 - Viewshed.



Figure 129. 007-0915 - USGS Quadrangle.

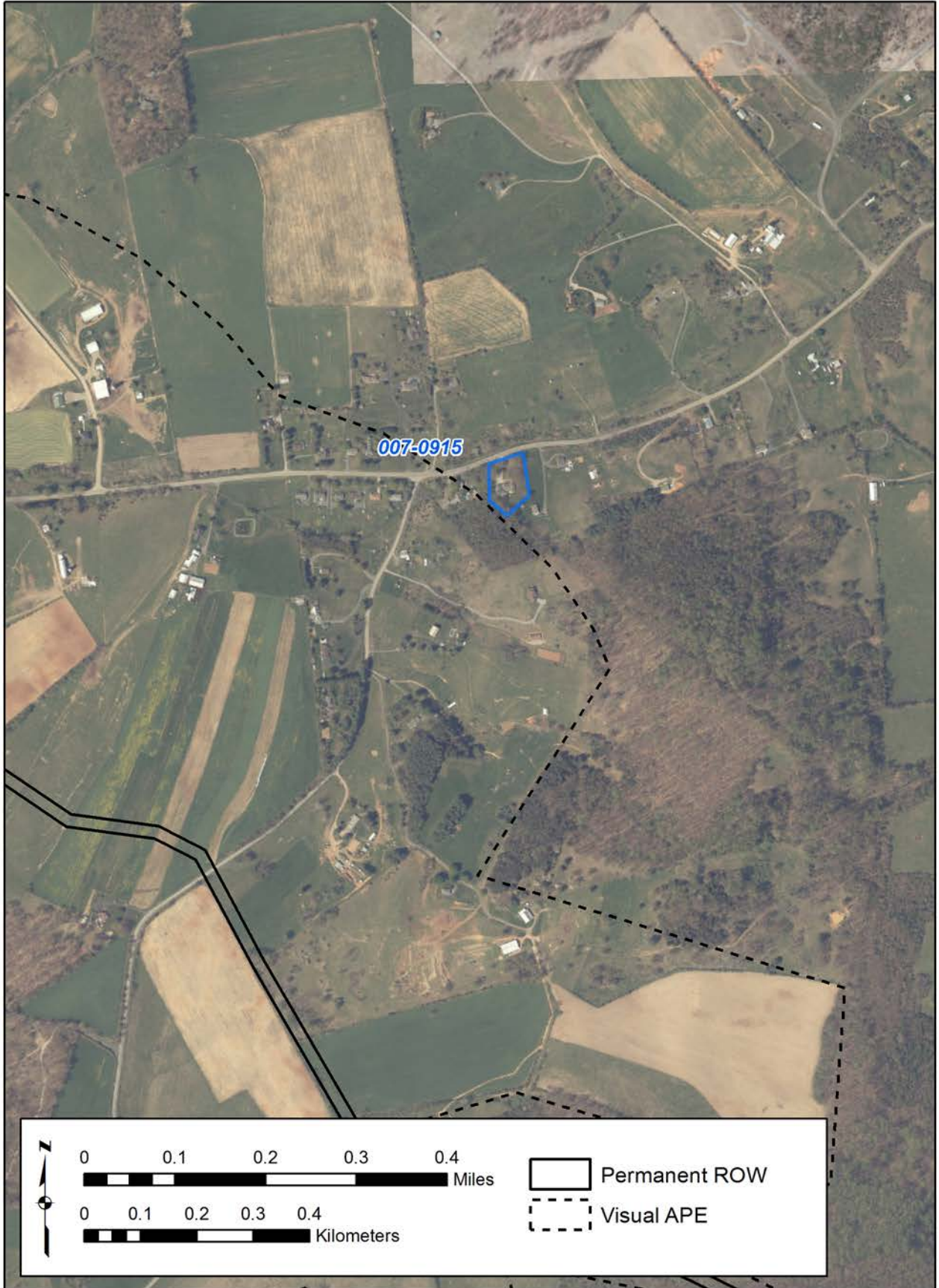


Figure 130. 007-0915 - Aerial.

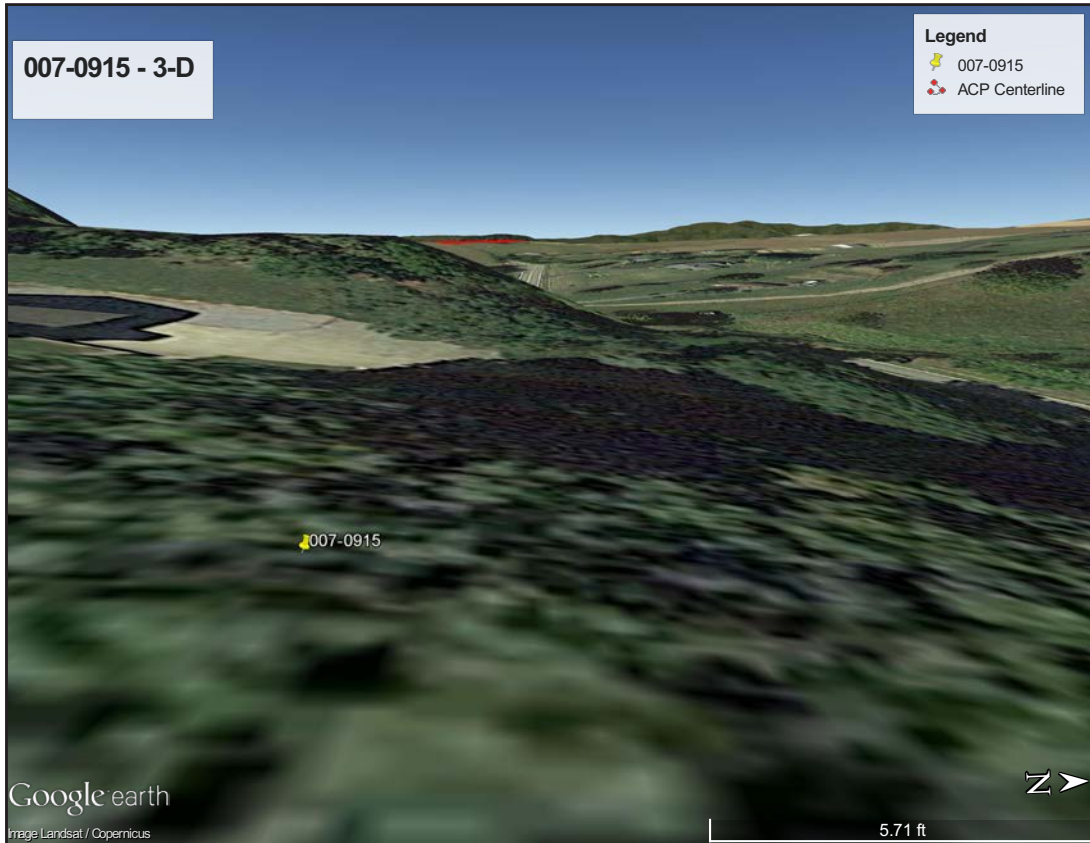


Figure 131. 007-0915 - 3-D View.

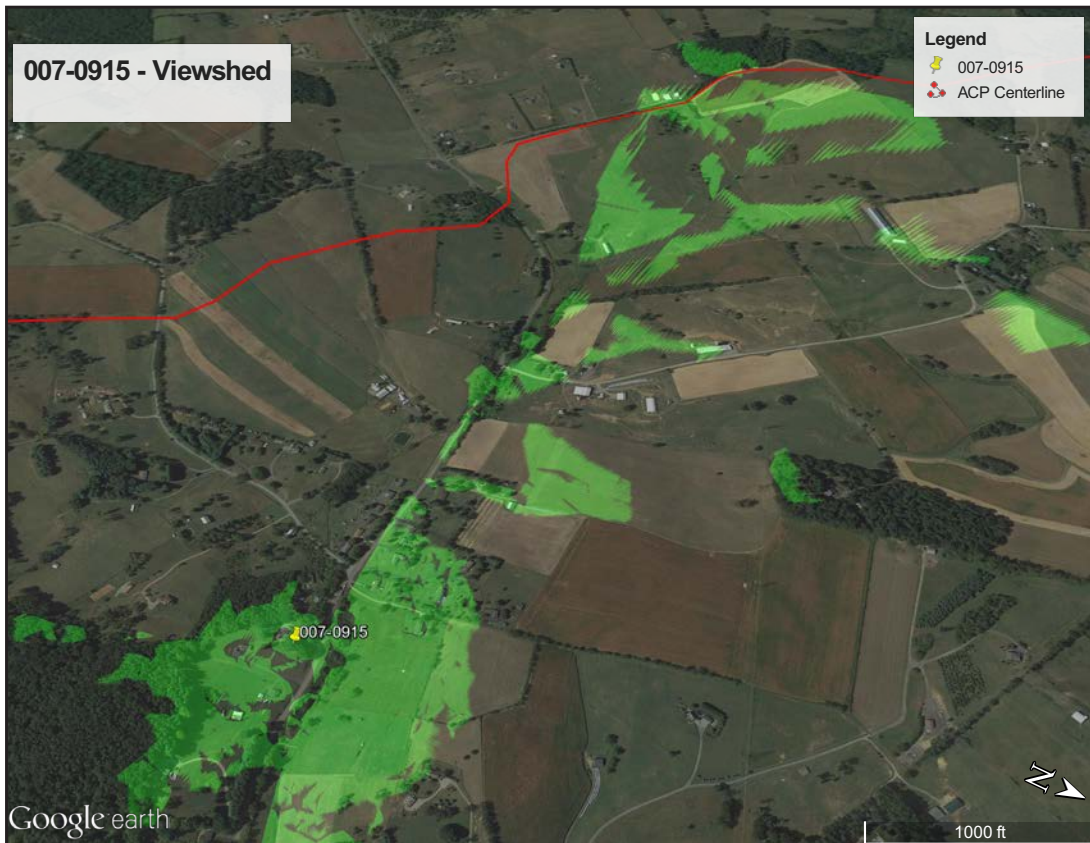


Figure 132. 007-0915 - Viewshed.



Figure 133. 007-0917 - USGS Quadrangle.

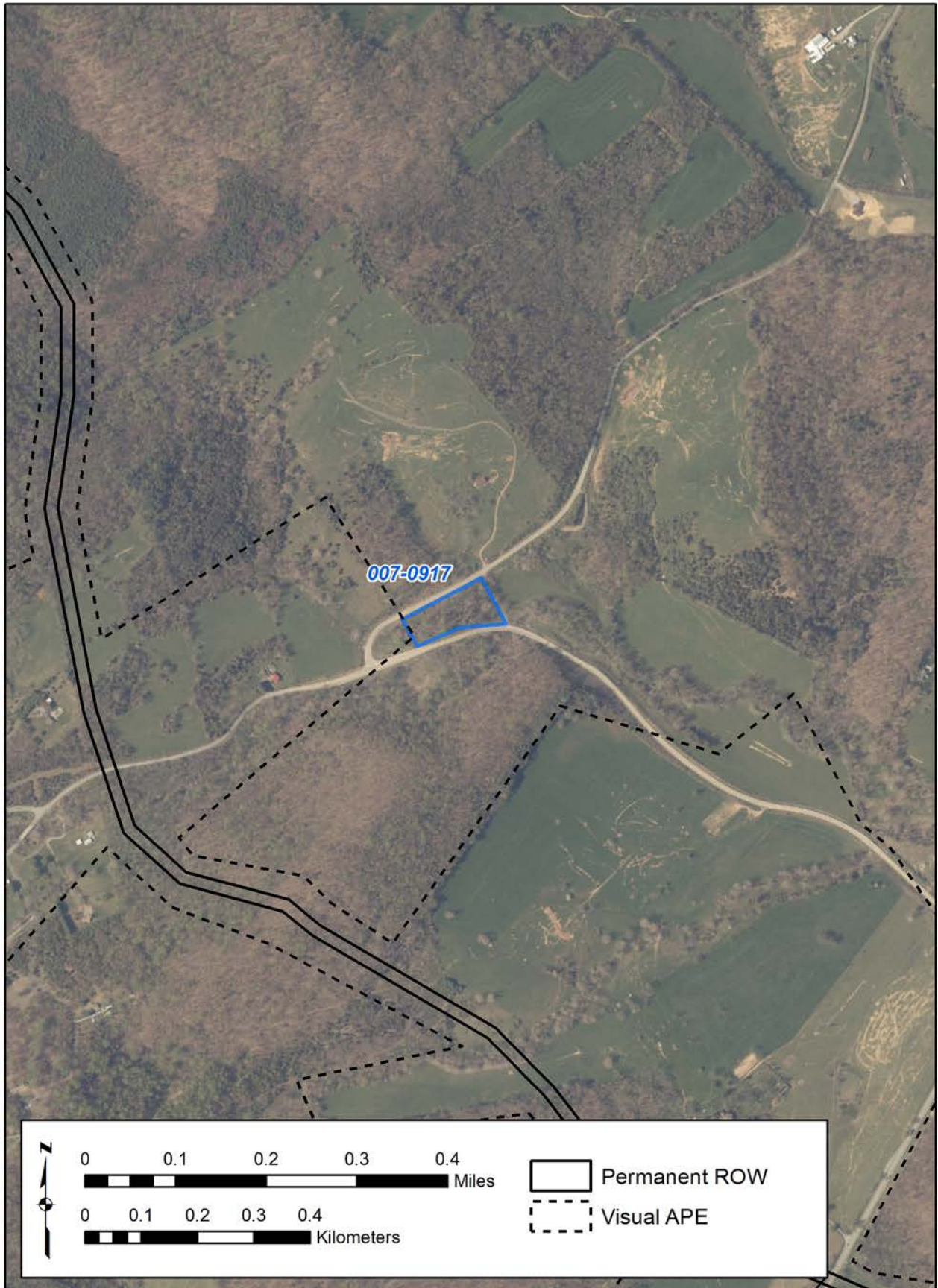


Figure 134. 007-0917 - Aerial.

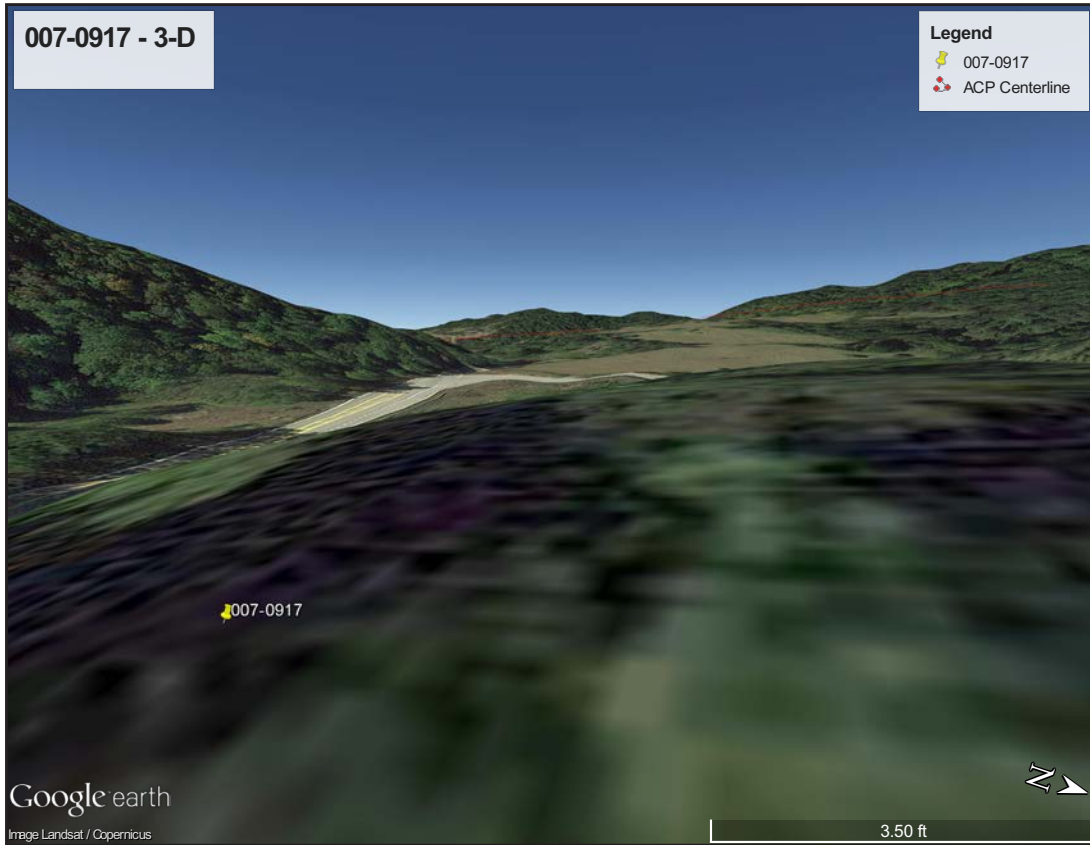


Figure 135. 007-0917 - 3-D View.

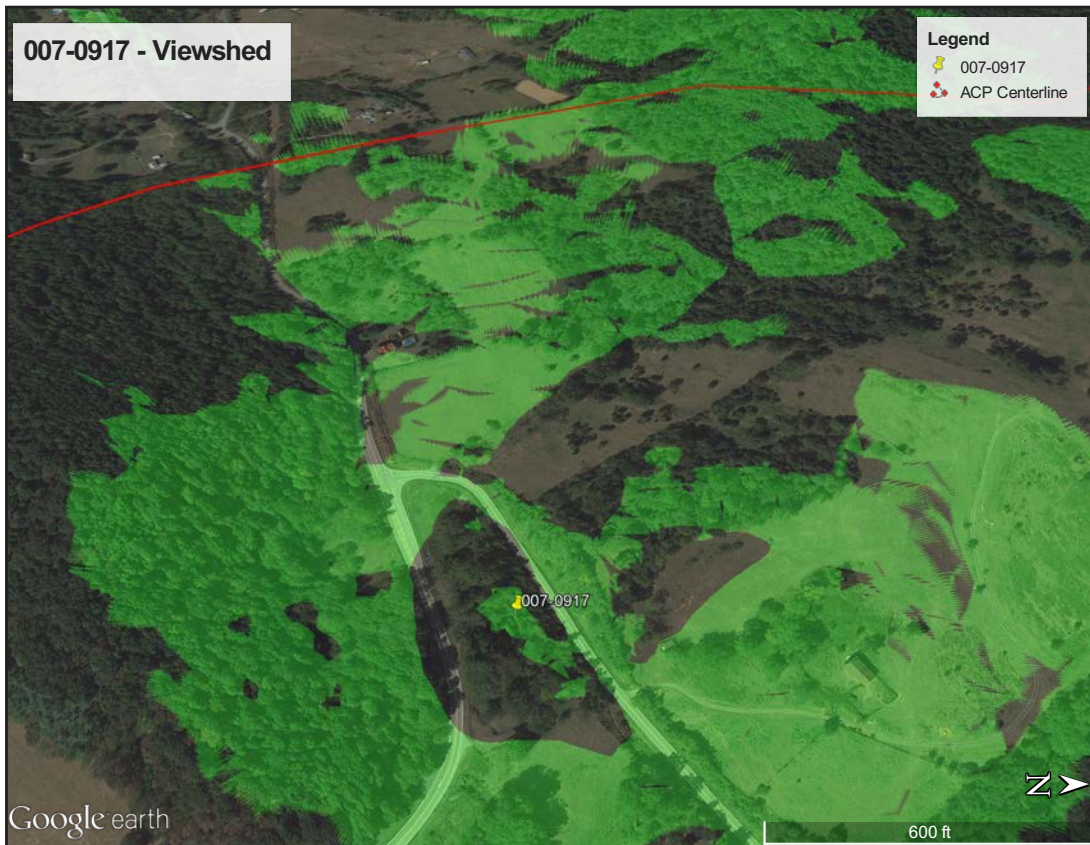


Figure 136. 007-0917 - Viewshed.



Figure 137. 007-0918 - USGS Quadrangle.

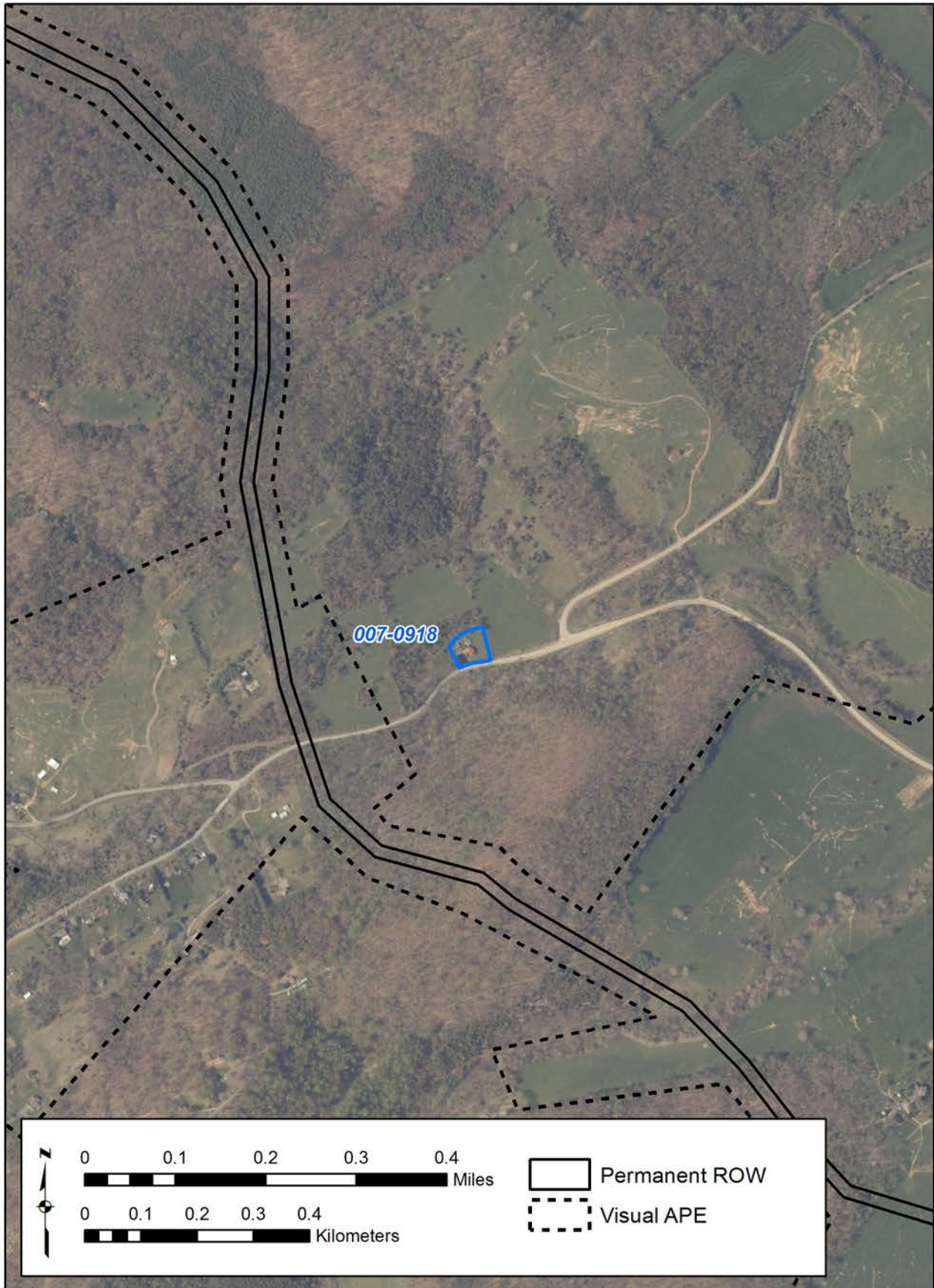


Figure 138. 007-0918 - Aerial.

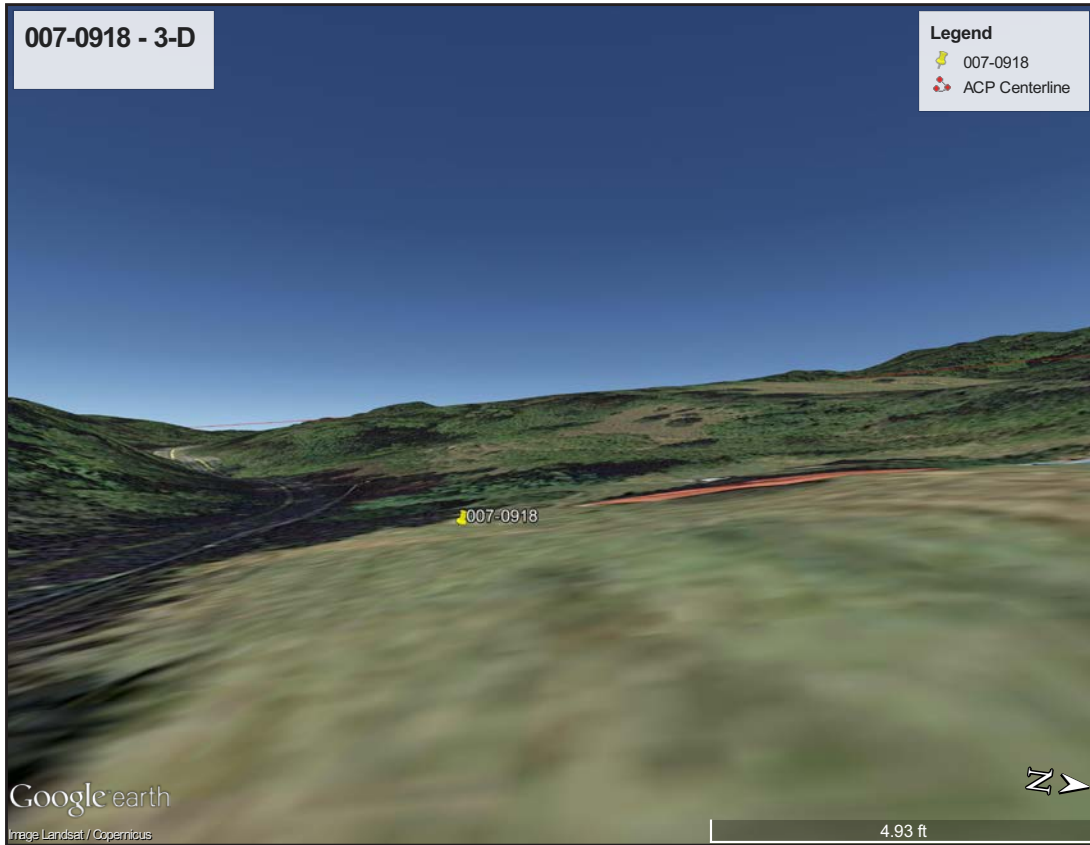


Figure 139. 007-0918 - 3-D View.

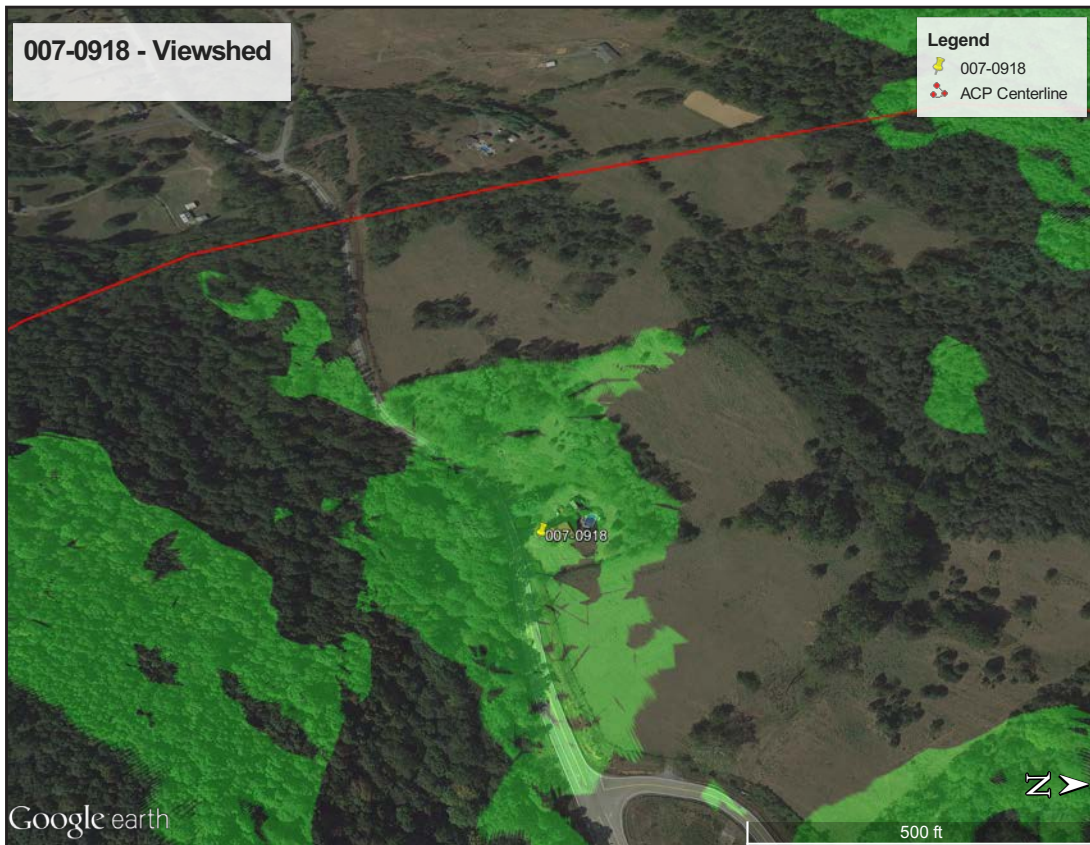


Figure 140. 007-0918 - Viewshed.

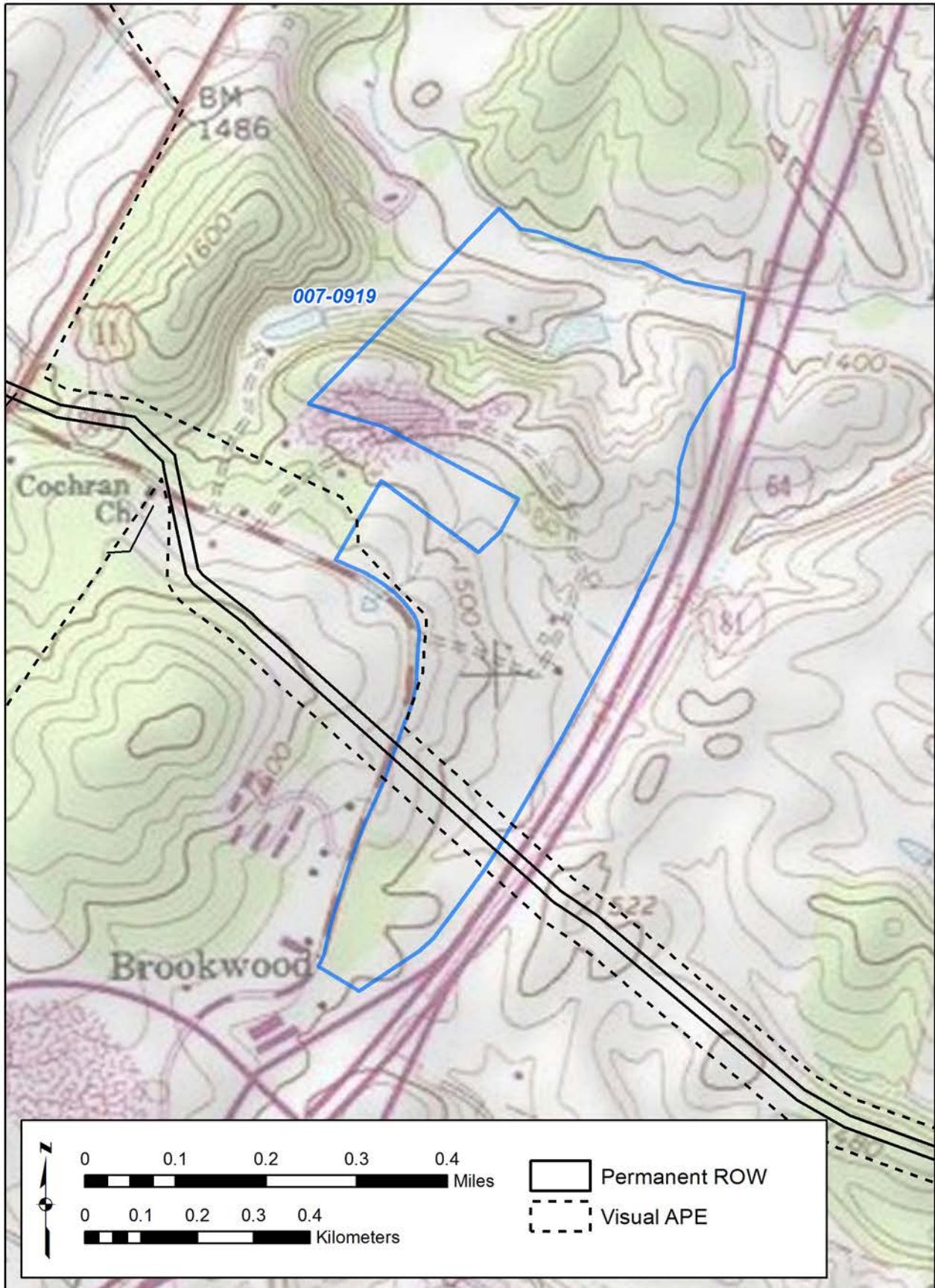


Figure 141. 007-0919 - USGS Quadrangle.



Figure 142. 007-0919 - Aerial.

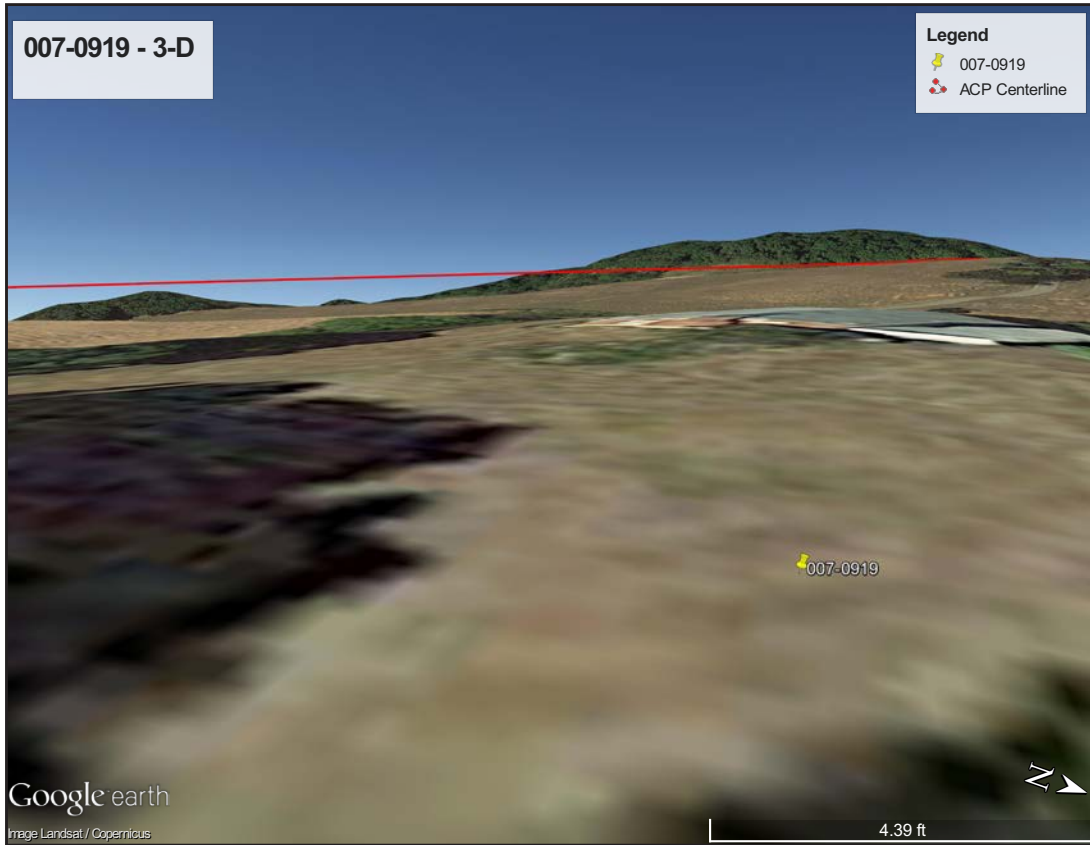


Figure 143. 007-0919 - 3-D View.



Figure 144. 007-0919 - Viewshed.



Figure 145. 007-0923 - USGS Quadrangle.

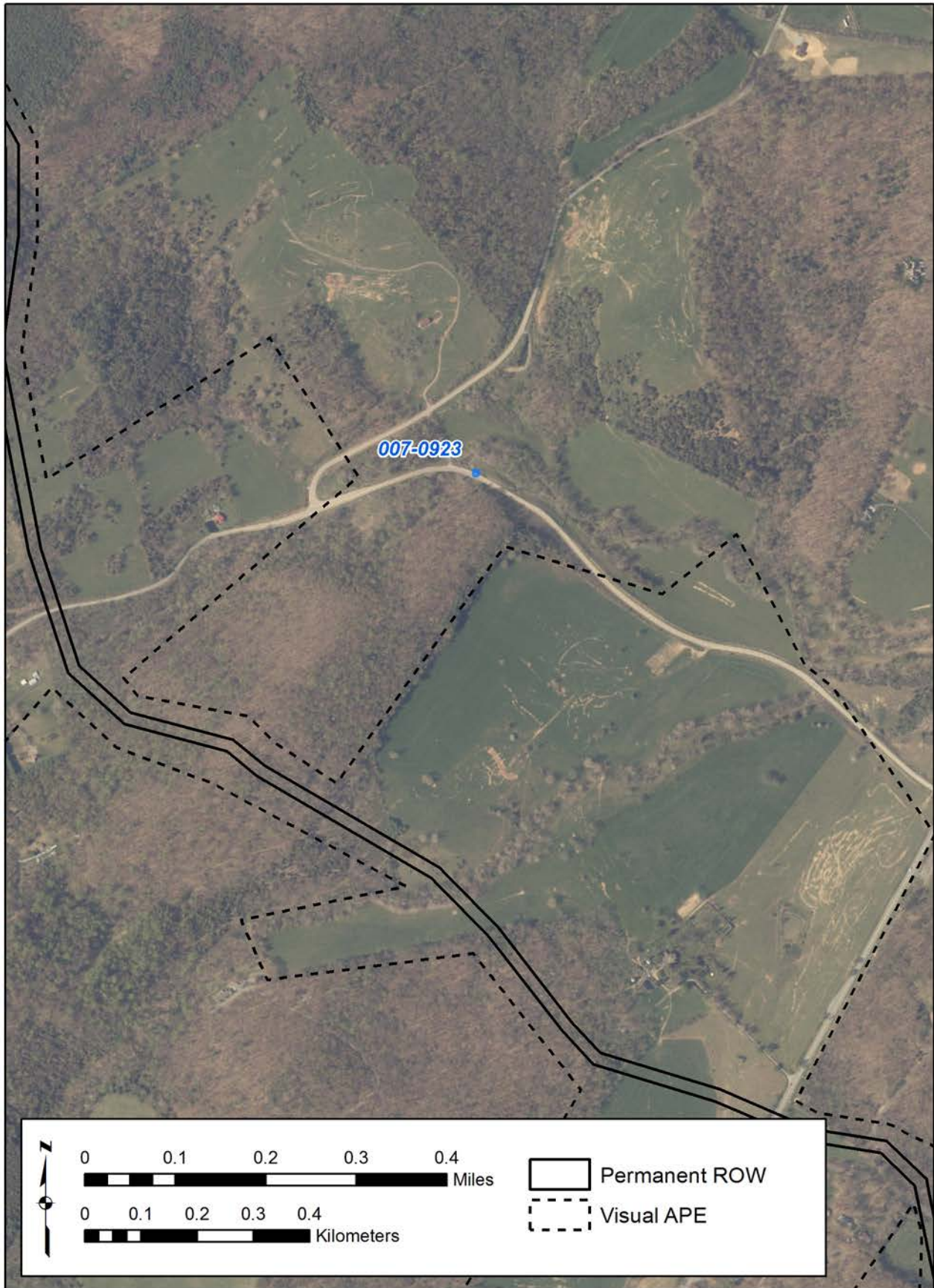


Figure 146. 007-0923 - Aerial.



Figure 147. 007-0923 - 3-D View.

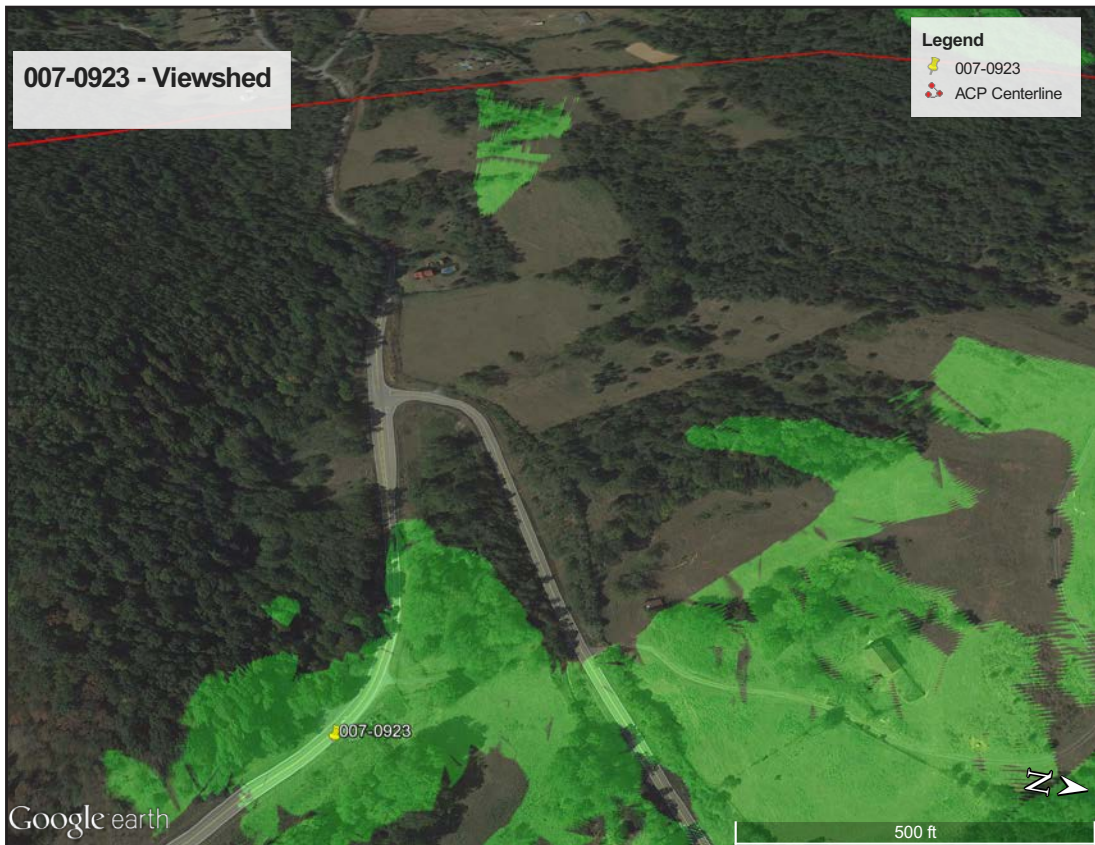


Figure 148. 007-0923 - Viewshed.

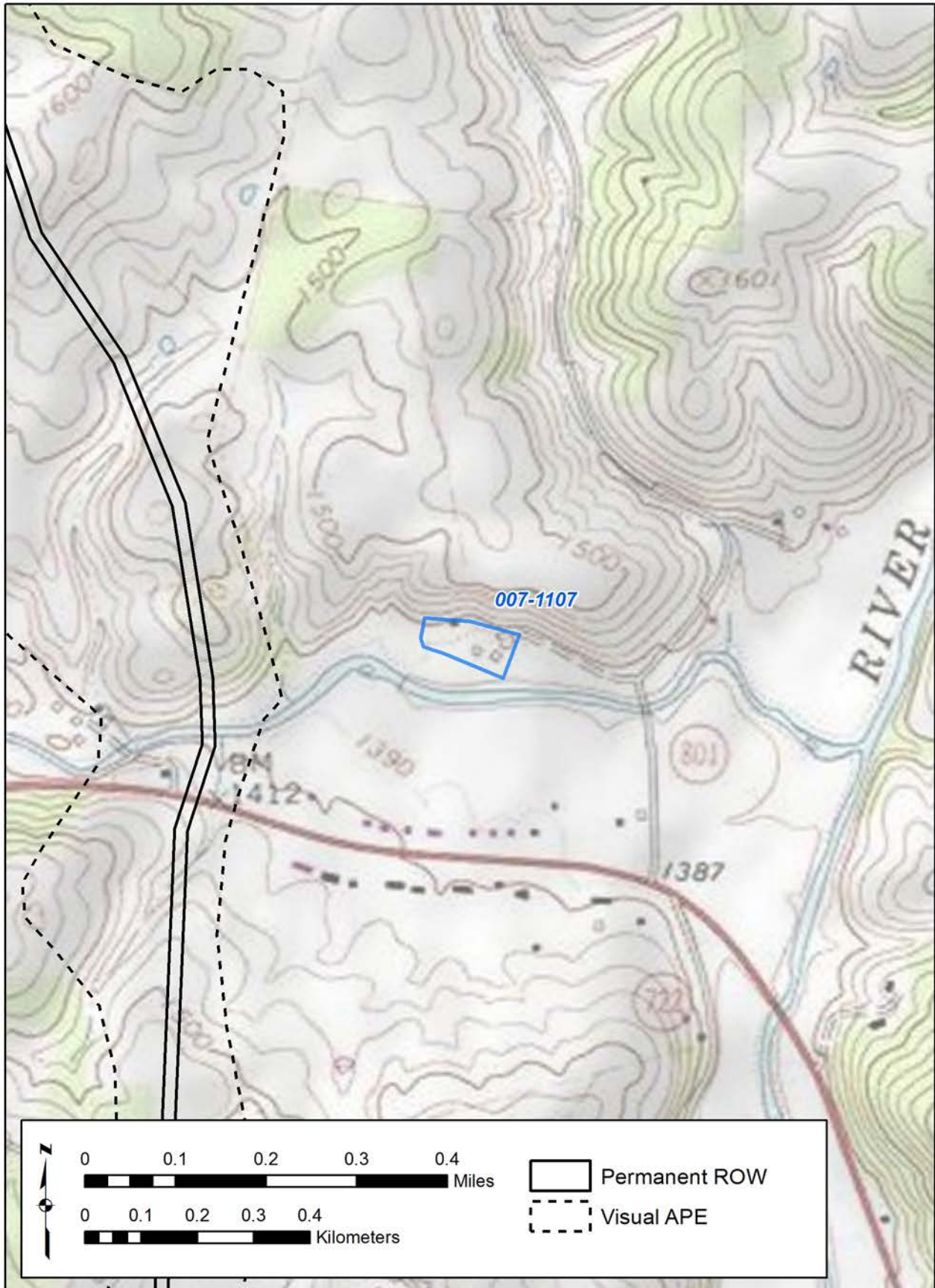


Figure 149. 007-1107 - USGS Quadrangle.



Figure 150. 007-1107 - Aerial.

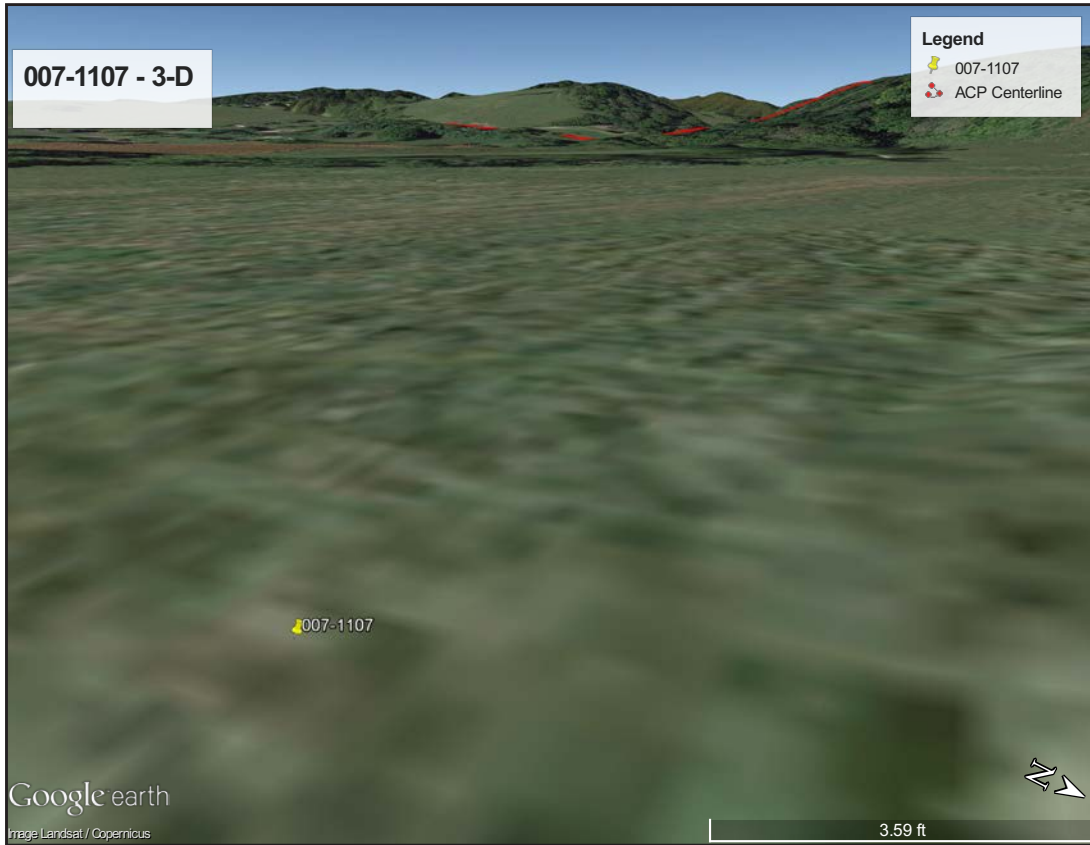


Figure 151. 007-1107 - 3-D View.

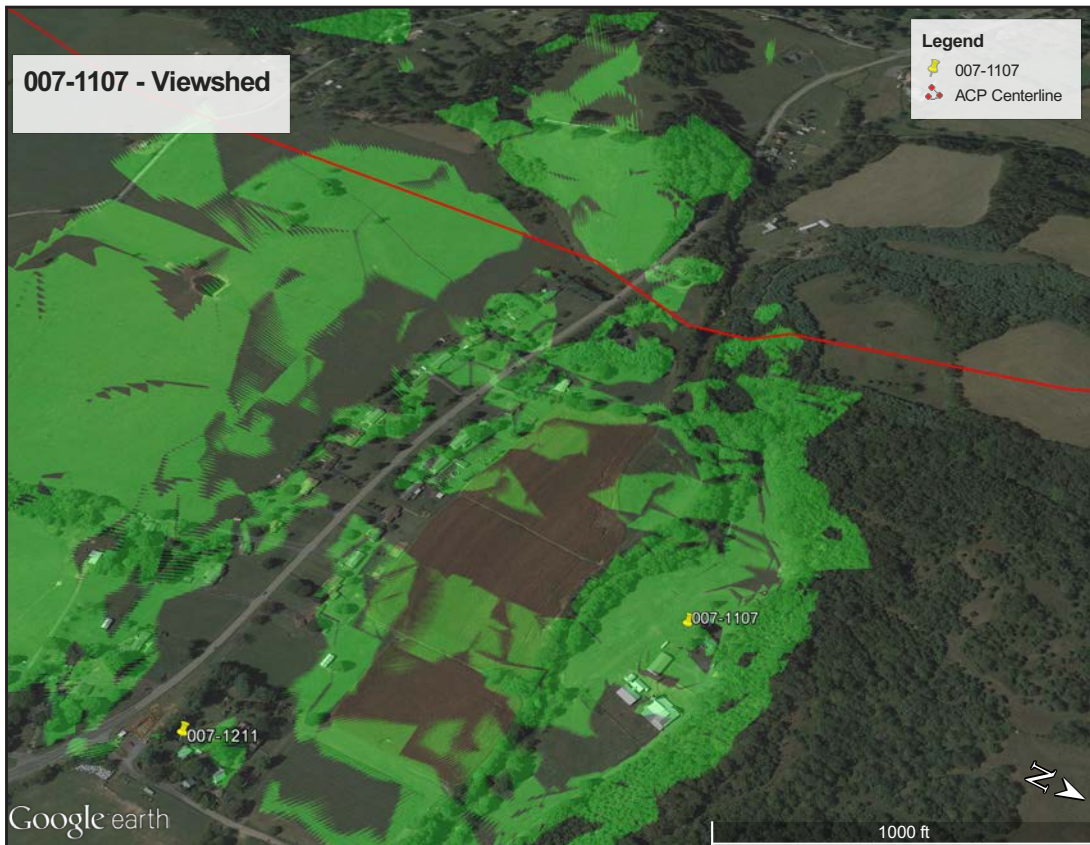


Figure 152. 007-1107 - Viewshed.

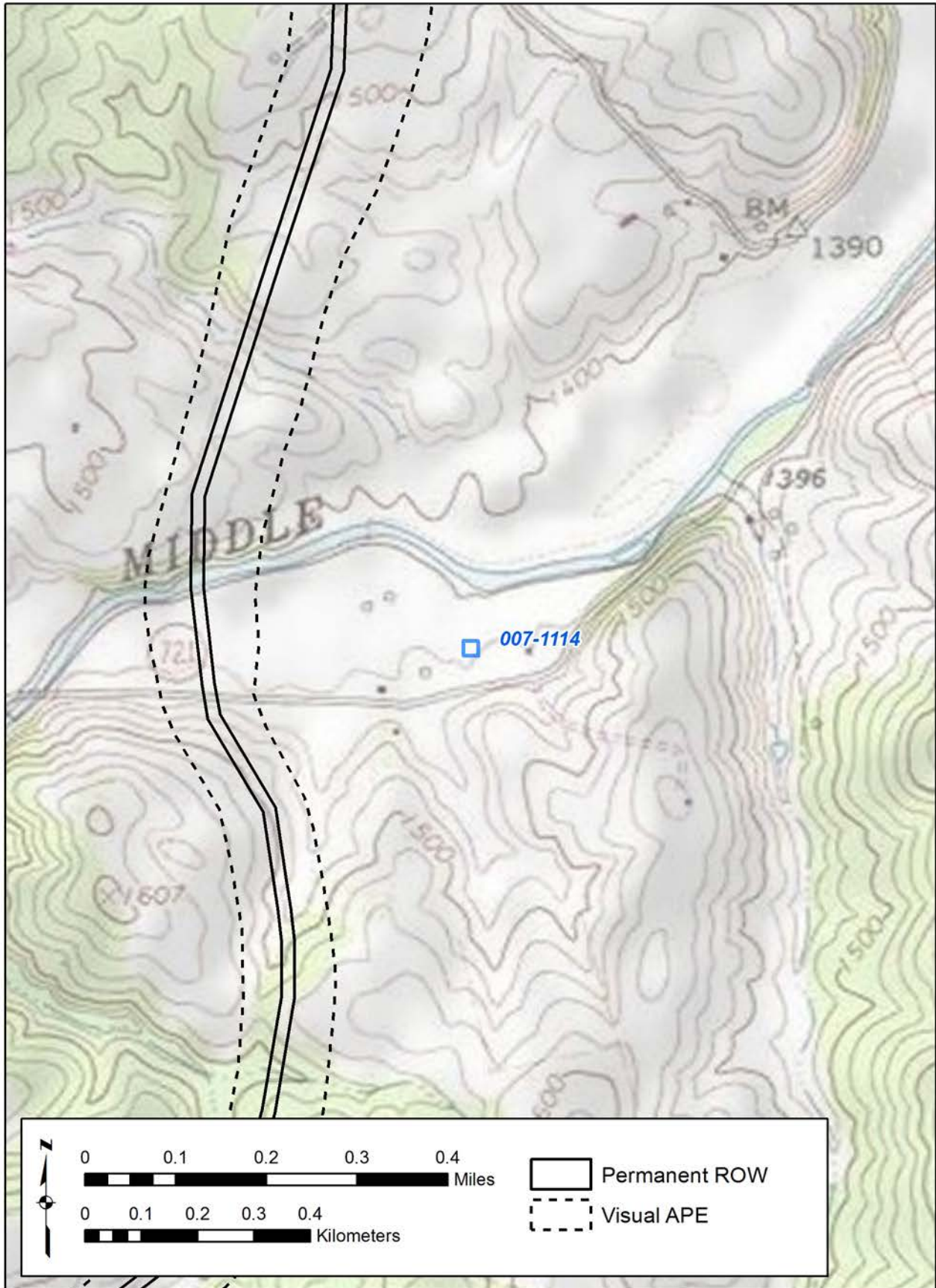


Figure 153. 007-1114 - USGS Quadrangle.



Figure 154. 007-1114 - Aerial.

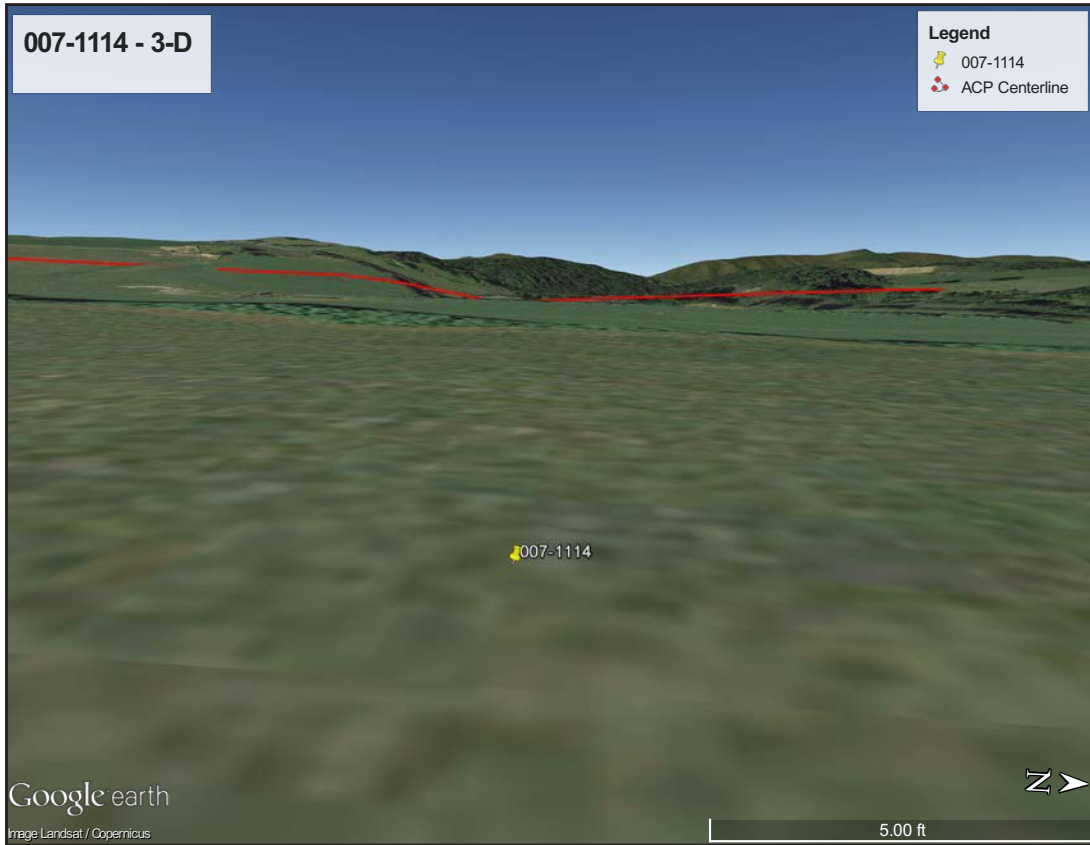


Figure 155. 007-1114 - 3-D View.

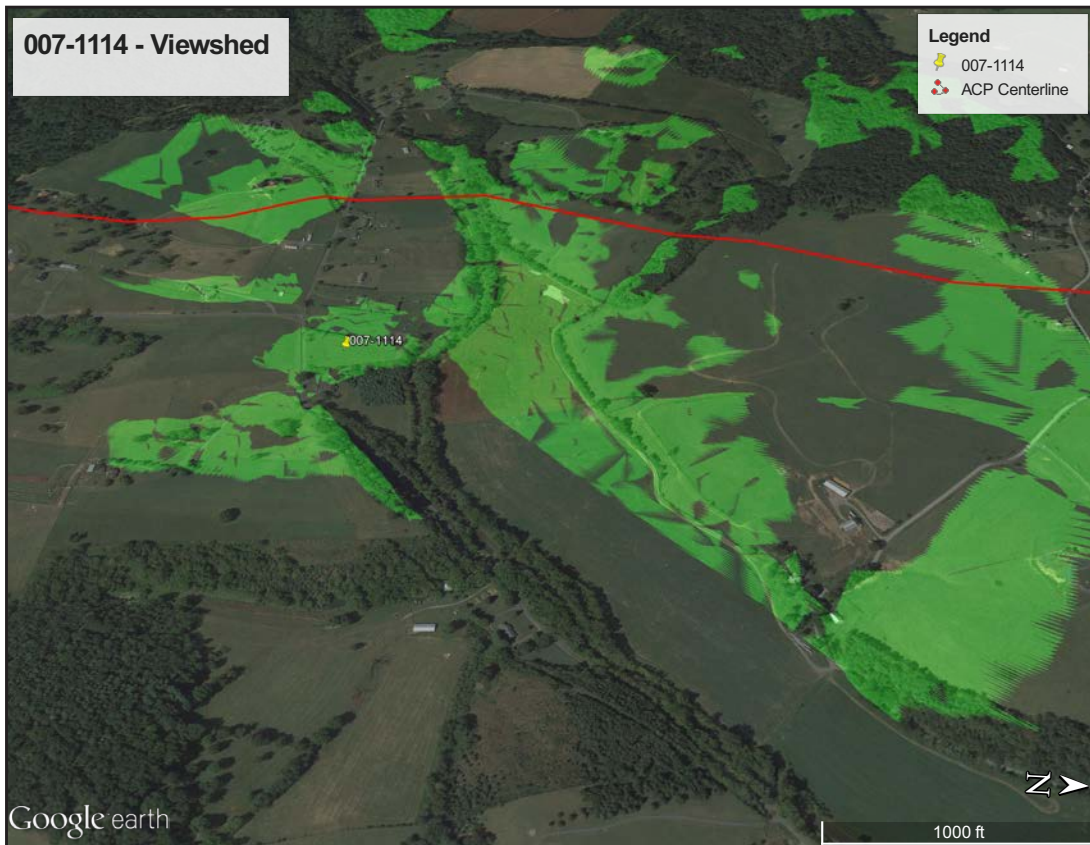


Figure 156. 007-1114 - Viewshed.

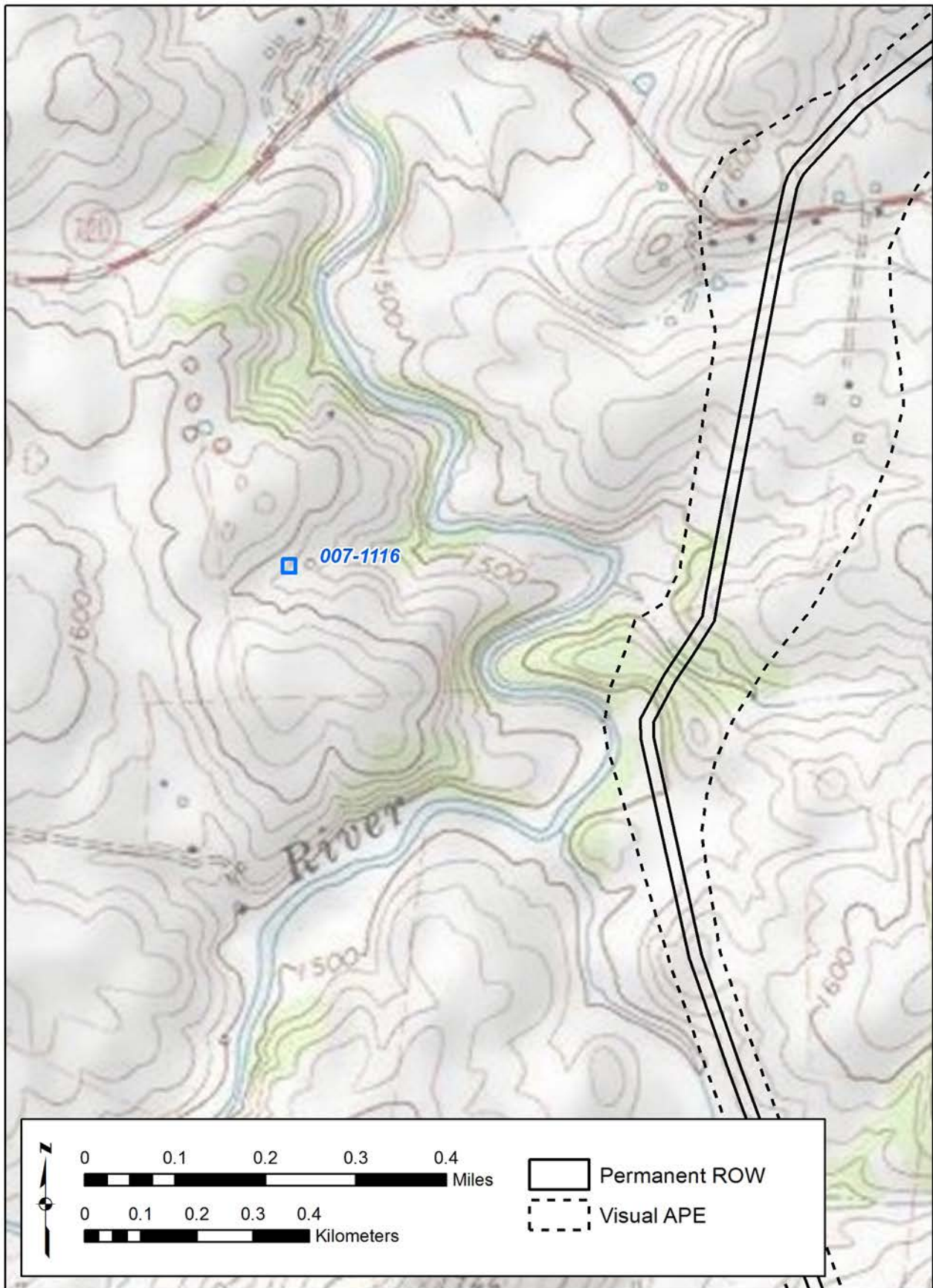


Figure 157. 007-1116 - USGS Quadrangle.

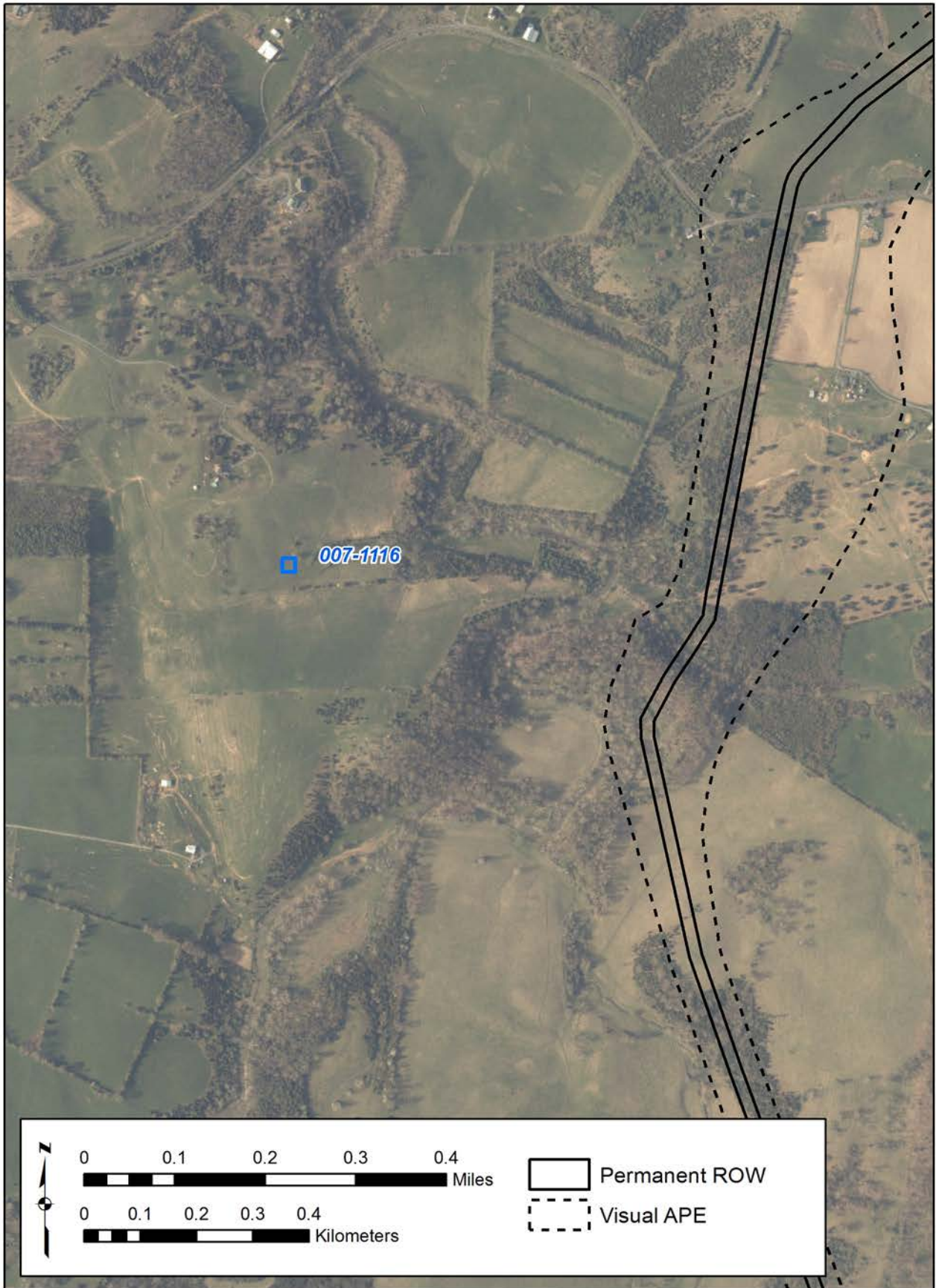


Figure 158. 007-1116 - Aerial.



Figure 159. 007-1116 - 3-D View.

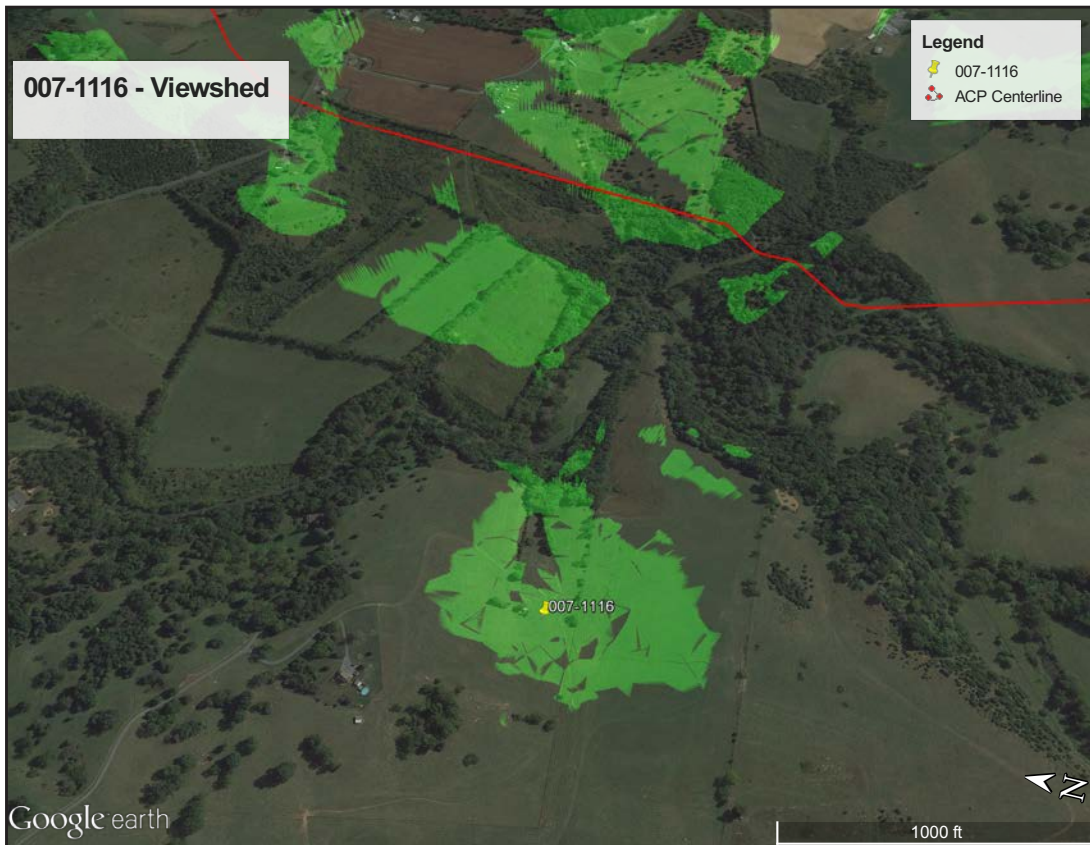


Figure 160. 007-1116 - Viewshed.

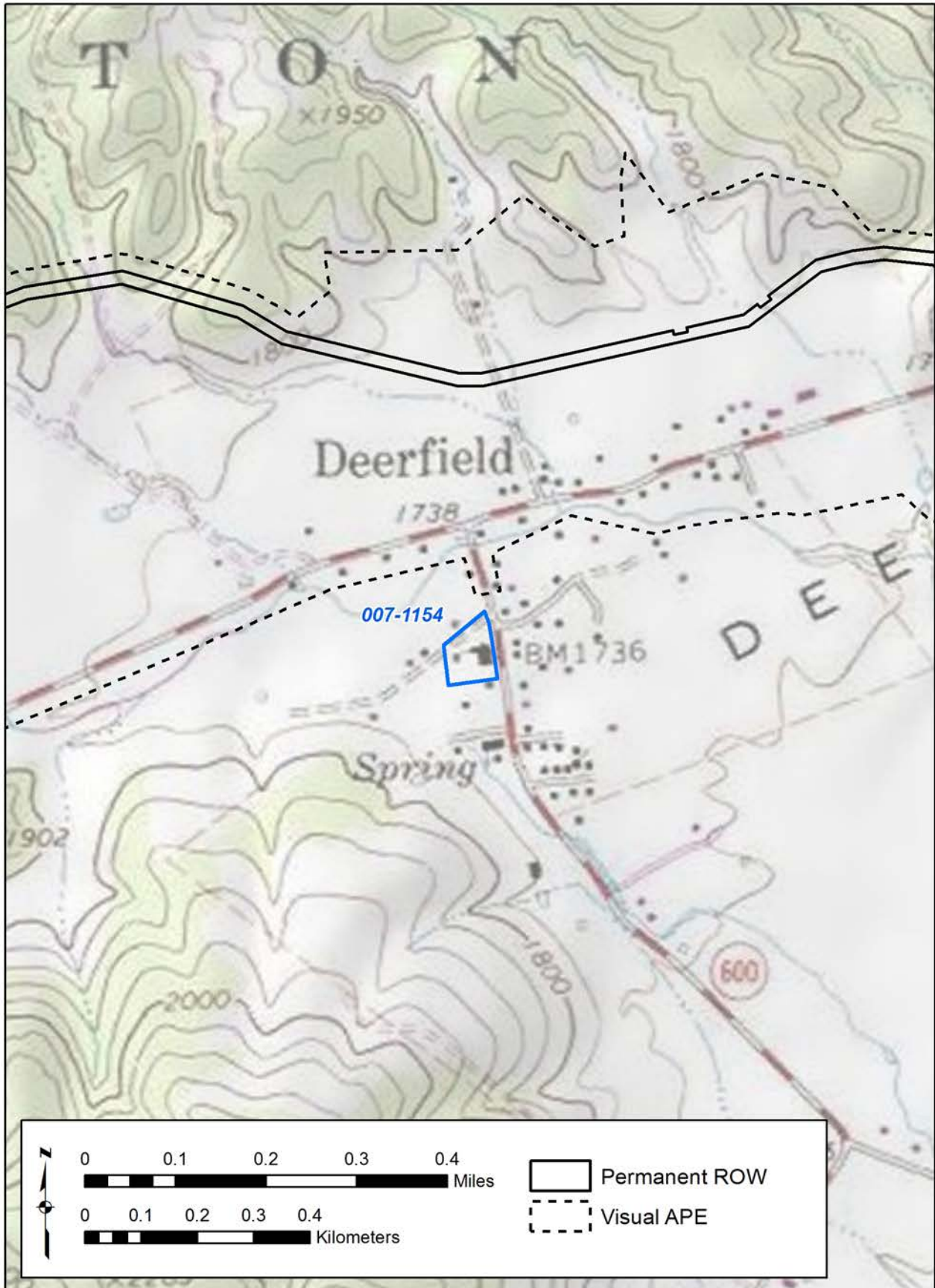


Figure 161. 007-1154 - USGS Quadrangle.



Figure 162. 007-1154 - Aerial.

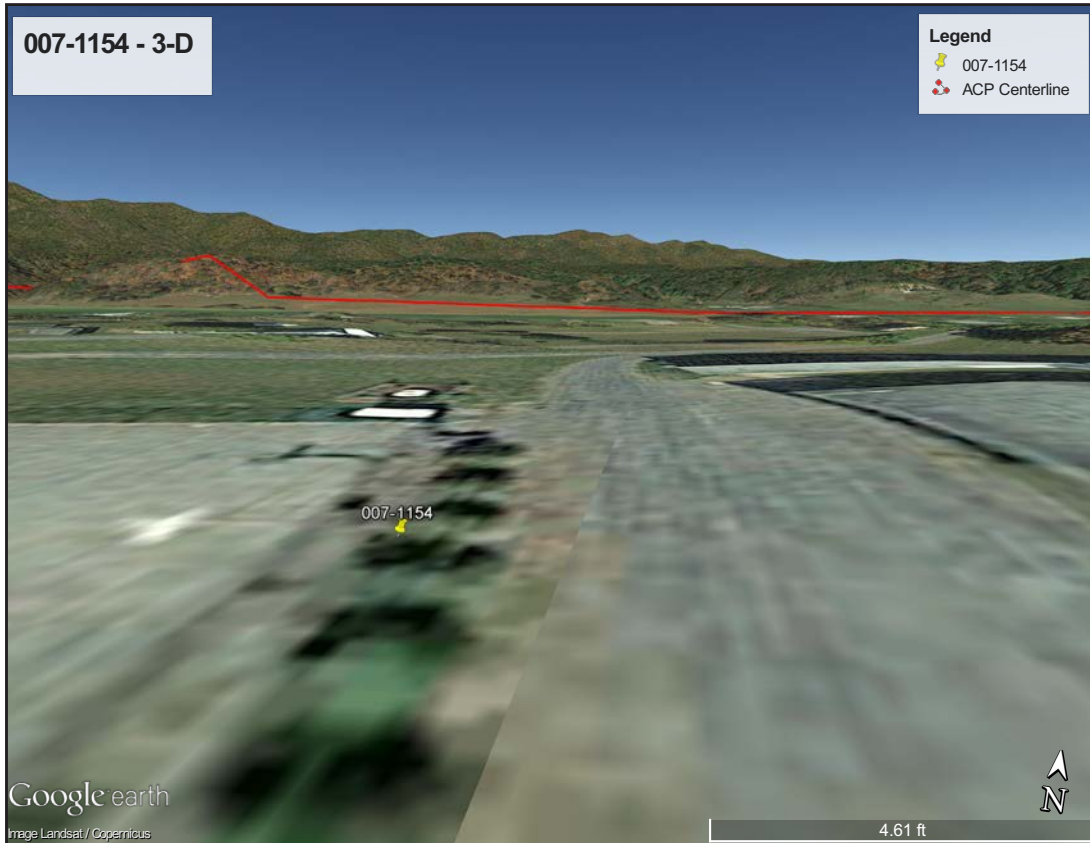


Figure 163. 007-1154 - 3-D View.



Figure 164. 007-1154 - Viewshed.

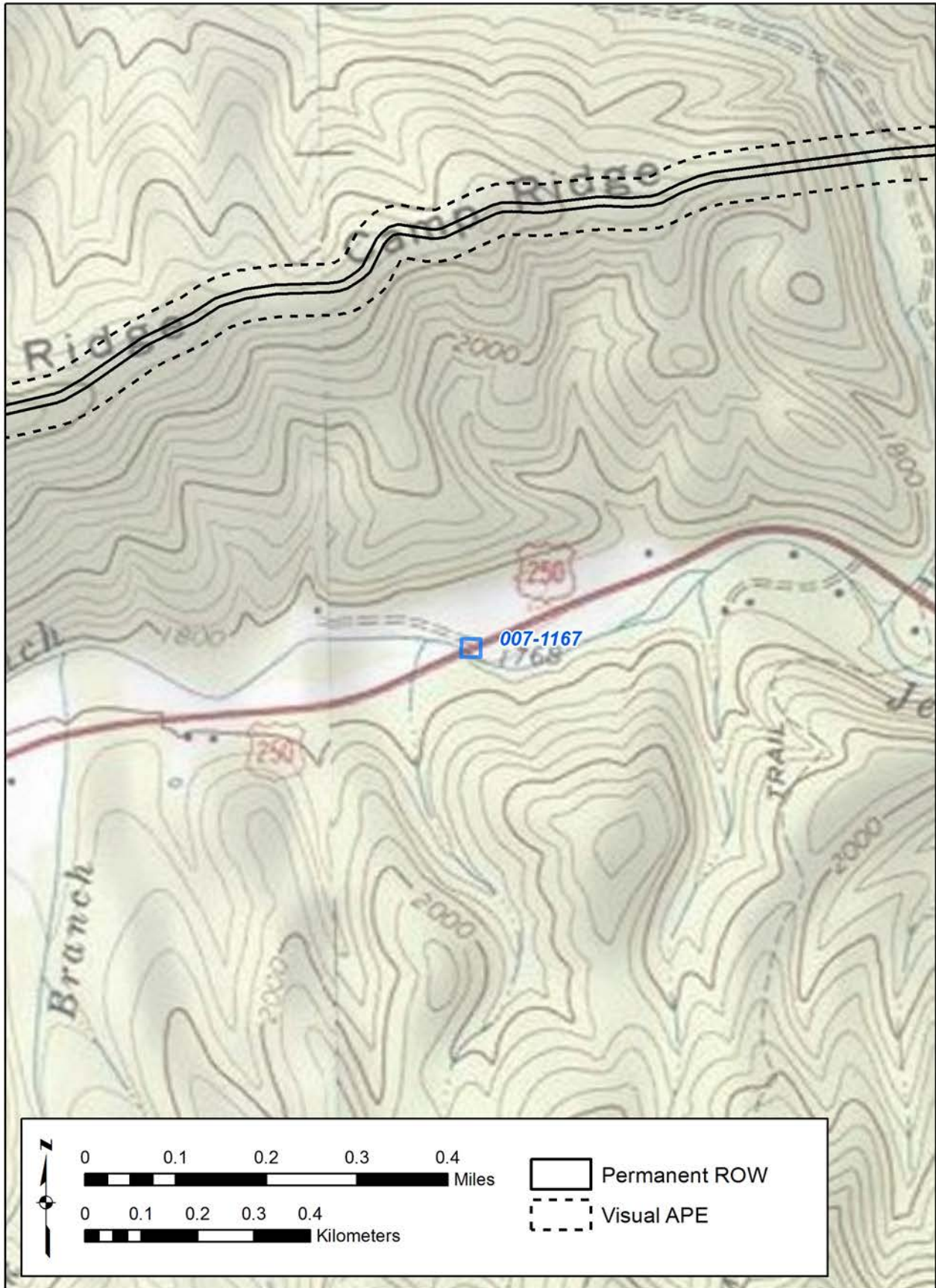


Figure 165. 007-1167 - USGS Quadrangle.



Figure 166. 007-1167 - Aerial.

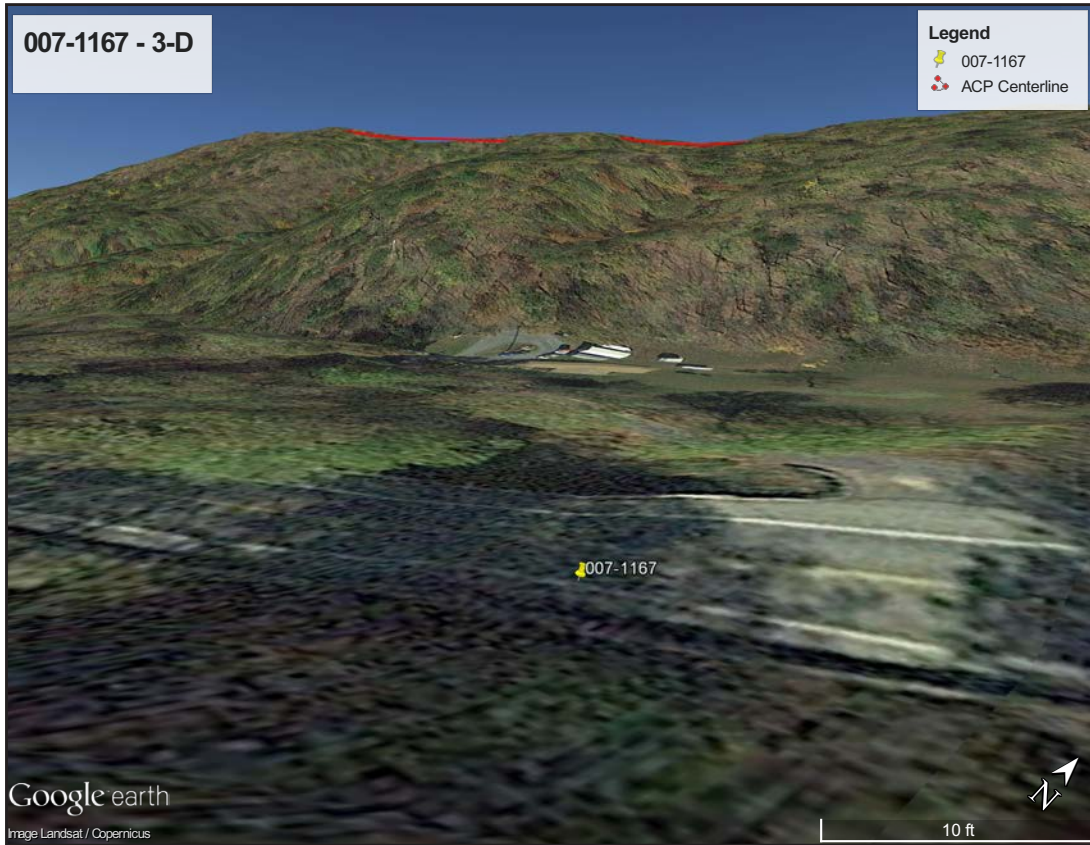


Figure 167. 007-1167 - 3-D View.

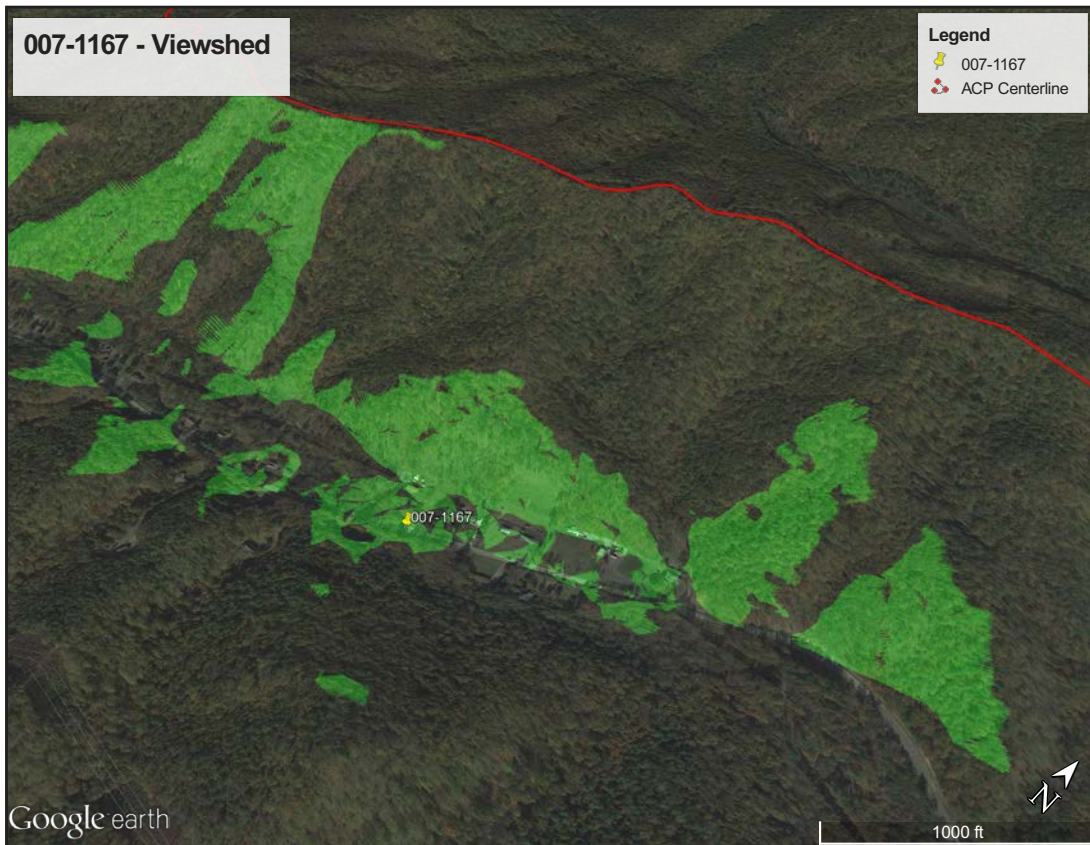


Figure 168. 007-1167 - Viewshed.



Figure 169. 007-1172 - USGS Quadrangle.

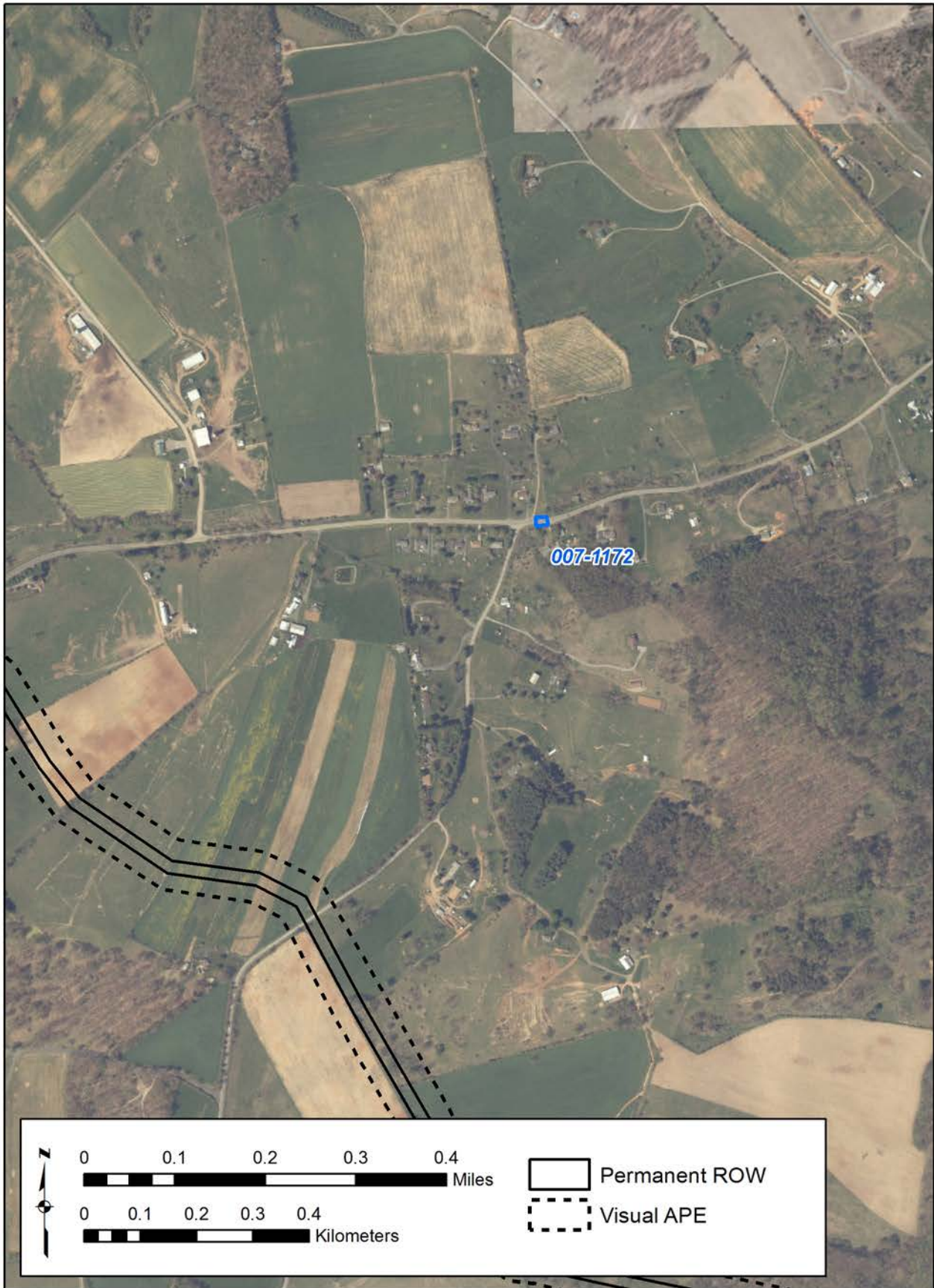


Figure 170. 007-1172 - Aerial.

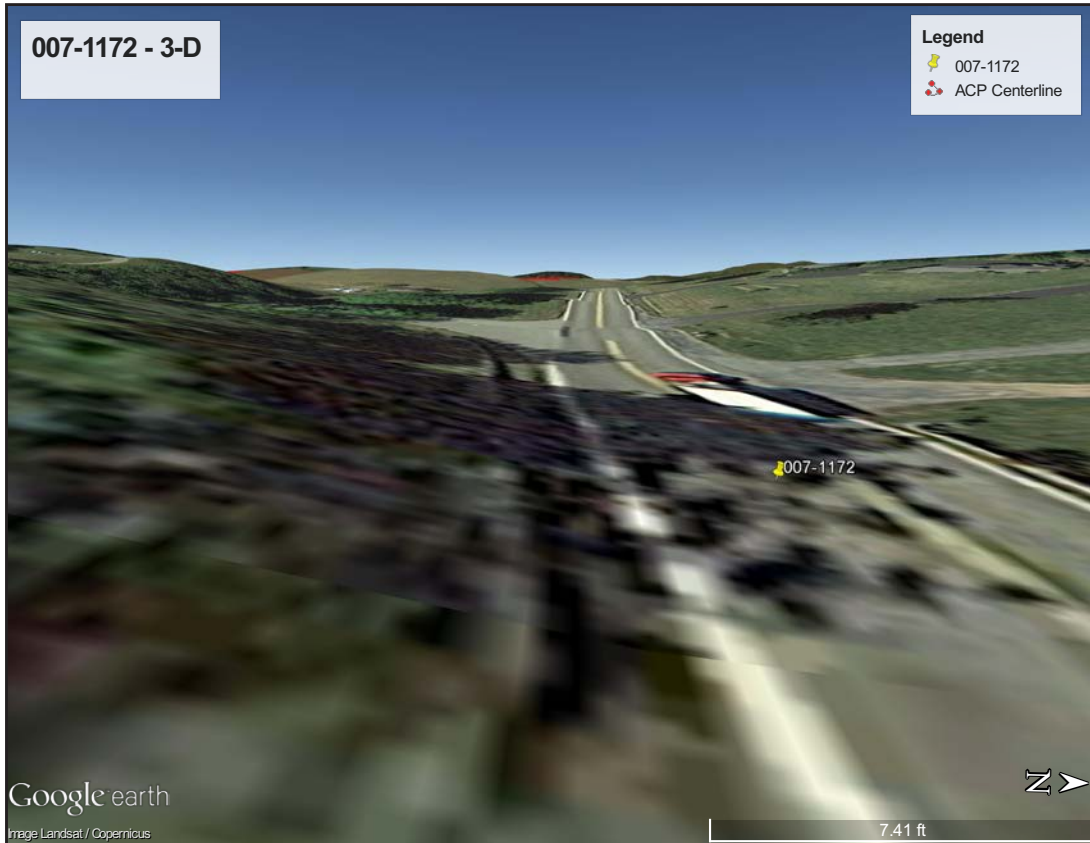


Figure 171. 007-1172 - 3-D View.

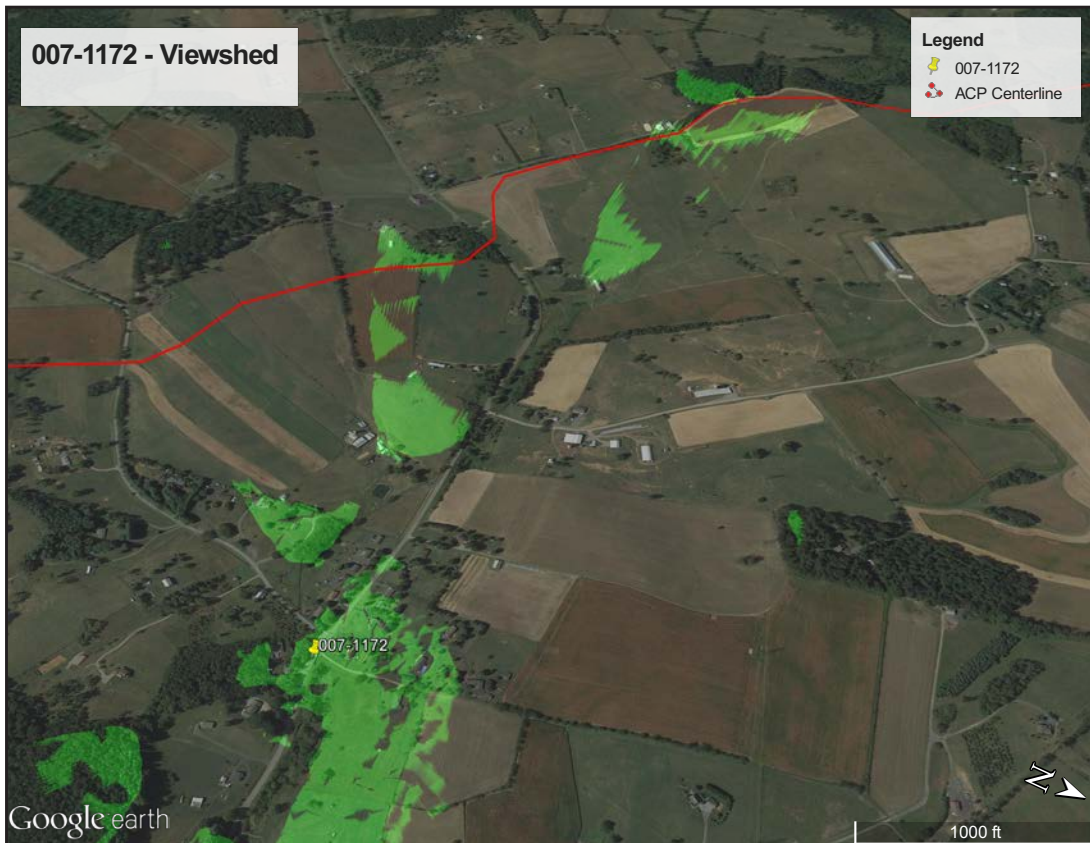


Figure 172. 007-1172 - Viewshed.

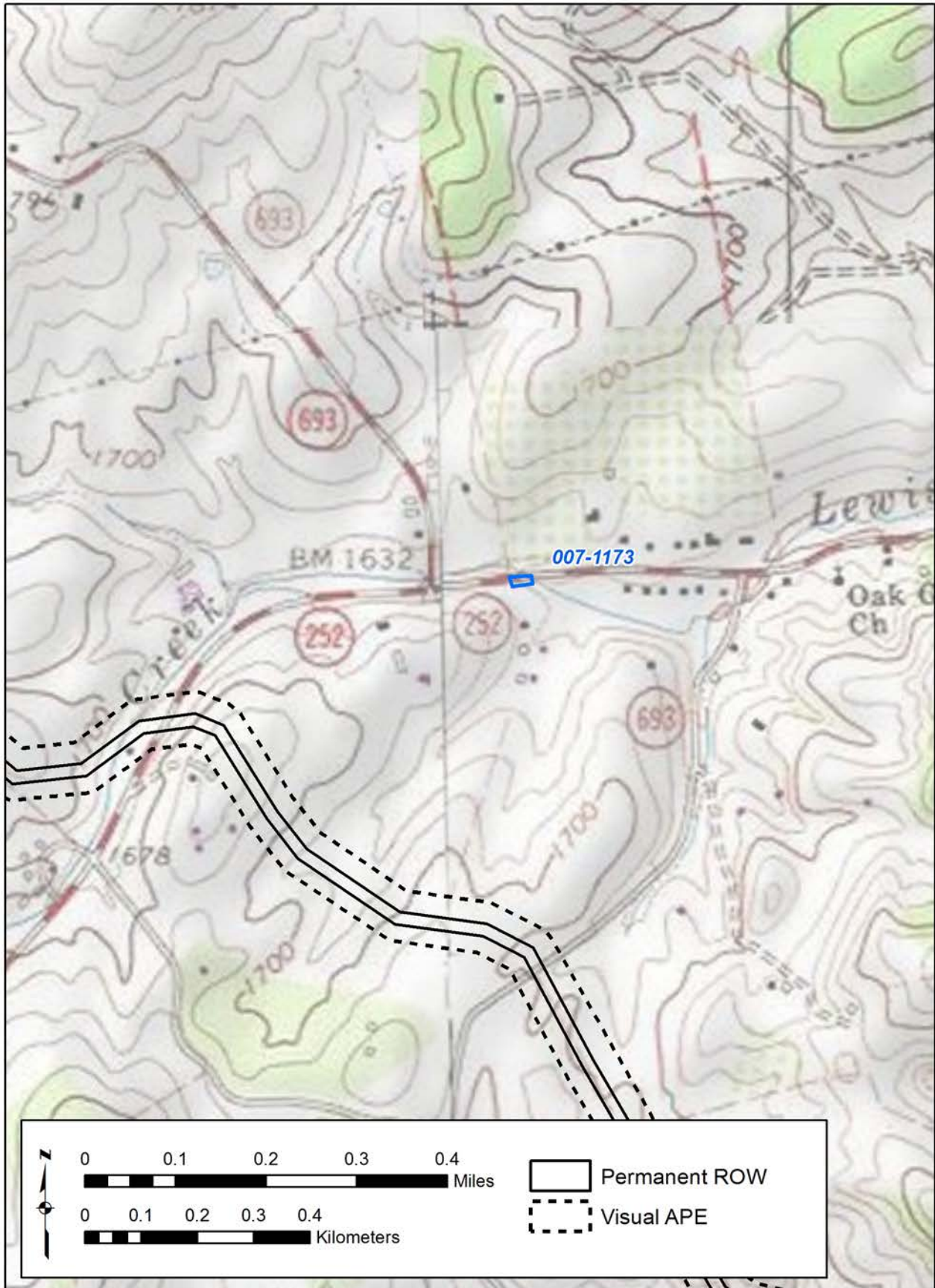


Figure 173. 007-1173 - USGS Quadrangle.



Figure 174. 007-1173 - Aerial.

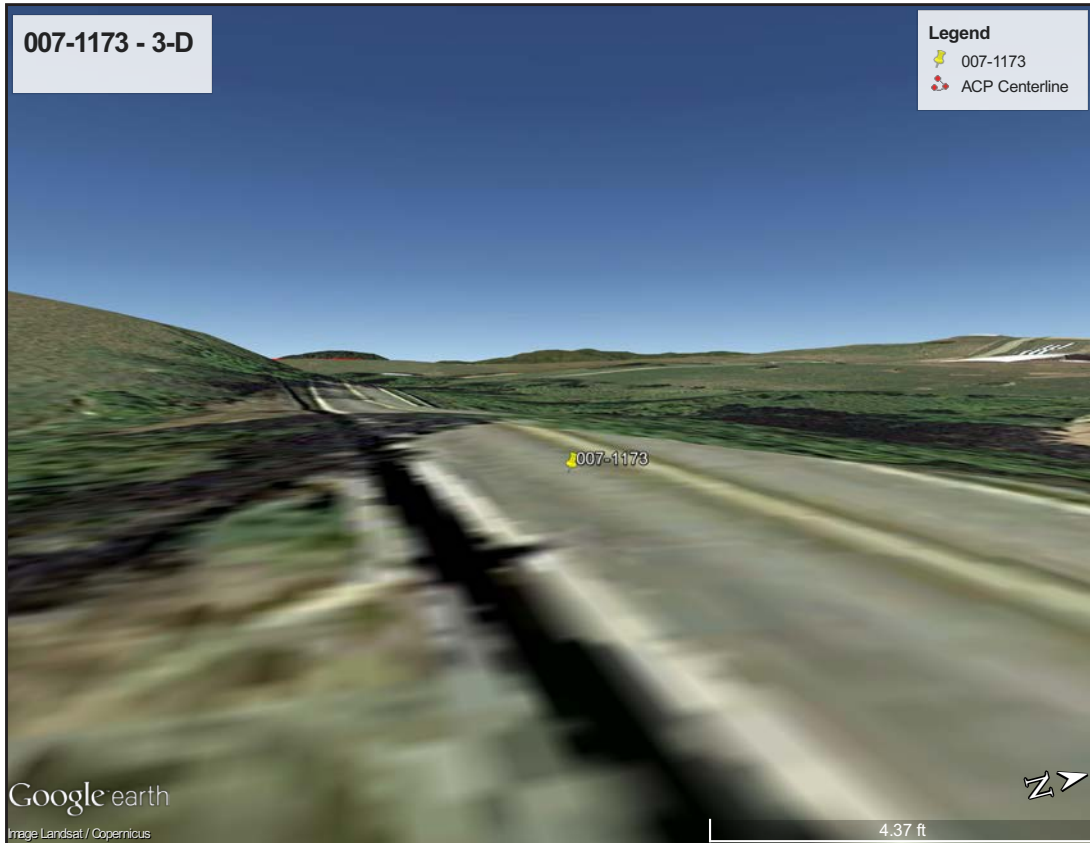


Figure 175. 007-1173 - 3-D View.

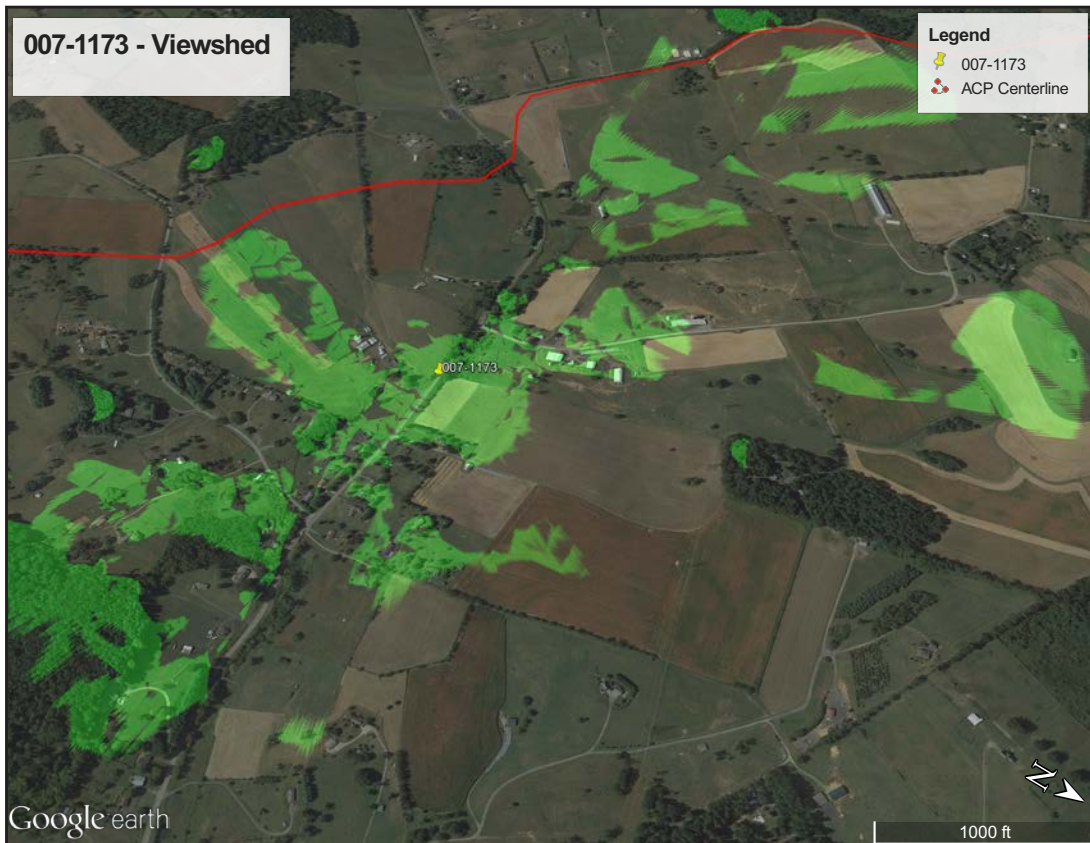


Figure 176. 007-1173 - Viewshed.

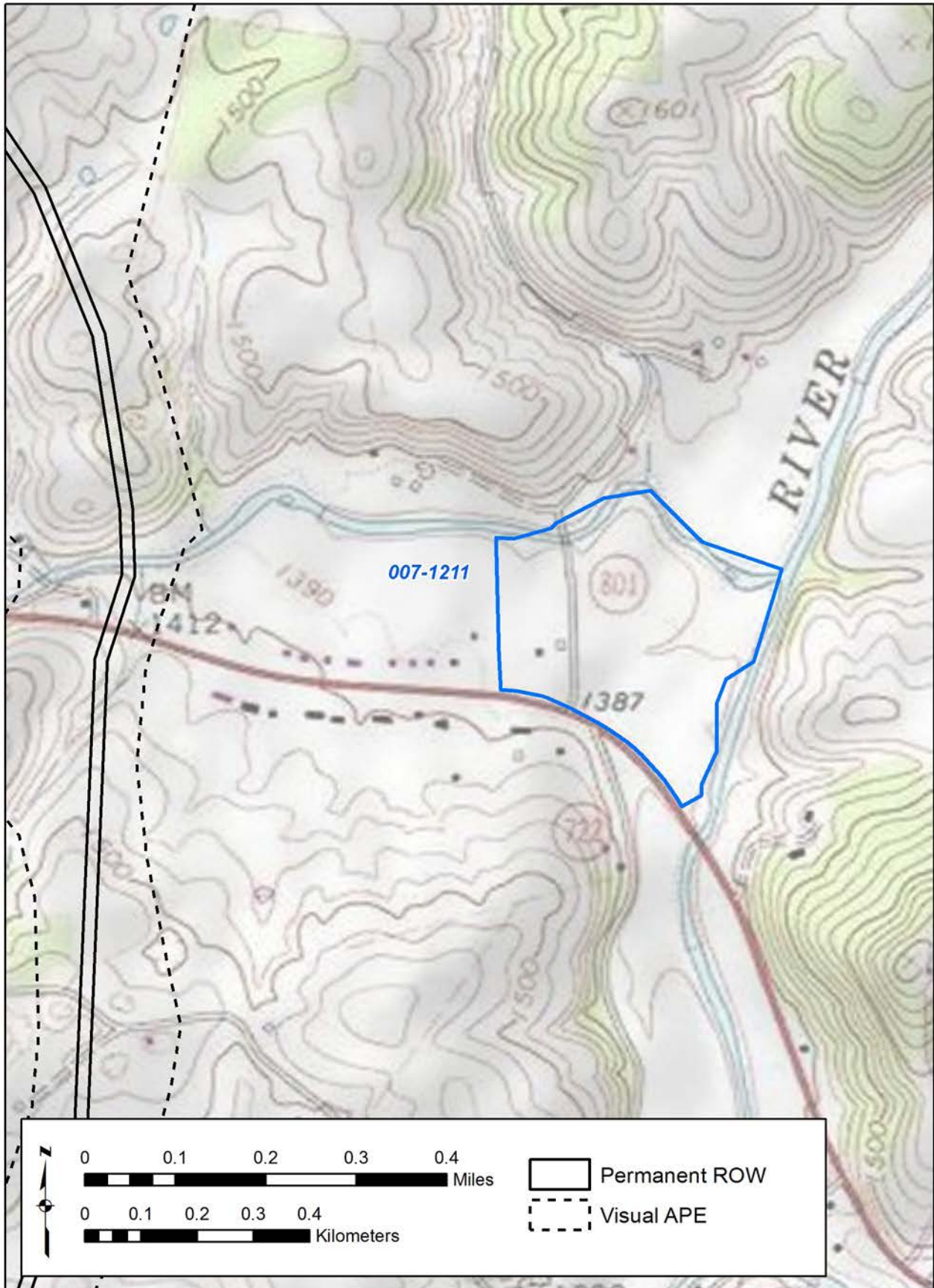


Figure 177. 007-1211 - USGS Quadrangle.



Figure 178. 007-1211 - Aerial.

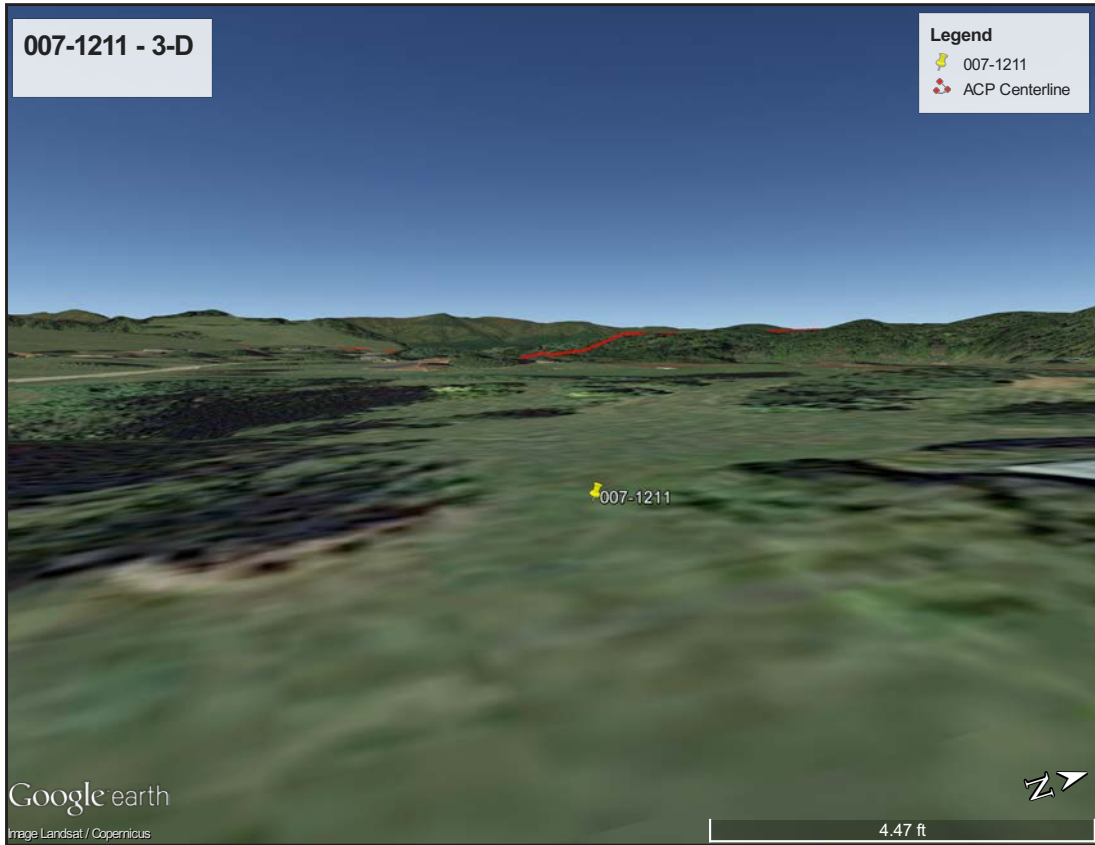


Figure 179. 007-1211 - 3-D View.

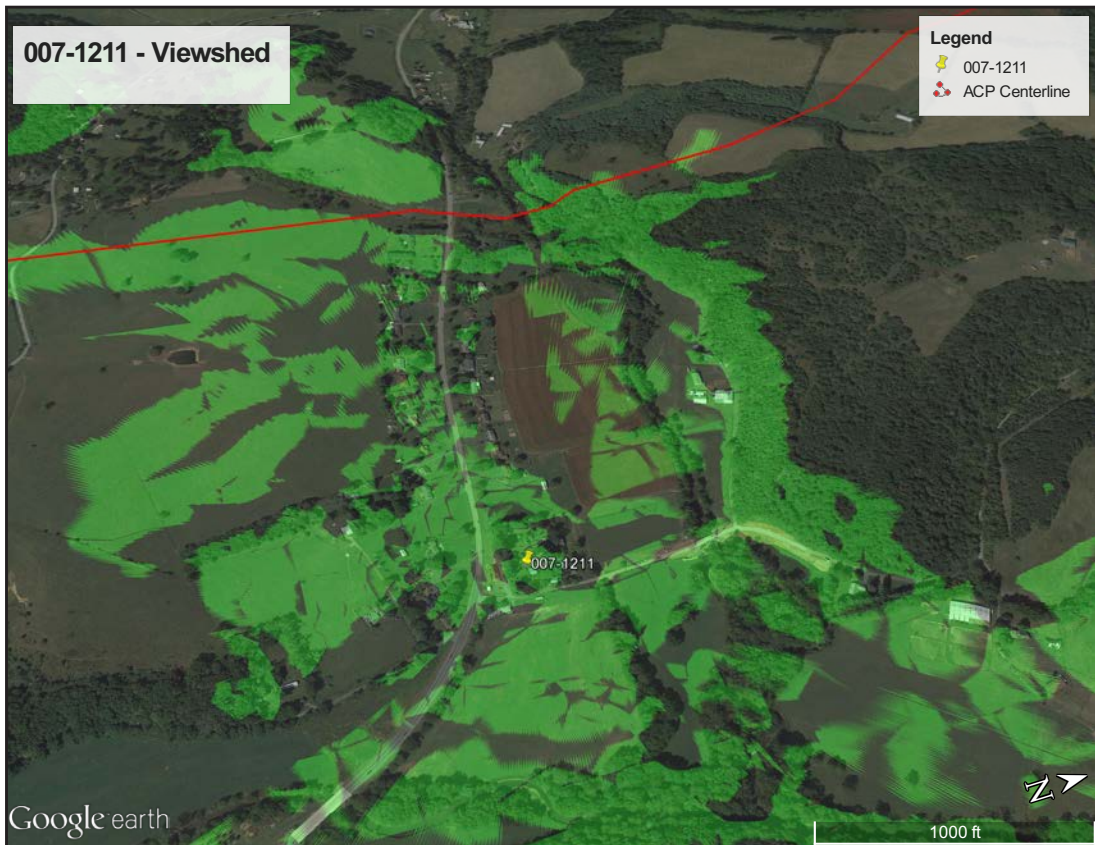


Figure 180. 007-1211 - Viewshed.

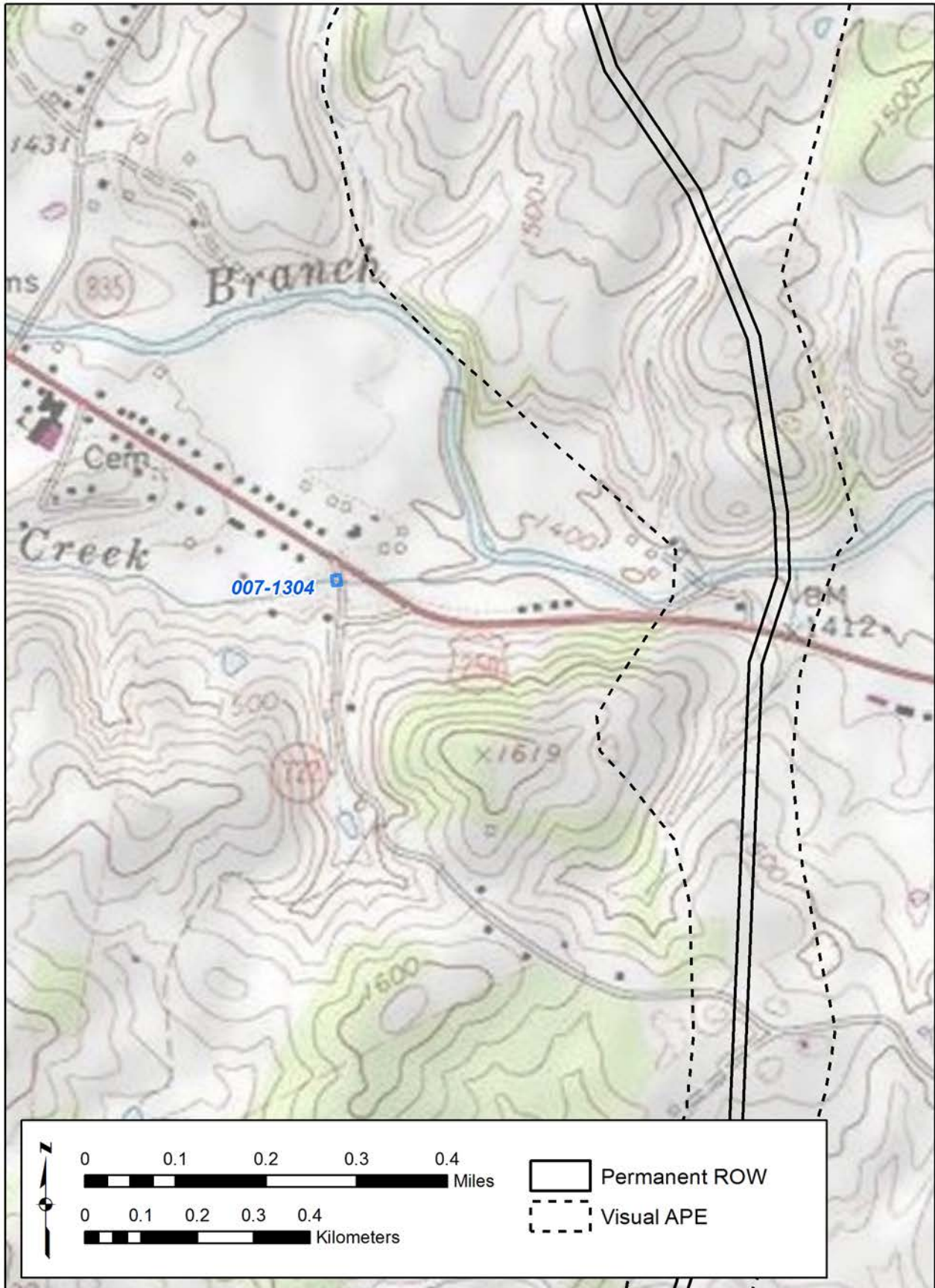


Figure 181. 007-1304 - USGS Quadrangle.

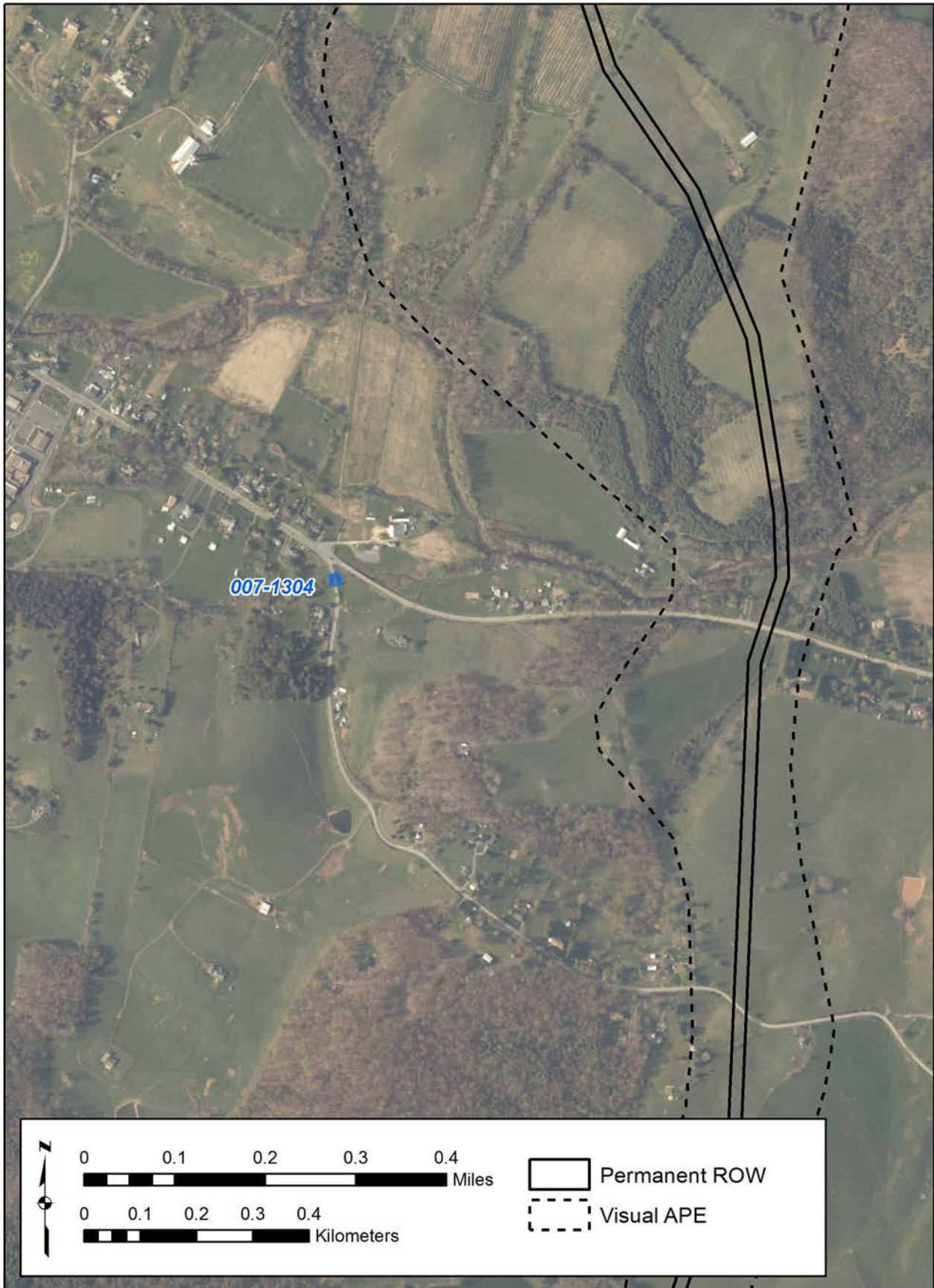


Figure 182. 007-1304 - Aerial.



Figure 183. 007-1304 - 3-D View.



Figure 184. 007-1304 - Viewshed.

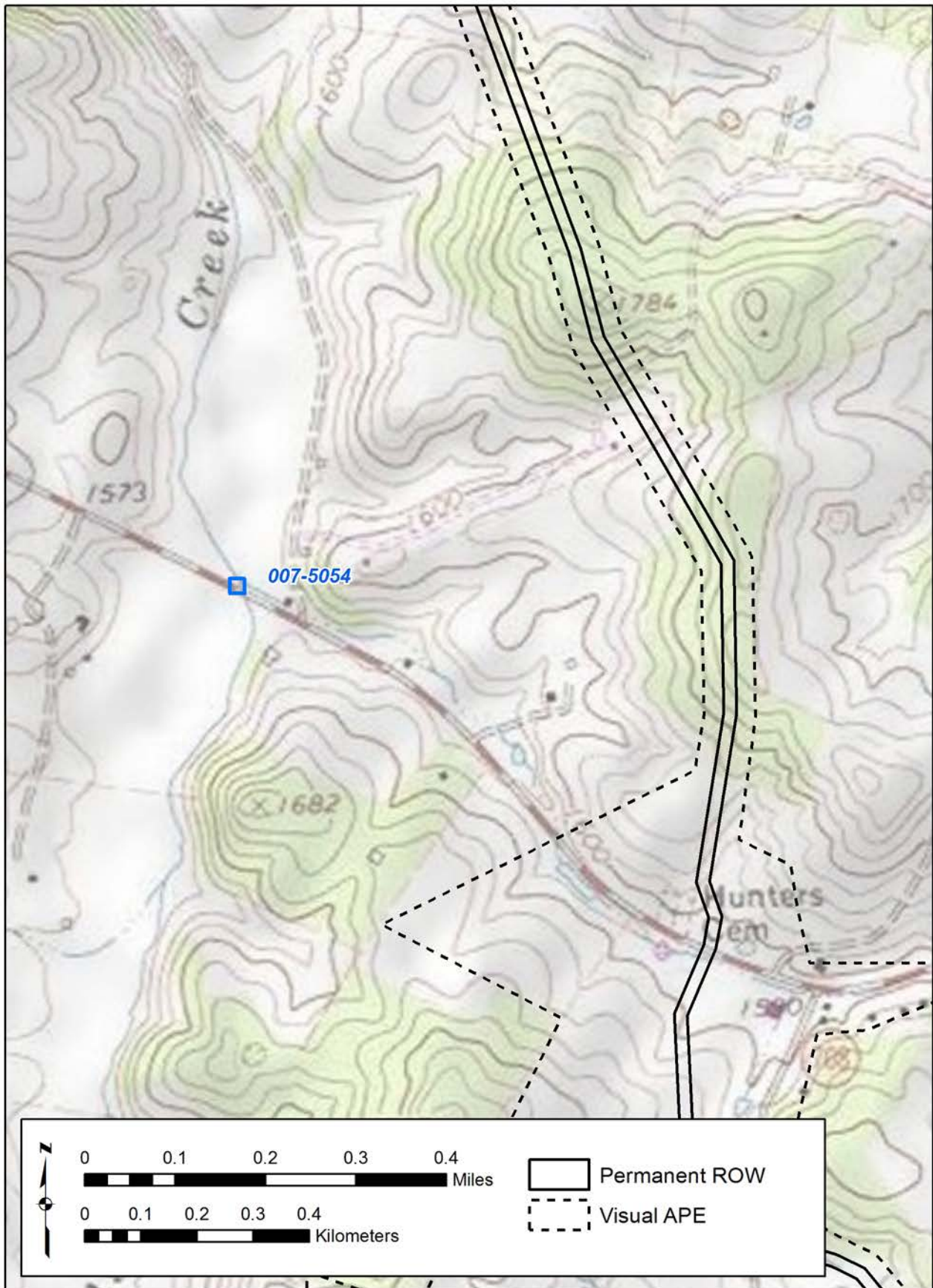


Figure 185. 007-5054 - USGS Quadrangle.

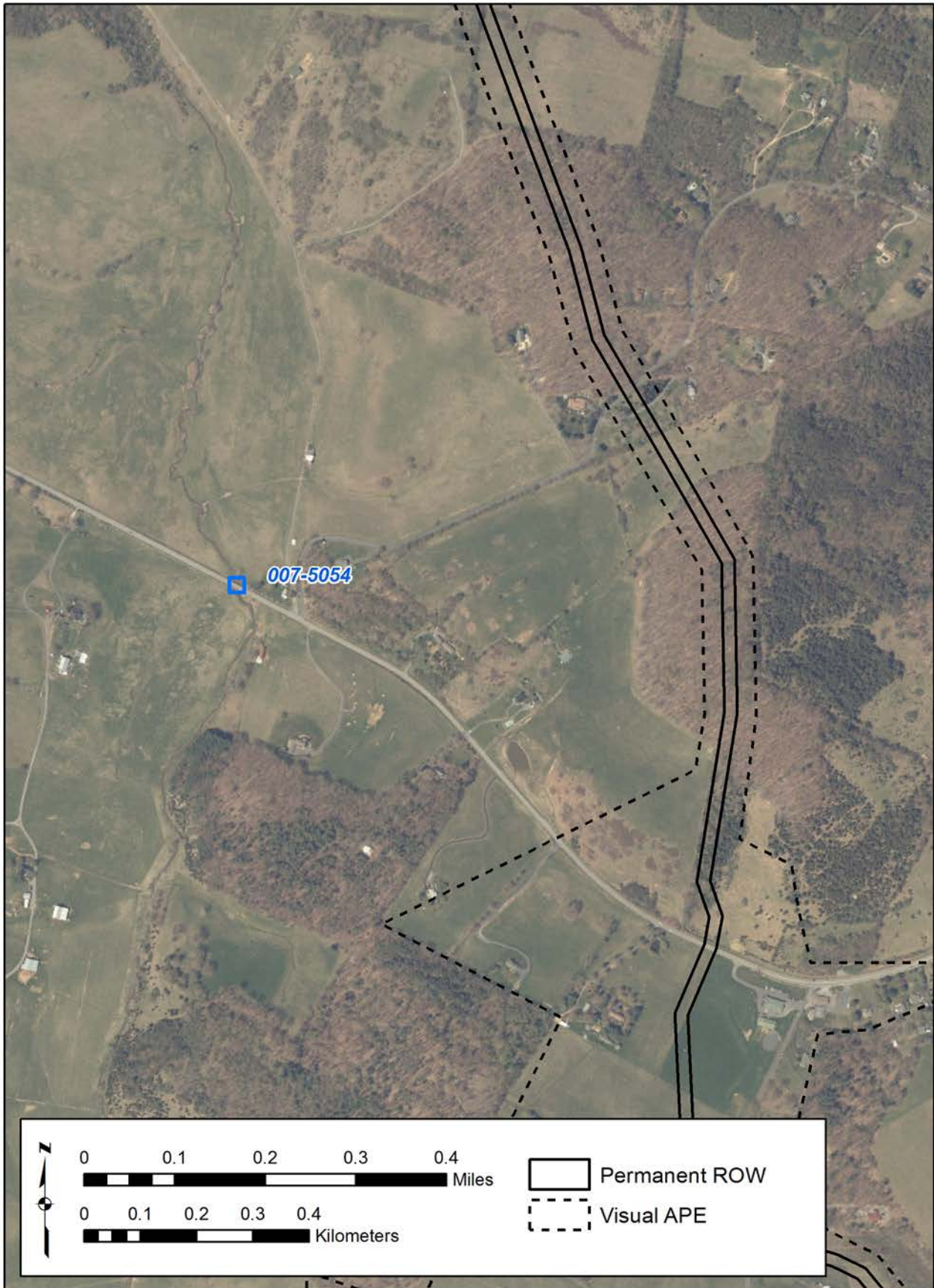


Figure 186. 007-5054 - Aerial.



Figure 187. 007-5054 - 3-D View.



Figure 188. 007-5054 - Viewshed.

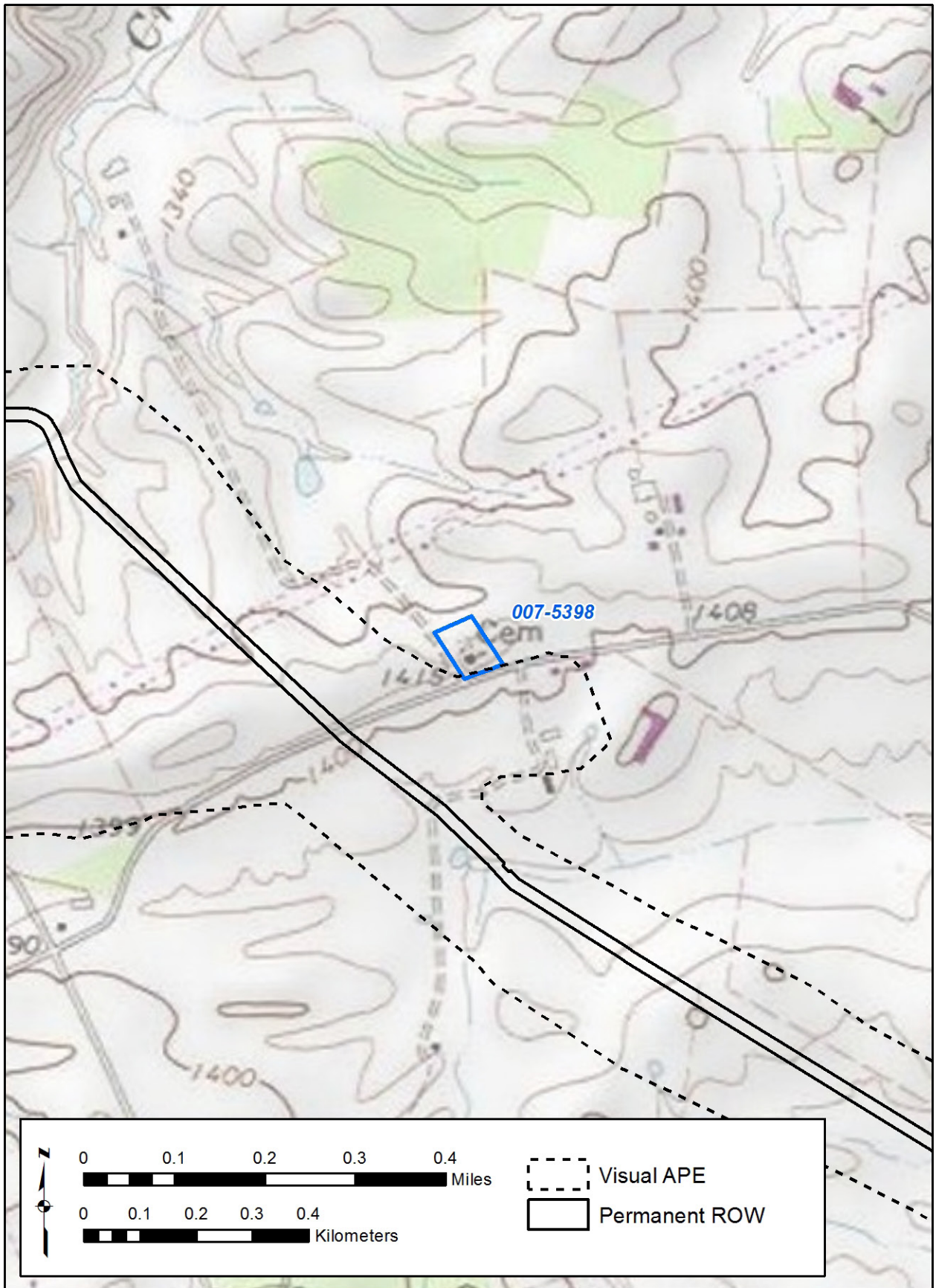


Figure 189. 007-5398 - USGS Quadrangle.



Figure 190. 007-5398 - Aerial.

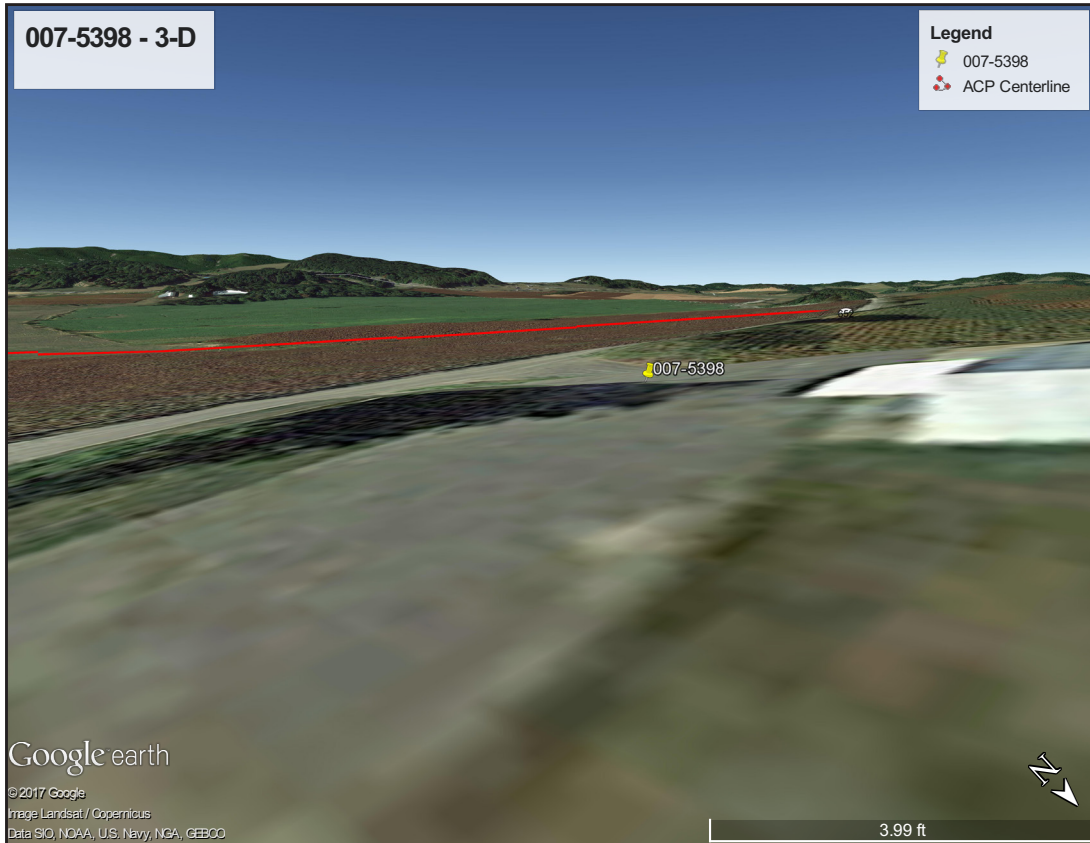


Figure 191. 007-5398 - 3-D View.

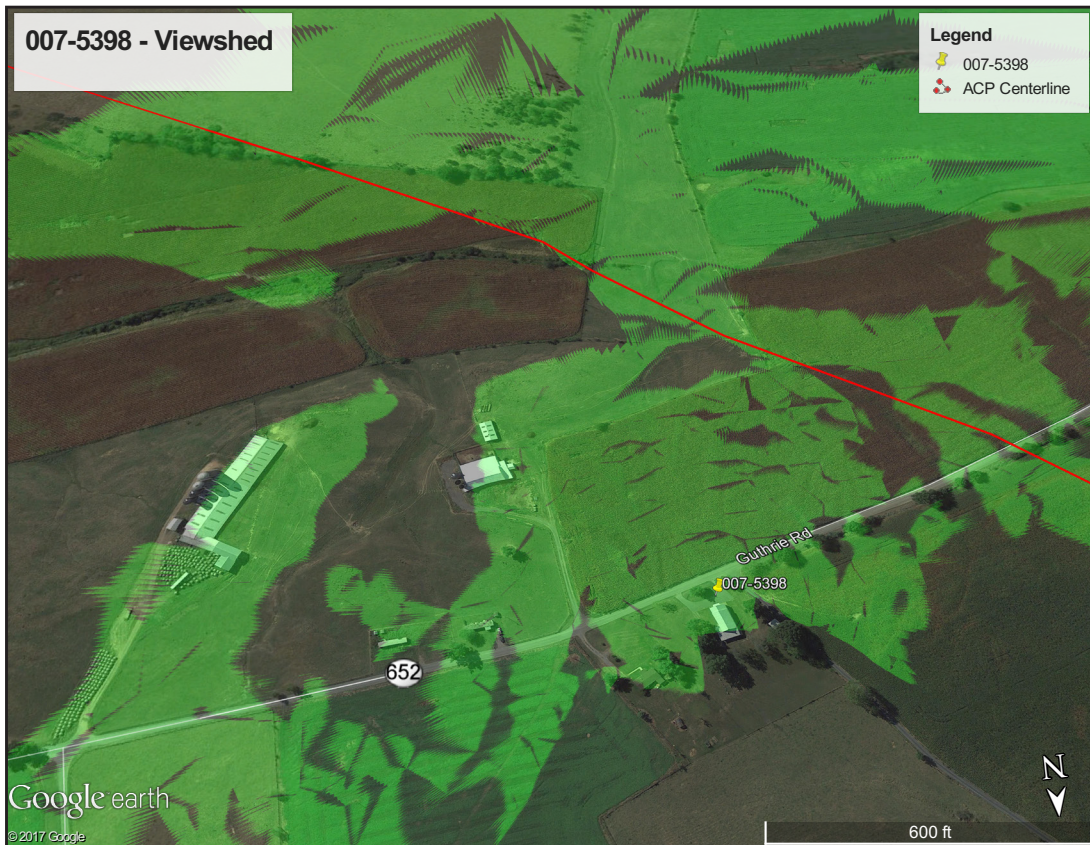


Figure 192. 007-5398 - Viewshed.



Figure 193. 007-5399 - USGS Quadrangle.



Figure 194. 007-5399 - Aerial.

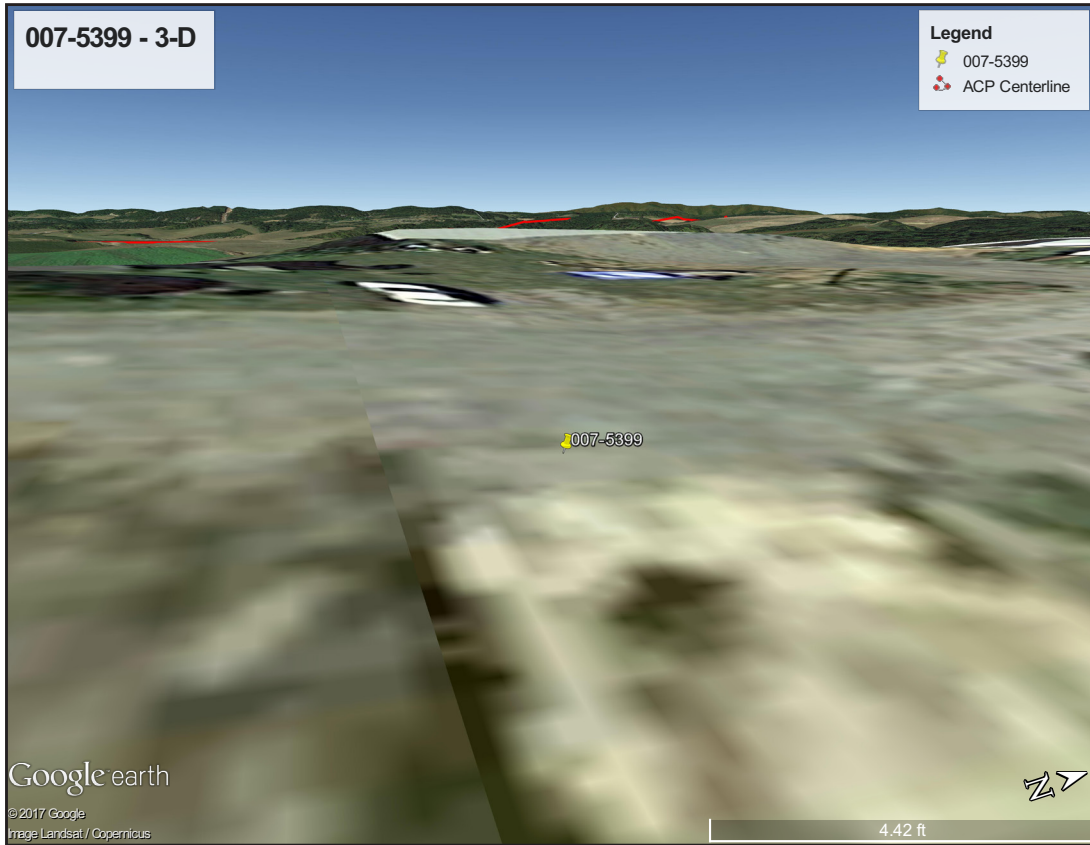


Figure 195. 007-5399 - 3-D View.

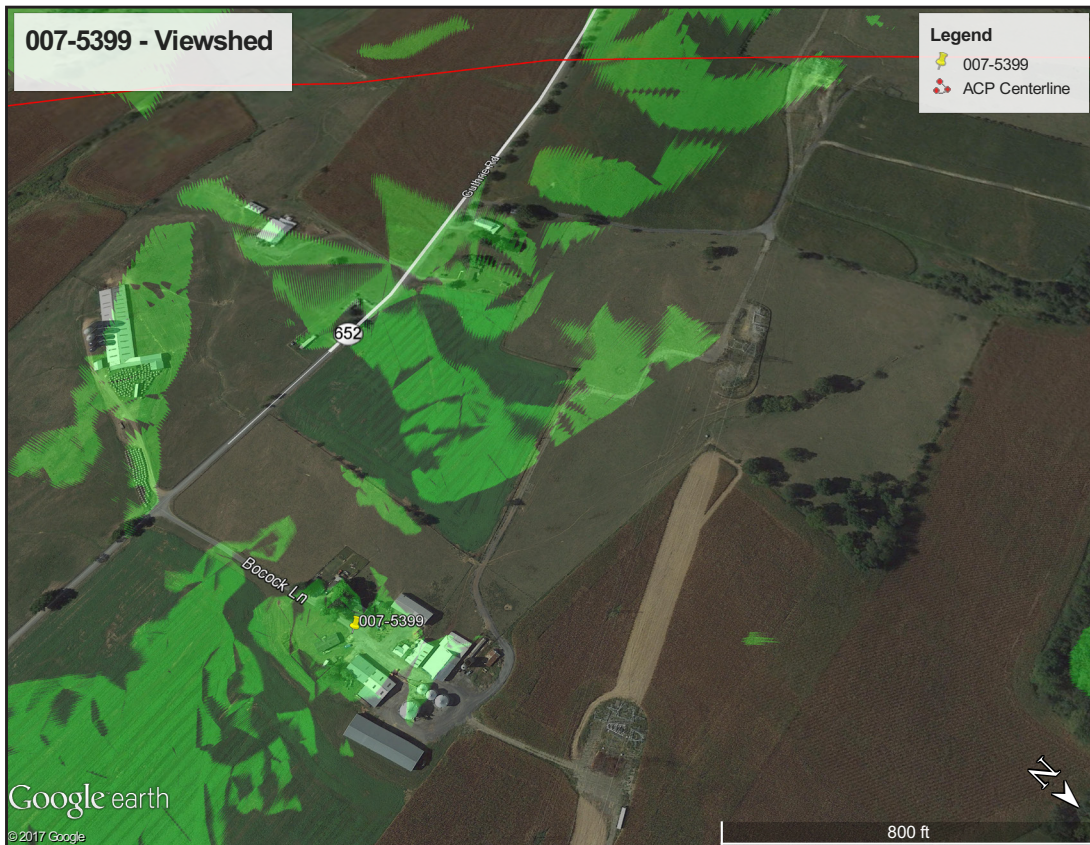


Figure 196. 007-5399 - Viewshed.



Figure 197. 007-5400 - USGS Quadrangle.



Figure 198. 007-5400 - Aerial.

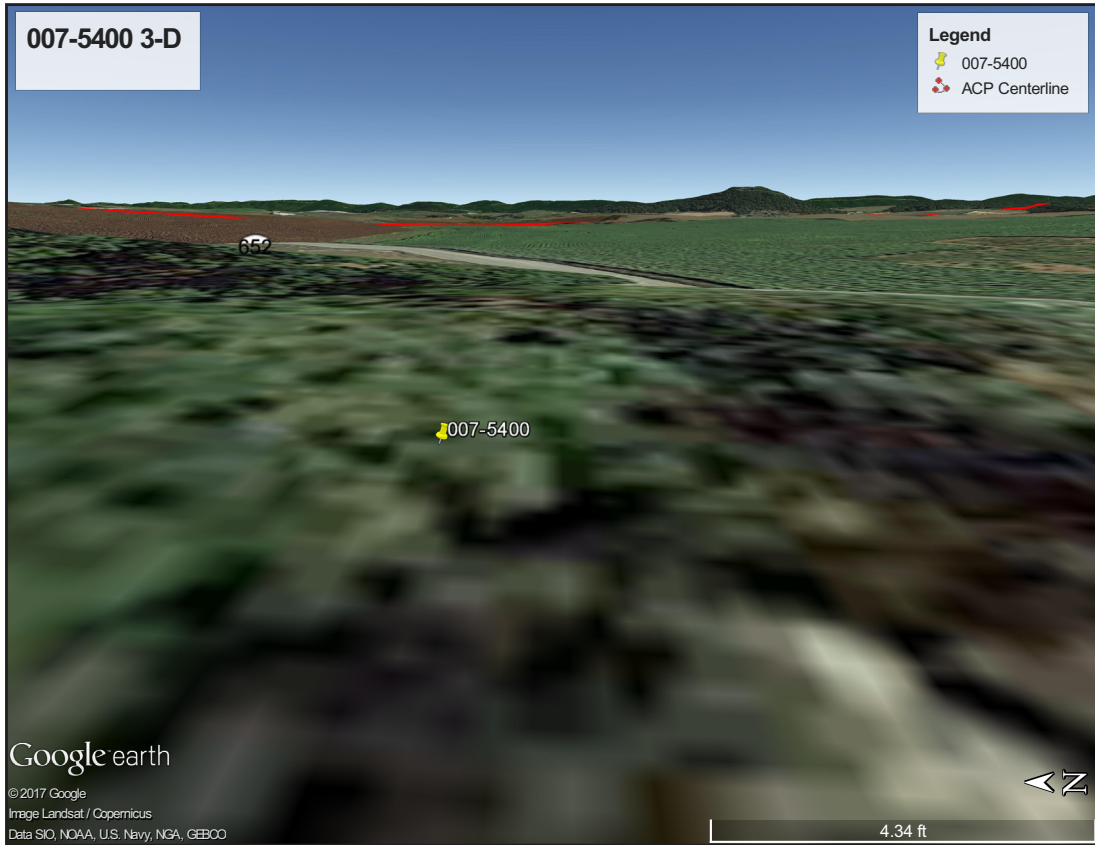


Figure 199. 007-5400 - 3-D View.

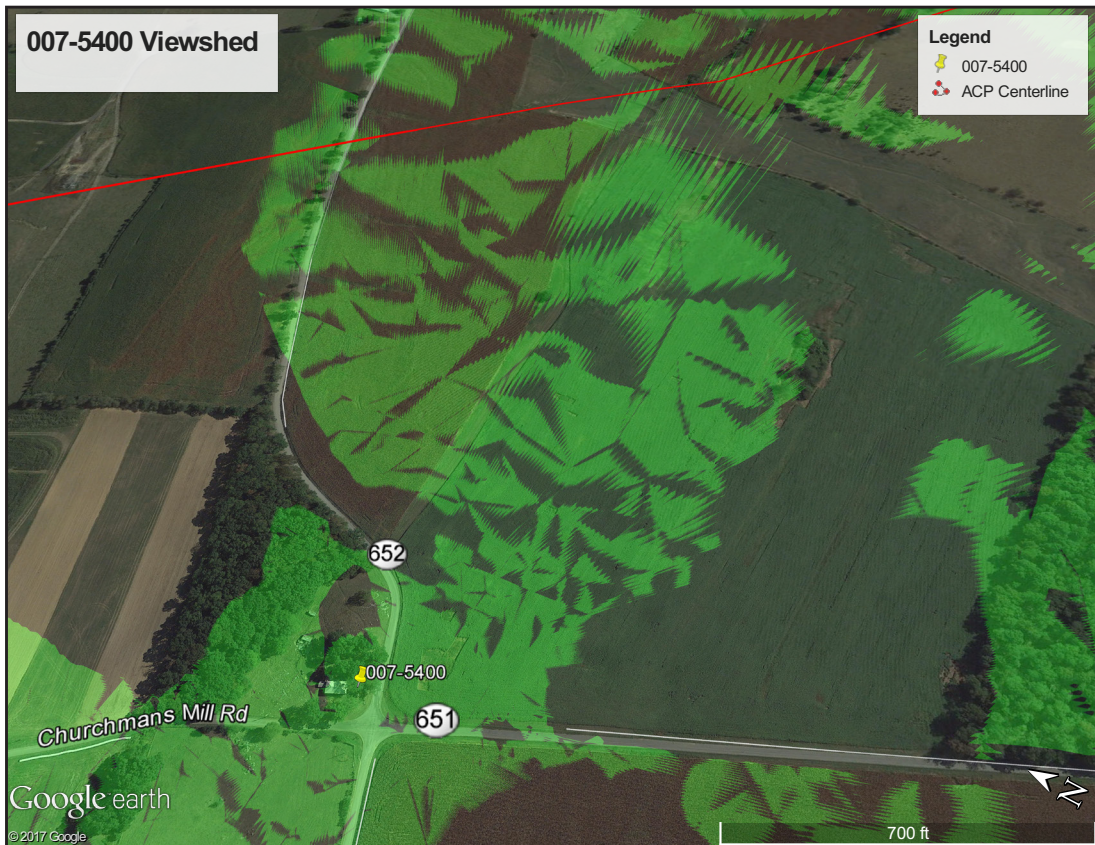


Figure 200. 007-5400 - Viewshed.



Figure 201. 007-5567 - USGS Quadrangle.



Figure 202. 007-5567 - Aerial.

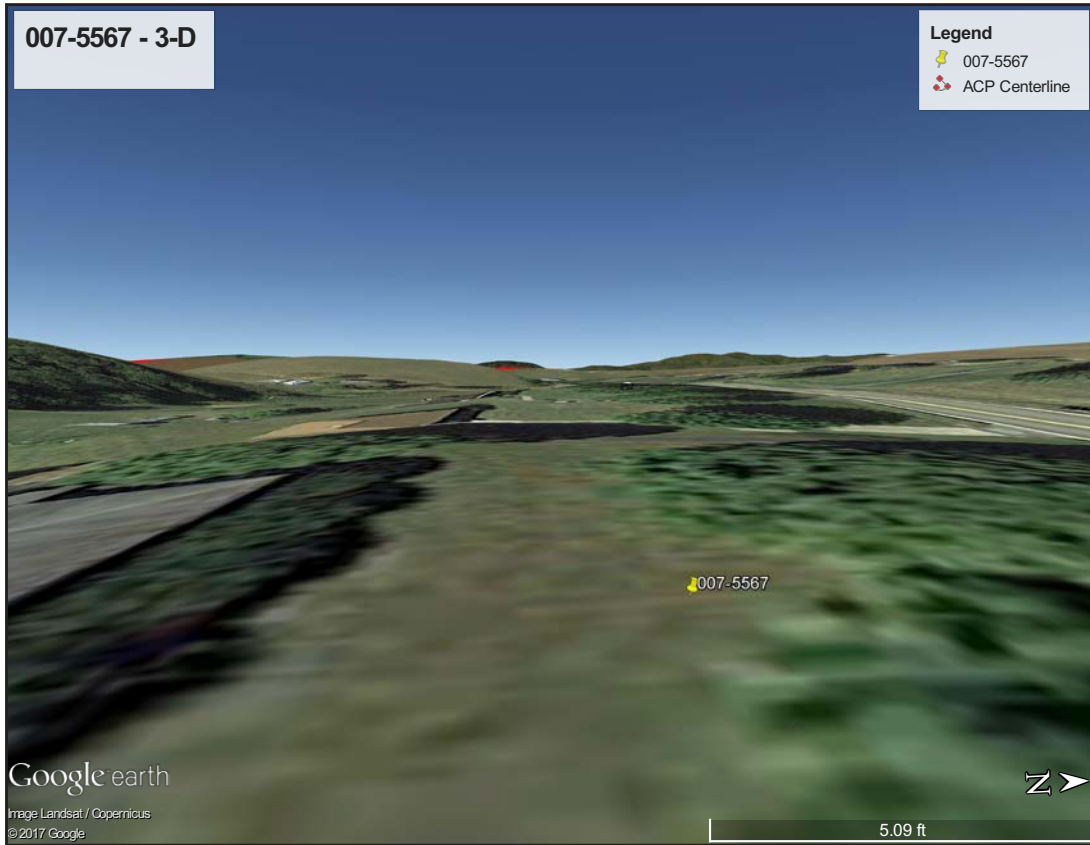


Figure 203. 007-5567 - 3-D View.

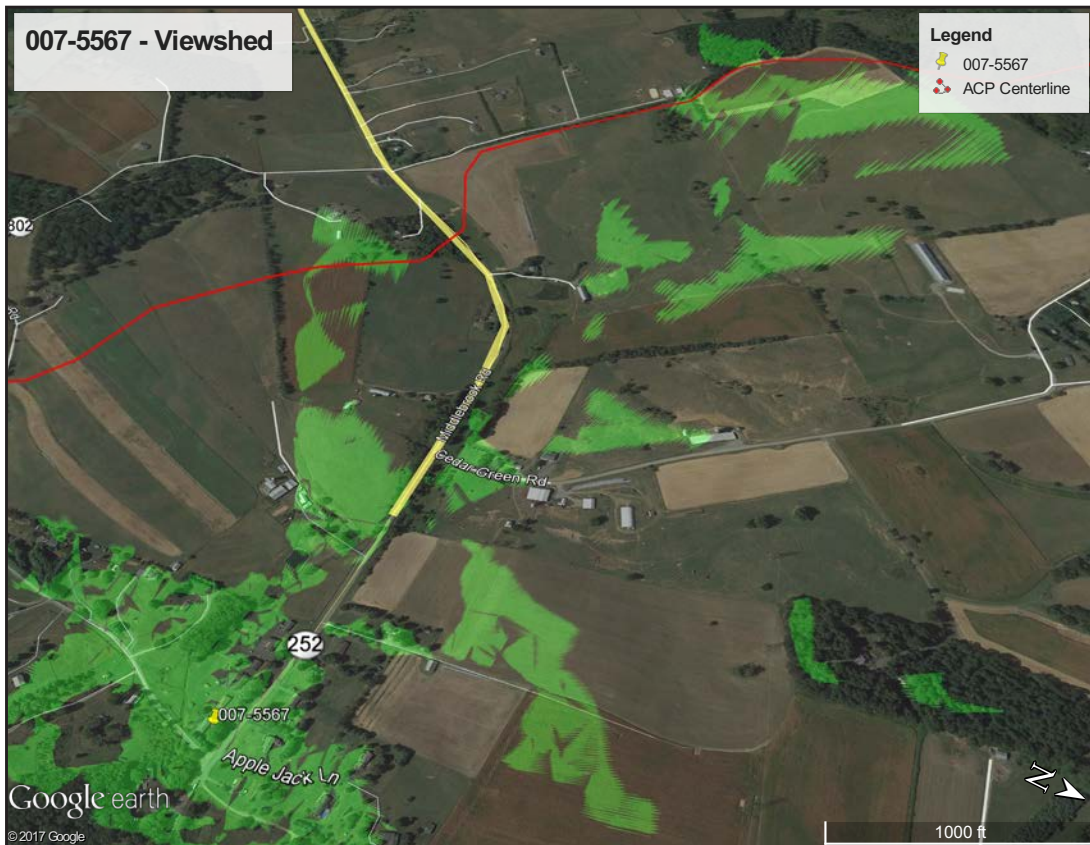


Figure 204. 007-5567 - Viewshed.



Figure 205. 007-5568 - USGS Quadrangle.

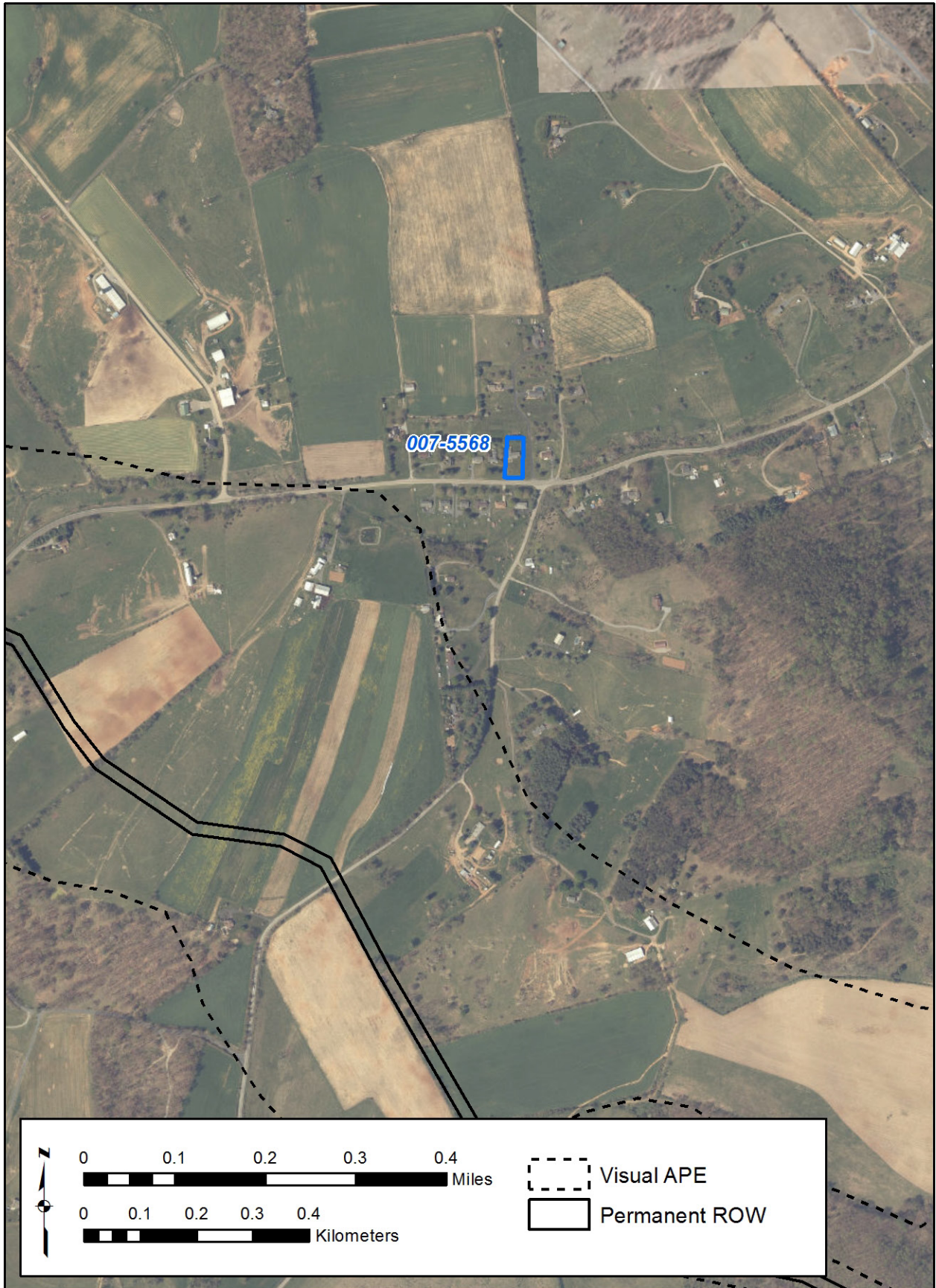


Figure 206. 007-5568 - Aerial.



Figure 207. 007-5568 - 3-D View.

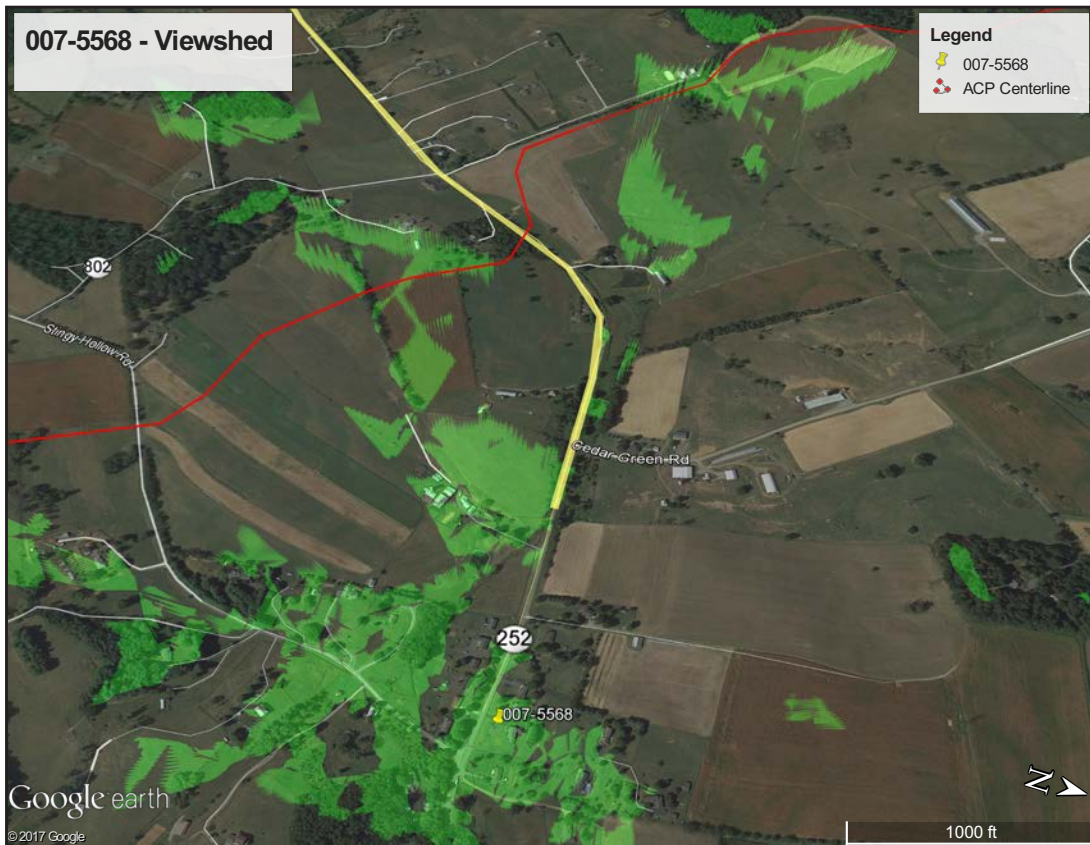


Figure 208. 007-5568 - Viewshed.



Figure 209. 007-5572 - USGS Quadrangle.



Figure 210. 007-5572 - Aerial.

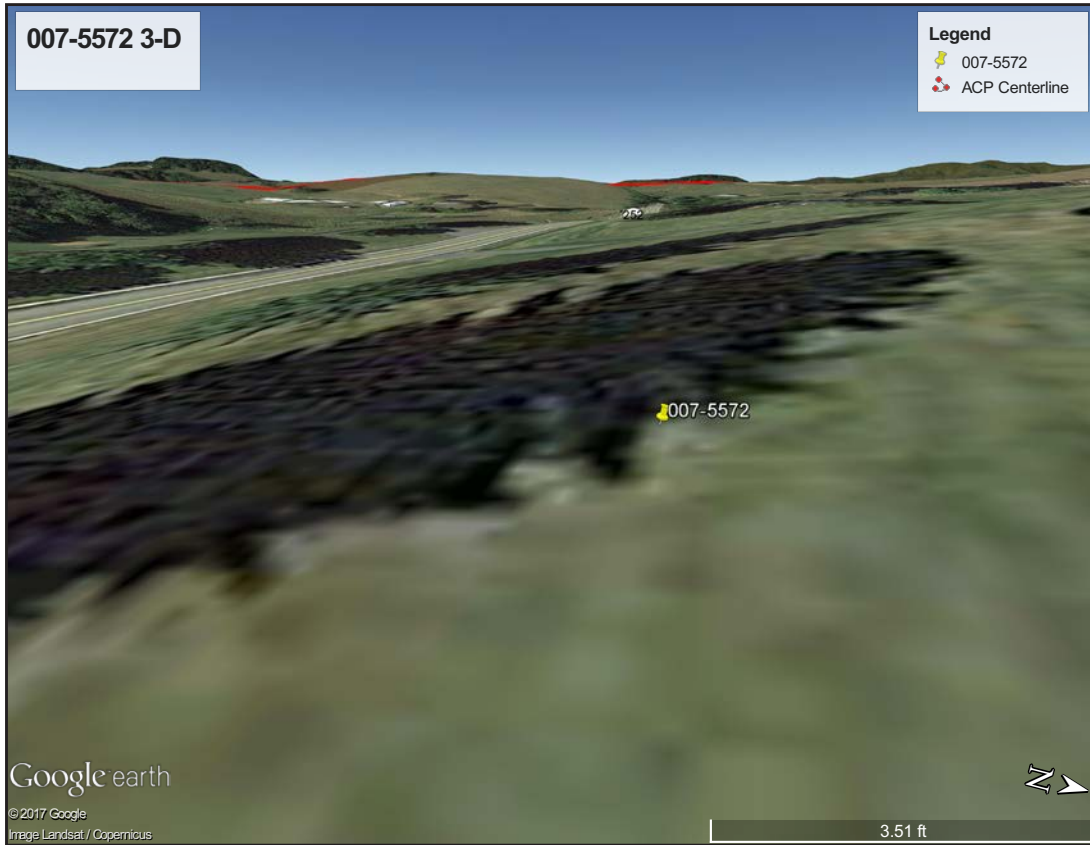


Figure 211. 007-5572 - 3-D View.



Figure 212. 007-5572 - Viewshed.



Figure 213. 007-5573 - USGS Quadrangle.



Figure 214. 007-5573 - Aerial.

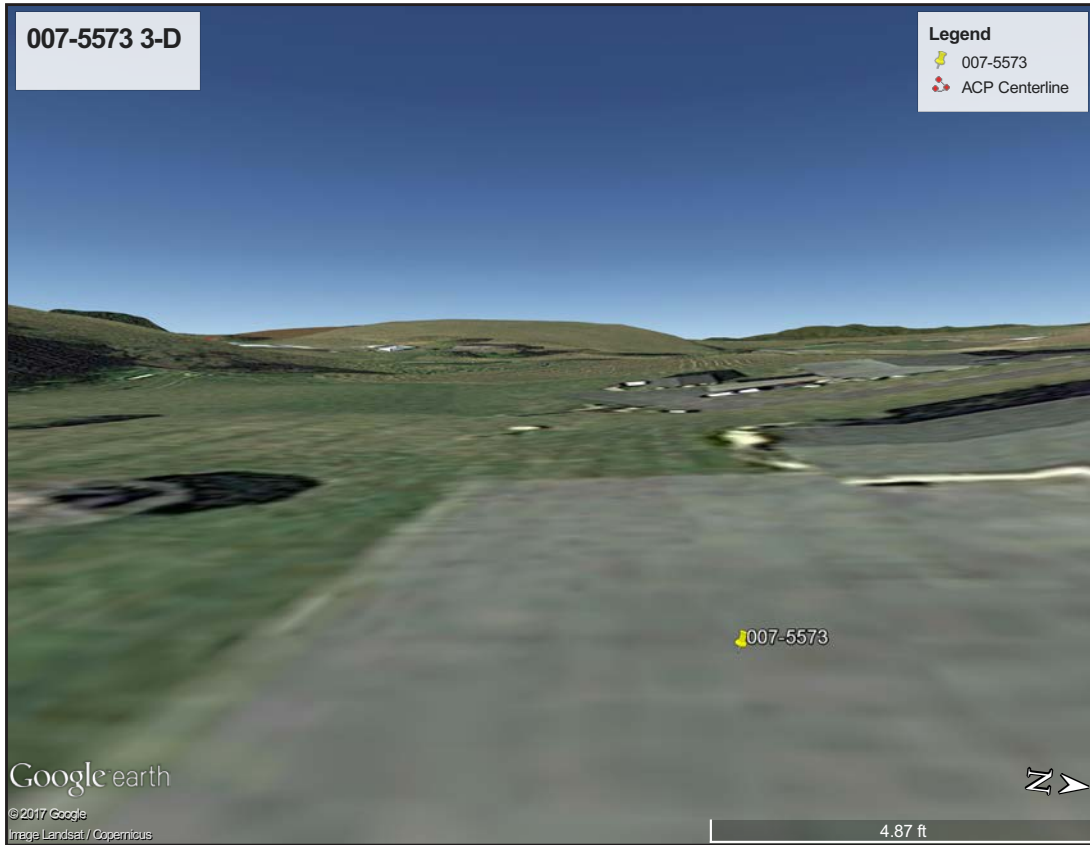


Figure 215. 007-5573 - 3-D View.

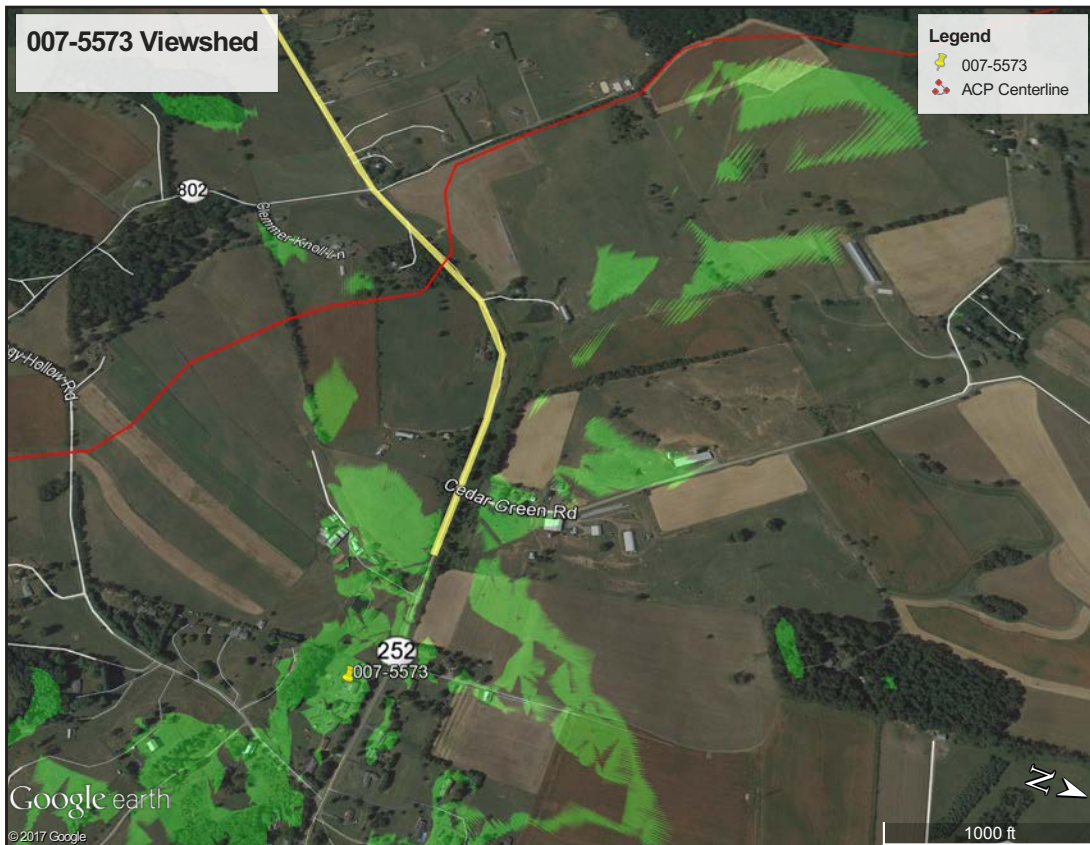


Figure 216. 007-5573 - Viewshed.



Figure 217. 007-5574 - USGS Quadrangle.



Figure 218. 007-5574 - Aerial.

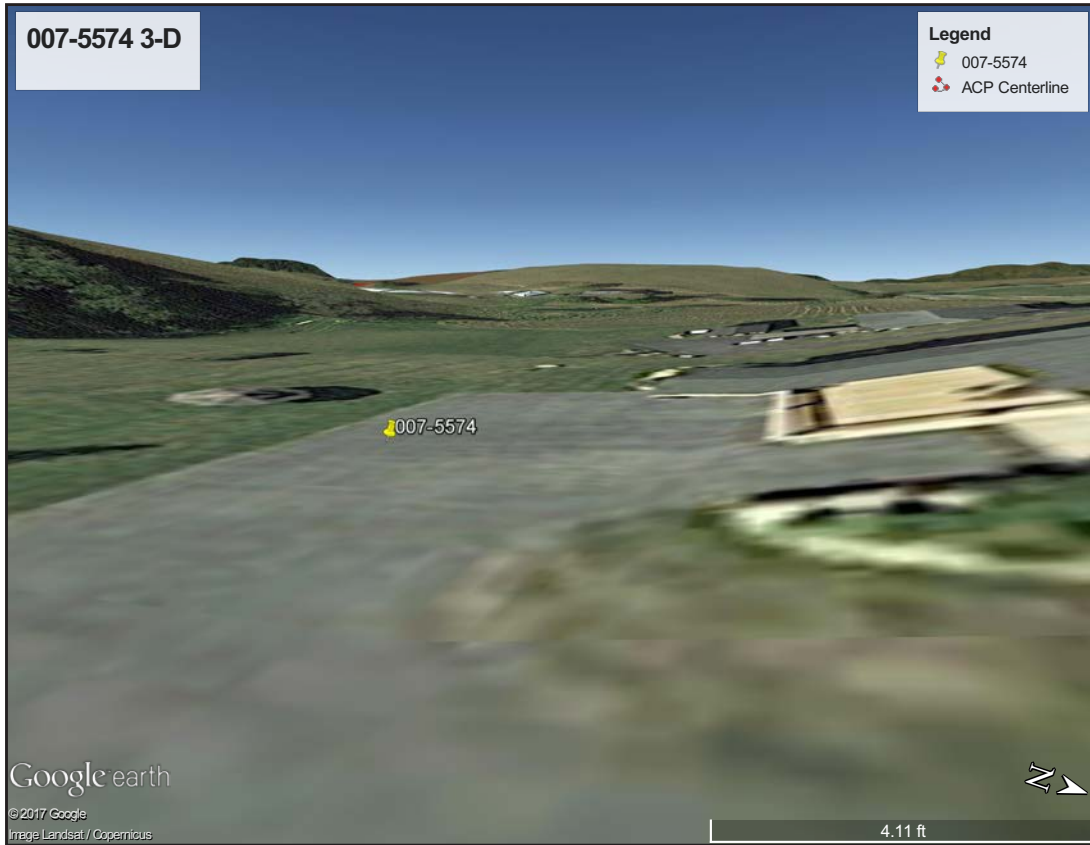


Figure 219. 007-5574 - 3-D View.

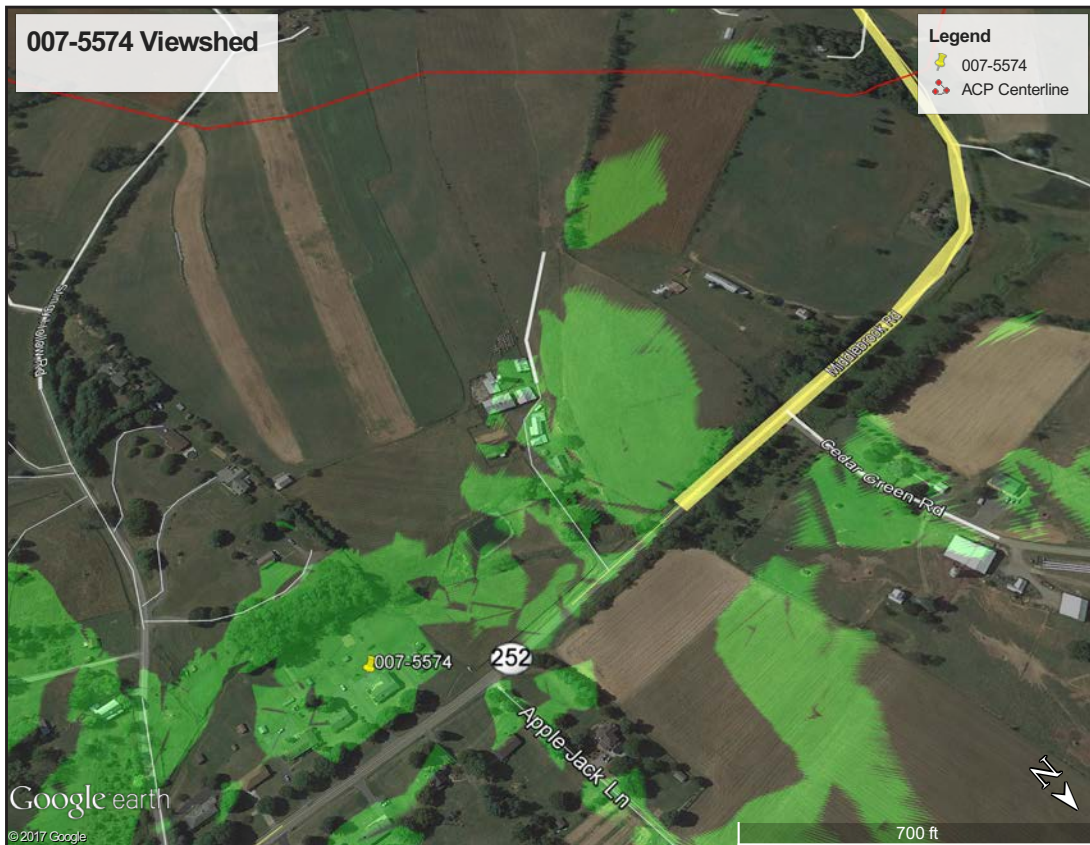


Figure 220. 007-5574 - Viewshed.

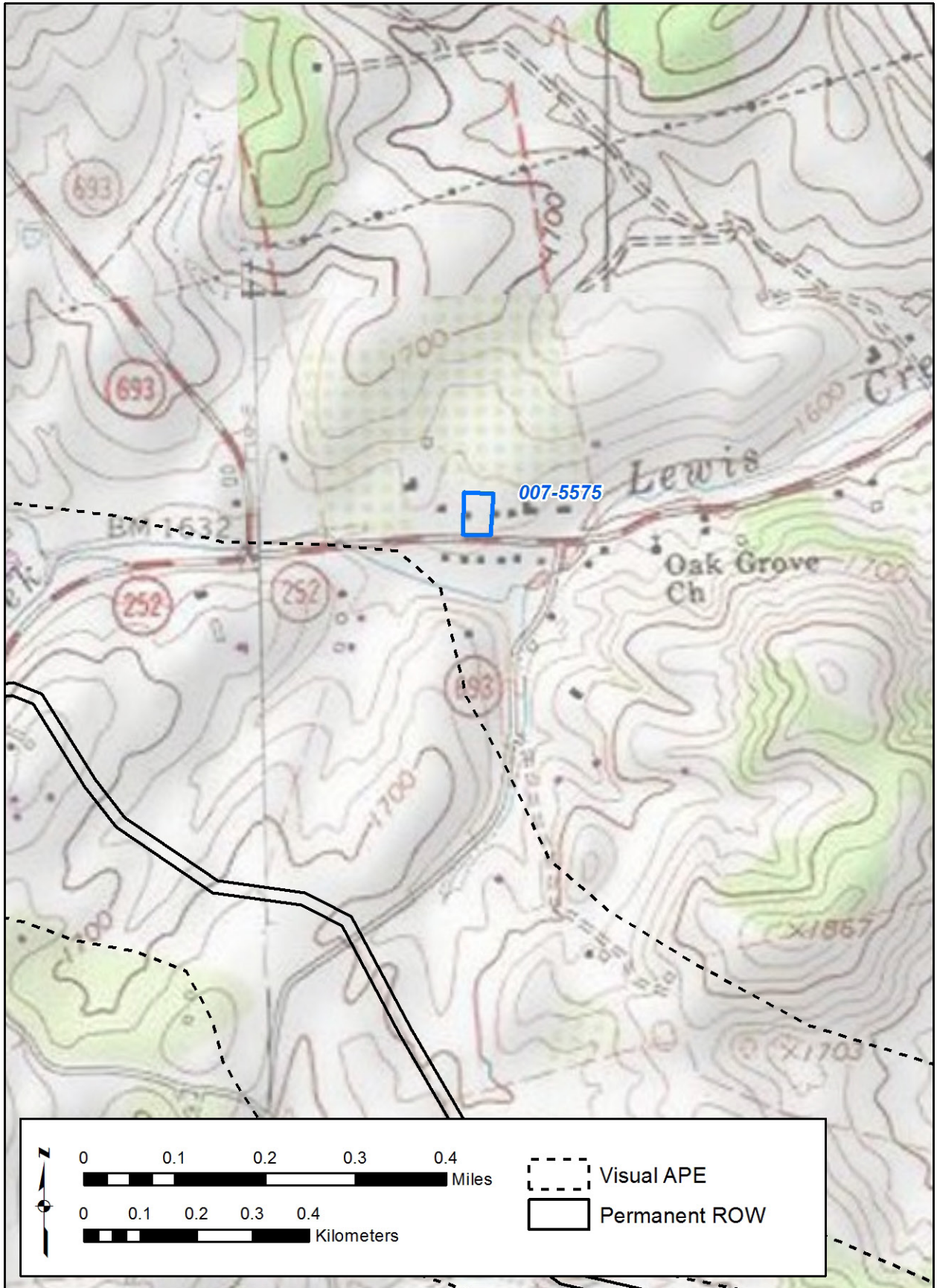


Figure 221. 007-5575 - USGS Quadrangle.



Figure 222. 007-5575 - Aerial.

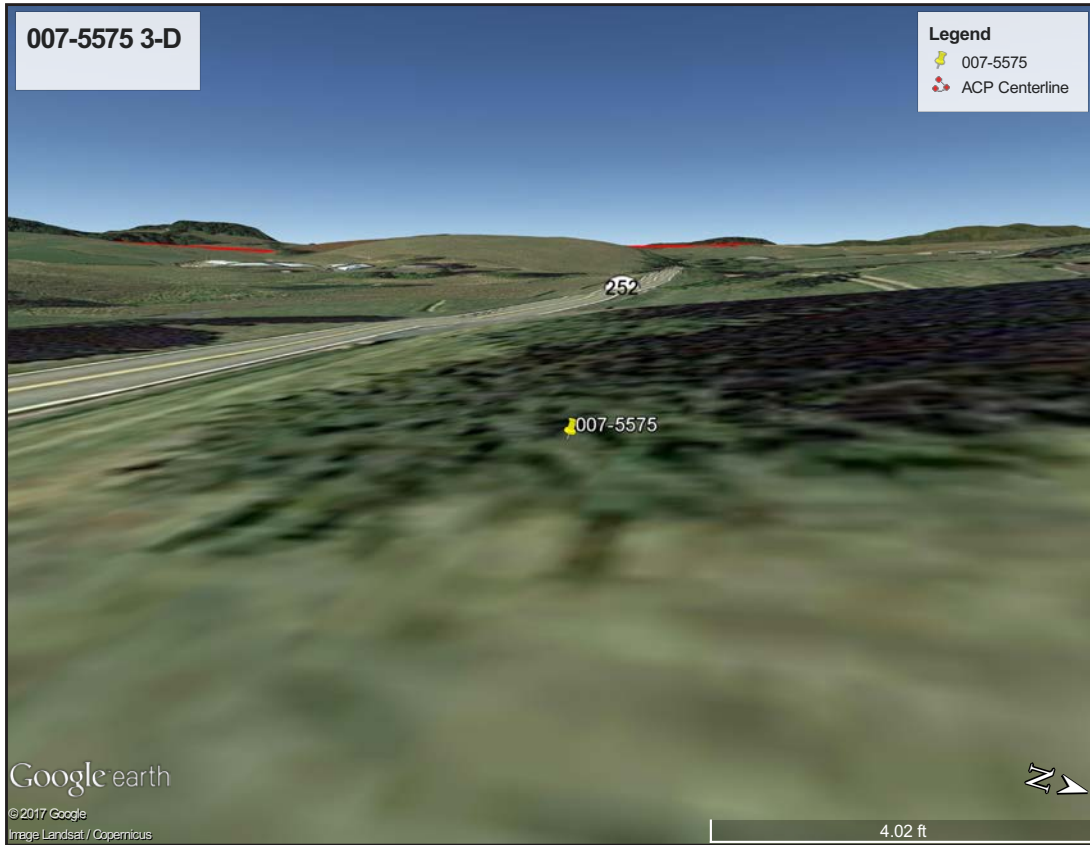


Figure 223. 007-5575 - 3-D View.



Figure 224. 007-5575 - Viewshed.

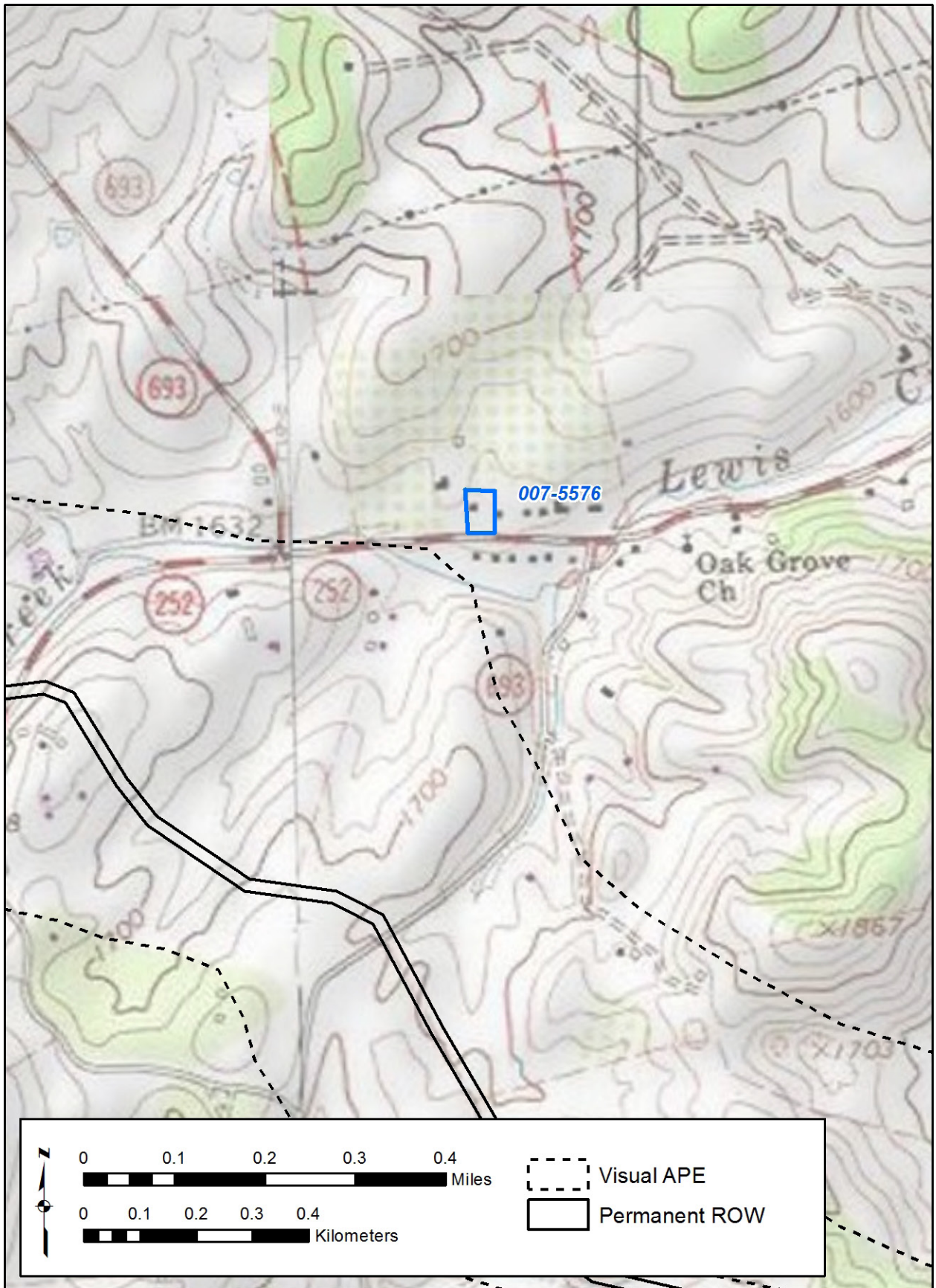


Figure 225. 007-5576 - USGS Quadrangle.



Figure 226. 007-5576 - Aerial.

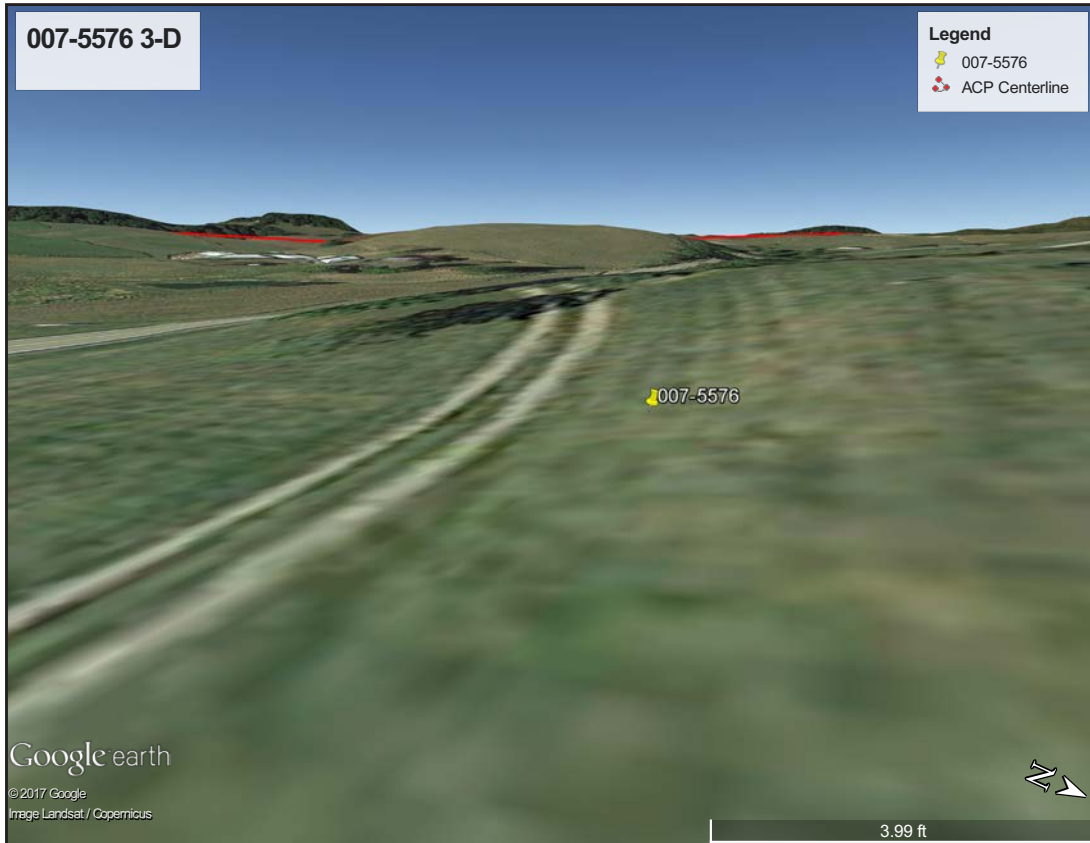


Figure 227. 007-5576 - 3-D View.

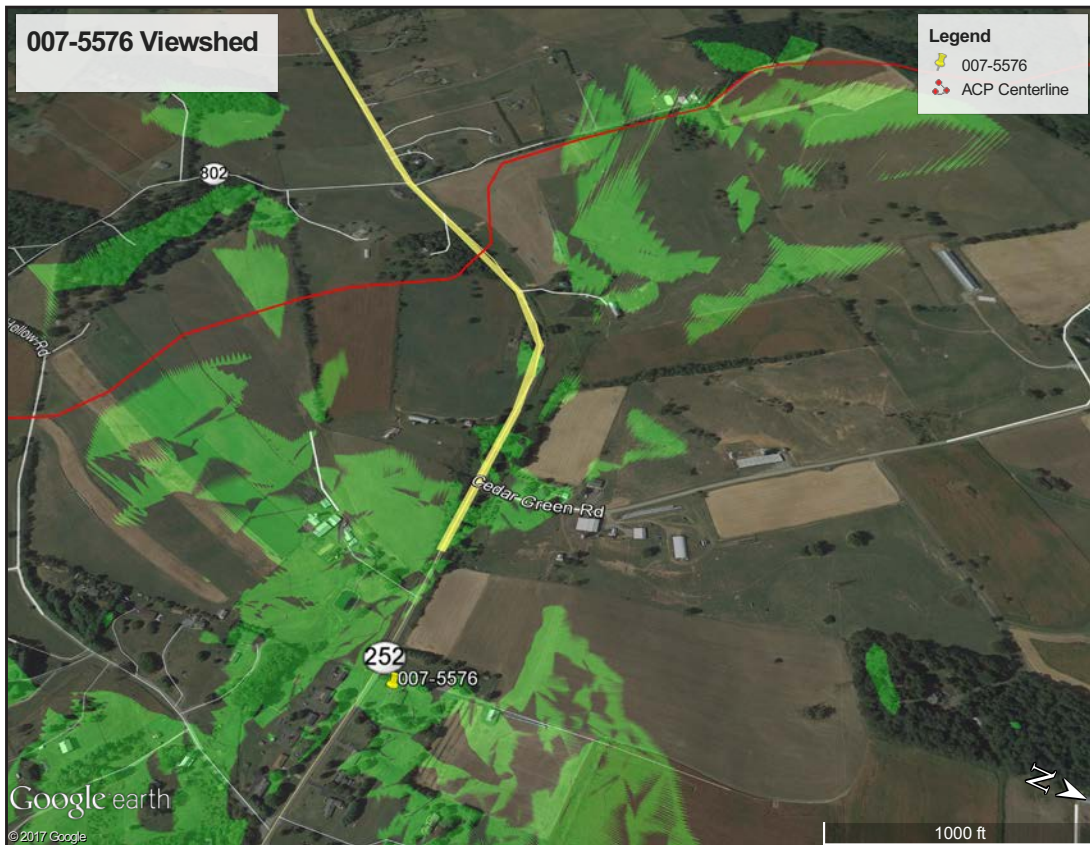


Figure 228. 007-5576 - Viewshed.



Figure 229. 007-5577 - USGS Quadrangle.



Figure 230. 007-5577 - Aerial.

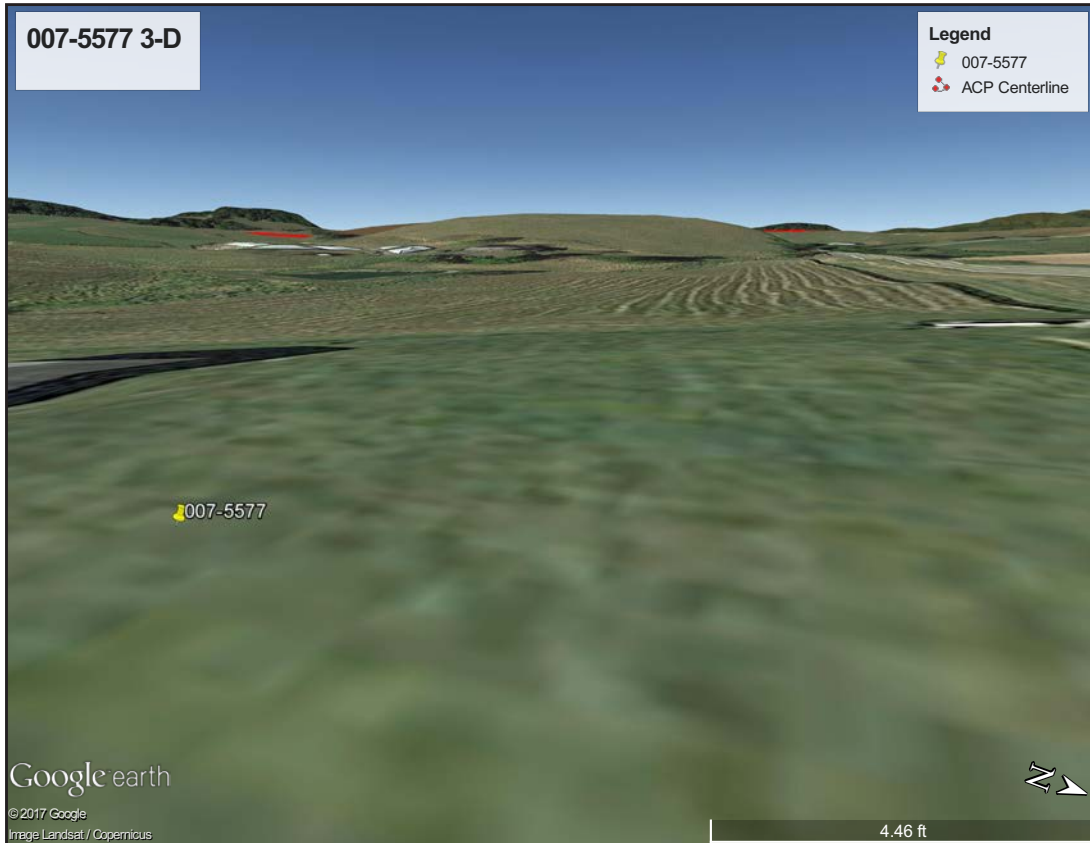


Figure 231. 007-5577 - 3-D View.

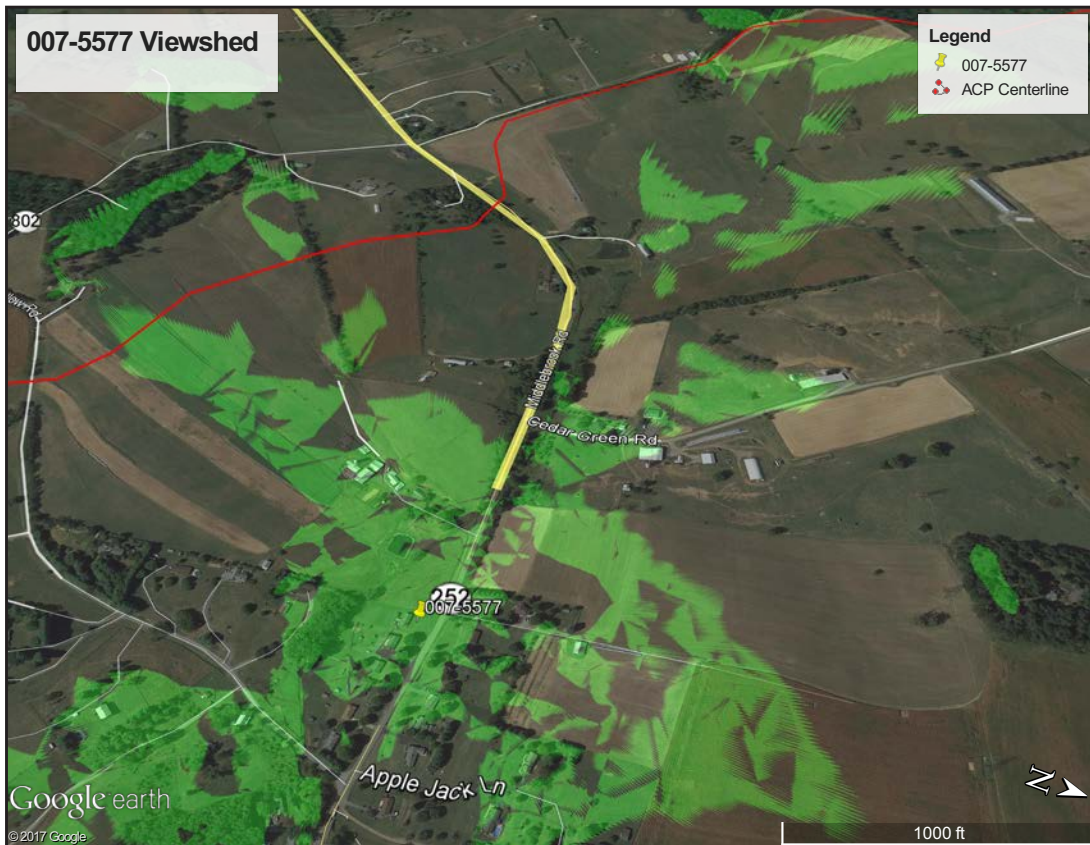


Figure 232. 007-5577 - Viewshed.

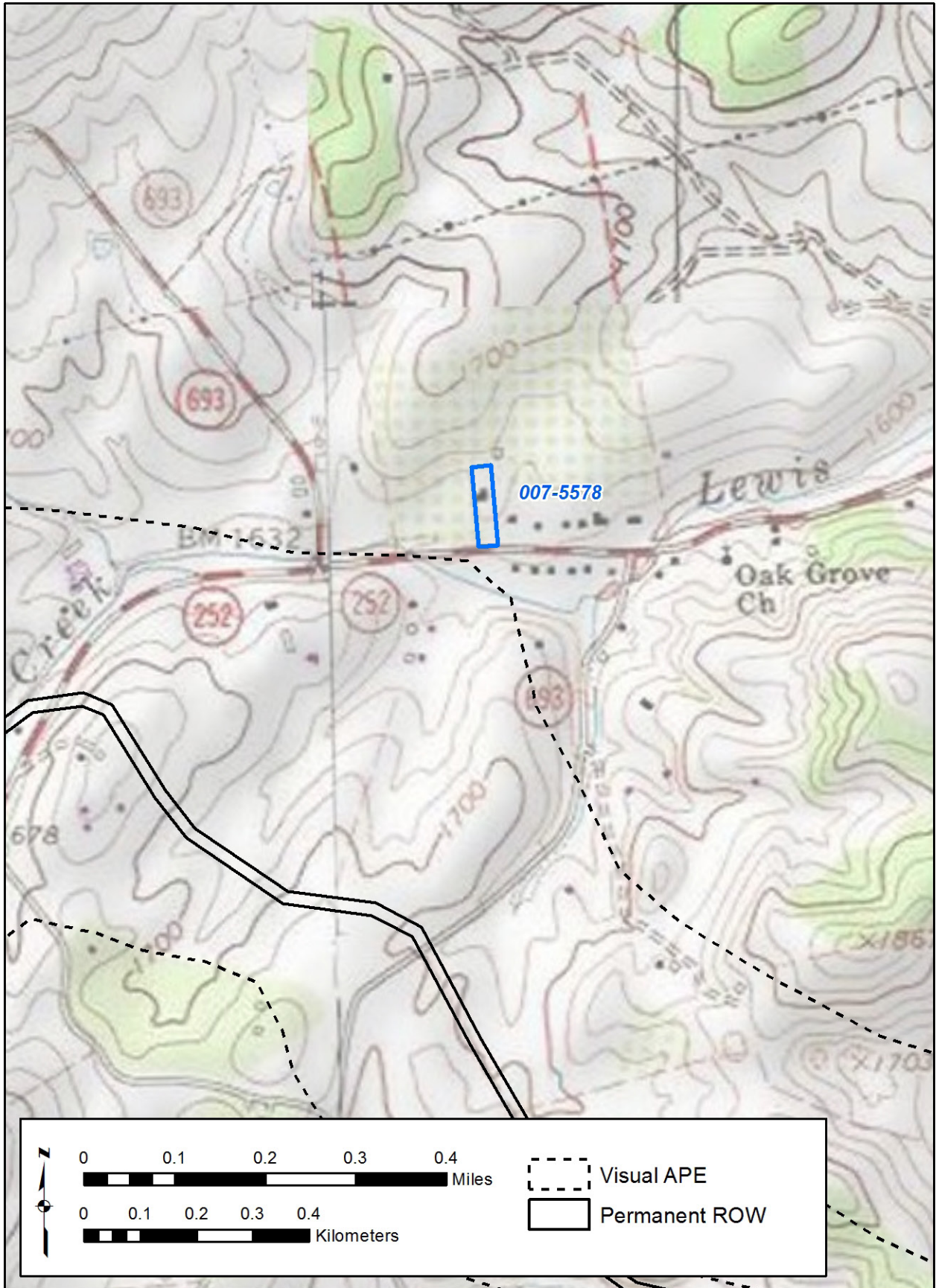


Figure 233. 007-5578 - USGS Quadrangle.



Figure 234. 007-5578 - Aerial.

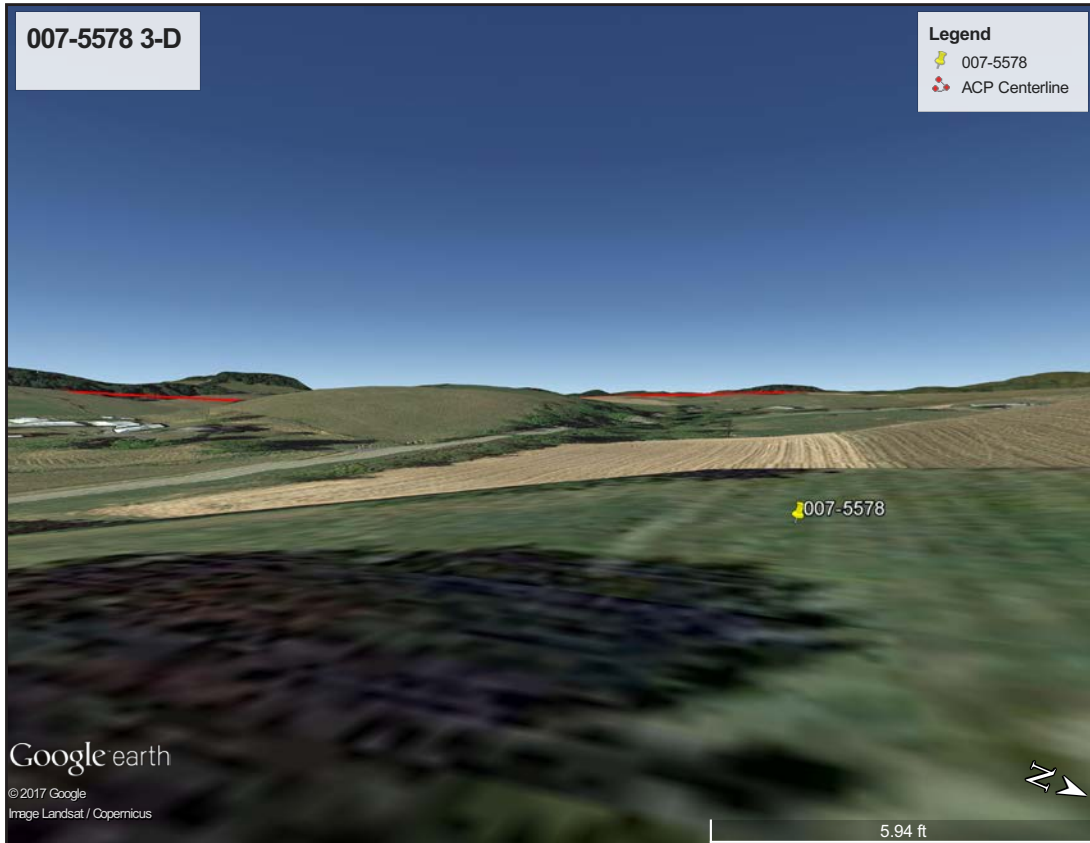


Figure 235. 007-5578 - 3-D View.



Figure 236. 007-5578 - Viewshed.



Figure 237. 007-5579 - USGS Quadrangle.



Figure 238. 007-5579 - Aerial.



Figure 239. 007-5579 - 3-D View.

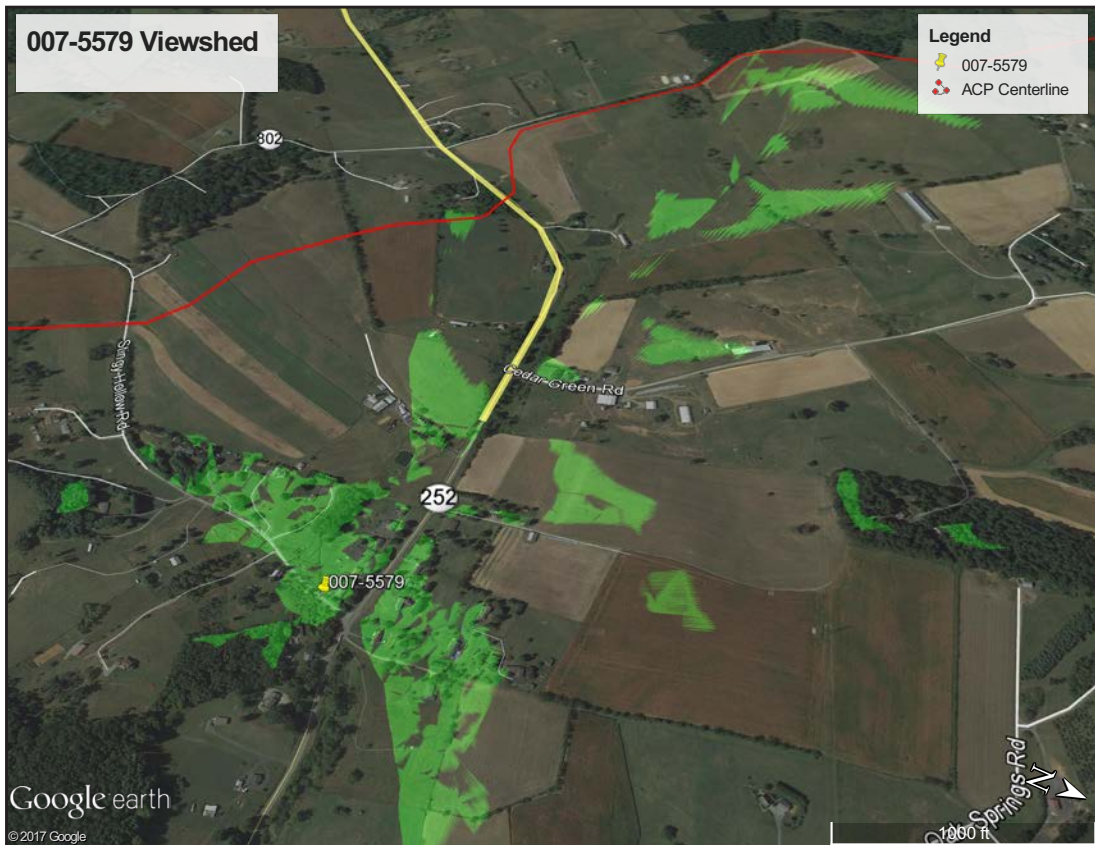


Figure 240. 007-5579 - Viewshed.