

Ground Penetrating Radar Survey – African Methodist Episcopal Church Cemetery, 324 Carranza Road, Tabernacle Township, Burlington County, New Jersey, Block 1202, Lot 28



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Abstract

The ground penetrating radar (GPR) survey described in this report was conducted with the aid of a National Park Service grant. The grant was awarded to the Pinelands Commission for the purposes of promoting, facilitating, and improving people's understanding of natural, cultural, recreational, and other aspects of the Pinelands Area and Pinelands National Reserve. The GPR survey was conducted at the African Methodist Episcopal (AME) Church Cemetery located on Block 1202, Lot 28 at 324 Carranza Road in Tabernacle Township, Burlington County, New Jersey. The survey included both documentary research and fieldwork. The results of the documentary research revealed that the church was originally constructed in the early to mid-19th century and was removed after a fire destroyed most of the building circa 1935. The GPR survey discovered numerous subsurface anomalies, including at least one potential unmarked burial plot.

The investigator would like to thank Richard Franzen, President of the Tabernacle Historical Society, for his assistance with planning efforts and fieldwork (long day with a ton of walking). Additionally, I would like to thank Mike Patterson who not only assisted with the fieldwork but, along with other volunteers from the Shawnee Baptist Church group, has been diligently landscaping the cemetery grounds and is largely responsible for the cemetery being maintained.

Copies of this report and data can be found at the New Jersey Pinelands Commission office and are available upon request.

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1. Introduction

A ground penetrating radar (GPR) survey was conducted with the aid of a National Park Service grant. The grant was awarded to the Pinelands Commission for the purposes of promoting, facilitating, and improving people's understanding of natural, cultural, recreational, and other aspects of the Pinelands Area and Pinelands National Reserve. The GPR survey was conducted at the African Methodist Episcopal (AME) Church Cemetery located on Block 1202, Lot 28 at 324 Carranza Road in Tabernacle Township, Burlington County, New Jersey (Figures 1-1 and 1-2). The survey included both documentary research and fieldwork, and the methods and findings of this survey are contained within this report.

In spring 2023, Richard "Rick" Franzen, President of the Tabernacle Historical Society, contacted this office to discuss conducting a ground penetrating radar (GPR) survey at one or more cemeteries that are in Tabernacle Township, New Jersey. On the morning of May 2, 2023, we met at the Tabernacle Cemetery, on the corner of Carranza Road and Chatsworth Road, and visited a couple of other cemeteries and sites in the area. One of these other cemeteries that we visited was the African Methodist Episcopal (AME) Church Cemetery, which is the subject of this report. It was determined that the AME Church Cemetery would be a good place to conduct the GPR survey due to its potential to contain unmarked graves. According to long-time residents of the area, there were numerous wooden grave markers present at the site that are no longer visible.

The remainder of this report will outline the research and fieldwork methodology (Section 2), a brief historical background of the property (Section 3), the results of the GPR survey (Section 4), and the conclusions of the report (Section 5). Section 6 includes the references cited within the report and the collected field data in its entirety is appended to the end of the report.



Figure 1-1: Project Location Map (aerial)

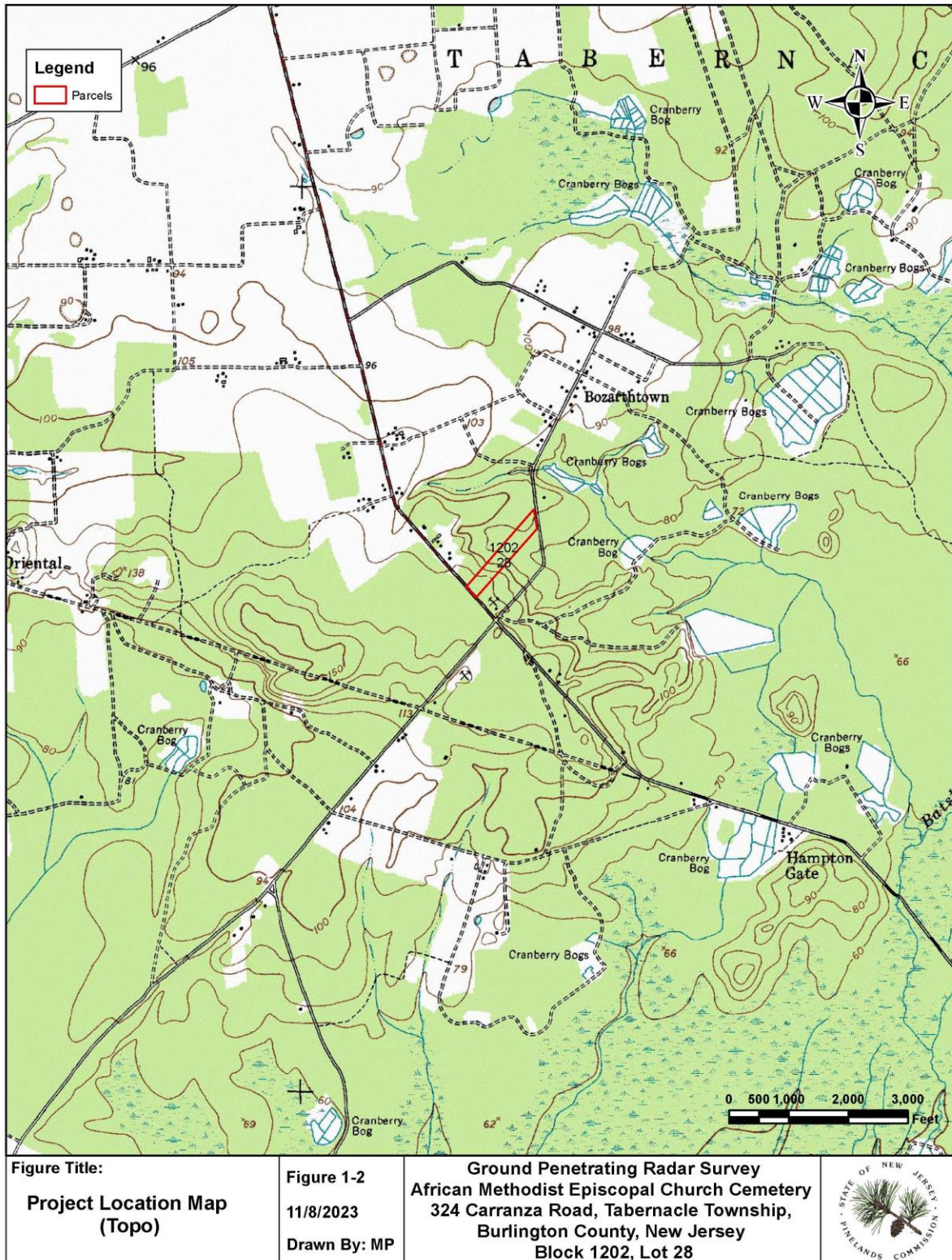


Figure 1-2: Project Location Map (aerial)

2. Methodology

This section briefly describes the methods employed during the documentary research and field survey.

2.1. Research Methods

Documentary research was limited to sources that could contribute to determining the extent and locations of potential structures and graves associated with the AME cemetery. The research included an online review of historic maps, aerial photographs, and literature. Preparations for the survey also included a great deal of online GPR tutorials, webinars and reviewing product manuals on proper equipment use and data processing.

2.2. Field Methods

Field methods were primarily determined through observations of site conditions made during the author's first (May 2, 2023) and second (September 20, 2023) site visits. The existing burials with visible grave markers are oriented with their long axis perpendicular to Carranza Road. Therefore, it was determined that the most advantageous survey method would be to run a baseline along the edge of the property, at the boundaries of Block 1202, Lots 28 and 32, perpendicular to Carranza Road and perform the GPR survey along two-foot interval transects running parallel to Carranza Road.

Although it is currently unknown to the author what direction the original burials were oriented, it was assumed that the later burials would have matched the orientation of existing burials that were still visible. Additionally, if the original burials were oriented east-west, as is traditional for Christian burials, then this method would cross diagonally along their long axis and the graves would still likely be visible in multiple GPR transects spaced two feet apart.

A US Radar Inc. Subsurface Imaging System model Q5C unit was used for the field survey..

2.3. Laboratory Methods

Once all the fieldwork was completed, the author used US Radar Controller software to analyze the data from each transect. Using this software, JPEG images (see Appendix A) of each transect were exported from the GPR unit tablet. All identified anomalies were marked in the dataset, and the results were exported to a Comma Separated Values (CSV) spreadsheet (see Appendix B). Each anomaly point was then given a UTM coordinate based on the GPS (global positioning system) points collected during fieldwork and imported into ArcGIS as a shapefile. ArcGIS was then used to further analyze the anomalies and attempt to identify unmarked burials.

The results are presented below in Section 4.2.

3. Environmental and Historical Context

This section briefly describes the environmental and historical context of the project area.

3.1. Environmental Context

The AME Church Cemetery is located within the Cohansey Formation of the New Jersey Coastal Plain physiographic province, which is characterized primarily by unconsolidated medium- to coarse-grained quartz, sandy soils. According to the New Jersey Geological Survey, the entire surficial geology of the study area is made up of Weathered Coastal Plain Formations. The only mapped soil type within the study area is Sassafras fine sandy loam, which is described as a well-drained soil composed of loamy and/or gravelly fluviomarine deposits (Web Soil Survey). Sandy soils are optimal for GPR surveys as they provide an ideal medium for radar to travel through, allowing for deep and more predictable readings.

The entire survey area has been well groomed by local volunteers. Within the last couple of years, much of the overstory and understory have been removed in an effort to beautify and revitalize the cemetery for/and by the descendants of some of the deceased who are buried there. The mixed woodland area is composed of shortleaf pine, black oak, white oak, chestnut oaks, post oak, and blackjack oak, which are typical of a Pinelands upland environment (Plate 3-1).

The property is situated a relatively great distance from any surficial water. The closest surface water is a small tributary of the Batsto River located 1,500 feet to the north. Wetlands associated with this same tributary are closer, although still approximately 1,000 feet east of the known cemetery boundary.

3.2. Historical Context

Research was conducted to better understand the site in its historic context, determine its antiquity, and search for evidence regarding the potential location of building remains or the extent of burials at the cemetery. This research included a review of historic maps, aerial imagery, online resources, and literature.

The AME Church began as the Free African Society in Philadelphia in 1787. Richard Allen, Absalom Jones and other free blacks left St. George's Methodist Episcopal Church because of discrimination and racism that they experienced there. In 1793 they formed the Bethel African Methodist Episcopal Church. To establish independence from the white Methodist congregations, Allen sued in the Pennsylvania courts in 1807 and again in 1815. The African Methodist Episcopal Church was then founded in 1816 and was the first independent Protestant denomination founded by black people (Grem 2020; Melton 2007; Richardson 1919). The AME Church on Carranza Road appears to have been constructed in the mid to late 19th century during a time that the church experienced its largest expansion period following the Civil War.



Plate 3-1: Site Overview Photograph, view to the north.

Date: 9-21-2023

Photo Credit: Marc Paalvast

The earliest dependably accurate depictions of Carranza Road appear on the Thomas Gordon state maps of New Jersey in 1828 and 1833 (Figures 3-1 and 3-2). Carranza Road in these maps is depicted as connecting the town of Tabernacle to Tuckerton Road. Although Carranza Road is depicted as a straight line without its current “dog leg” orientation in these maps, it seems likely that this is a drawing error and not evidence that the road was realigned between 1833 and 1849 when the road’s current orientation is first depicted (Otley and Whiteford 1849; Figure 3-3). The first residences along Carranza Road are depicted in 1849 and similarly in 1860 (Hopkins 1860; Figure 3-4). Bozarthtown Road first appears on an 1888 New Jersey Geological Survey Map suggesting increased residential development of the area is occurring in the mid to late 19th century (NJGS 1888; Figure 3-5). None of these historic maps have the church building depicted on them.

A review of the USGS Topographical maps of the area also revealed that no buildings are ever depicted in the parcel. However, in 1942, on the USGS map, a small dirt road is mapped cutting through the property, which is visible on historic aerial images as well (Figure 3-6). This is also the first instance of buildings being depicted on the USGS maps of the area. As such, it is not surprising that the church was not depicted since it, reportedly, burned down and was demolished circa 1935.

The earliest available aerial image of the area is from 1930 (Figure 3-7). Note that the projection of the 1930 aerial image is slightly off and does not perfectly align with the current parcel boundary. In this image, a building and associated dirt access road and another small dirt road passing behind the building are visible. Interestingly, the dirt access road to the church grounds is oriented nearly due north from Carranza Road as opposed to its modern orientation of directly perpendicular to Carranza Road (Figure 3-8). This change appears to have occurred shortly after the building was razed because by 1940 the northerly oriented access road is no longer visible and appears oriented as it is today (image unavailable due to copyright, can be viewed at www.historicaerials.com). The property becomes more and more densely wooded as time passes. A residence is constructed on the adjacent lot to the southeast sometime between 1956 and 1963. According to the resident, a segment of the small dirt road that once cut behind the church connecting Carranza Road to Bozarthtown Road is still discernable at the back of his yard behind his shed. No evidence of the cemetery was visible in any of the historic aerial images.

Historical literature research was mostly limited to an online documentary review. As reported on the Tabernacle Historical Society website, deed books from the Burlington County Clerk’s Office have a deed recorded in Book C8 Page 607, which states that a property was sold to the “Trustees of the African M.E. Ch.” on October 13, 1868. The deed names George Eayers, David Thompson and Stacey Mires as the buyers and states that, “come to be erected and built thereon a house of worship for the use of the members of the African Methodist Episcopal church and a part of the same shall be used as a burial ground” (Burlington County Deed Book C8 Page 607). George Eayers was a Civil War veteran who served as a Private in the Twenty-Fifth Regiment of the U.S. Colored Troops. His headstone is marked “Geo.H.Eares” and is present at the AME Church cemetery (Plate 3-2). It is the oldest known grave at the site.

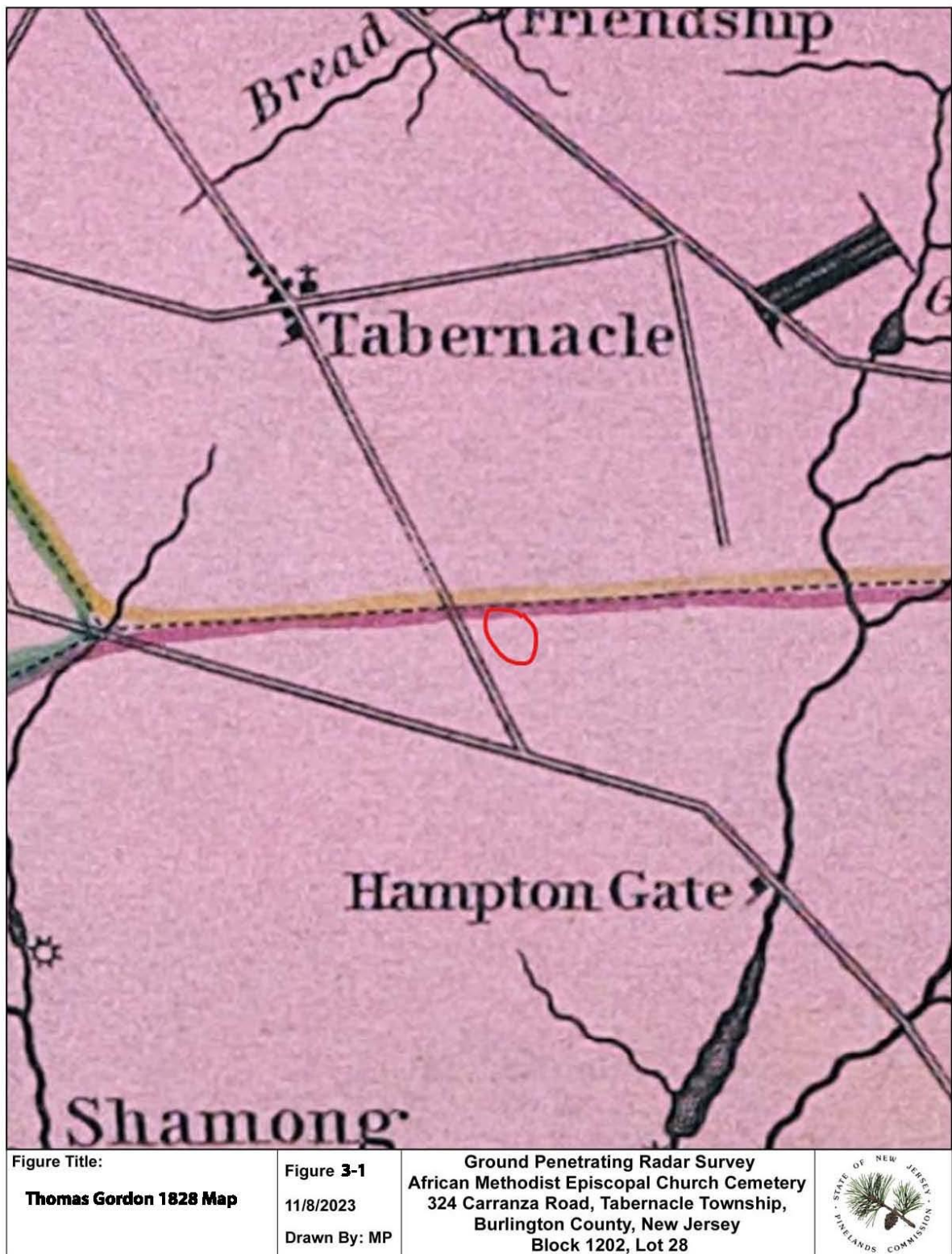


Figure 3-1: 1828 Gordon State Map

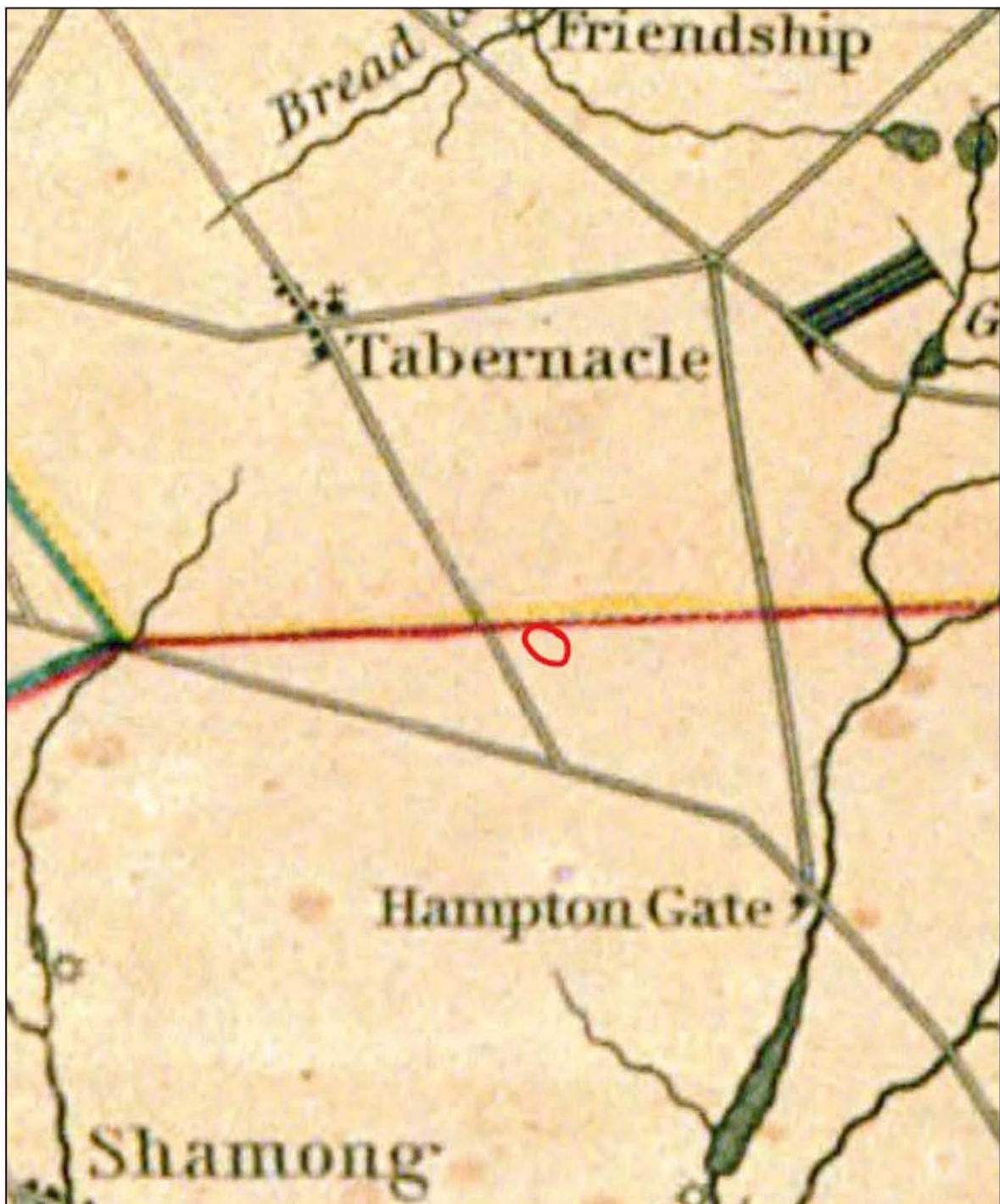


Figure Title: Thomas Gordon 1833 Map	Figure 3-2 11/8/2023 Drawn By: MP	Ground Penetrating Radar Survey African Methodist Episcopal Church Cemetery 324 Carranza Road, Tabernacle Township, Burlington County, New Jersey Block 1202, Lot 28	
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Figure 3-2: 1833 Gordon State Map

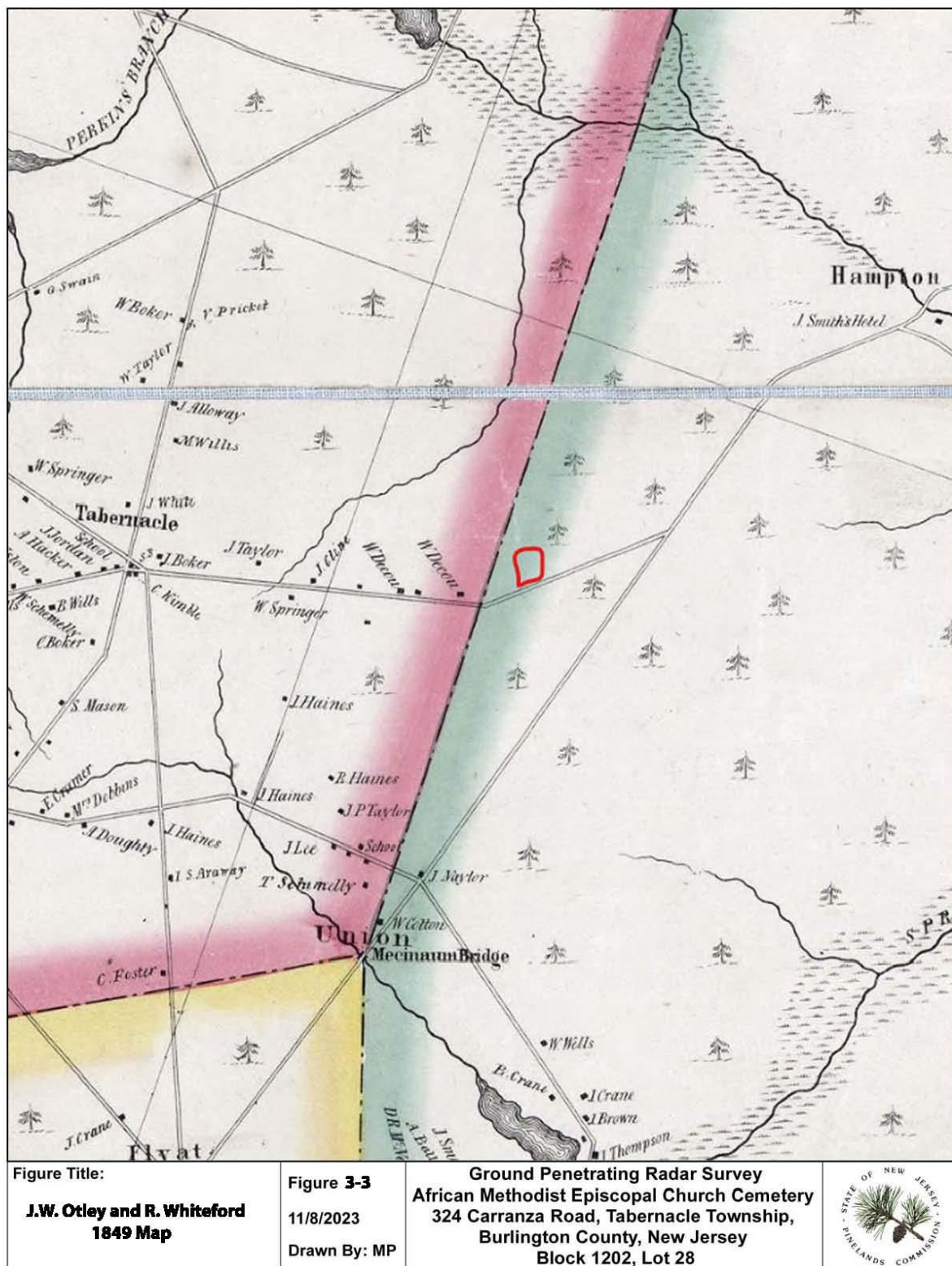


Figure 3-3: 1849 Otley and Whiteford County Atlas Map



Figure Title: Griffith Morgan Hopkins, Jr. 1860 Map	Figure 3-4 11/8/2023 Drawn By: MP	Ground Penetrating Radar Survey African Methodist Episcopal Church Cemetery 324 Carranza Road, Tabernacle Township, Burlington County, New Jersey Block 1202, Lot 28	
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Figure 3-4: 1860 Hopkins State Map



Figure 3-5: 1888 Geological Survey of New Jersey State Map



Figure Title: United States Geologic Survey 1942 Map	Figure 3-6 11/8/2023 Drawn By: MP	Ground Penetrating Radar Survey African Methodist Episcopal Church Cemetery 324 Carranza Road, Tabernacle Township, Burlington County, New Jersey Block 1202, Lot 28	
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Figure 3-6: 1942 USGS Map



Figure 3-7: 1930 Historic Aerial Image



Figure 3-8: 2021 Aerial Image



Plate 3-2: George Eares headstone. View to the northeast.

Date: 9-21-23

Photo Credit: Marc Paalvast



Plate 3-3: George Eares grave markers. View to the east.

Date: 9-21-23

Photo Credit: Marc Paalvast

Remarkably, the lot that the cemetery currently resides on is over 9 acres in size and the deed states that the sold land only amounted to 1.9 acres. The extent of burials and the location of the church, as identified by the 1930 historic aerial image, appears to be contained within an area of less than 1.9 acres. This may be evidence that while the property was sold as a 1.9-acre lot, it may not have been officially subdivided, or the property may have been combined with other lots at a later time. Further deed research would be required to determine this and was not conducted during this survey.

Given the above information, it seems likely that the church was constructed in 1868 or soon after.

Contradicting this date, George Flemming's book on the Brotherton Reservation describes Indian Ann and her husband, John Roberts, as being instrumental in the founding of an AME Church on Carranza Road (2005). Since John Roberts is reported to have passed away at the Burlington County Alms House on July 15, 1852, this would suggest that the church was constructed sometime before then. This seems unlikely given the deed documents, although a local congregation may have been active prior to the construction of the church on Carranza Road. John Roberts' role in the congregation and/or church construction is unknown at this time. It is possible that Indian Ann and her children attended the church and may have played a role in its founding. According to the waymarking.com website, the church "would be lit outside with torches, acting as a beacon for local blacks and Native Americans." The reference to Native Americans could suggest that Indian Ann and her family were members of the congregation, although the source for the website's information is unknown.

4. Field Work and Results

This section describes the conducted field work and results of the survey.

4.1. Field Work

On the morning of September 21, 2023, the author, Rick Franzen, and Mike Patterson met at the cemetery grounds at 9 a.m. Standing headstones and other grave markers are present toward the rear of the landscaped area on the lot. Some slight ground depressions were noted in this area suggesting some of the coffins have collapsed even from relatively recent burials. A baseline generally following the neighboring driveway, oriented NE from Carranza Road, was laid out using a 500-foot open reel measuring tape. Pin flags were used to mark every two feet along the tapeline at every even number (i.e., 2ft, 4ft, 6ft, etc.). This same process was used to mark out an endline that generally followed the graveled dirt access road for the cemetery, also oriented to the NE from Carranza Road. Pin flags once again were used to mark every two feet along the tapeline, although this time marking every odd number (i.e., 1ft, 3ft, 5ft, etc.; Plate 4-1). The ends of both the baseline and endline were recorded with a Garmin GPS unit.

At this point, the GPR unit was turned on and prepared to complete the survey. Each transect was recorded by placing the right back tire of the GPR unit next to the even numbered baseline flag and the unit was pushed directly at the odd numbered endline flag while recording. At the end of each transect, the recorded line data was saved, the transect pin flag was removed, and the GPR unit was rolled back to the baseline for the next transect to be surveyed. During this process, the GPR tablet, displaying the data in real time, was monitored and if a potential anomaly was observed, a pin flag was stuck in the ground at its location. This was done to give a real-time visual to the subsurface anomalies in case any patterns were to emerge. Unfortunately, this proved mostly unsuccessful in displaying any identifiable patterns and resulted in a large scattering of pin flags (Plates 4-2 through 4-3).

A total of 96 transects were recorded using this method during the survey.

4.2. Results

Upon processing the GPR data from each of the 96 line transects that were recorded, a total of 1,782 subsurface anomalies were identified (Appendix B). The estimated depths of these anomalies were rounded to the nearest whole number; the total number of anomalies by depth is shown on Table 4-1. Figure 4-1 shows each of the anomalies that occurred within 9.5 feet of the ground surface ($n = 994$). Figures 4-2 through 4-11 show the anomalies within 9.5 feet of the ground surface in 1-foot depth slices, and Figure 4-12 shows all the anomalies that occurred below 9.5 feet bgs.



Plate 4-1: Flagging pins marking baseline of GPR transects. View to the northeast.

Date: 9-21-23

Photo Credit: Marc Paalvast



Plate 4-2: Pin flags marking potential anomalies. View to the northeast.

Date: 9-21-23

Photo Credit: Marc Paalvast



Plate 4-3: Pin flags marking potential anomalies. View to the north.

Date: 9-21-23

Photo Credit: Marc Paalvast

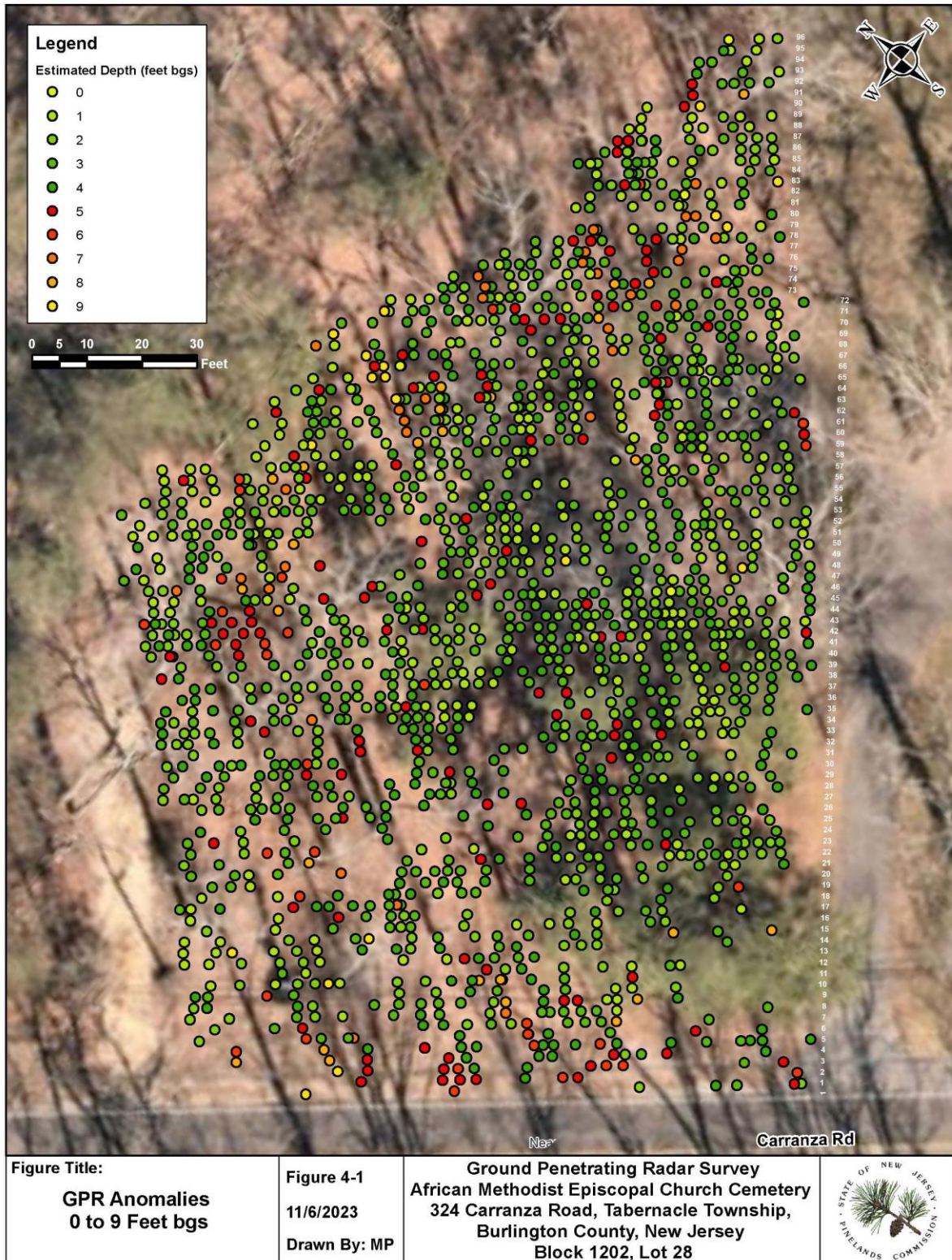


Figure 4-1: Depth of Anomalies 0 to 9 feet below ground surface



Figure 4-2: Depth of Anomalies 0 to 0.5 feet below ground surface



Figure 4-3: Depth of Anomalies approximately 1 foot below ground surface



Figure 4-4: Depth of Anomalies approximately 2 feet below ground surface

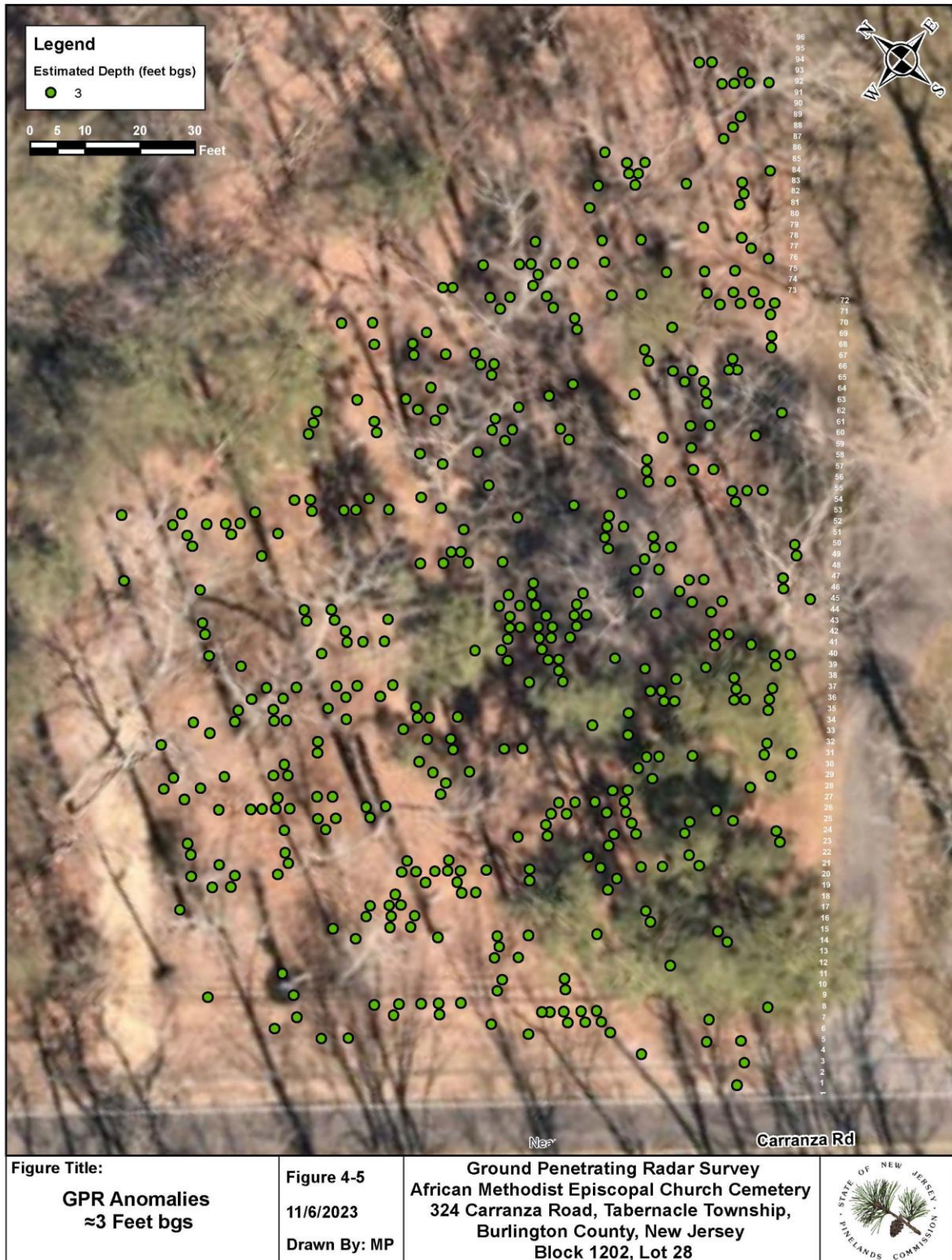


Figure 4-5: Depth of Anomalies approximately 3 feet below ground surface

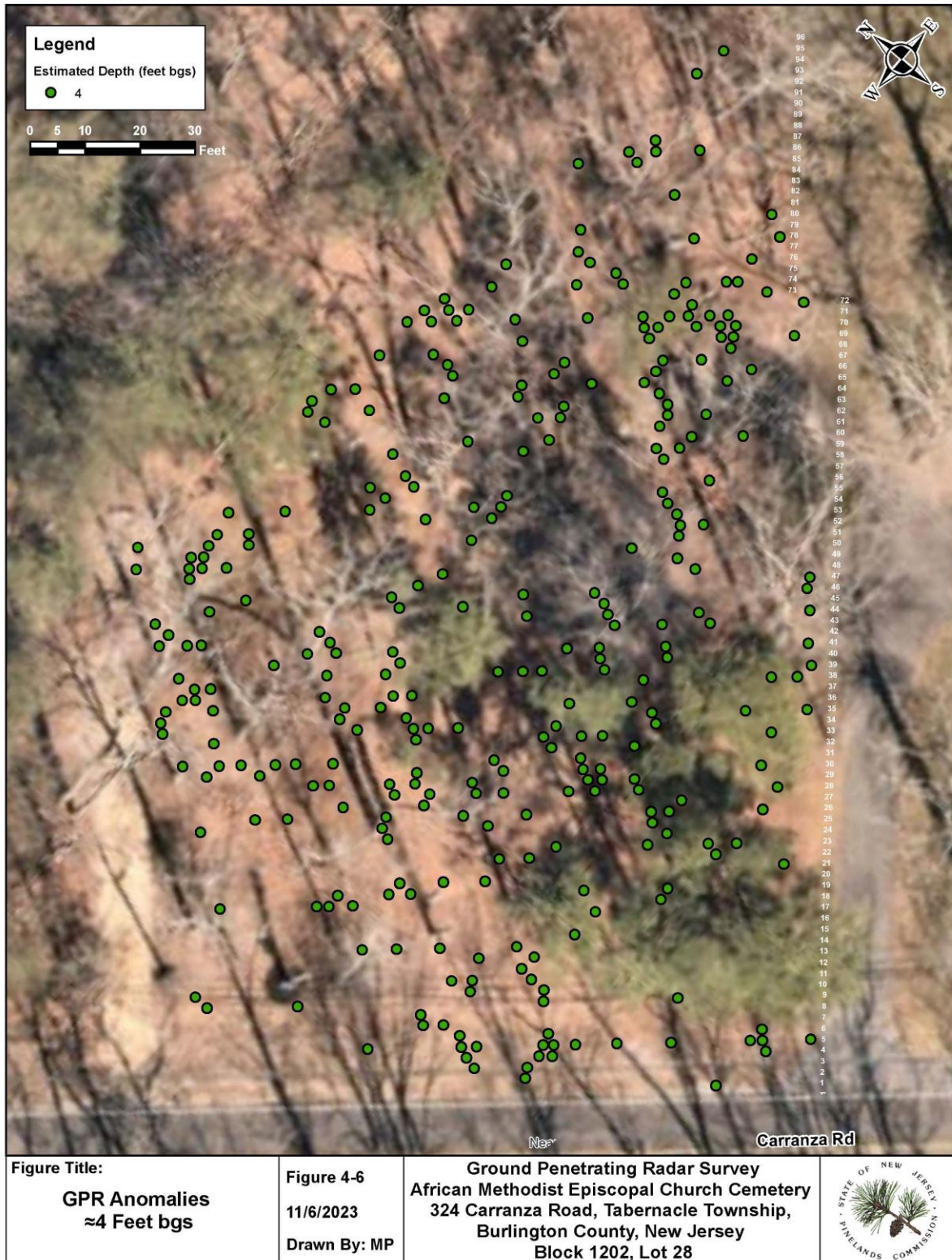


Figure 4-6: Depth of Anomalies approximately 4 feet below ground surface

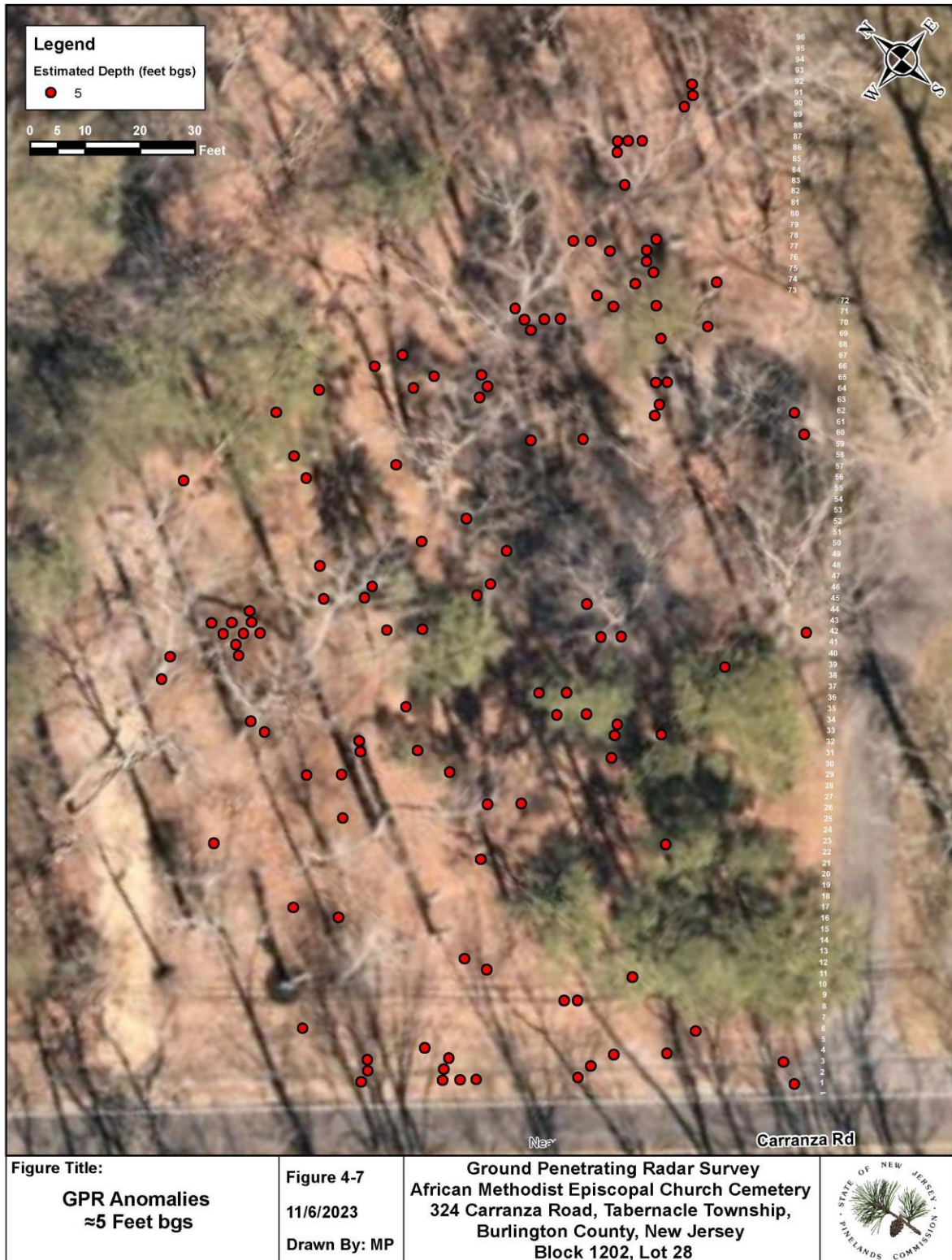


Figure 4-7: Depth of Anomalies approximately 5 feet below ground surface



Figure 4-8: Depth of Anomalies approximately 6 feet below ground surface



Figure 4-9: Depth of Anomalies approximately 7 feet below ground surface



Figure 4-10: Depth of Anomalies approximately 8 feet below ground surface



Figure 4-11: Depth of Anomalies approximately 9 feet below ground surface



Figure 4-12: Depth of Anomalies between 10 and 17 feet below ground surface

Estimated Depth (feet bgs)	Total Number of Anomalies
0-0.5	5
1	333
2	419
3	436
4	322
5	122
6	33
7	34
8	28
9	19
10	4
11	16
12 to 17	11
TOTAL	1782

Table 4-1: Total Number of Anomalies by Estimated Depth

A total of 757 anomalies were identified within 2.5 feet of the ground surface, many of which likely represent tree roots from the many trees on the property or the trees that were recently cut down to restore the site. The anomalies between 2.5 and 9.5 feet have the most potential to be associated with burial remains. A total of 31 anomalies were recorded over 9.5 feet bgs.

Most anomalies noted between the depths of 6.5 feet and 9.5 feet below ground surface were recorded in the area where known burials exist (Figures 4-9 through 4-11). As was noted during the time of the survey, many of these anomalies occur in association with standing headstones.

One set of anomalies, found in Transects 90 through 93, stood out as a potential unmarked burial. These occurred between approximately 5 and 6 feet below the ground surface and are aligned perpendicular with Carranza Road. Due to dense leaf litter and vegetation, the extent of these anomalies was not able to be investigated. This could be evidence that the burials extend further than originally thought and more may exist beyond the area that has been cleared and landscaped.

Physical evidence of the location of the church building was limited to a small rubble pile containing ironstone rubble as well as asphalt located near the front of the lot adjacent to the neighboring driveway (Plate 4-4). The photograph on the cover of this report shows what is believed to be the church building shortly before it was demolished (Nathaniel Ewan Scrapbooks). This photograph shows the building standing on stone piers that were likely constructed of ironstone. Figure 4-1 shows the area to the north of the ironstone rubble having very few noted anomalies. This could be because no trees were growing where the building once stood and therefore there are no large roots in this area that would cause a subsurface anomaly. This in conjunction with the 1930 aerial photograph of the church, as shown in Figure 3-7, makes it highly likely that this is the location of the original church building.



Plate 4-4: Rubble pile with ironstone near driveway towards front of lot. View to the southeast.

Date: 9-21-23

Photo Credit: Marc Paalvast

5. Conclusions and Recommendations

Although GPR data is unable to provide definitive evidence of unmarked burials without physically excavating at the locations of the anomalies, at least one unmarked burial was likely identified during this survey and the location of the original church structure was potentially confirmed. Areas where subsurface anomalies were identified between 5 and 9 feet (Figures 4-7 through 4-11) should be considered to have the potential to contain unmarked burials and disturbances to these areas should be avoided.

If the understory of the wooded area beyond the limits of this GPR survey is cleared, additional survey work would be recommended to further investigate the potential unmarked burial identified in Transects 90 through 93 (Figure 4-7) and to determine if there are more unmarked burials beyond the limits of this survey.

Future research identifying and mapping the footprints of the dirt roads that once crossed through the lot would assist in identifying the original landscape layout of the church and cemetery. An archaeological investigation in the area of the original church building would be useful in confirming its location, although minimal structural remnants would be anticipated. Historical research aimed at identifying members of the early congregation or clergy would help confirm the construction date and founding of the church.

6. References

Ewan, Nathaniel Rue

1870-1961[?] Scrapbook collections. New Jersey Room. Burlington County Library. Cover Photo Credit.

Flemming, George D.

2005 *Brotherton: New Jersey's First and Only Indian Reservation and the Communities of Shamong and Tabernacle That Followed*. Plexus Publishing, Inc. Medford, New Jersey.

Geologic Survey of New Jersey

1888 "The State of New Jersey: From Original Surveys Based on the Triangulation of the U.S. Coast and Geodetic Survey". Geologic Survey of New Jersey, 1888. A general reference map, showing roads and civil divisions.

Gordon, Thomas (1778-1848)

1828 "Map of the State of New Jersey: with Part of the Adjoining States." Trenton, N.J.: Published by the author; Philadelphia: H.S. Tanner, 1828.

Gordon, Thomas (1778-1848)

1833 "A Map of the State of New Jersey with Part of the Adjoining States: Compiled under the Patronage of the Legislature of Said State." Trenton, N.J.; Philadelphia, Pa.: Published by author, 1833. Second edition, improved to 1833.

Grem, Darren

2020 *African Methodist Episcopal Church*. New Georgia Encyclopedia, last modified Mar 26, 2020. <https://www.georgiaencyclopedia.org/articles/arts-culture/african-methodist-episcopal-church-ame-church/>

HistoricAerials.com

2023 <https://www.historicaerials.com/viewer>. Accessed 11-6-2023.

Hopkins, Griffith Morgan, Jr.

1860 "Topographical Map of the State of New Jersey: Together with the Vicinities of New York and Philadelphia, and with Most of the State of Delaware: From the State Geological Survey and the U.S. Coast Survey, and from Surveys." Philadelphia: H.G. Bond, 1860.

Melton, J. Gordon

2007 *A Will to Choose: The Origins of African American Methodism*. Introduction by Woodie W. White. Lanham, MD: Rowman & Littlefield. pp. 8–11.

Otley, J.W. and R. Whiteford

1848 "Map of Burlington County Mostly from Original Surveys". Philadelphia: Smith & Wistar, 1849.

Richardson, Clement

1919 *The National Cyclopedia of The Colored Race*, Clement Richardson Editor-in-Chief, Volume One, p. 576, National Publishing Company, Inc., Montgomery, Alabama.

Tabernacle Historical Society

2023 <https://tabernaclehistoricalsociety.org/ths-home-page/historic-archives/historical-churches/#African-Methodist-Church>. Accessed September and November 2023.

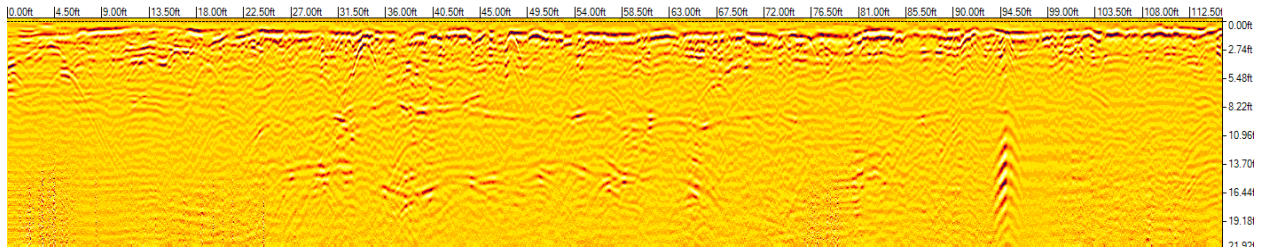
Web Soil Survey

2019 Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online. Accessed 11-7-2023.

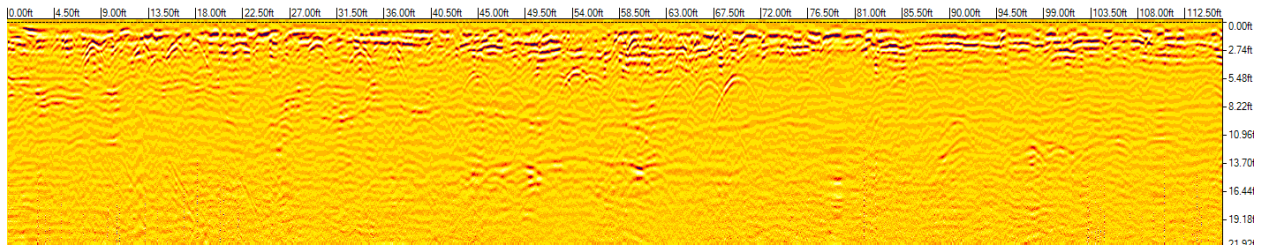
APPENDIX A

Ground Penetrating Radar Data Images

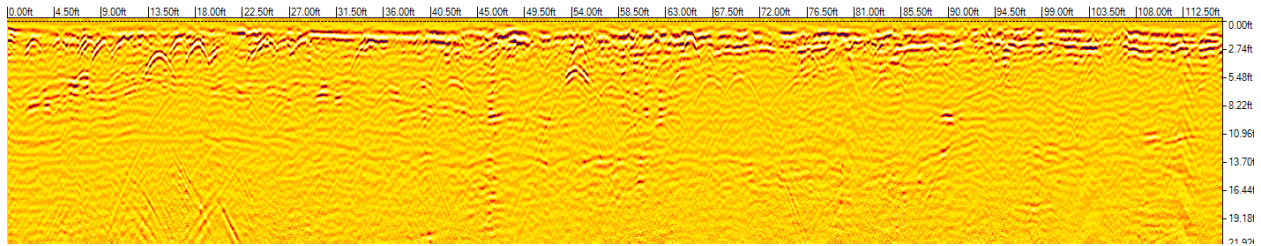
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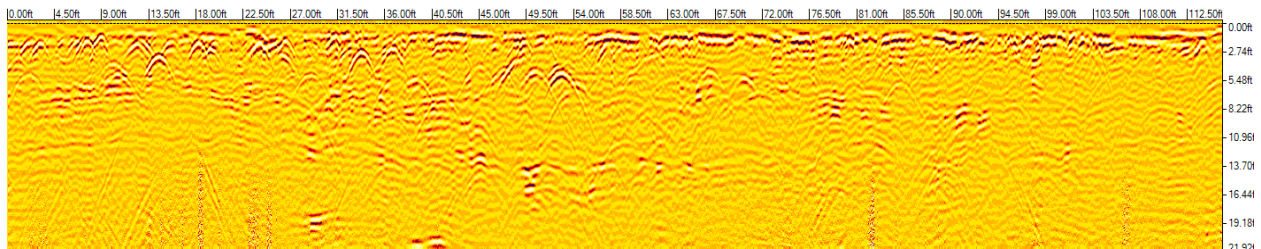
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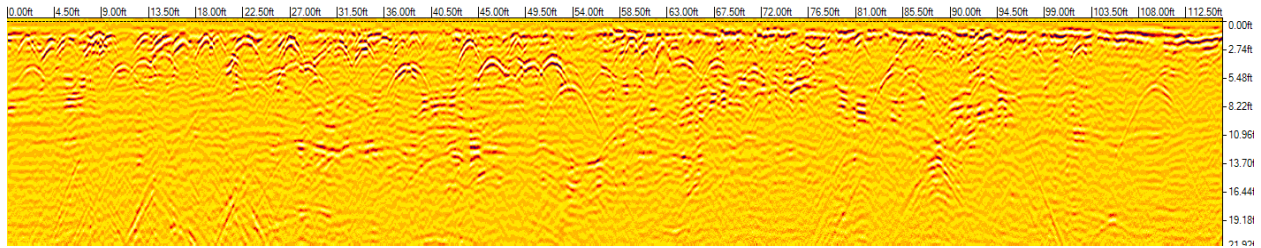
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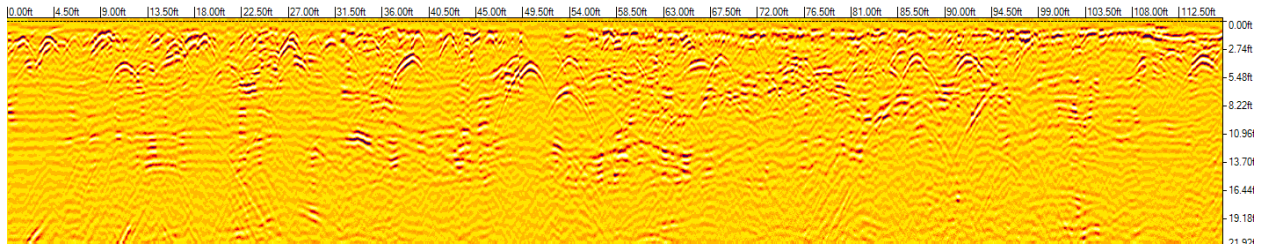
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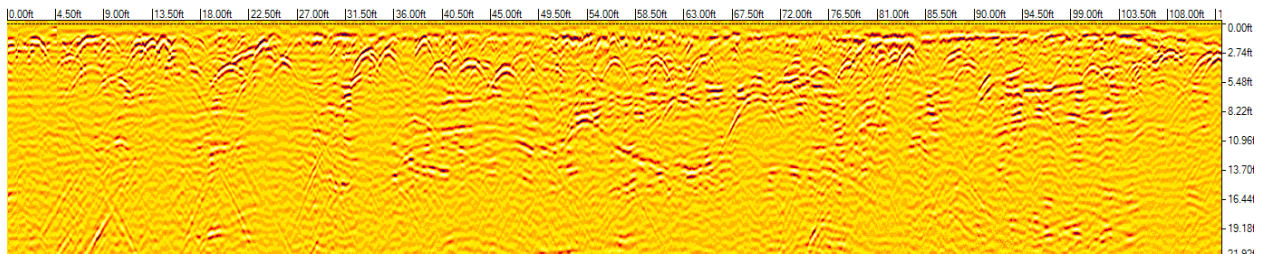
Transect 5 :



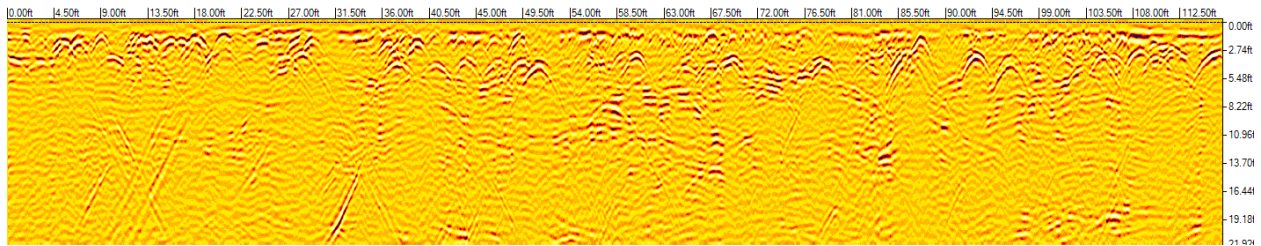
Transect 6 :



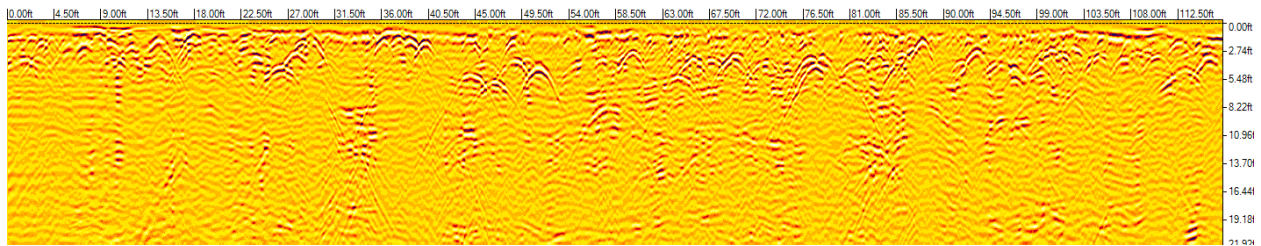
Transect 7 :



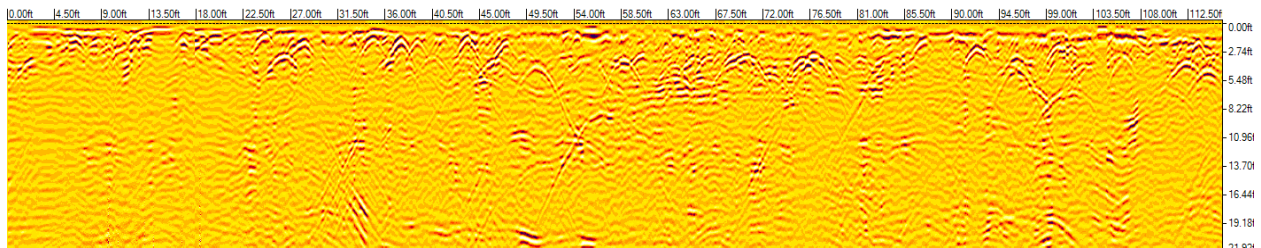
Transect 8 :



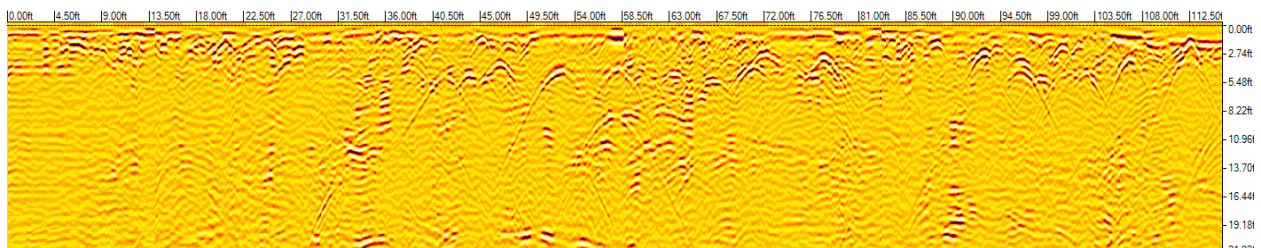
Transect 9 :



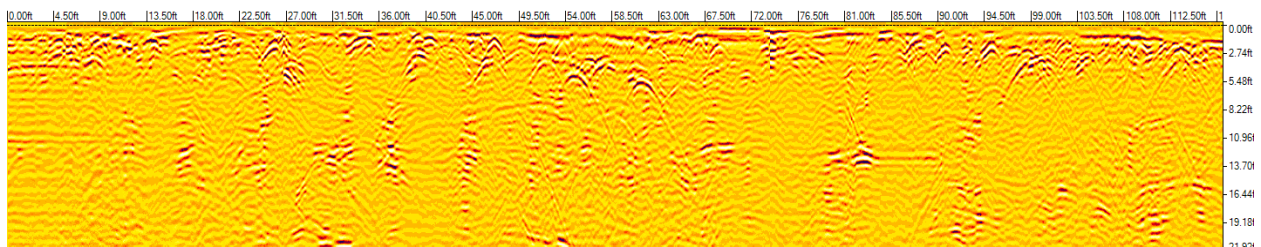
Transect 10 :



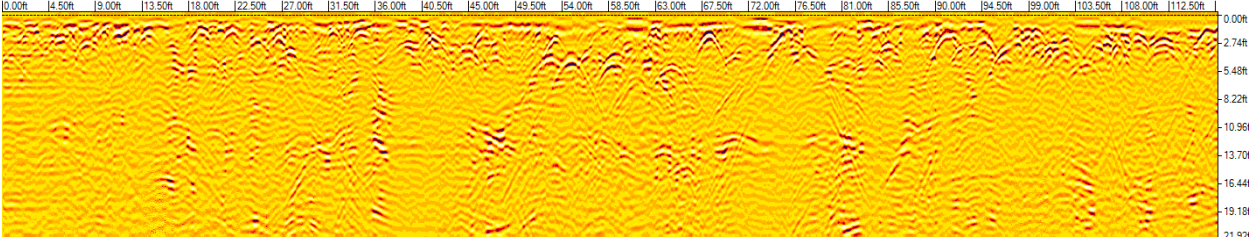
Transect 11 :



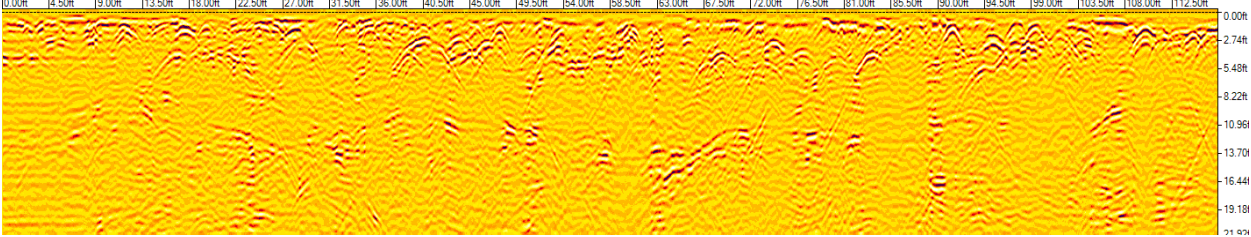
Transect 12 :



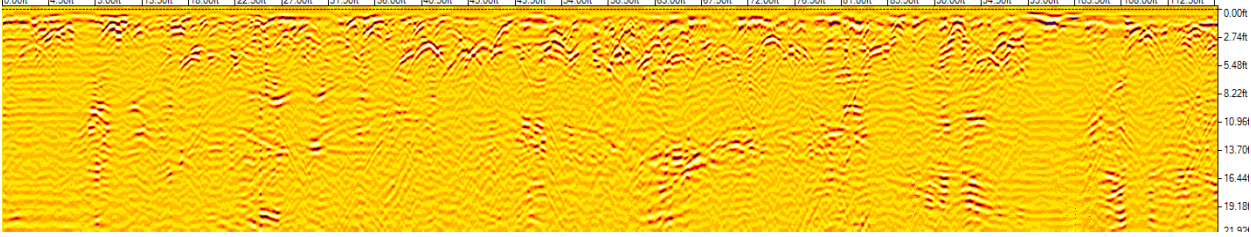
Transect 13 :



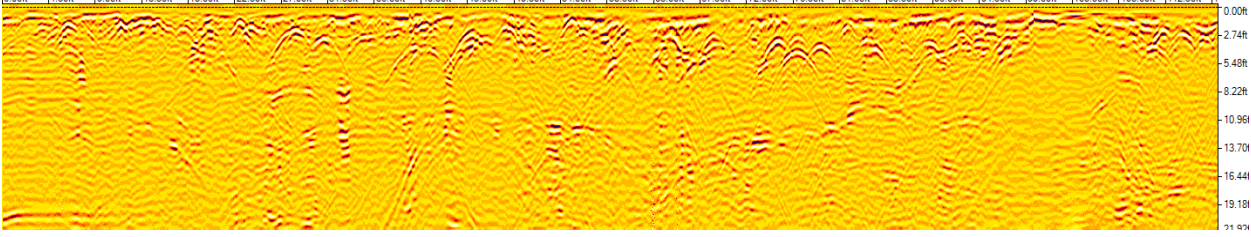
Transect 14 :



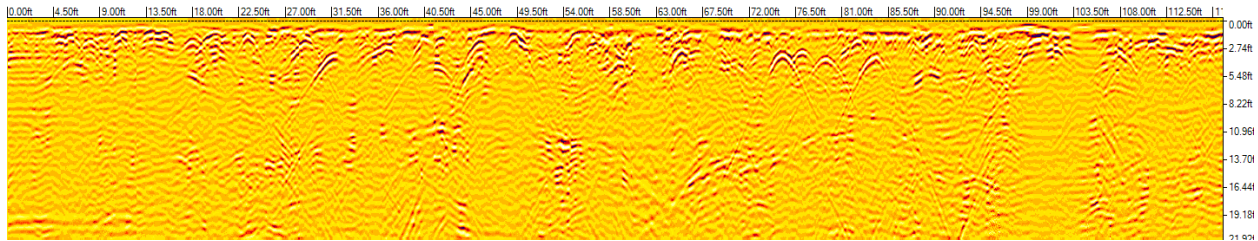
Transect 15 :



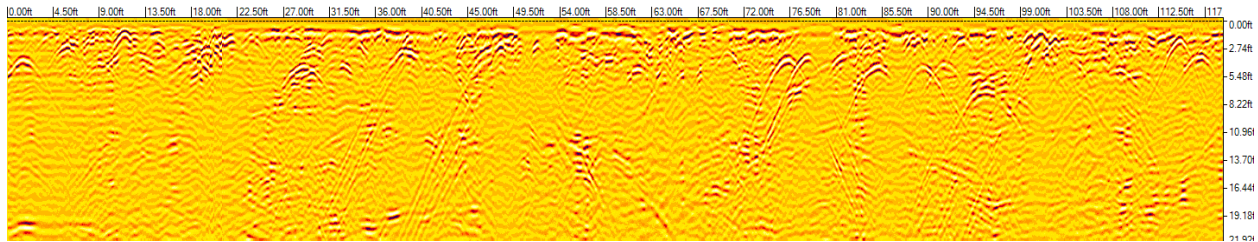
Transect 16 :



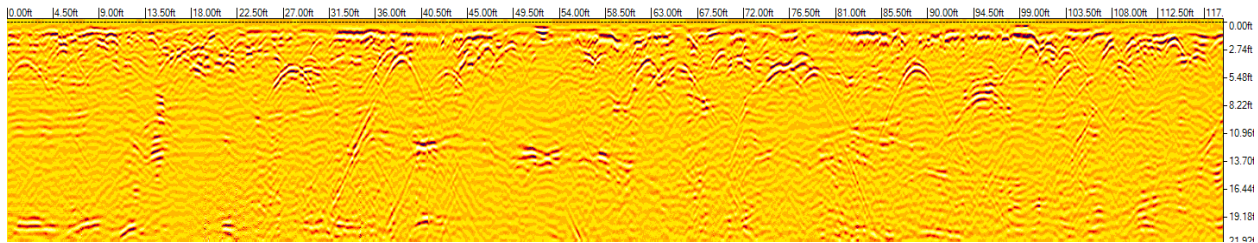
Transect 17 :



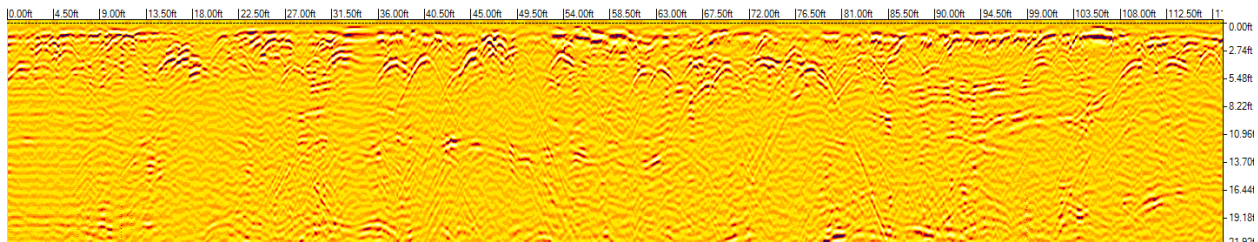
Transect 18 :



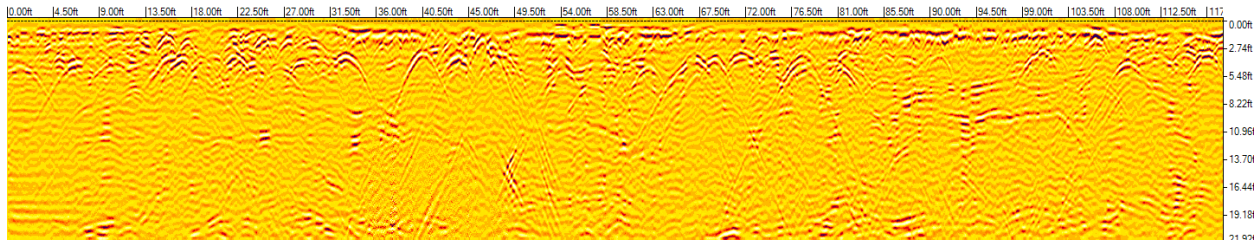
Transect 19 :



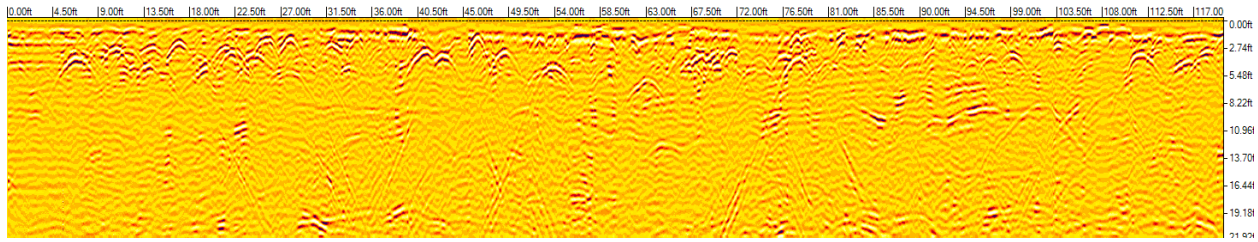
Transect 20 :



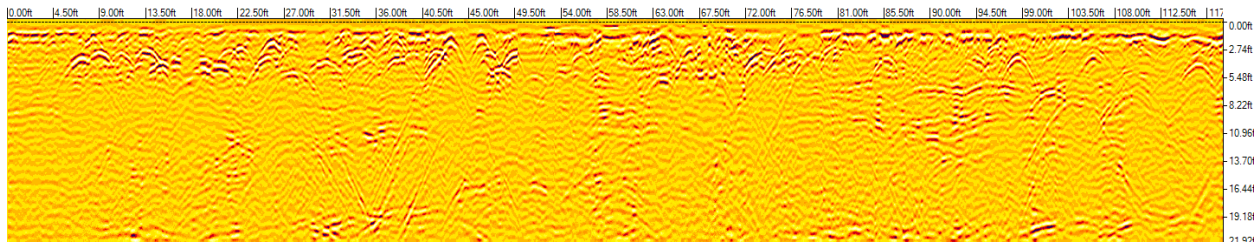
Transect 21 :



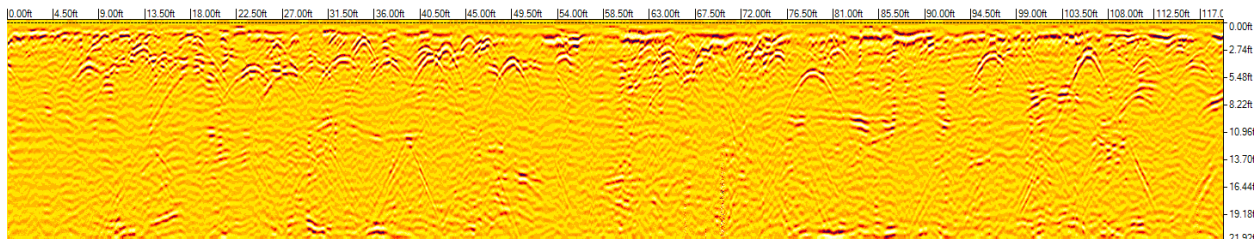
Transect 22 :



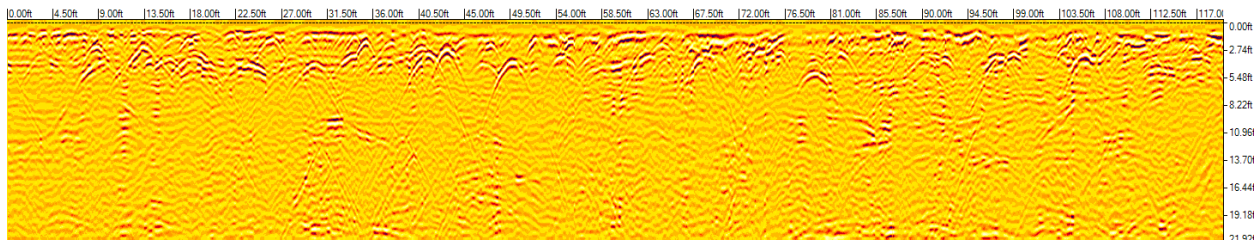
Transect 23 :



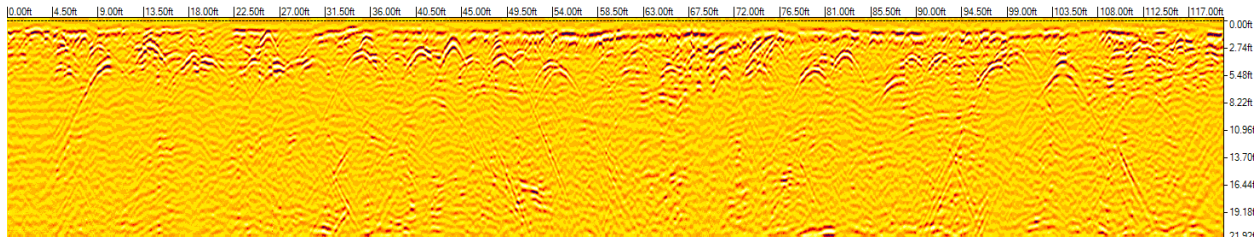
Transect 24 :



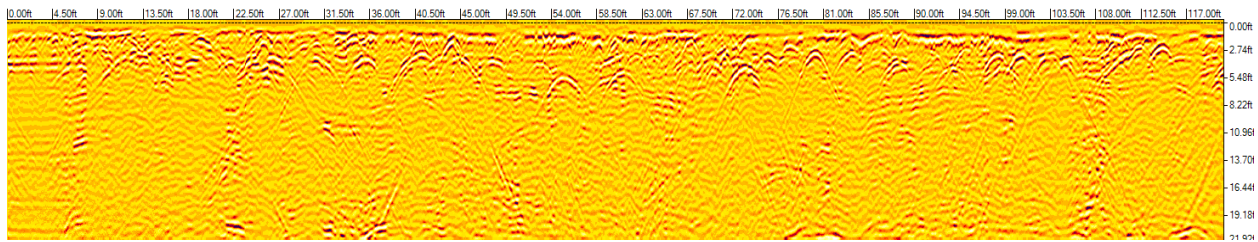
Transect 25 :



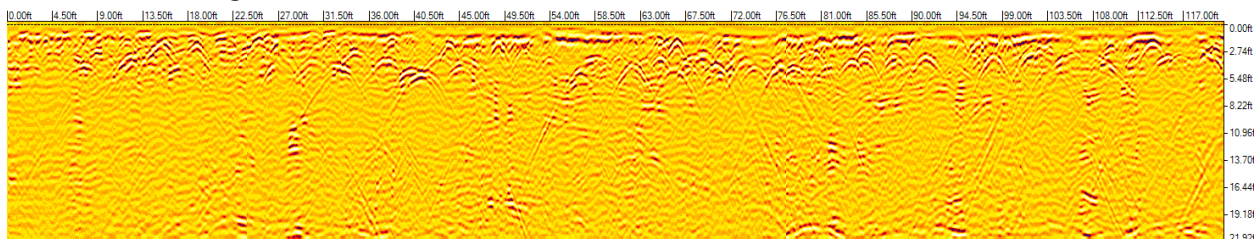
Transect 26 :



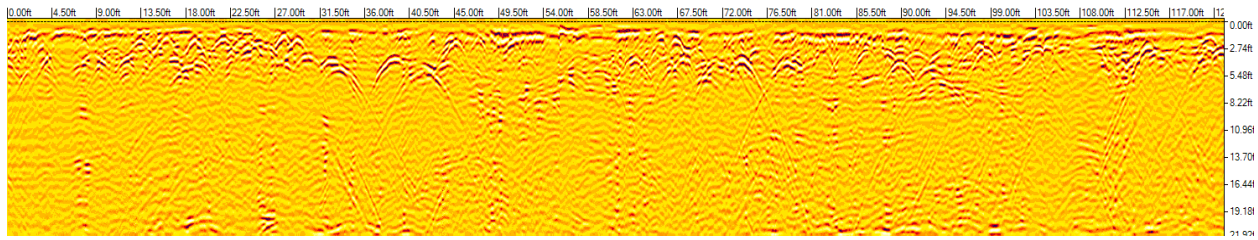
Transect 27 :



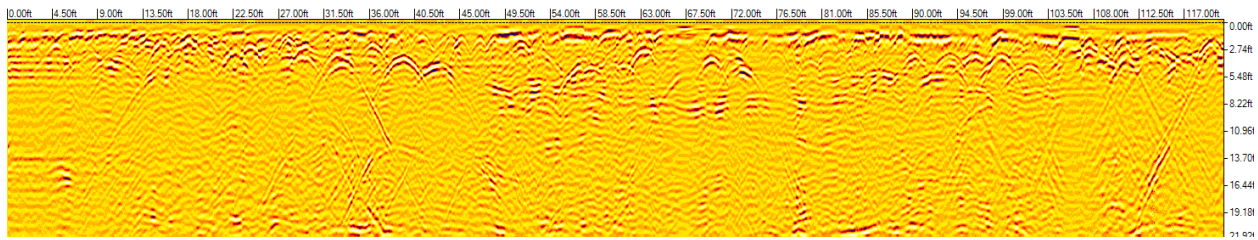
Transect 28 :



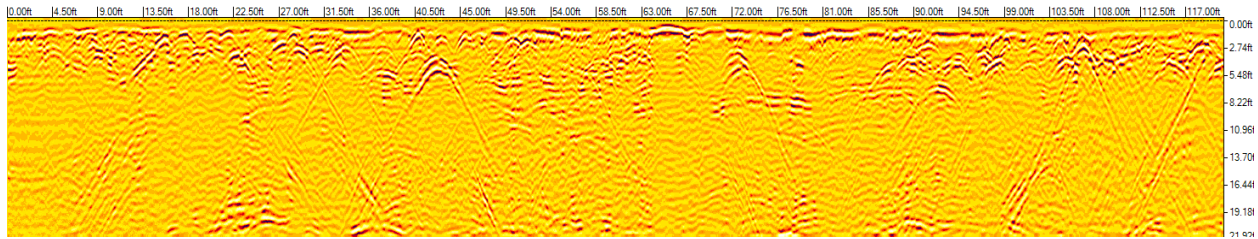
Transect 29 :



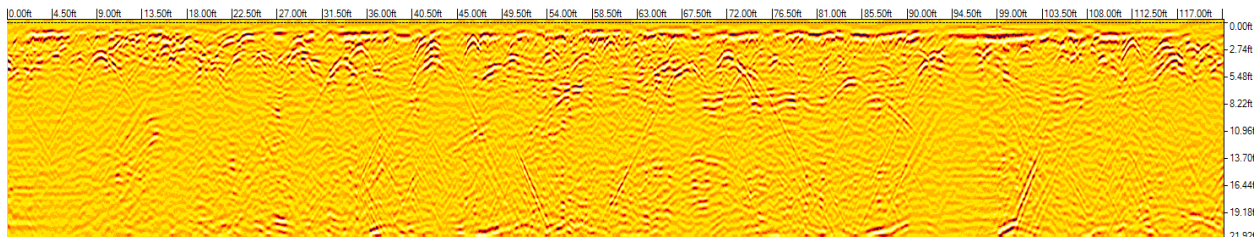
Transect 30 :



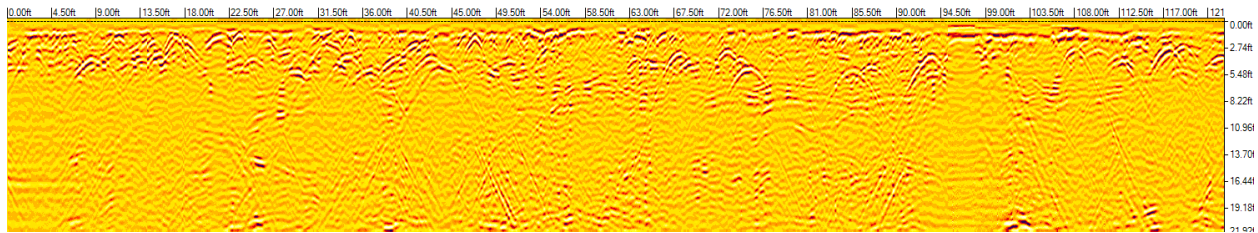
Transect 31 :



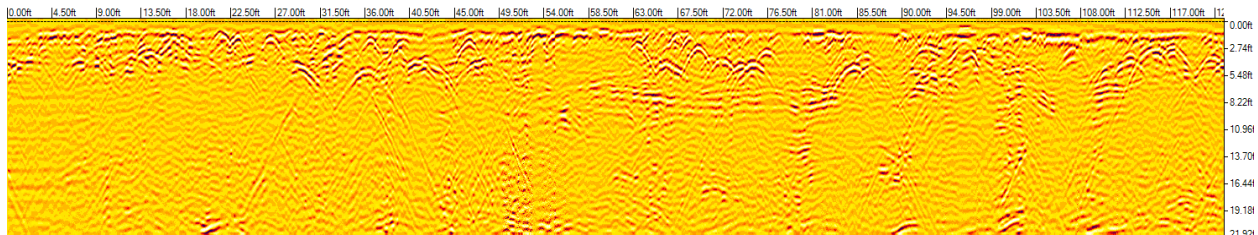
Transect 32 :



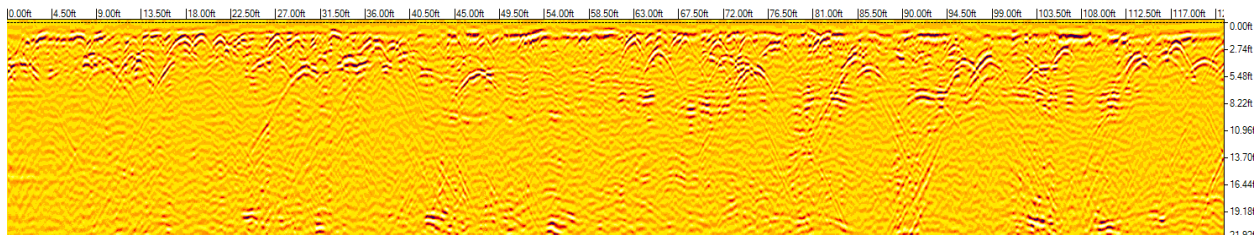
Transect 33 :



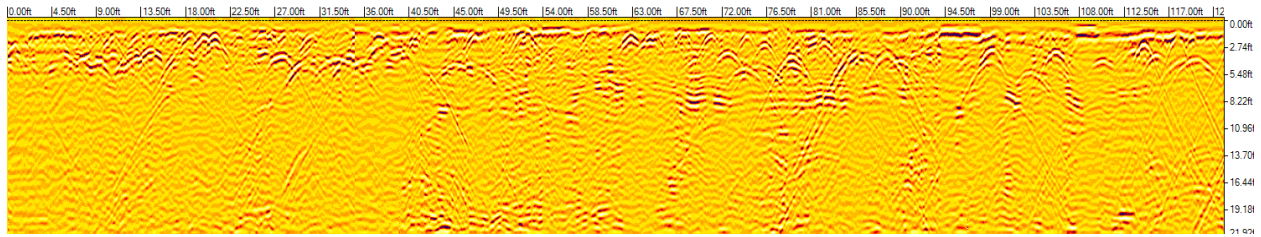
Transect 34 :



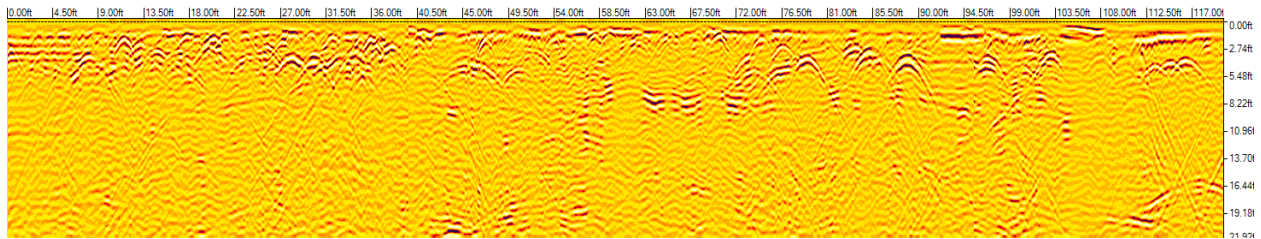
Transect 35 :



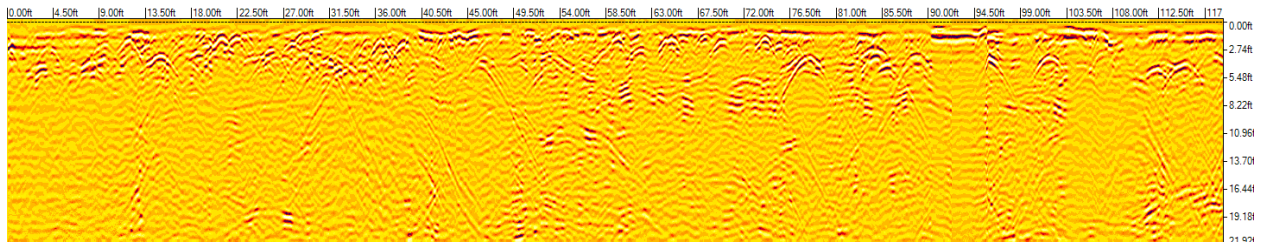
Transect 36 :



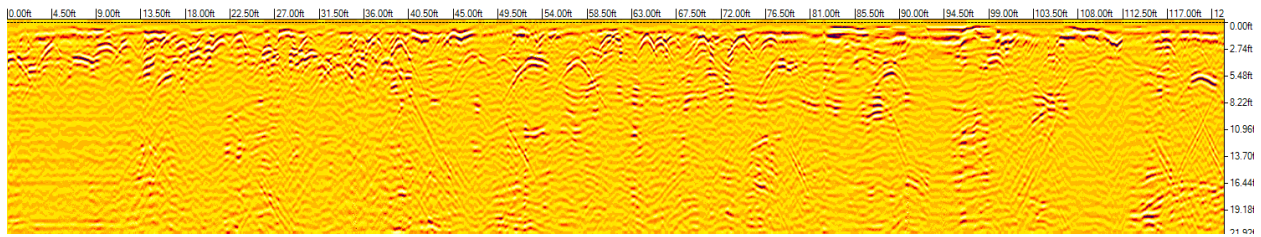
Transect 37 :



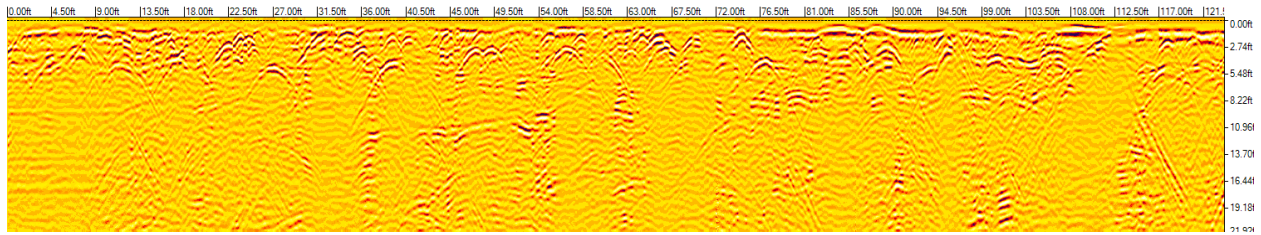
Transect 38 :



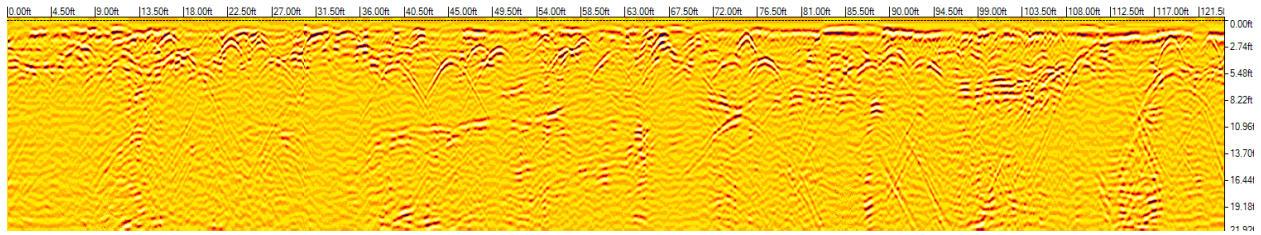
Transect 39 :



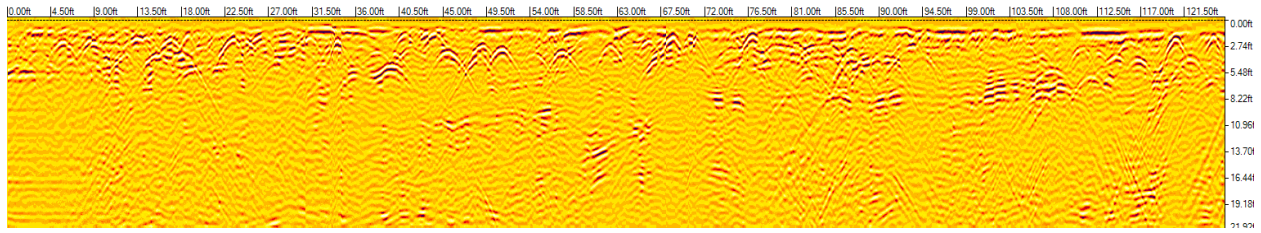
Transect 40 :



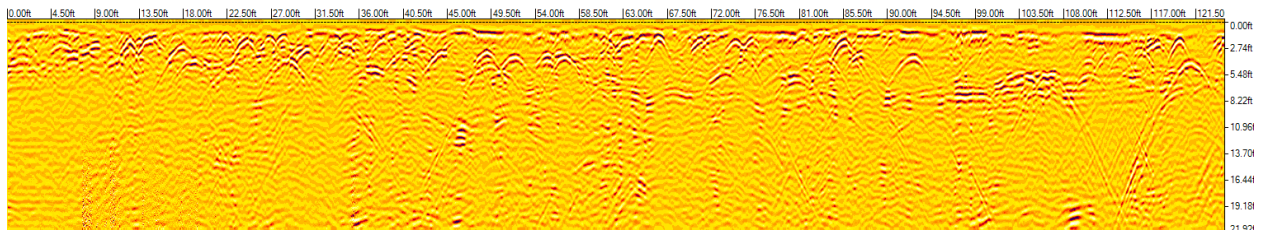
Transect 41 :



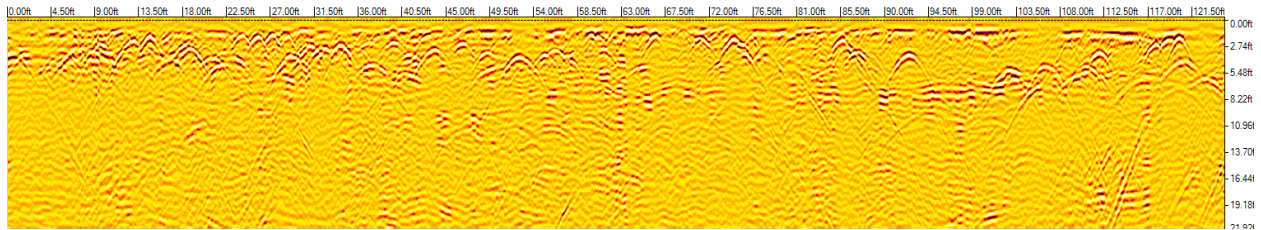
Transect 42 :



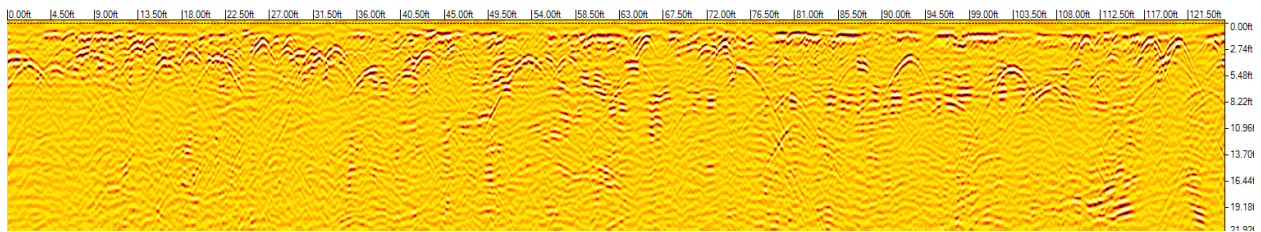
Transect 43 :



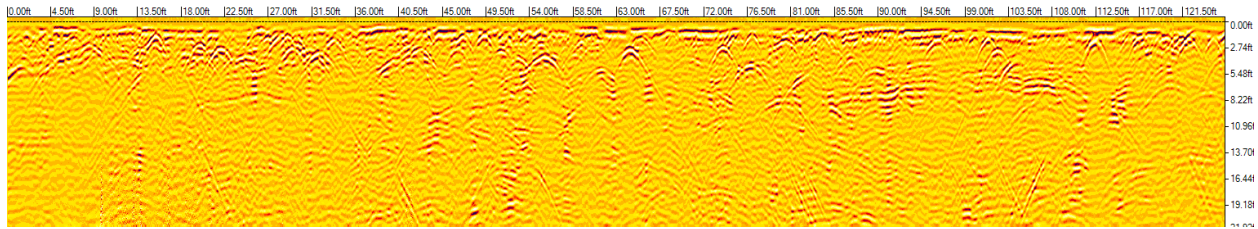
Transect 44 :



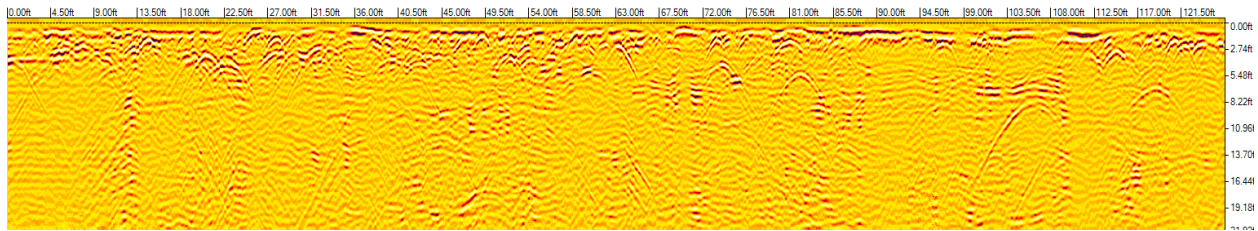
Transect 45 :



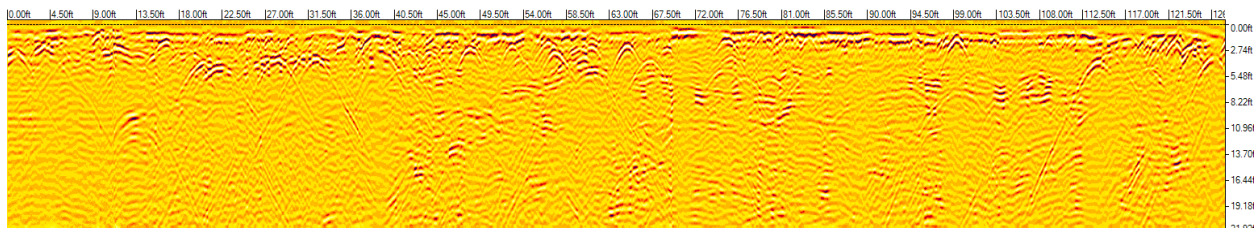
Transect 46 :



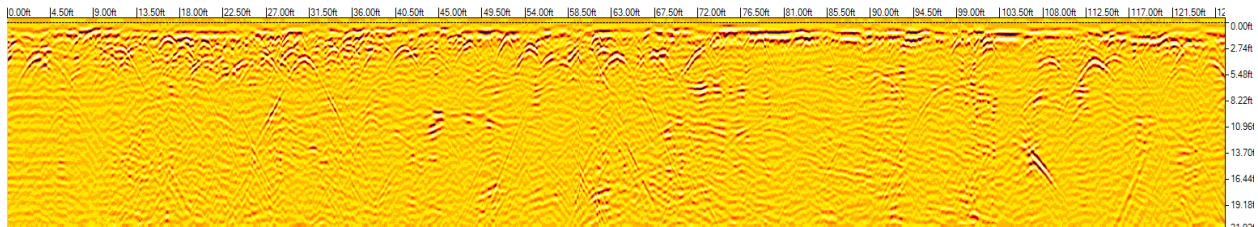
Transect 47 :



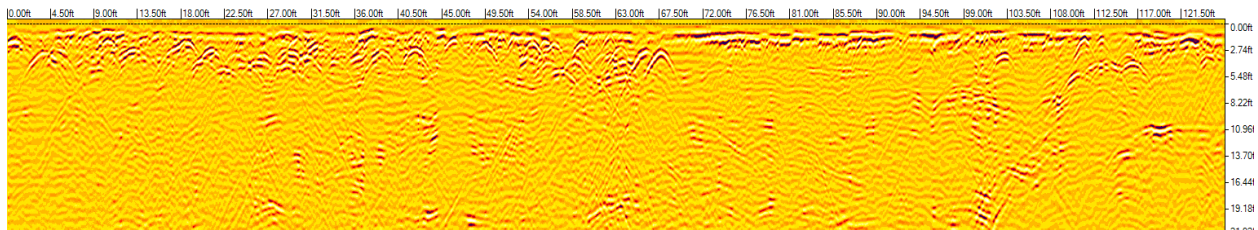
Transect 48 :



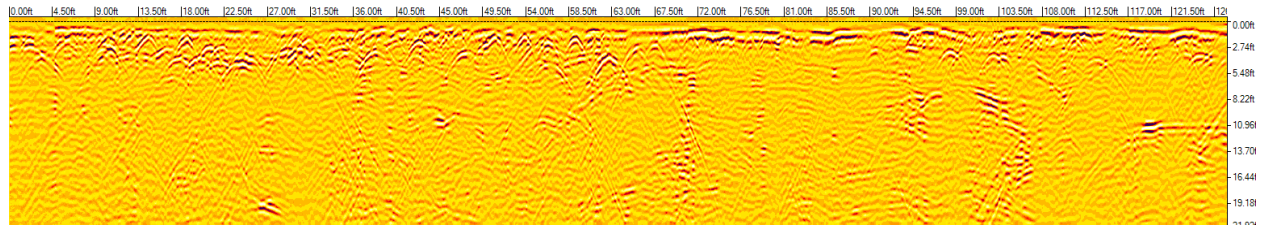
Transect 49 :



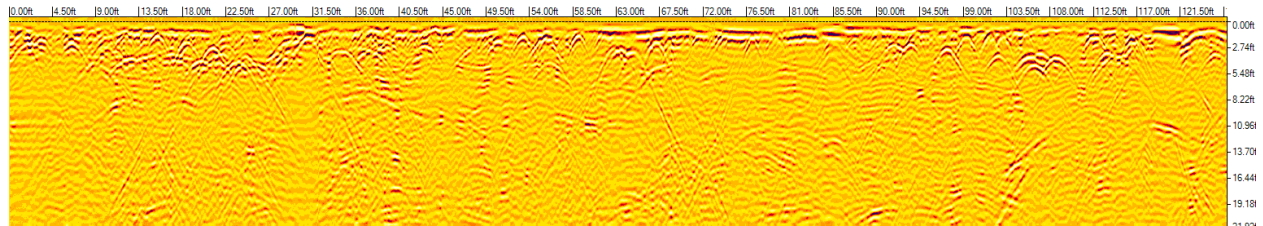
Transect 50 :



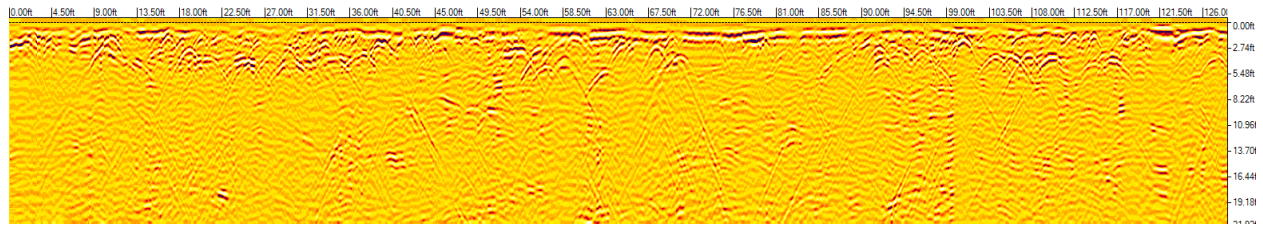
Transect 51 :



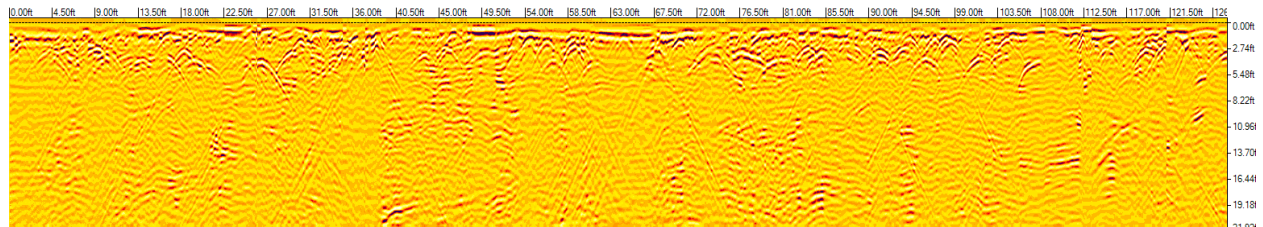
Transect 52 :



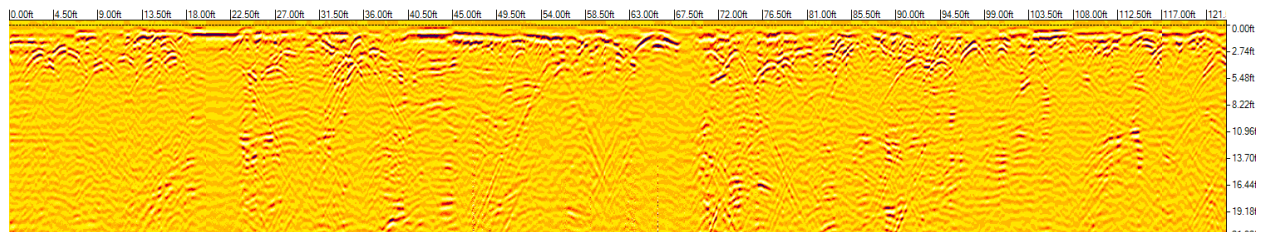
Transect 53 :



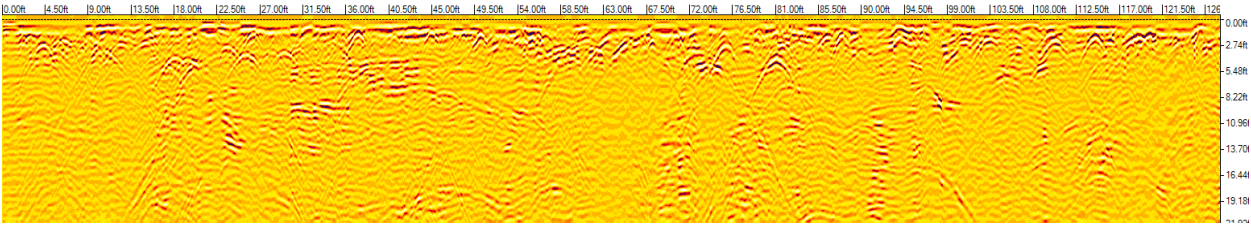
Transect 54 :



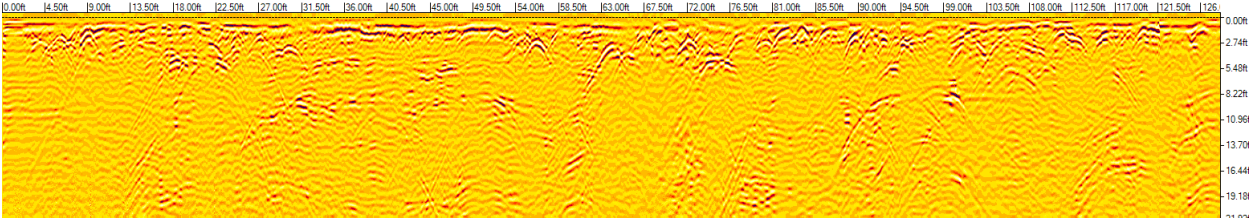
Transect 55 :



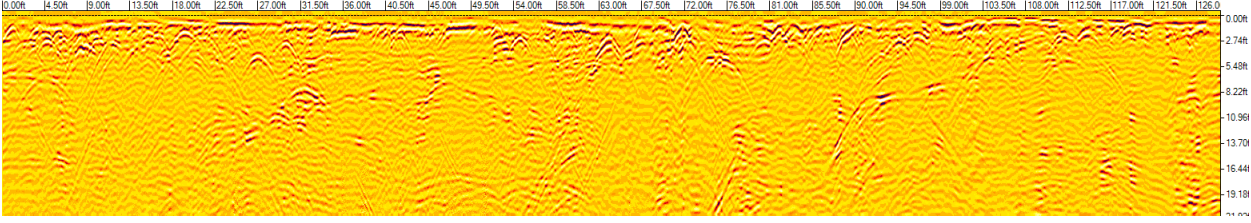
Transect 56 :



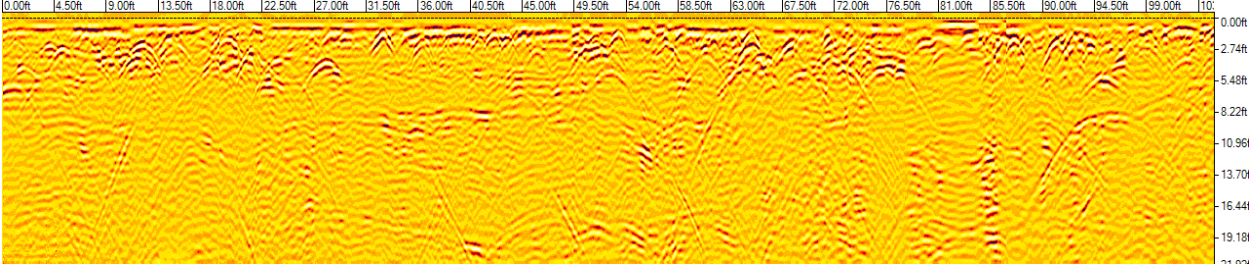
Transect 57 :



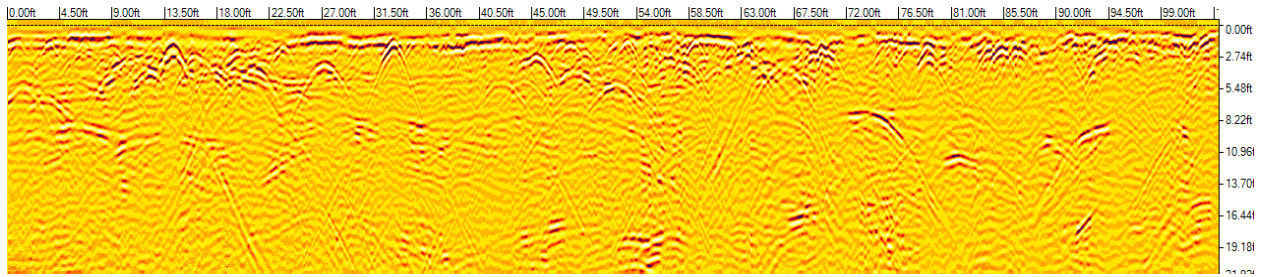
Transect 58 :



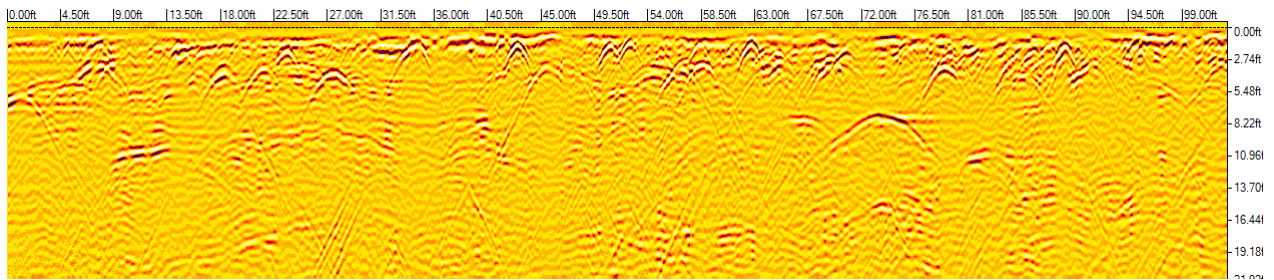
Transect 59 :



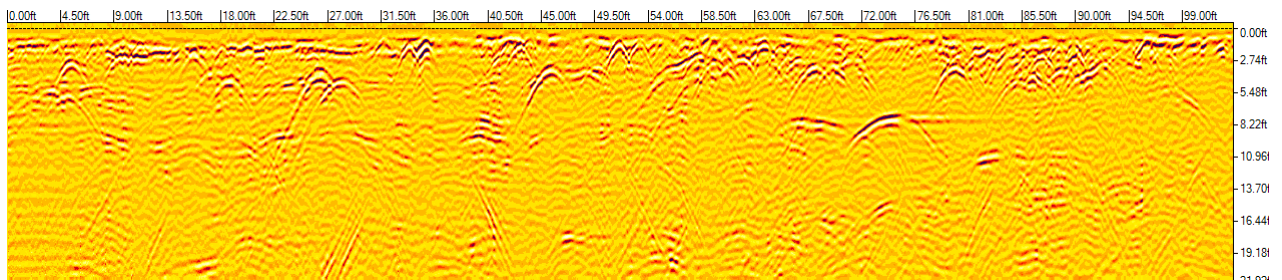
Transect 60 :



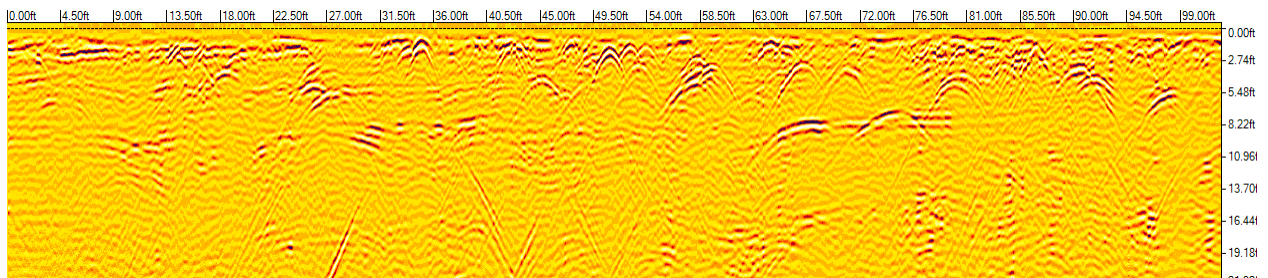
Transect 61 :



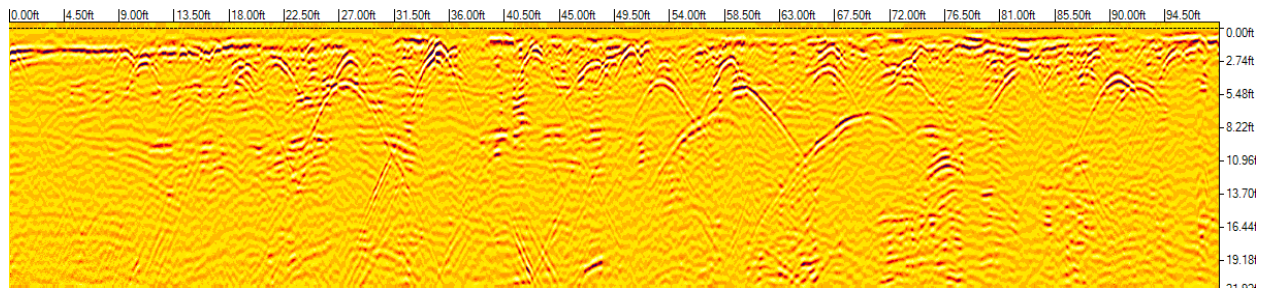
Transect 62 :



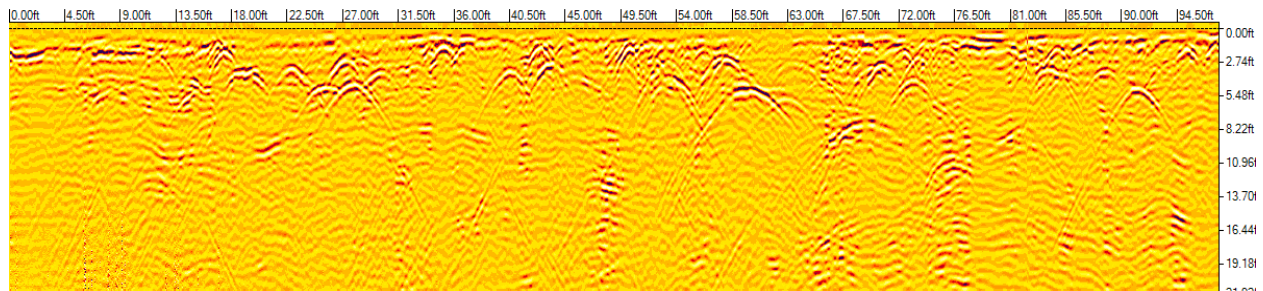
Transect 63 :



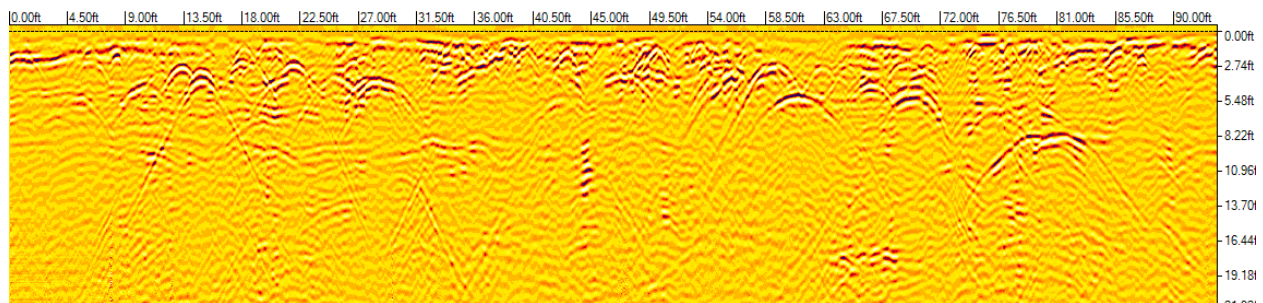
Transect 64 :



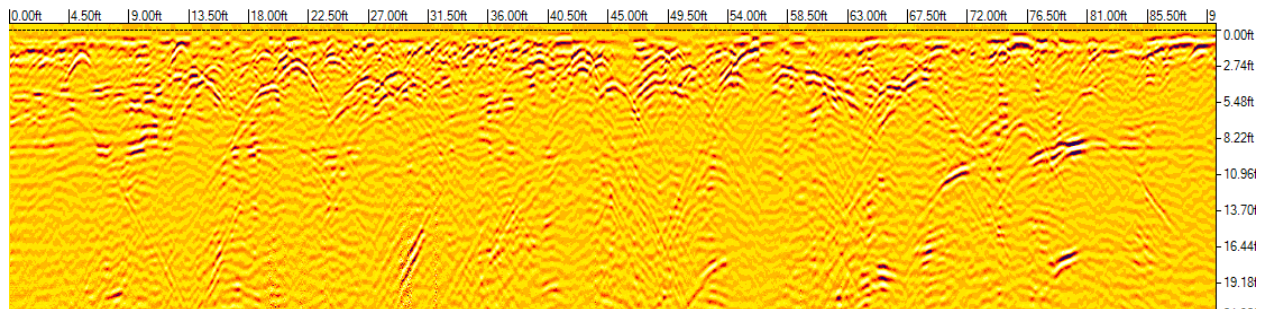
Transect 65 :



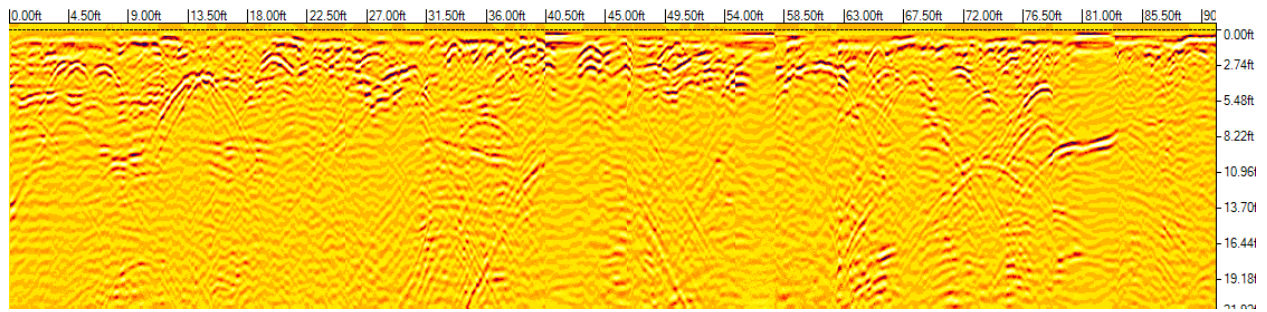
Transect 66 :



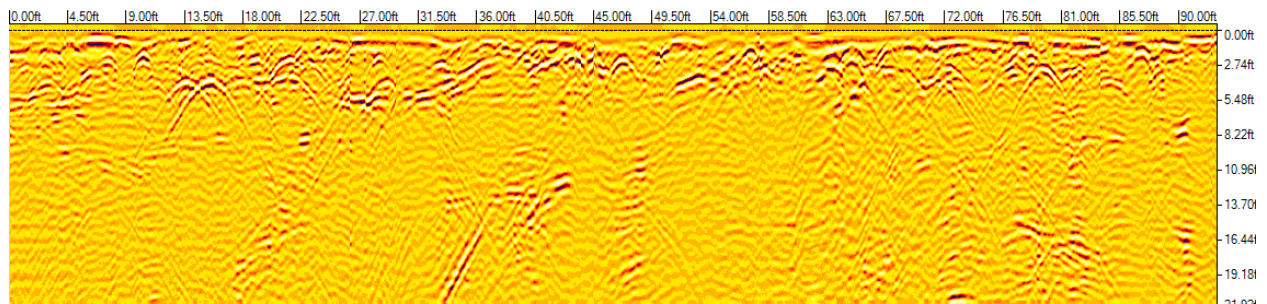
Transect 67 :



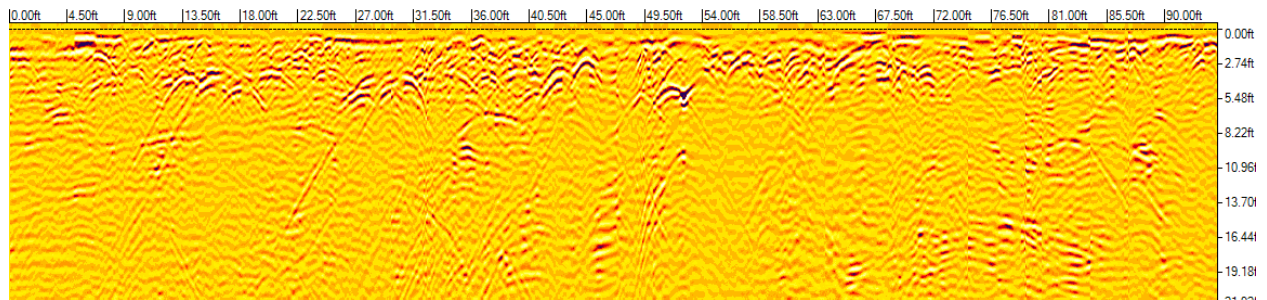
Transect 68 :



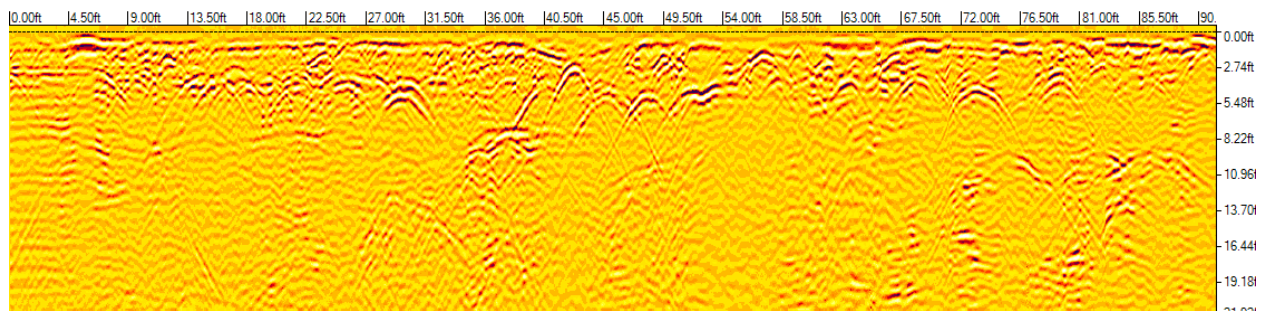
Transect 69 :



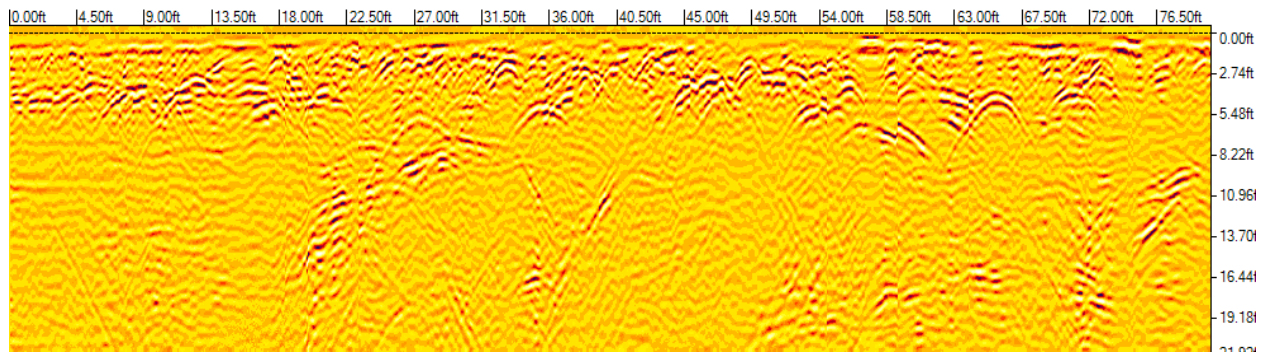
Transect 70 :



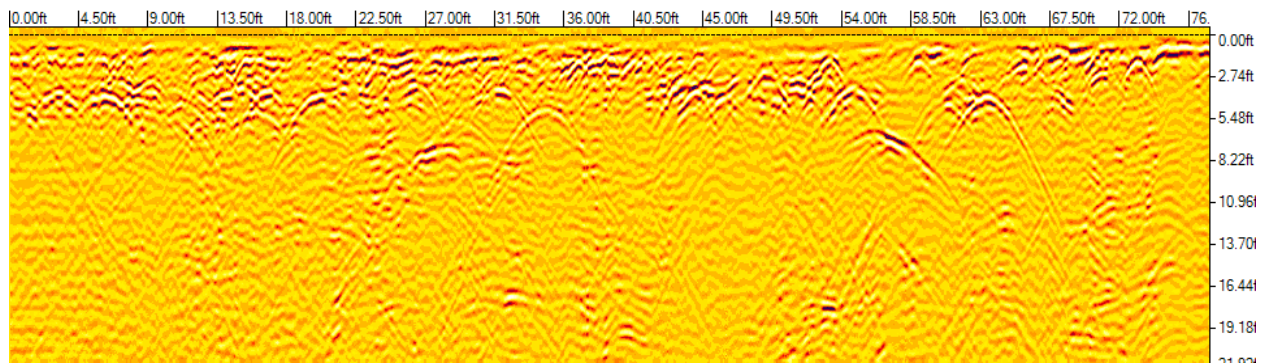
Transect 71 :



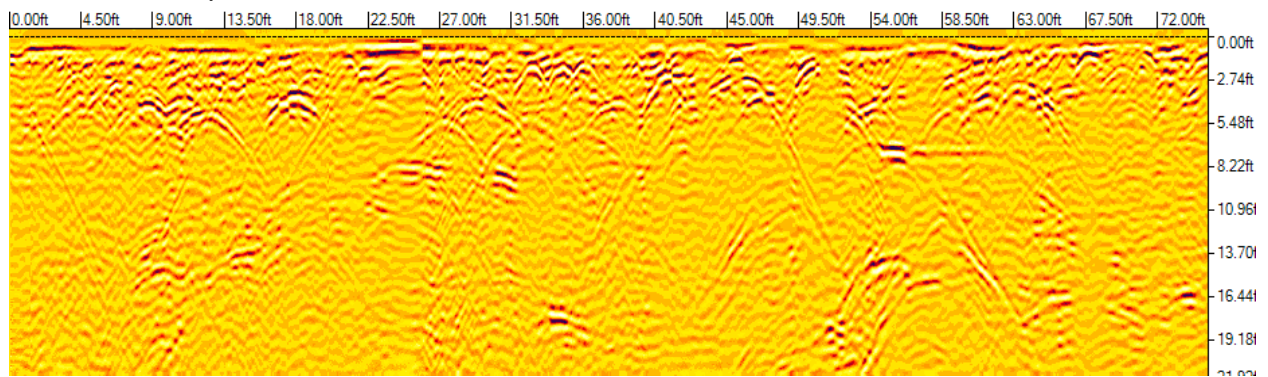
Transect 72 :



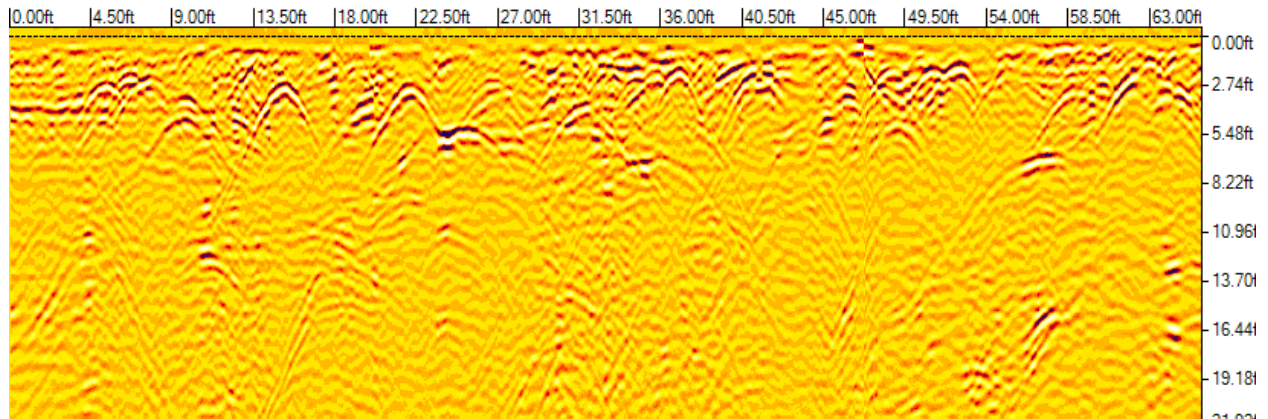
Transect 73 :



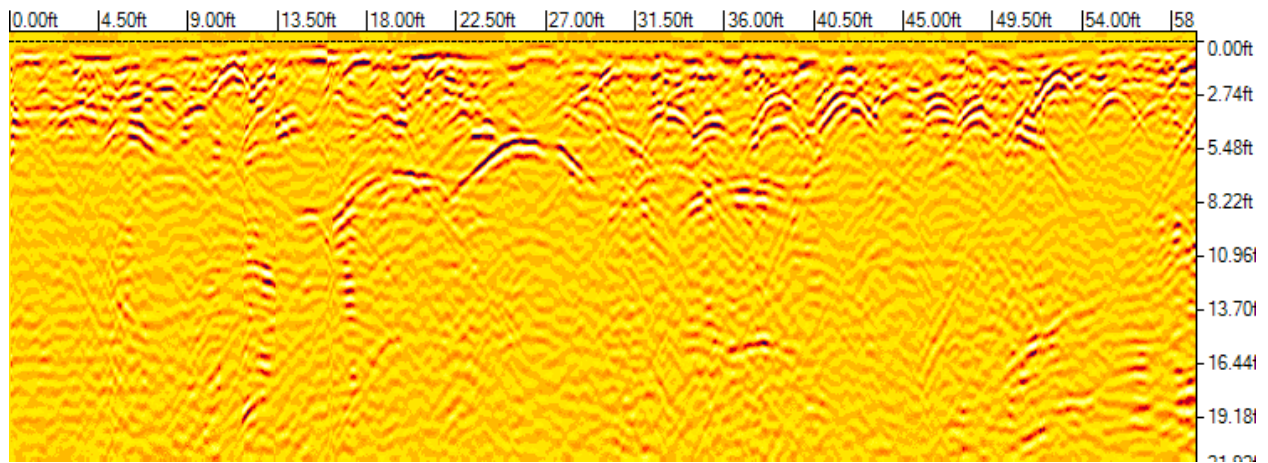
Transect 74 :



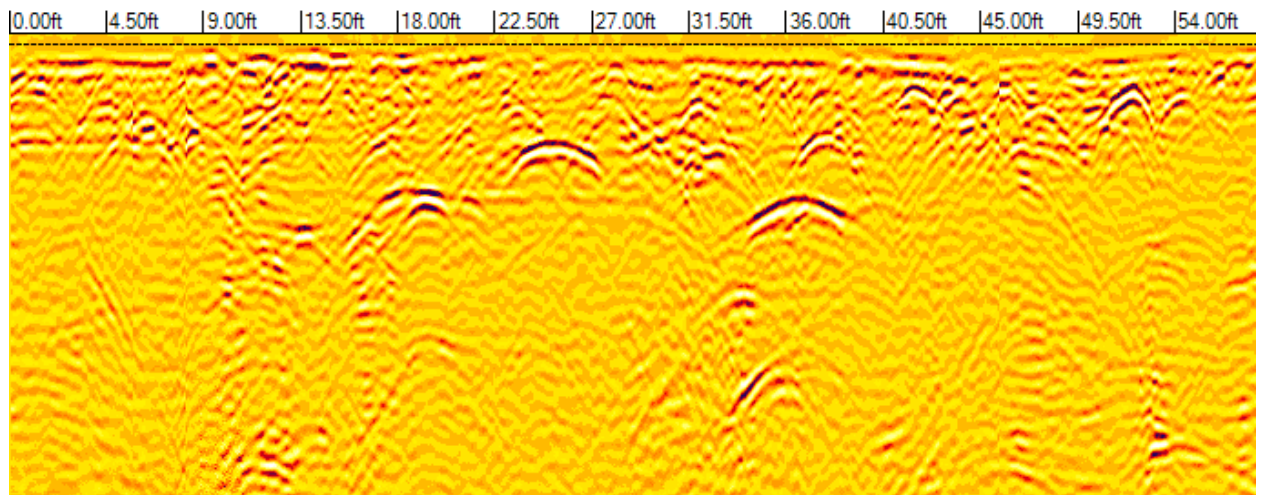
Transect 75 :



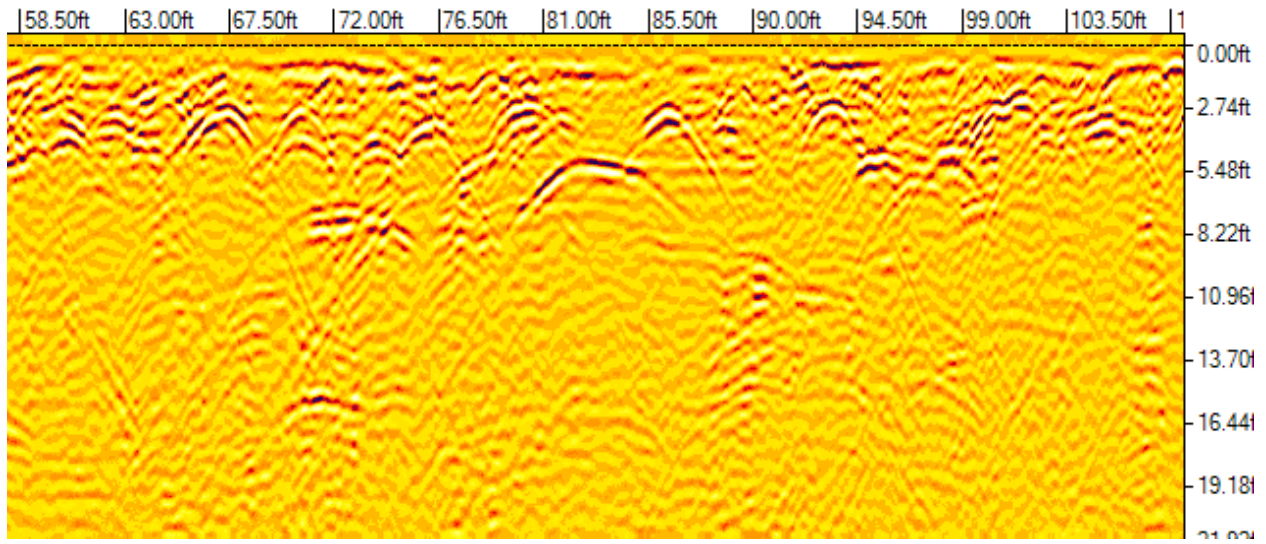
Transect 76 :



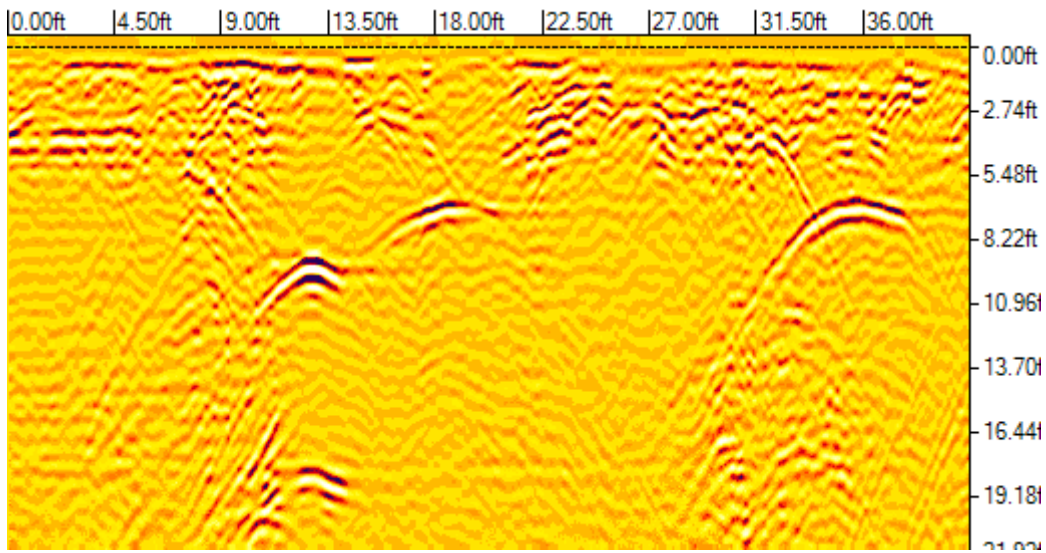
Transect 77 :



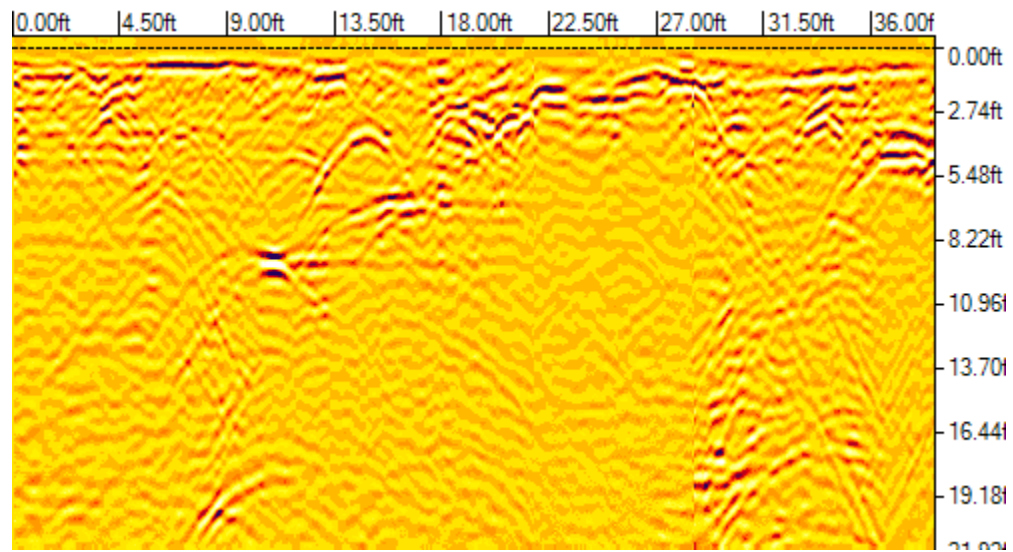
Transect 78 :



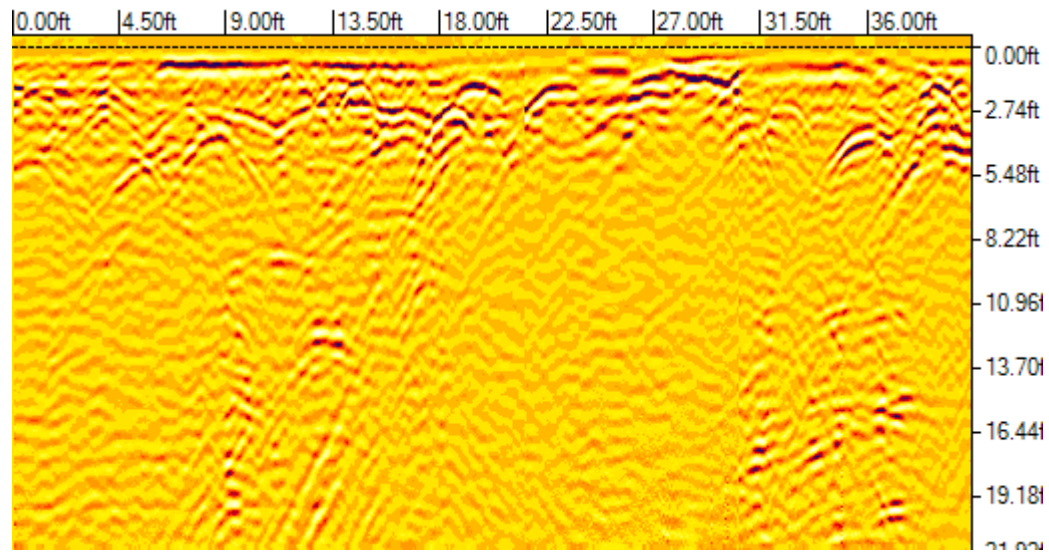
Transect 79 :



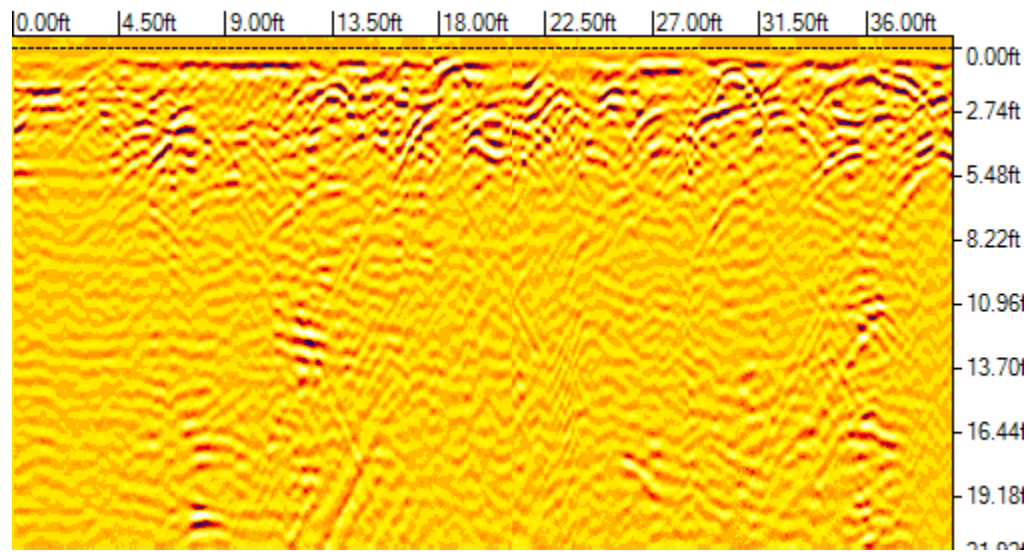
Transect 80 :



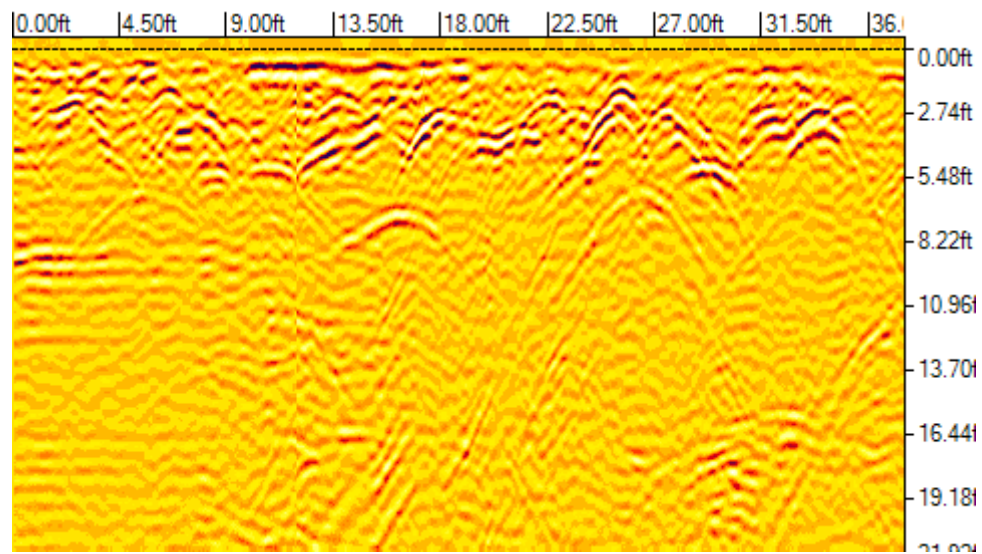
Transect 81 :



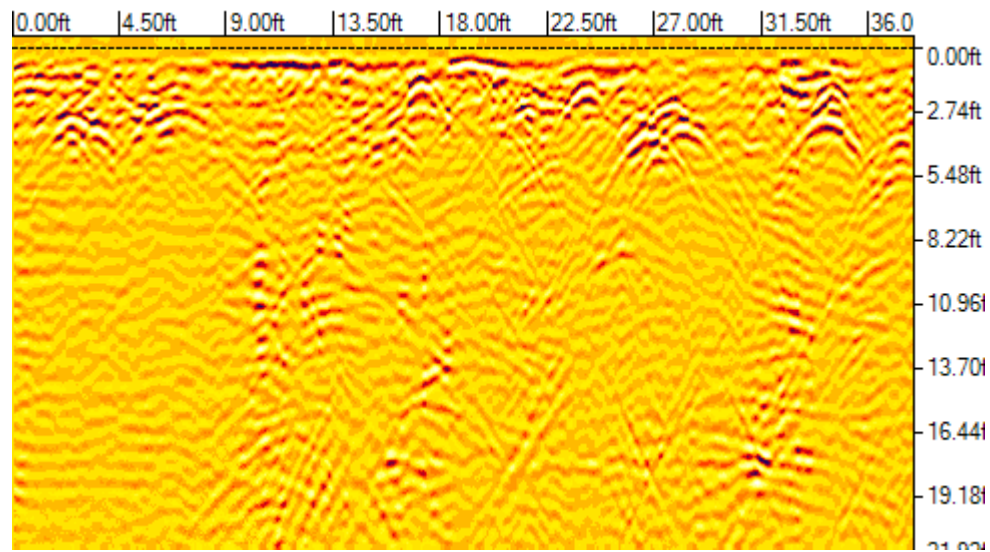
Transect 82 :



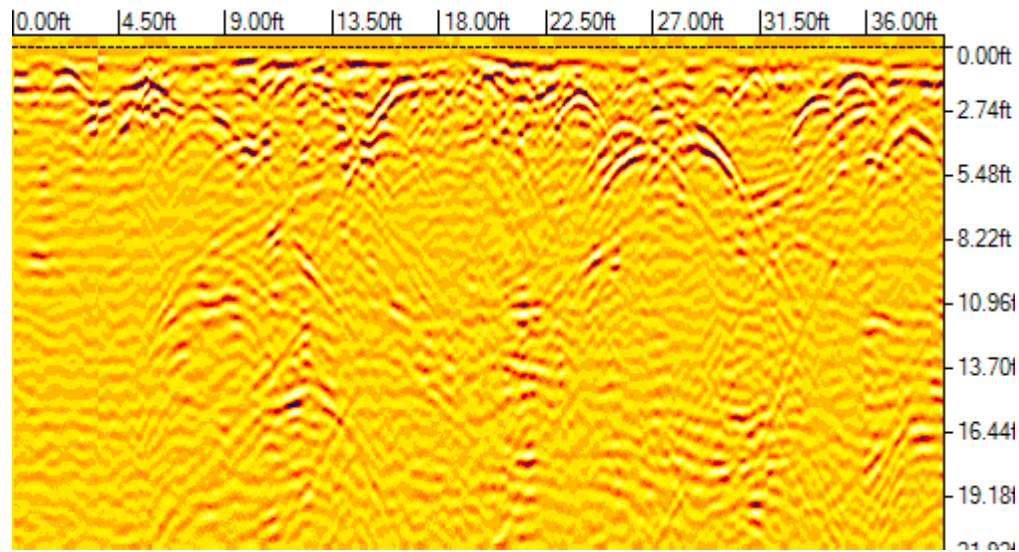
Transect 83 :



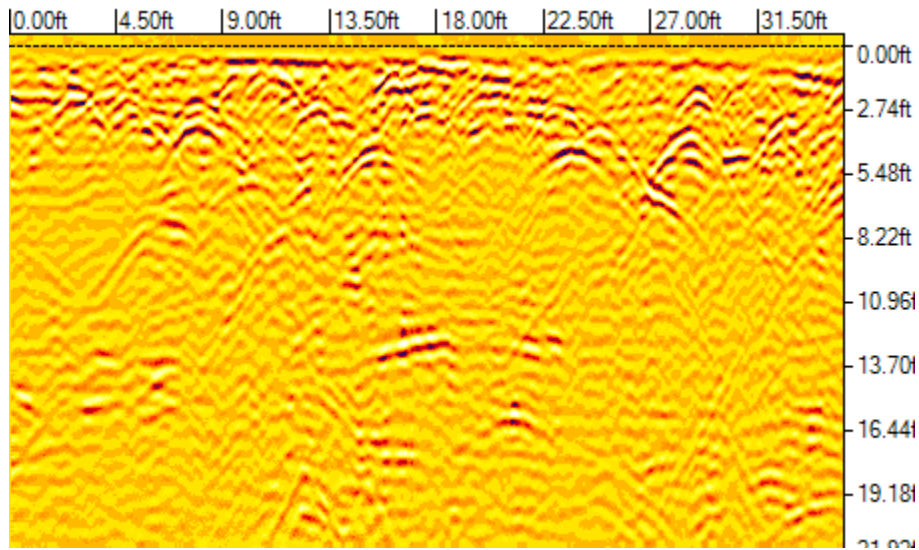
Transect 84 :



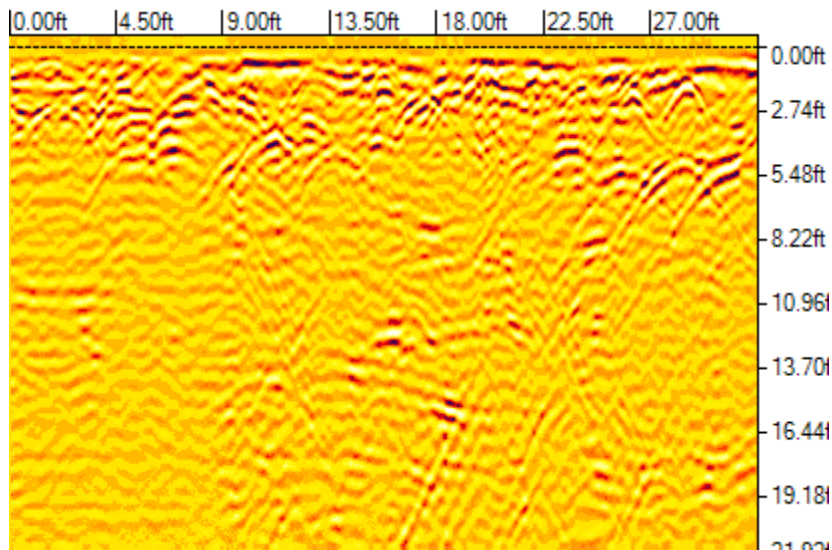
Transect 85 :



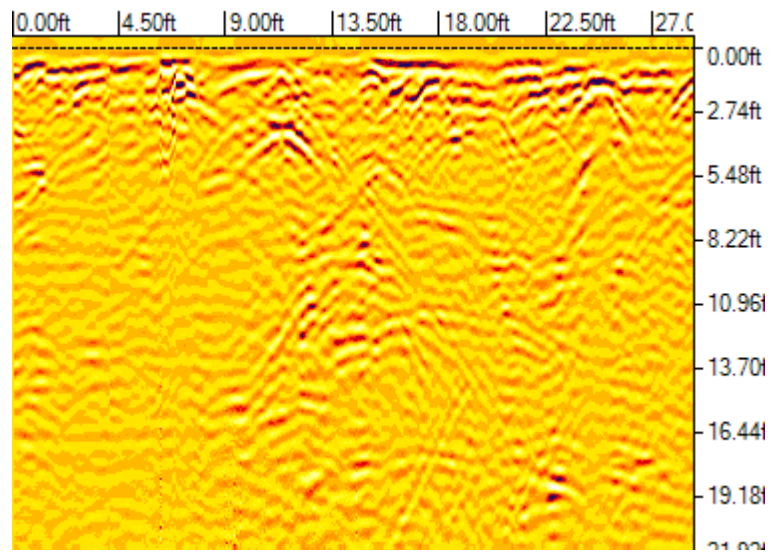
Transect 86 :



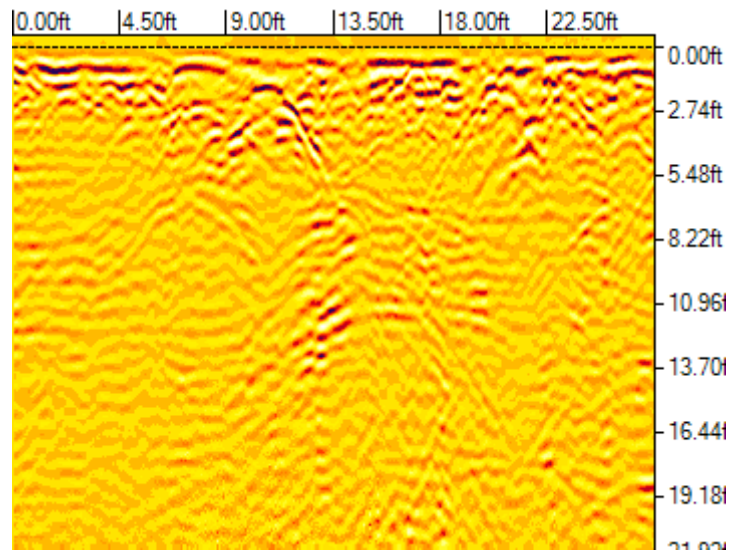
Transect 87 :



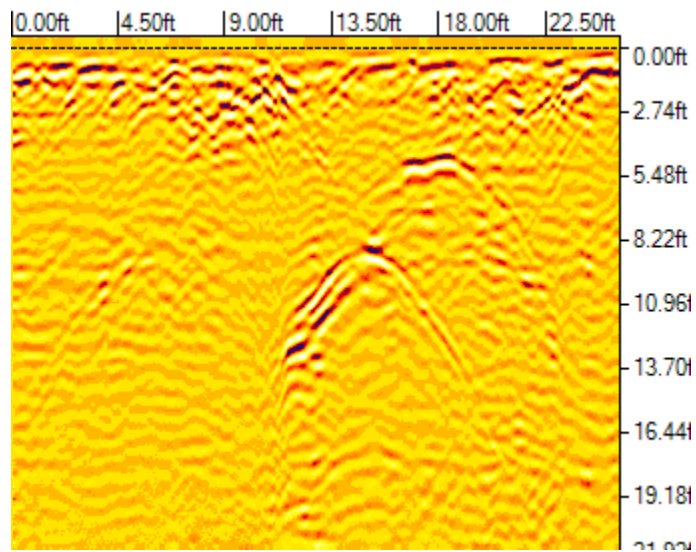
Transect 88 :



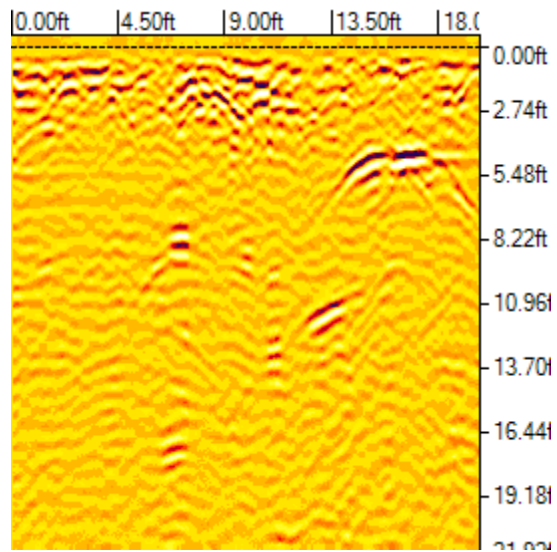
Transect 89 :



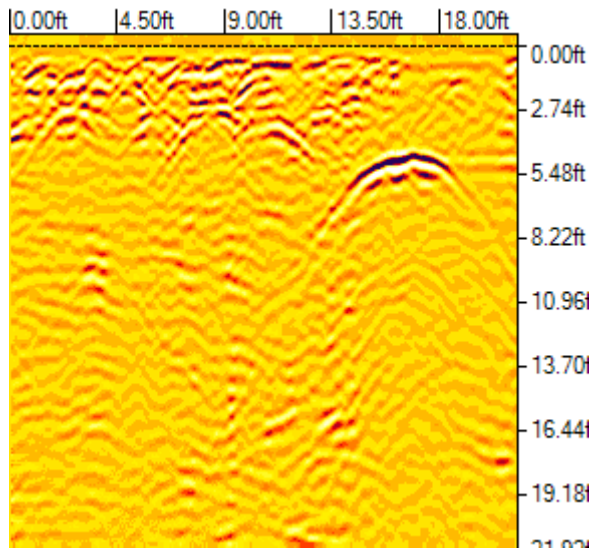
Transect 90 :



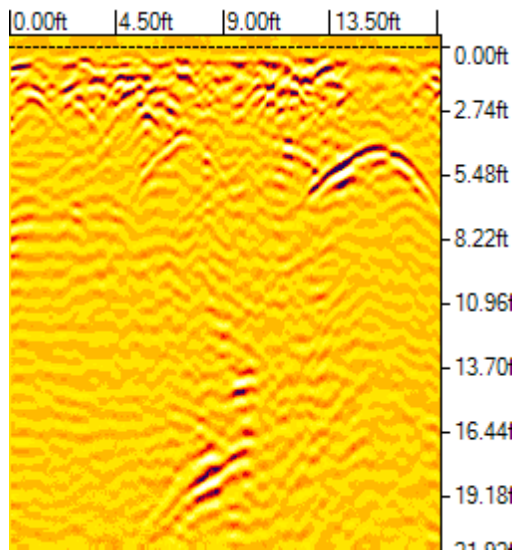
Transect 91 :



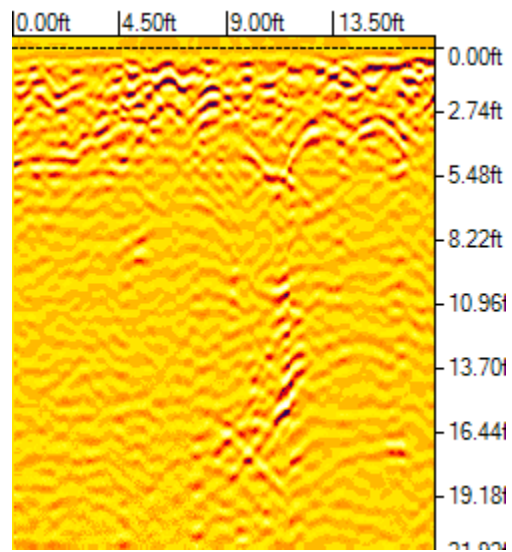
Transect 92 :



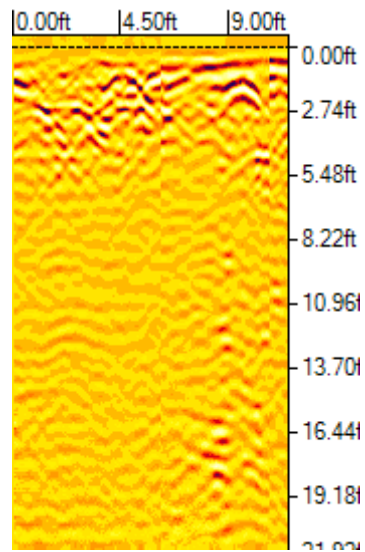
Transect 93 :



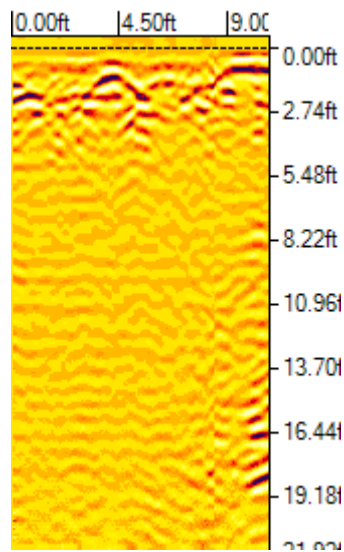
Transect 94 :



Transect 95 :



Transect 96 :



APPENDIX B

GPR Anomalies Spreadsheet

*X and Y coordinates in NAD_1983_StatePlane_New_Jersey_FIPS_2900_Feet

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
1	4.18	2	436593.59	357448.76
1	5.41	5	436592.36	357448.76
1	15.91	3	436581.86	357448.76
1	19.77	4	436578.01	357448.76
1	33.63	2	436564.14	357448.76
1	67.26	6	436530.52	357448.76
1	94.32	9	436503.45	357448.76
2	4.84	6	436592.93	357450.76
2	44.78	5	436552.99	357450.76
2	47.49	6	436550.28	357450.76
2	54.38	4	436543.39	357450.76
2	63.24	5	436534.53	357450.76
2	66.19	5	436531.58	357450.76
2	69.39	5	436528.38	357450.76
2	84.24	5	436513.54	357450.76
2	89.48	10	436508.29	357450.76
2	96.7	12	436501.07	357450.76
3	7.38	5	436590.39	357452.76
3	14.44	3	436583.34	357452.76
3	36.5	6	436561.27	357452.76
3	39.62	6	436558.16	357452.76
3	42.4	5	436555.37	357452.76
3	53.97	4	436543.8	357452.76
3	63.57	4	436534.21	357452.76
3	66.52	6	436531.25	357452.76
3	69.14	5	436528.63	357452.76
3	82.92	5	436514.85	357452.76
3	88.42	9	436509.35	357452.76
4	10.5	4	436587.27	357454.76
4	28.46	5	436569.31	357454.76
4	33.14	3	436564.64	357454.76
4	36.09	2	436561.68	357454.76
4	38.14	5	436559.63	357454.76
4	49.38	4	436548.4	357454.76
4	51.76	4	436546.02	357454.76
4	64.96	4	436532.81	357454.76
4	68.16	5	436529.61	357454.76
4	83.01	5	436514.77	357454.76
4	89.81	8	436507.96	357454.76
4	106.79	8	436490.98	357454.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
5	2.3	4	436595.48	357456.76
5	11.07	4	436586.7	357456.76
5	13.29	4	436584.49	357456.76
5	15.01	3	436582.76	357456.76
5	21.24	3	436576.53	357456.76
5	27.72	4	436570.05	357456.76
5	37.57	4	436560.21	357456.76
5	40.6	6	436557.17	357456.76
5	45.03	4	436552.74	357456.76
5	49.05	4	436548.72	357456.76
5	51.02	4	436546.76	357456.76
5	52.58	6	436545.2	357456.76
5	63.07	4	436534.7	357456.76
5	65.86	4	436531.91	357456.76
5	72.51	5	436525.27	357456.76
5	82.84	4	436514.93	357456.76
5	86.86	13	436510.91	357456.76
5	90.8	8	436506.98	357456.76
5	106.79	6	436490.98	357456.76
6	11.15	4	436586.62	357458.76
6	23.21	5	436574.56	357458.76
6	33.46	11	436564.31	357458.76
6	38.71	3	436559.06	357458.76
6	50.03	4	436547.74	357458.76
6	53.64	3	436544.13	357458.76
6	53.72	6	436544.05	357458.76
6	66.11	4	436531.66	357458.76
6	85.38	7	436512.39	357458.76
6	86.37	3	436511.4	357458.76
6	91.29	3	436506.48	357458.76
6	94	6	436503.78	357458.76
6	113.44	2	436484.34	357458.76
7	20.67	3	436577.1	357460.76
7	37.57	8	436560.21	357460.76
7	40.27	3	436557.5	357460.76
7	43.23	3	436554.55	357460.76
7	46.42	3	436551.35	357460.76
7	53.89	6	436543.88	357460.76
7	56.68	2	436541.1	357460.76
7	60.29	3	436537.49	357460.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
7	64.71	2	436533.06	357460.76
7	69.06	4	436528.71	357460.76
7	72.75	4	436525.02	357460.76
7	94.65	5	436503.12	357460.76
7	99.74	3	436498.04	357460.76
7	110.56	2	436487.21	357460.76
8	10.01	3	436587.77	357462.76
8	37.4	1	436560.37	357462.76
8	41.09	3	436556.68	357462.76
8	43.96	3	436553.81	357462.76
8	47.08	3	436550.69	357462.76
8	49.62	3	436548.15	357462.76
8	51.1	3	436546.67	357462.76
8	57.66	7	436540.11	357462.76
8	60.45	2	436537.32	357462.76
8	69.72	3	436528.05	357462.76
8	73.08	4	436524.69	357462.76
8	78	3	436519.77	357462.76
8	83.66	12	436514.11	357462.76
8	87.27	1	436510.5	357462.76
8	92.36	2	436505.42	357462.76
8	95.64	3	436502.14	357462.76
8	107.94	2	436489.83	357462.76
8	115.08	2	436482.7	357462.76
9	26.33	4	436571.44	357464.76
9	33.63	8	436564.14	357464.76
9	37.32	1	436560.45	357464.76
9	39.21	1	436558.57	357464.76
9	44.54	5	436553.24	357464.76
9	47	5	436550.77	357464.76
9	50.77	4	436547	357464.76
9	57.58	8	436540.19	357464.76
9	59.79	2	436537.98	357464.76
9	65.78	3	436531.99	357464.76
9	69.8	3	436527.97	357464.76
9	73	3	436524.77	357464.76
9	77.02	3	436520.75	357464.76
9	81.53	3	436516.24	357464.76
9	92.77	2	436505.01	357464.76
9	95.47	4	436502.3	357464.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
9	111.96	4	436485.81	357464.76
9	114.34	2	436483.44	357464.76
10	26.66	2	436571.12	357466.76
10	33.38	11	436564.39	357466.76
10	34.61	1	436563.16	357466.76
10	37.57	1	436560.21	357466.76
10	46.75	3	436551.02	357466.76
10	48.56	11	436549.22	357466.76
10	50.61	4	436547.17	357466.76
10	54.46	11	436543.31	357466.76
10	59.06	3	436538.72	357466.76
10	63.98	4	436533.8	357466.76
10	70.21	2	436527.56	357466.76
10	76.94	2	436520.84	357466.76
10	96.13	3	436501.64	357466.76
10	100.97	6	436496.8	357466.76
10	111.79	3	436485.98	357466.76
10	114.01	4	436483.76	357466.76
11	32.97	11	436564.8	357468.76
11	34.45	5	436563.32	357468.76
11	46.83	3	436550.93	357468.76
11	52.82	4	436544.95	357468.76
11	58.15	3	436539.61	357468.76
11	58.48	8	436539.29	357468.76
11	62.34	8	436535.43	357468.76
11	63.57	4	436534.2	357468.76
11	67.34	4	436530.43	357468.76
11	72.1	2	436525.67	357468.76
11	77.26	2	436520.5	357468.76
11	87.76	1	436510.01	357468.76
11	89.73	9	436508.04	357468.76
11	92.19	2	436505.58	357468.76
11	95.39	2	436502.38	357468.76
11	99.41	1	436498.36	357468.76
11	105.89	2	436491.88	357468.76
11	111.22	1	436486.55	357468.76
12	25.67	1	436572.1	357470.76
12	27.56	3	436570.21	357470.76
12	34.61	1	436563.16	357470.76
12	39.78	2	436557.99	357470.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
12	46.92	2	436550.86	357470.76
12	54.63	4	436543.15	357470.76
12	57.58	2	436540.19	357470.76
12	60.94	5	436536.83	357470.76
12	68.16	11	436529.61	357470.76
12	81.77	11	436516	357470.76
12	93.83	1	436503.94	357470.76
12	98.1	3	436499.68	357470.76
13	52.25	4	436545.53	357472.76
13	55.12	3	436542.65	357472.76
13	59.47	3	436538.31	357472.76
13	62.34	4	436535.44	357472.76
13	64.96	5	436532.81	357472.76
13	68.16	1	436529.61	357472.76
13	76.12	1	436521.66	357472.76
13	91.29	1	436506.48	357472.76
13	94.24	2	436503.53	357472.76
13	98.51	2	436499.27	357472.76
13	105.48	2	436492.29	357472.76
13	111.38	1	436486.39	357472.76
13	115.9	1	436481.88	357472.76
14	17.06	3	436580.71	357474.76
14	40.76	2	436557.01	357474.76
14	43.64	2	436554.14	357474.76
14	46.75	2	436551.02	357474.76
14	55.36	4	436542.41	357474.76
14	58.56	3	436539.21	357474.76
14	69.39	4	436528.38	357474.76
14	74.64	2	436523.13	357474.76
14	77.26	4	436520.51	357474.76
14	83.5	4	436514.28	357474.76
14	91.7	1	436506.07	357474.76
14	95.39	2	436502.38	357474.76
14	99.57	1	436498.2	357474.76
14	107.2	9	436490.57	357474.76
14	110.07	1	436487.7	357474.76
14	116.06	1	436481.71	357474.76
15	8.94	8	436588.83	357476.76
15	18.78	3	436578.99	357476.76
15	26.9	8	436570.87	357476.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
15	40.76	3	436557.01	357476.76
15	44.78	4	436552.99	357476.76
15	53.23	3	436544.54	357476.76
15	58.89	3	436538.88	357476.76
15	62.91	2	436534.86	357476.76
15	65.62	13	436532.16	357476.76
15	69.72	3	436528.05	357476.76
15	74.39	2	436523.38	357476.76
15	82.19	9	436515.59	357476.76
15	84.65	3	436513.13	357476.76
15	92.19	1	436505.58	357476.76
15	94	10	436503.78	357476.76
15	96.78	2	436500.99	357476.76
15	109.25	1	436488.52	357476.76
15	115.81	1	436481.96	357476.76
16	28.3	2	436569.48	357478.76
16	31	3	436566.77	357478.76
16	40.68	1	436557.09	357478.76
16	45.93	2	436551.84	357478.76
16	49.38	1	436548.4	357478.76
16	55.28	1	436542.49	357478.76
16	64.88	2	436532.89	357478.76
16	74.56	3	436523.22	357478.76
16	76.36	2	436521.41	357478.76
16	78.33	3	436519.44	357478.76
16	88.75	3	436509.03	357478.76
16	99.25	1	436498.53	357478.76
16	111.71	2	436486.06	357478.76
17	14.44	1	436583.34	357480.76
17	28.79	2	436568.98	357480.76
17	31.74	3	436566.03	357480.76
17	36.75	2	436561.03	357480.76
17	40.93	4	436556.84	357480.76
17	45.6	2	436552.17	357480.76
17	64.3	2	436533.47	357480.76
17	73.82	3	436523.95	357480.76
17	75.79	2	436521.99	357480.76
17	78.08	3	436519.69	357480.76
17	82.68	3	436515.1	357480.76
17	87.68	5	436510.09	357480.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
17	98.59	1	436499.18	357480.76
17	114.67	1	436483.11	357480.76
18	19.27	2	436578.5	357482.76
18	28.95	4	436568.82	357482.76
18	38.8	2	436558.98	357482.76
18	76.28	3	436521.49	357482.76
18	77.02	7	436520.75	357482.76
18	78.41	3	436519.36	357482.76
18	81.86	3	436515.92	357482.76
18	85.06	4	436512.72	357482.76
18	89.4	4	436508.37	357482.76
18	91.62	4	436506.16	357482.76
18	95.88	5	436501.89	357482.76
18	109.17	4	436488.6	357482.76
18	114.5	1	436483.27	357482.76
18	116.47	3	436481.3	357482.76
19	14.85	6	436582.93	357484.76
19	18.54	2	436579.24	357484.76
19	27.72	4	436570.05	357484.76
19	37.48	2	436560.29	357484.76
19	38.63	3	436559.14	357484.76
19	40.6	11	436557.17	357484.76
19	42.98	4	436554.79	357484.76
19	52.49	12	436545.28	357484.76
19	62.58	3	436535.19	357484.76
19	65.21	3	436532.57	357484.76
19	69.55	2	436528.22	357484.76
19	74.48	4	436523.3	357484.76
19	77.26	3	436520.51	357484.76
19	78.41	4	436519.36	357484.76
19	87.76	4	436510.01	357484.76
19	94.65	6	436503.12	357484.76
19	98.67	1	436499.1	357484.76
19	112.45	1	436485.32	357484.76
20	16.81	2	436580.96	357486.76
20	32.07	2	436565.7	357486.76
20	36.91	3	436560.86	357486.76
20	39.94	2	436557.83	357486.76
20	44.37	2	436553.4	357486.76
20	46.34	1	436551.43	357486.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
20	52.82	3	436544.95	357486.76
20	60.94	4	436536.83	357486.76
20	65.94	3	436531.83	357486.76
20	68.49	4	436529.29	357486.76
20	71.77	3	436526	357486.76
20	76.44	4	436521.33	357486.76
20	103.59	1	436494.18	357486.76
20	107.12	3	436490.65	357486.76
20	110.56	3	436487.21	357486.76
21	6.56	4	436591.21	357488.76
21	15.42	1	436582.35	357488.76
21	17.39	2	436580.38	357488.76
21	21.9	3	436575.87	357488.76
21	28.54	3	436569.23	357488.76
21	32.48	3	436565.29	357488.76
21	39.86	3	436557.91	357488.76
21	43.31	2	436554.47	357488.76
21	52.74	3	436545.03	357488.76
21	60.61	3	436537.16	357488.76
21	65.37	3	436532.4	357488.76
21	67.67	3	436530.11	357488.76
21	69.96	3	436527.81	357488.76
21	73.41	3	436524.36	357488.76
21	76.03	3	436521.74	357488.76
21	87.02	7	436510.75	357488.76
21	98.59	3	436499.18	357488.76
21	103.84	1	436493.93	357488.76
21	106.38	3	436491.39	357488.76
21	114.34	3	436483.44	357488.76
22	7.05	2	436590.72	357490.76
22	10.5	2	436587.27	357490.76
22	13.94	2	436583.83	357490.76
22	16.57	1	436581.2	357490.76
22	18.86	4	436578.91	357490.76
22	21.33	2	436576.45	357490.76
22	23.7	3	436574.07	357490.76
22	25.1	1	436572.67	357490.76
22	27.31	1	436570.46	357490.76
22	40.19	2	436557.58	357490.76
22	42.08	3	436555.7	357490.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
22	45.44	1	436552.33	357490.76
22	47.82	2	436549.95	357490.76
22	52.82	4	436544.95	357490.76
22	58.23	4	436539.54	357490.76
22	61.6	5	436536.17	357490.76
22	67.42	3	436530.35	357490.76
22	74.97	3	436522.81	357490.76
22	92.85	8	436504.92	357490.76
22	96.62	3	436501.15	357490.76
22	109.17	3	436488.6	357490.76
22	115.57	2	436482.2	357490.76
23	7.14	3	436590.64	357492.76
23	8.86	2	436588.91	357492.76
23	11.07	2	436586.7	357492.76
23	13.53	2	436584.24	357492.76
23	15.01	4	436582.76	357492.76
23	20.18	4	436577.6	357492.76
23	25.84	1	436571.94	357492.76
23	27.89	5	436569.89	357492.76
23	31.25	4	436566.52	357492.76
23	34.28	2	436563.49	357492.76
23	38.3	3	436559.47	357492.76
23	43.23	1	436554.55	357492.76
23	47.82	4	436549.95	357492.76
23	50.28	2	436547.49	357492.76
23	62.83	1	436534.94	357492.76
23	72.34	2	436525.43	357492.76
23	91.78	6	436505.99	357492.76
23	97.11	3	436500.66	357492.76
23	100.39	6	436497.38	357492.76
23	104.58	2	436493.2	357492.76
23	114.34	3	436483.44	357492.76
24	7.79	3	436589.98	357494.76
24	13.29	2	436584.49	357494.76
24	24.36	3	436573.41	357494.76
24	27.64	4	436570.13	357494.76
24	33.3	3	436564.47	357494.76
24	35.02	1	436562.75	357494.76
24	37.32	3	436560.45	357494.76
24	40.93	2	436556.84	357494.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
24	43.23	2	436554.55	357494.76
24	45.19	1	436552.58	357494.76
24	49.38	3	436548.4	357494.76
24	54.71	3	436543.06	357494.76
24	67.91	2	436529.86	357494.76
24	78.41	4	436519.36	357494.76
24	95.39	2	436502.38	357494.76
24	104.66	2	436493.11	357494.76
24	110.07	5	436487.7	357494.76
24	114.83	3	436482.94	357494.76
25	8.86	2	436588.91	357496.76
25	13.29	2	436584.49	357496.76
25	15.58	3	436582.19	357496.76
25	18.54	2	436579.24	357496.76
25	23.46	3	436574.31	357496.76
25	30.27	4	436567.51	357496.76
25	32.4	10	436565.37	357496.76
25	34.04	3	436563.73	357496.76
25	35.52	2	436562.26	357496.76
25	41.09	2	436556.68	357496.76
25	43.39	2	436554.38	357496.76
25	49.62	3	436548.15	357496.76
25	60.2	4	436537.57	357496.76
25	79.4	4	436518.38	357496.76
25	89.65	3	436508.12	357496.76
25	97.19	3	436500.58	357496.76
25	105.15	2	436492.62	357496.76
25	112.45	4	436485.32	357496.76
26	10.17	4	436587.6	357498.76
26	14.19	2	436583.58	357498.76
26	18.62	3	436579.15	357498.76
26	27.23	4	436570.54	357498.76
26	30.43	4	436567.34	357498.76
26	35.02	3	436562.75	357498.76
26	38.55	3	436559.22	357498.76
26	40.68	2	436557.09	357498.76
26	43.96	2	436553.81	357498.76
26	45.85	3	436551.92	357498.76
26	48.64	3	436549.13	357498.76
26	53.15	4	436544.62	357498.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
26	64.63	4	436533.14	357498.76
26	78.66	4	436519.11	357498.76
26	81.53	3	436516.24	357498.76
26	86.53	5	436511.24	357498.76
26	87.84	3	436509.93	357498.76
26	91.04	3	436506.73	357498.76
26	96.54	4	436501.23	357498.76
26	102.53	4	436495.25	357498.76
27	24.85	4	436572.92	357500.76
27	30.43	2	436567.34	357500.76
27	35.27	3	436562.5	357500.76
27	40.6	3	436557.17	357500.76
27	44.21	3	436553.56	357500.76
27	47.16	3	436550.61	357500.76
27	54.05	5	436543.72	357500.76
27	60.2	5	436537.57	357500.76
27	71.77	4	436526	357500.76
27	78.66	3	436519.11	357500.76
27	82.19	3	436515.59	357500.76
27	86.37	4	436511.4	357500.76
27	96.13	3	436501.64	357500.76
27	98.67	3	436499.1	357500.76
27	101.13	3	436496.64	357500.76
27	103.26	3	436494.51	357500.76
27	109.01	3	436488.77	357500.76
27	112.12	2	436485.65	357500.76
28	7.38	4	436590.39	357502.76
28	12.3	3	436585.47	357502.76
28	15.5	2	436582.27	357502.76
28	19.11	2	436578.66	357502.76
28	25.26	1	436572.51	357502.76
28	32.64	4	436565.13	357502.76
28	34.61	3	436563.16	357502.76
28	37.4	3	436560.37	357502.76
28	40.52	4	436557.25	357502.76
28	45.36	4	436552.41	357502.76
28	57.25	4	436540.52	357502.76
28	62.17	4	436535.6	357502.76
28	66.68	2	436531.09	357502.76
28	68.65	3	436529.12	357502.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
28	70.62	4	436527.15	357502.76
28	77.02	4	436520.75	357502.76
28	85.3	2	436512.47	357502.76
28	88.34	3	436509.44	357502.76
28	91.13	3	436506.65	357502.76
28	98.26	3	436499.51	357502.76
28	102.2	2	436495.57	357502.76
28	109.5	2	436488.27	357502.76
28	113.68	1	436484.09	357502.76
28	115.24	3	436482.53	357502.76
28	119.18	2	436478.6	357502.76
29	8.61	3	436589.16	357504.76
29	13.53	2	436584.24	357504.76
29	16.16	1	436581.61	357504.76
29	18.78	1	436578.99	357504.76
29	21.82	2	436575.95	357504.76
29	28.05	1	436569.72	357504.76
29	30.1	3	436567.67	357504.76
29	33.38	4	436564.39	357504.76
29	39.21	4	436558.57	357504.76
29	41.83	4	436555.94	357504.76
29	44.95	2	436552.83	357504.76
29	62.83	4	436534.94	357504.76
29	66.77	2	436531.01	357504.76
29	67.67	3	436530.11	357504.76
29	73.24	4	436524.53	357504.76
29	77.84	4	436519.93	357504.76
29	88.83	4	436508.94	357504.76
29	91.78	4	436505.99	357504.76
29	96.87	2	436500.91	357504.76
29	102.2	2	436495.57	357504.76
29	108.92	2	436488.85	357504.76
29	112.29	3	436485.49	357504.76
29	119.01	3	436478.76	357504.76
30	10.25	4	436587.52	357506.76
30	32.56	3	436565.21	357506.76
30	39.45	4	436558.32	357506.76
30	42.65	4	436555.12	357506.76
30	57.17	4	436540.6	357506.76
30	63.32	3	436534.45	357506.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
30	66.93	5	436530.84	357506.76
30	69.96	3	436527.81	357506.76
30	72.92	4	436524.86	357506.76
30	86.53	5	436511.24	357506.76
30	92.93	5	436504.84	357506.76
30	96.29	3	436501.48	357506.76
30	99	3	436498.77	357506.76
30	101.46	4	436496.31	357506.76
30	107.86	3	436489.91	357506.76
30	111.14	4	436486.63	357506.76
30	117.13	3	436480.65	357506.76
31	4.68	3	436593.1	357508.76
31	9.68	3	436588.09	357508.76
31	15.75	1	436582.02	357508.76
31	22.72	3	436575.05	357508.76
31	27.23	2	436570.54	357508.76
31	28.79	3	436568.98	357508.76
31	31	3	436566.77	357508.76
31	34.04	2	436563.73	357508.76
31	37.48	5	436560.29	357508.76
31	43.06	4	436554.71	357508.76
31	58.81	4	436538.96	357508.76
31	72.42	3	436525.35	357508.76
31	88.09	4	436509.68	357508.76
31	91.13	2	436506.65	357508.76
31	92.77	6	436505.01	357508.76
31	94.9	4	436502.87	357508.76
31	96.95	3	436500.82	357508.76
31	98.59	4	436499.18	357508.76
31	104.82	4	436492.95	357508.76
31	106.55	2	436491.23	357508.76
31	108.76	4	436489.01	357508.76
31	115.4	4	436482.37	357508.76
31	118.36	2	436479.42	357508.76
32	9.1	3	436588.67	357510.76
32	24.11	1	436573.66	357510.76
32	29.2	2	436568.57	357510.76
32	33.22	4	436564.55	357510.76
32	35.19	2	436562.59	357510.76
32	42.08	2	436555.7	357510.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
32	48.31	4	436549.46	357510.76
32	53.64	3	436544.13	357510.76
32	56.92	3	436540.85	357510.76
32	66.19	3	436531.58	357510.76
32	70.78	2	436526.99	357510.76
32	72.67	5	436525.1	357510.76
32	83.09	5	436514.69	357510.76
32	90.88	3	436506.89	357510.76
32	99.66	2	436498.12	357510.76
32	113.44	2	436484.34	357510.76
33	8.28	4	436589.49	357512.76
33	15.09	2	436582.68	357512.76
33	17.14	1	436580.63	357512.76
33	21	1	436576.78	357512.76
33	28.3	5	436569.48	357512.76
33	34.37	3	436563.41	357512.76
33	36.83	5	436560.95	357512.76
33	38.96	4	436558.81	357512.76
33	40.85	2	436556.93	357512.76
33	42.81	4	436554.96	357512.76
33	46.01	2	436551.76	357512.76
33	49.7	4	436548.07	357512.76
33	66.6	3	436531.17	357512.76
33	70.87	3	436526.91	357512.76
33	72.92	4	436524.86	357512.76
33	83.25	5	436514.52	357512.76
33	90.8	3	436506.98	357512.76
33	105.31	2	436492.46	357512.76
33	109.74	4	436488.03	357512.76
33	114.42	2	436483.35	357512.76
33	116.39	2	436481.38	357512.76
33	119.26	3	436478.51	357512.76
34	13.94	2	436583.83	357514.76
34	16.49	1	436581.29	357514.76
34	21.57	1	436576.2	357514.76
34	23.21	1	436574.56	357514.76
34	26.66	2	436571.12	357514.76
34	29.28	4	436568.49	357514.76
34	32.73	2	436565.05	357514.76
34	36.25	5	436561.52	357514.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
34	40.85	3	436556.93	357514.76
34	45.77	2	436552	357514.76
34	47.41	4	436550.36	357514.76
34	65.21	4	436532.57	357514.76
34	68.16	2	436529.61	357514.76
34	70.62	4	436527.15	357514.76
34	73.33	4	436524.45	357514.76
34	75.21	3	436522.56	357514.76
34	83.58	4	436514.19	357514.76
34	90.72	2	436507.06	357514.76
34	94.32	2	436503.45	357514.76
34	100.39	5	436497.38	357514.76
34	105.23	2	436492.54	357514.76
34	110.4	3	436487.37	357514.76
34	113.11	2	436484.67	357514.76
34	114.99	2	436482.78	357514.76
34	119.01	4	436478.76	357514.76
35	1.64	4	436596.13	357516.76
35	8.78	3	436589	357516.76
35	12.88	4	436584.9	357516.76
35	17.55	1	436580.22	357516.76
35	19.27	1	436578.5	357516.76
35	21.74	1	436576.04	357516.76
35	26.9	1	436570.87	357516.76
35	29.94	4	436567.83	357516.76
35	34.2	3	436563.57	357516.76
35	36.75	2	436561.03	357516.76
35	41.83	5	436555.94	357516.76
35	47.16	5	436550.61	357516.76
35	63.16	1	436534.62	357516.76
35	65.29	3	436532.48	357516.76
35	67.67	1	436530.11	357516.76
35	70.37	3	436527.4	357516.76
35	72.59	3	436525.18	357516.76
35	74.56	4	436523.22	357516.76
35	77.1	2	436520.67	357516.76
35	85.47	3	436512.31	357516.76
35	86.7	4	436511.08	357516.76
35	91.78	7	436505.99	357516.76
35	96.37	3	436501.4	357516.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
35	98.67	3	436499.1	357516.76
35	102.94	5	436494.84	357516.76
35	105.81	3	436491.97	357516.76
35	113.27	3	436484.5	357516.76
35	116.88	2	436480.89	357516.76
35	119.26	4	436478.51	357516.76
36	8.53	3	436589.24	357518.76
36	12.88	3	436584.9	357518.76
36	14.93	3	436582.84	357518.76
36	18.54	1	436579.24	357518.76
36	20.51	1	436577.27	357518.76
36	25.75	3	436572.02	357518.76
36	27.64	3	436570.13	357518.76
36	33.55	4	436564.23	357518.76
36	37.32	2	436560.45	357518.76
36	44.95	4	436552.83	357518.76
36	62.58	1	436535.19	357518.76
36	65.29	1	436532.48	357518.76
36	67.91	1	436529.86	357518.76
36	71.03	1	436526.74	357518.76
36	72.83	3	436524.94	357518.76
36	74.64	5	436523.13	357518.76
36	76.44	2	436521.33	357518.76
36	79.23	4	436518.54	357518.76
36	81.77	2	436516	357518.76
36	85.71	4	436512.06	357518.76
36	88.75	3	436509.03	357518.76
36	95.39	1	436502.38	357518.76
36	98.75	3	436499.02	357518.76
36	105.07	3	436492.7	357518.76
36	109.74	4	436488.03	357518.76
36	113.52	2	436484.26	357518.76
36	118.36	4	436479.42	357518.76
37	7.87	3	436589.9	357520.76
37	11.48	2	436586.29	357520.76
37	14.52	3	436583.25	357520.76
37	17.55	1	436580.22	357520.76
37	20.51	1	436577.27	357520.76
37	28.05	3	436569.72	357520.76
37	30.1	3	436567.67	357520.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
37	35.93	2	436561.85	357520.76
37	41.09	1	436556.68	357520.76
37	45.36	5	436552.41	357520.76
37	50.36	5	436547.41	357520.76
37	73.49	4	436524.28	357520.76
37	76.85	4	436520.92	357520.76
37	79.23	3	436518.54	357520.76
37	83.42	2	436514.36	357520.76
37	85.47	3	436512.31	357520.76
37	89.24	4	436508.53	357520.76
37	94.24	1	436503.53	357520.76
37	96.87	3	436500.91	357520.76
37	102.69	3	436495.08	357520.76
37	112.86	4	436484.91	357520.76
37	115.24	4	436482.53	357520.76
38	3.36	4	436594.41	357522.76
38	8.04	4	436589.73	357522.76
38	11.4	2	436586.37	357522.76
38	14.85	3	436582.93	357522.76
38	21.24	1	436576.53	357522.76
38	25.43	3	436572.35	357522.76
38	31.33	4	436566.44	357522.76
38	36.01	1	436561.77	357522.76
38	38.63	2	436559.14	357522.76
38	46.01	3	436551.76	357522.76
38	52.17	3	436545.61	357522.76
38	58.65	1	436539.13	357522.76
38	61.27	2	436536.5	357522.76
38	63.89	1	436533.88	357522.76
38	67.18	1	436530.6	357522.76
38	69.14	2	436528.63	357522.76
38	71.19	6	436526.58	357522.76
38	73.08	2	436524.69	357522.76
38	76.94	3	436520.84	357522.76
38	83.42	3	436514.36	357522.76
38	87.19	3	436510.58	357522.76
38	91.62	1	436506.16	357522.76
38	94.49	3	436503.28	357522.76
38	99.9	3	436497.87	357522.76
38	102.94	1	436494.84	357522.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
38	110.07	4	436487.7	357522.76
38	112.94	4	436484.83	357522.76
39	0.74	4	436597.03	357524.76
39	4.18	2	436593.59	357524.76
39	7.22	3	436590.55	357524.76
39	10.01	2	436587.77	357524.76
39	12.55	2	436585.22	357524.76
39	16.49	5	436581.29	357524.76
39	19.93	3	436577.84	357524.76
39	22.06	1	436575.71	357524.76
39	26.57	2	436571.2	357524.76
39	31	3	436566.77	357524.76
39	38.39	4	436559.39	357524.76
39	39.45	1	436558.32	357524.76
39	44.87	1	436552.91	357524.76
39	46.67	3	436551.1	357524.76
39	49.79	4	436547.99	357524.76
39	53.23	4	436544.54	357524.76
39	57.74	4	436540.03	357524.76
39	60.94	1	436536.83	357524.76
39	64.14	1	436533.63	357524.76
39	66.03	2	436531.75	357524.76
39	69.47	2	436528.3	357524.76
39	73.9	1	436523.87	357524.76
39	76.69	2	436521.08	357524.76
39	78.17	4	436519.61	357524.76
39	88.83	4	436508.94	357524.76
39	96.29	1	436501.48	357524.76
39	105.89	2	436491.88	357524.76
39	115.81	4	436481.96	357524.76
39	118.93	5	436478.84	357524.76
40	4.51	3	436593.26	357526.76
40	7.38	3	436590.39	357526.76
40	10.01	1	436587.77	357526.76
40	16.81	2	436580.96	357526.76
40	22.31	2	436575.46	357526.76
40	26.9	4	436570.87	357526.76
40	32.07	1	436565.7	357526.76
40	34.78	1	436563	357526.76
40	36.42	3	436561.36	357526.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
40	39.12	4	436558.65	357526.76
40	46.59	3	436551.18	357526.76
40	48.56	3	436549.22	357526.76
40	55.94	3	436541.83	357526.76
40	65.04	2	436532.73	357526.76
40	68.73	1	436529.04	357526.76
40	73.24	1	436524.53	357526.76
40	75.54	4	436522.23	357526.76
40	81.36	2	436516.41	357526.76
40	84.89	2	436512.88	357526.76
40	87.76	2	436510.01	357526.76
40	93.75	2	436504.02	357526.76
40	98.51	4	436499.27	357526.76
40	104.41	3	436493.36	357526.76
40	108.84	2	436488.93	357526.76
40	115.32	2	436482.45	357526.76
41	1.23	4	436596.54	357528.76
41	7.46	2	436590.31	357528.76
41	11.65	3	436586.13	357528.76
41	16.65	1	436581.12	357528.76
41	18.21	3	436579.56	357528.76
41	22.8	2	436574.97	357528.76
41	25.75	2	436572.02	357528.76
41	27.15	4	436570.62	357528.76
41	31.5	1	436566.28	357528.76
41	36.25	2	436561.52	357528.76
41	39.21	4	436558.57	357528.76
41	42.08	1	436555.7	357528.76
41	45.11	4	436552.66	357528.76
41	47.65	2	436550.12	357528.76
41	49.7	3	436548.07	357528.76
41	55.12	1	436542.65	357528.76
41	57.09	3	436540.69	357528.76
41	61.84	3	436535.93	357528.76
41	66.44	2	436531.34	357528.76
41	74.06	10	436523.71	357528.76
41	74.89	1	436522.89	357528.76
41	76.77	4	436521	357528.76
41	87.11	4	436510.67	357528.76
41	89.73	3	436508.04	357528.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
41	92.36	4	436505.42	357528.76
41	99.66	6	436498.12	357528.76
41	104.82	5	436492.95	357528.76
41	110.24	3	436487.54	357528.76
41	116.8	2	436480.97	357528.76
41	117.29	5	436480.48	357528.76
41	120.73	2	436477.04	357528.76
42	1.56	5	436596.21	357530.76
42	5.66	2	436592.11	357530.76
42	8.94	2	436588.83	357530.76
42	13.7	2	436584.08	357530.76
42	15.58	3	436582.19	357530.76
42	16.98	1	436580.79	357530.76
42	18.29	3	436579.48	357530.76
42	23.21	2	436574.56	357530.76
42	26	2	436571.77	357530.76
42	30.51	1	436567.26	357530.76
42	33.63	2	436564.14	357530.76
42	35.19	5	436562.59	357530.76
42	38.88	5	436558.89	357530.76
42	40.03	1	436557.75	357530.76
42	42.98	1	436554.79	357530.76
42	44.54	3	436553.24	357530.76
42	47.98	3	436549.79	357530.76
42	50.11	3	436547.66	357530.76
42	55.86	3	436541.92	357530.76
42	60.86	2	436536.91	357530.76
42	64.71	2	436533.06	357530.76
42	66.93	2	436530.84	357530.76
42	68.98	2	436528.79	357530.76
42	75.21	1	436522.56	357530.76
42	78.25	3	436519.52	357530.76
42	82.19	3	436515.59	357530.76
42	85.06	3	436512.72	357530.76
42	88.17	4	436509.6	357530.76
42	91.45	2	436506.32	357530.76
42	99.98	6	436497.79	357530.76
42	105.31	5	436492.46	357530.76
42	109.01	6	436488.77	357530.76
42	111.55	4	436486.22	357530.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
42	114.17	4	436483.6	357530.76
42	117.7	2	436480.07	357530.76
42	119.26	4	436478.51	357530.76
42	121.72	2	436476.05	357530.76
43	1.72	1	436596.05	357532.76
43	5.41	2	436592.36	357532.76
43	8.53	2	436589.24	357532.76
43	12.06	1	436585.72	357532.76
43	14.76	1	436583.01	357532.76
43	17.39	2	436580.38	357532.76
43	18.95	4	436578.83	357532.76
43	22.06	1	436575.71	357532.76
43	24.28	1	436573.49	357532.76
43	26.25	1	436571.53	357532.76
43	27.72	4	436570.05	357532.76
43	30.1	2	436567.67	357532.76
43	32.97	1	436564.8	357532.76
43	36.42	4	436561.36	357532.76
43	40.76	1	436557.01	357532.76
43	43.23	3	436554.55	357532.76
43	47.65	3	436550.12	357532.76
43	50.28	3	436547.49	357532.76
43	53.48	3	436544.29	357532.76
43	55.45	3	436542.33	357532.76
43	61.84	1	436535.93	357532.76
43	64.63	2	436533.14	357532.76
43	69.06	2	436528.71	357532.76
43	71.36	5	436526.41	357532.76
43	72.75	2	436525.02	357532.76
43	77.76	5	436520.02	357532.76
43	83.01	2	436514.77	357532.76
43	85.3	3	436512.47	357532.76
43	90.06	4	436507.71	357532.76
43	95.8	6	436501.97	357532.76
43	100.8	5	436496.97	357532.76
43	103.84	5	436493.93	357532.76
43	107.53	5	436490.24	357532.76
43	110.89	3	436486.88	357532.76
43	114.17	2	436483.6	357532.76
43	116.39	2	436481.38	357532.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
43	117.54	4	436480.24	357532.76
43	120.41	2	436477.37	357532.76
44	0.82	4	436596.95	357534.76
44	9.68	2	436588.09	357534.76
44	12.71	2	436585.06	357534.76
44	14.6	1	436583.17	357534.76
44	18.78	3	436578.99	357534.76
44	21	4	436576.78	357534.76
44	24.03	1	436573.74	357534.76
44	25.75	1	436572.02	357534.76
44	27.15	1	436570.62	357534.76
44	28.54	1	436569.23	357534.76
44	28.79	3	436568.98	357534.76
44	31.09	2	436566.69	357534.76
44	34.12	2	436563.65	357534.76
44	37.57	4	436560.21	357534.76
44	39.78	2	436557.99	357534.76
44	41.5	3	436556.27	357534.76
44	43.64	3	436554.14	357534.76
44	46.51	2	436551.27	357534.76
44	48.8	3	436548.97	357534.76
44	52.33	4	436545.44	357534.76
44	55.36	3	436542.41	357534.76
44	66.27	2	436531.5	357534.76
44	71.11	2	436526.66	357534.76
44	74.72	2	436523.05	357534.76
44	77.51	3	436520.26	357534.76
44	85.55	2	436512.22	357534.76
44	87.27	3	436510.5	357534.76
44	92.36	3	436505.42	357534.76
44	102.36	5	436495.41	357534.76
44	105.97	5	436491.8	357534.76
44	109.66	5	436488.11	357534.76
44	111.3	3	436486.47	357534.76
44	116.55	2	436481.22	357534.76
44	118.68	2	436479.09	357534.76
44	119.83	4	436477.94	357534.76
44	121.88	6	436475.89	357534.76
45	0.66	3	436597.12	357536.76
45	7.87	2	436589.9	357536.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
45	13.29	2	436584.49	357536.76
45	16.73	3	436581.04	357536.76
45	19.11	2	436578.66	357536.76
45	22.23	3	436575.54	357536.76
45	26.41	1	436571.36	357536.76
45	28.95	2	436568.82	357536.76
45	31.41	2	436566.36	357536.76
45	34.04	2	436563.73	357536.76
45	38.14	4	436559.63	357536.76
45	41.34	5	436556.43	357536.76
45	43.14	3	436554.63	357536.76
45	45.6	2	436552.17	357536.76
45	50.61	3	436547.17	357536.76
45	53.48	3	436544.29	357536.76
45	57.25	3	436540.52	357536.76
45	63.89	4	436533.88	357536.76
45	66.03	1	436531.75	357536.76
45	71.6	2	436526.17	357536.76
45	74.15	1	436523.63	357536.76
45	75.46	4	436522.31	357536.76
45	87.84	3	436509.93	357536.76
45	92.77	3	436505.01	357536.76
45	97.44	8	436500.33	357536.76
45	102.69	5	436495.08	357536.76
45	107.61	6	436490.16	357536.76
45	109.99	4	436487.78	357536.76
45	117.13	1	436480.65	357536.76
45	120.08	2	436477.69	357536.76
46	1.23	4	436596.54	357538.76
46	5.58	3	436592.2	357538.76
46	15.34	1	436582.43	357538.76
46	19.69	2	436578.09	357538.76
46	22.06	2	436575.71	357538.76
46	24.44	3	436573.33	357538.76
46	26	0	436571.77	357538.76
46	28.63	1	436569.15	357538.76
46	31.91	3	436565.87	357538.76
46	33.87	1	436563.9	357538.76
46	39.86	4	436557.91	357538.76
46	41.99	3	436555.78	357538.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
46	47	1	436550.77	357538.76
46	49.38	1	436548.4	357538.76
46	51.26	3	436546.51	357538.76
46	52.9	4	436544.87	357538.76
46	55.53	3	436542.24	357538.76
46	61.27	5	436536.5	357538.76
46	64.3	2	436533.47	357538.76
46	73.98	2	436523.79	357538.76
46	76.77	4	436521	357538.76
46	81.69	5	436516.08	357538.76
46	89.16	5	436508.62	357538.76
46	95.39	1	436502.38	357538.76
46	99.41	1	436498.36	357538.76
46	101.62	2	436496.15	357538.76
46	103.35	4	436494.43	357538.76
46	111.47	1	436486.31	357538.76
46	116.39	1	436481.38	357538.76
46	120.16	1	436477.61	357538.76
47	0.66	4	436597.12	357540.76
47	5.58	3	436592.2	357540.76
47	14.27	1	436583.5	357540.76
47	19.93	3	436577.84	357540.76
47	22.64	3	436575.13	357540.76
47	25.59	1	436572.18	357540.76
47	27.72	2	436570.05	357540.76
47	31.91	2	436565.87	357540.76
47	37.65	2	436560.12	357540.76
47	50.94	3	436546.84	357540.76
47	58.73	5	436539.05	357540.76
47	61.93	2	436535.85	357540.76
47	72.01	4	436525.76	357540.76
47	78.82	2	436518.95	357540.76
47	80.3	5	436517.47	357540.76
47	94.65	2	436503.12	357540.76
47	99.08	7	436498.69	357540.76
47	103.92	8	436493.85	357540.76
47	111.55	3	436486.22	357540.76
47	115.81	7	436481.96	357540.76
47	118.36	2	436479.42	357540.76
47	120.98	2	436476.79	357540.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
48	0.66	2	436597.12	357542.76
48	3.94	2	436593.84	357542.76
48	10.99	2	436586.78	357542.76
48	12.88	9	436584.9	357542.76
48	16.57	1	436581.2	357542.76
48	21.49	4	436576.28	357542.76
48	28.05	3	436569.72	357542.76
48	32.4	3	436565.37	357542.76
48	38.55	1	436559.22	357542.76
48	48.31	2	436549.46	357542.76
48	52.99	2	436544.79	357542.76
48	56.92	2	436540.85	357542.76
48	60.61	2	436537.16	357542.76
48	64.63	2	436533.14	357542.76
48	67.42	4	436530.35	357542.76
48	75.3	2	436522.48	357542.76
48	96.62	6	436501.15	357542.76
48	98.92	1	436498.86	357542.76
48	104.08	7	436493.69	357542.76
48	107.61	6	436490.16	357542.76
48	113.52	4	436484.26	357542.76
48	121.8	1	436475.97	357542.76
48	125.41	3	436472.36	357542.76
49	3.03	3	436594.74	357544.76
49	11.07	2	436586.7	357544.76
49	16.57	1	436581.2	357544.76
49	20.34	1	436577.43	357544.76
49	24.69	4	436573.08	357544.76
49	30.68	3	436567.1	357544.76
49	41.58	2	436556.19	357544.76
49	45.03	9	436552.74	357544.76
49	47.82	2	436549.95	357544.76
49	51.67	1	436546.1	357544.76
49	54.13	2	436543.64	357544.76
49	56.51	3	436541.26	357544.76
49	59.63	2	436538.14	357544.76
49	62.75	3	436535.03	357544.76
49	67.26	3	436530.52	357544.76
49	71.44	3	436526.33	357544.76
49	89.73	5	436508.04	357544.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
49	96.05	7	436501.73	357544.76
49	100.23	1	436497.54	357544.76
49	105.07	13	436492.7	357544.76
49	106.71	4	436491.06	357544.76
49	111.14	4	436486.63	357544.76
49	113.52	4	436484.26	357544.76
49	118.77	1	436479.01	357544.76
49	123.11	4	436474.66	357544.76
50	0.66	1	436597.12	357546.76
50	3.28	3	436594.49	357546.76
50	10.42	1	436587.36	357546.76
50	12.71	2	436585.06	357546.76
50	17.96	2	436579.81	357546.76
50	21.16	2	436576.61	357546.76
50	25.84	3	436571.94	357546.76
50	28.79	3	436568.98	357546.76
50	32.97	4	436564.8	357546.76
50	37.24	3	436560.54	357546.76
50	41.42	2	436556.35	357546.76
50	45.03	1	436552.74	357546.76
50	47.98	2	436549.79	357546.76
50	52.66	2	436545.12	357546.76
50	55.77	5	436542	357546.76
50	58.07	2	436539.7	357546.76
50	61.84	2	436535.93	357546.76
50	64.06	3	436533.71	357546.76
50	65.78	3	436531.99	357546.76
50	100.23	3	436497.54	357546.76
50	108.35	1	436489.42	357546.76
50	110.81	4	436486.96	357546.76
50	113.11	4	436484.67	357546.76
50	116.39	11	436481.38	357546.76
50	119.26	1	436478.51	357546.76
51	1.8	1	436595.97	357548.76
51	10.25	1	436587.52	357548.76
51	14.35	1	436583.42	357548.76
51	18.54	1	436579.24	357548.76
51	21.16	2	436576.61	357548.76
51	24.36	4	436573.41	357548.76
51	29.04	3	436568.74	357548.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
51	37.81	3	436559.96	357548.76
51	42.81	2	436554.96	357548.76
51	47.49	2	436550.28	357548.76
51	50.44	1	436547.33	357548.76
51	53.64	1	436544.13	357548.76
51	55.77	2	436542	357548.76
51	58.73	1	436539.05	357548.76
51	62.09	4	436535.68	357548.76
51	66.11	2	436531.66	357548.76
51	71.19	5	436526.58	357548.76
51	94.41	2	436503.37	357548.76
51	94.41	8	436503.37	357548.76
51	98.43	2	436499.35	357548.76
51	102.12	8	436495.66	357548.76
51	102.61	4	436495.16	357548.76
51	109.91	4	436487.86	357548.76
51	112.86	3	436484.91	357548.76
51	118.6	11	436479.17	357548.76
51	122.79	4	436474.99	357548.76
52	1.31	1	436596.46	357550.76
52	3.12	2	436594.66	357550.76
52	6.32	2	436591.46	357550.76
52	15.42	1	436582.35	357550.76
52	18.37	2	436579.4	357550.76
52	19.85	4	436577.92	357550.76
52	21.33	2	436576.45	357550.76
52	24.03	4	436573.74	357550.76
52	29.36	2	436568.41	357550.76
52	34.37	3	436563.41	357550.76
52	37.4	3	436560.37	357550.76
52	42.9	2	436554.88	357550.76
52	50.28	1	436547.49	357550.76
52	53.56	1	436544.21	357550.76
52	55.94	1	436541.83	357550.76
52	58.65	1	436539.13	357550.76
52	63.48	3	436534.29	357550.76
52	66.85	2	436530.93	357550.76
52	91.7	2	436506.07	357550.76
52	93.59	2	436504.19	357550.76
52	97.19	3	436500.58	357550.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
52	99.08	1	436498.69	357550.76
52	101.54	1	436496.23	357550.76
52	102.53	4	436495.25	357550.76
52	105.73	3	436492.05	357550.76
52	108.27	4	436489.5	357550.76
52	112.2	1	436485.57	357550.76
52	113.76	3	436484.01	357550.76
52	116.47	1	436481.3	357550.76
52	119.91	1	436477.86	357550.76
52	123.61	1	436474.17	357550.76
53	1.07	2	436596.71	357552.76
53	10.42	1	436587.36	357552.76
53	16.73	1	436581.04	357552.76
53	19.52	2	436578.25	357552.76
53	24.61	4	436573.17	357552.76
53	29.36	2	436568.41	357552.76
53	33.05	2	436564.72	357552.76
53	36.99	3	436560.78	357552.76
53	38.88	2	436558.89	357552.76
53	45.19	1	436552.58	357552.76
53	53.56	3	436544.21	357552.76
53	55.86	2	436541.92	357552.76
53	58.32	4	436539.46	357552.76
53	62.91	5	436534.86	357552.76
53	64.96	2	436532.81	357552.76
53	67.91	2	436529.86	357552.76
53	70.37	4	436527.4	357552.76
53	78.49	2	436519.28	357552.76
53	91.86	2	436505.91	357552.76
53	100.48	1	436497.3	357552.76
53	104	3	436493.77	357552.76
53	106.71	3	436491.06	357552.76
53	110.15	3	436487.62	357552.76
53	112.7	1	436485.08	357552.76
53	116.31	3	436481.47	357552.76
53	122.29	1	436475.48	357552.76
54	4.84	2	436592.93	357554.76
54	8.61	2	436589.16	357554.76
54	13.86	3	436583.91	357554.76
54	19.03	2	436578.74	357554.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
54	26.25	4	436571.53	357554.76
54	30.68	1	436567.1	357554.76
54	36.25	1	436561.52	357554.76
54	43.31	3	436554.47	357554.76
54	45.6	2	436552.17	357554.76
54	54.63	1	436543.15	357554.76
54	56.43	2	436541.34	357554.76
54	56.59	4	436541.18	357554.76
54	59.38	1	436538.39	357554.76
54	61.52	4	436536.26	357554.76
54	67.5	3	436530.27	357554.76
54	73.24	2	436524.53	357554.76
54	76.94	3	436520.84	357554.76
54	80.46	4	436517.31	357554.76
54	82.92	3	436514.85	357554.76
54	85.14	3	436512.63	357554.76
54	90.96	3	436506.81	357554.76
54	93.34	2	436504.43	357554.76
54	95.8	4	436501.97	357554.76
54	97.93	1	436499.84	357554.76
54	101.3	3	436496.48	357554.76
54	104	1	436493.77	357554.76
54	106.14	4	436491.64	357554.76
54	114.58	3	436483.19	357554.76
54	118.19	2	436479.58	357554.76
54	125.57	3	436472.2	357554.76
55	3.36	2	436594.41	357556.76
55	5.91	2	436591.87	357556.76
55	8.94	3	436588.83	357556.76
55	11.73	3	436586.04	357556.76
55	14.52	3	436583.25	357556.76
55	16.65	2	436581.12	357556.76
55	27.15	4	436570.62	357556.76
55	34.61	3	436563.16	357556.76
55	36.91	2	436560.86	357556.76
55	51.84	2	436545.94	357556.76
55	55.45	4	436542.33	357556.76
55	59.79	1	436537.98	357556.76
55	65.21	1	436532.57	357556.76
55	71.03	3	436526.74	357556.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
55	73.74	2	436524.04	357556.76
55	77.59	4	436520.18	357556.76
55	80.54	3	436517.23	357556.76
55	83.83	2	436513.95	357556.76
55	89.24	1	436508.53	357556.76
55	91.21	3	436506.57	357556.76
55	94.08	3	436503.69	357556.76
55	97.28	1	436500.5	357556.76
55	99.82	2	436497.95	357556.76
55	104.17	1	436493.61	357556.76
55	110.32	1	436487.45	357556.76
55	114.58	2	436483.19	357556.76
55	117.78	2	436479.99	357556.76
55	121.31	2	436476.46	357556.76
56	4.27	2	436593.51	357558.76
56	10.17	2	436587.6	357558.76
56	18.54	4	436579.24	357558.76
56	23.38	2	436574.4	357558.76
56	25.75	3	436572.02	357558.76
56	29.69	3	436568.08	357558.76
56	37.16	1	436560.62	357558.76
56	44.95	1	436552.83	357558.76
56	49.95	1	436547.82	357558.76
56	58.73	3	436539.05	357558.76
56	65.53	2	436532.24	357558.76
56	72.34	4	436525.43	357558.76
56	75.05	2	436522.72	357558.76
56	80.3	4	436517.47	357558.76
56	85.88	1	436511.9	357558.76
56	93.09	1	436504.68	357558.76
56	95.55	7	436502.22	357558.76
56	99.66	1	436498.12	357558.76
56	102.12	2	436495.66	357558.76
56	104	6	436493.77	357558.76
56	108.51	1	436489.26	357558.76
56	112.61	1	436485.16	357558.76
56	117.45	2	436480.32	357558.76
57	4.02	2	436593.75	357560.76
57	6.23	2	436591.54	357560.76
57	9.27	1	436588.5	357560.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
57	17.8	3	436579.97	357560.76
57	21.49	3	436576.28	357560.76
57	24.93	1	436572.84	357560.76
57	26.98	1	436570.79	357560.76
57	29.94	3	436567.83	357560.76
57	55.2	2	436542.57	357560.76
57	62.83	2	436534.94	357560.76
57	67.59	1	436530.19	357560.76
57	70.95	2	436526.82	357560.76
57	73.82	4	436523.95	357560.76
57	80.79	1	436516.98	357560.76
57	82.51	1	436515.26	357560.76
57	85.3	1	436512.47	357560.76
57	87.68	1	436510.09	357560.76
57	91.86	5	436505.91	357560.76
57	93.18	2	436504.6	357560.76
57	98.02	8	436499.76	357560.76
57	102.77	2	436495	357560.76
57	104	6	436493.77	357560.76
57	109.09	1	436488.68	357560.76
57	112.94	1	436484.83	357560.76
57	114.17	5	436483.6	357560.76
57	117.7	1	436480.07	357560.76
58	4.18	2	436593.59	357562.76
58	8.61	1	436589.16	357562.76
58	11.48	2	436586.29	357562.76
58	15.91	1	436581.86	357562.76
58	18.95	1	436578.83	357562.76
58	26.82	4	436570.95	357562.76
58	29.86	3	436567.92	357562.76
58	31.91	8	436565.87	357562.76
58	35.6	1	436562.18	357562.76
58	52.08	1	436545.69	357562.76
58	54.54	2	436543.23	357562.76
58	64.06	2	436533.71	357562.76
58	67.01	3	436530.76	357562.76
58	71.28	1	436526.5	357562.76
58	75.46	5	436522.31	357562.76
58	79.81	2	436517.97	357562.76
58	82.19	1	436515.59	357562.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
58	88.91	1	436508.86	357562.76
58	92.27	8	436505.5	357562.76
58	93.75	2	436504.02	357562.76
58	95.64	2	436502.14	357562.76
58	98.26	1	436499.51	357562.76
58	110.15	1	436487.62	357562.76
58	112.94	1	436484.83	357562.76
58	118.03	1	436479.74	357562.76
59	0.9	6	436596.87	357564.76
59	5	2	436592.77	357564.76
59	11.81	2	436585.96	357564.76
59	19.69	1	436578.09	357564.76
59	21.74	3	436576.04	357564.76
59	23.87	4	436573.9	357564.76
59	28.13	4	436569.64	357564.76
59	32.81	1	436564.96	357564.76
59	50.61	2	436547.17	357564.76
59	52.33	4	436545.44	357564.76
59	53.4	1	436544.38	357564.76
59	57.09	2	436540.69	357564.76
59	60.53	3	436537.24	357564.76
59	64.47	2	436533.3	357564.76
59	67.59	2	436530.19	357564.76
59	71.11	3	436526.66	357564.76
59	76.03	4	436521.74	357564.76
59	86.53	1	436511.24	357564.76
59	90.06	1	436507.71	357564.76
59	94	5	436503.78	357564.76
59	100.89	1	436496.89	357564.76
60	1.23	5	436596.54	357566.76
60	10.01	3	436587.77	357566.76
60	12.22	4	436585.55	357566.76
60	14.11	2	436583.66	357566.76
60	16.08	2	436581.7	357566.76
60	19.6	2	436578.17	357566.76
60	21.65	4	436576.12	357566.76
60	23.29	1	436574.48	357566.76
60	26.82	3	436570.95	357566.76
60	32.15	1	436565.62	357566.76
60	41.34	5	436556.43	357566.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
60	43.96	3	436553.81	357566.76
60	47.57	4	436550.2	357566.76
60	50.94	5	436546.84	357566.76
60	55.61	3	436542.16	357566.76
60	59.14	1	436538.64	357566.76
60	62.34	4	436535.44	357566.76
60	68.24	2	436529.53	357566.76
60	71.44	8	436526.33	357566.76
60	77.18	1	436520.59	357566.76
60	84.15	2	436513.62	357566.76
60	90.8	9	436506.98	357566.76
60	92.27	1	436505.5	357566.76
60	99.25	1	436498.53	357566.76
61	1.31	6	436596.46	357568.76
61	7.71	1	436590.06	357568.76
61	11.32	11	436586.45	357568.76
61	18.29	3	436579.48	357568.76
61	21.82	3	436575.95	357568.76
61	23.7	1	436574.07	357568.76
61	27.4	4	436570.38	357568.76
61	34.28	1	436563.49	357568.76
61	42.4	1	436555.37	357568.76
61	45.44	3	436552.33	357568.76
61	50.85	1	436546.92	357568.76
61	52.66	1	436545.12	357568.76
61	54.22	3	436543.56	357568.76
61	57.91	3	436539.87	357568.76
61	62.34	1	436535.44	357568.76
61	64.71	2	436533.06	357568.76
61	66.93	8	436530.84	357568.76
61	70.05	2	436527.73	357568.76
61	73.41	7	436524.36	357568.76
61	78.9	3	436518.87	357568.76
61	82.27	11	436515.51	357568.76
61	85.14	2	436512.63	357568.76
61	89.16	2	436508.62	357568.76
61	91.29	3	436506.48	357568.76
61	96.54	1	436501.23	357568.76
62	2.87	5	436594.9	357570.76
62	5.17	3	436592.61	357570.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
62	10.17	2	436587.6	357570.76
62	15.17	1	436582.6	357570.76
62	18.86	4	436578.91	357570.76
62	25.92	4	436571.85	357570.76
62	28.3	5	436569.48	357570.76
62	34.37	1	436563.41	357570.76
62	40.03	7	436557.75	357570.76
62	42.98	1	436554.79	357570.76
62	45.44	4	436552.33	357570.76
62	49.54	4	436548.23	357570.76
62	51.26	1	436546.51	357570.76
62	52.9	1	436544.87	357570.76
62	57.25	3	436540.52	357570.76
62	61.68	2	436536.09	357570.76
62	64.06	1	436533.71	357570.76
62	66.35	2	436531.42	357570.76
62	67.59	8	436530.19	357570.76
62	68.16	3	436529.61	357570.76
62	73.82	7	436523.95	357570.76
62	79.31	3	436518.46	357570.76
62	82.35	2	436515.42	357570.76
62	86.37	2	436511.4	357570.76
62	88.25	4	436509.52	357570.76
62	90.39	3	436507.39	357570.76
62	96.05	1	436501.73	357570.76
62	101.38	1	436496.39	357570.76
63	5.99	2	436591.79	357572.76
63	13.86	1	436583.91	357572.76
63	18.7	3	436579.07	357572.76
63	24.2	1	436573.58	357572.76
63	25.84	4	436571.94	357572.76
63	27.4	5	436570.38	357572.76
63	34.78	1	436563	357572.76
63	42.16	1	436555.61	357572.76
63	44.78	4	436552.99	357572.76
63	47.57	1	436550.2	357572.76
63	50.77	2	436547	357572.76
63	52.58	1	436545.2	357572.76
63	52.99	3	436544.79	357572.76
63	53.89	1	436543.88	357572.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
63	58.23	2	436539.54	357572.76
63	64.14	1	436533.63	357572.76
63	66.85	3	436530.93	357572.76
63	67.34	8	436530.43	357572.76
63	71.28	3	436526.5	357572.76
63	74.72	7	436523.05	357572.76
63	80.13	4	436517.64	357572.76
63	86.29	1	436511.49	357572.76
63	89.73	3	436508.04	357572.76
63	91.29	4	436506.48	357572.76
63	97.11	5	436500.66	357572.76
64	10.5	2	436587.27	357574.76
64	18.86	3	436578.91	357574.76
64	21.57	2	436576.2	357574.76
64	27.31	4	436570.46	357574.76
64	27.81	2	436569.97	357574.76
64	31.91	3	436565.87	357574.76
64	34.53	1	436563.24	357574.76
64	40.11	1	436557.66	357574.76
64	43.06	2	436554.71	357574.76
64	47.41	3	436550.36	357574.76
64	50.44	2	436547.33	357574.76
64	53.07	4	436544.7	357574.76
64	57.99	8	436539.78	357574.76
64	58.89	2	436538.88	357574.76
64	60.04	5	436537.73	357574.76
64	66.52	4	436531.25	357574.76
64	67.34	2	436530.43	357574.76
64	69.88	7	436527.89	357574.76
64	73.41	3	436524.36	357574.76
64	74.64	1	436523.13	357574.76
64	75.21	9	436522.56	357574.76
64	82.35	3	436515.42	357574.76
64	88.83	2	436508.94	357574.76
64	90.55	4	436507.22	357574.76
64	97.36	1	436500.41	357574.76
65	1.72	2	436596.05	357576.76
65	7.79	2	436589.98	357576.76
65	14.93	4	436582.84	357576.76
65	16.98	1	436580.79	357576.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
65	19.19	3	436578.58	357576.76
65	22.64	3	436575.13	357576.76
65	25.84	5	436571.94	357576.76
65	26.9	2	436570.87	357576.76
65	27.97	5	436569.8	357576.76
65	30.02	4	436567.75	357576.76
65	35.1	1	436562.67	357576.76
65	39.62	4	436558.16	357576.76
65	42.32	1	436555.45	357576.76
65	43.06	3	436554.71	357576.76
65	49.21	1	436548.56	357576.76
65	52.33	4	436545.44	357576.76
65	56.92	2	436540.85	357576.76
65	58.56	5	436539.21	357576.76
65	67.01	8	436530.76	357576.76
65	68.82	3	436528.96	357576.76
65	70.95	1	436526.82	357576.76
65	72.01	5	436525.76	357576.76
65	82.68	4	436515.1	357576.76
65	83.33	1	436514.44	357576.76
65	87.02	4	436510.75	357576.76
65	89.24	5	436508.53	357576.76
65	93.42	2	436504.35	357576.76
66	5.82	1	436591.95	357578.76
66	8.2	1	436589.57	357578.76
66	10.5	4	436587.27	357578.76
66	13.12	3	436584.65	357578.76
66	14.6	3	436583.17	357578.76
66	17.88	2	436579.89	357578.76
66	20.1	1	436577.68	357578.76
66	21.24	3	436576.53	357578.76
66	24.77	3	436573	357578.76
66	27.89	4	436569.89	357578.76
66	41.99	1	436555.78	357578.76
66	46.42	4	436551.35	357578.76
66	48.47	1	436549.3	357578.76
66	57.74	3	436540.03	357578.76
66	59.63	5	436538.14	357578.76
66	64.8	4	436532.98	357578.76
66	68.24	5	436529.53	357578.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
66	77.1	9	436520.67	357578.76
66	79.48	9	436518.29	357578.76
66	83.91	1	436513.87	357578.76
66	90.22	1	436507.55	357578.76
67	2.71	2	436595.07	357580.76
67	5.82	1	436591.95	357580.76
67	12.88	1	436584.9	357580.76
67	13.94	3	436583.83	357580.76
67	19.52	4	436578.25	357580.76
67	21.24	2	436576.53	357580.76
67	23.95	2	436573.82	357580.76
67	26.57	4	436571.2	357580.76
67	29.2	3	436568.57	357580.76
67	39.21	2	436558.57	357580.76
67	42.32	1	436555.45	357580.76
67	44.46	4	436553.32	357580.76
67	47.74	1	436550.04	357580.76
67	54.54	2	436543.23	357580.76
67	57.25	3	436540.52	357580.76
67	59.71	3	436538.06	357580.76
67	65.7	4	436532.07	357580.76
67	70.13	11	436527.64	357580.76
67	74.23	7	436523.54	357580.76
67	74.39	0	436523.38	357580.76
67	77.35	9	436520.43	357580.76
67	78.99	5	436518.79	357580.76
67	86.7	1	436511.08	357580.76
68	4.35	2	436593.43	357582.76
68	6.81	3	436590.96	357582.76
68	14.19	4	436583.58	357582.76
68	20.34	2	436577.43	357582.76
68	27.23	2	436570.54	357582.76
68	29.86	3	436567.92	357582.76
68	33.63	1	436564.14	357582.76
68	35.68	7	436562.09	357582.76
68	39.21	1	436558.57	357582.76
68	43.64	1	436554.14	357582.76
68	50.36	1	436547.41	357582.76
68	60.7	3	436537.08	357582.76
68	66.03	3	436531.75	357582.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
68	68.24	4	436529.53	357582.76
68	71.85	3	436525.92	357582.76
68	73.9	5	436523.87	357582.76
68	78.08	4	436519.69	357582.76
68	80.46	9	436517.31	357582.76
69	2.54	4	436595.23	357584.76
69	6.64	3	436591.13	357584.76
69	10.33	1	436587.44	357584.76
69	13.7	4	436584.08	357584.76
69	15.83	4	436581.94	357584.76
69	21.49	2	436576.28	357584.76
69	26.82	5	436570.95	357584.76
69	29.04	4	436568.74	357584.76
69	33.05	2	436564.72	357584.76
69	35.84	2	436561.93	357584.76
69	40.44	1	436557.34	357584.76
69	42.65	2	436555.12	357584.76
69	47	2	436550.77	357584.76
69	52.08	4	436545.69	357584.76
69	56.92	1	436540.85	357584.76
69	63.48	2	436534.29	357584.76
69	65.04	1	436532.73	357584.76
69	72.01	3	436525.76	357584.76
69	78.99	3	436518.79	357584.76
69	86.2	1	436511.57	357584.76
69	89.65	7	436508.12	357584.76
70	5.82	1	436591.95	357586.76
70	13.21	4	436584.57	357586.76
70	15.99	4	436581.78	357586.76
70	18.29	5	436579.48	357586.76
70	20.34	4	436577.43	357586.76
70	24.77	3	436573	357586.76
70	27.31	4	436570.46	357586.76
70	29.86	4	436567.92	357586.76
70	36.42	7	436561.36	357586.76
70	42.08	3	436555.7	357586.76
70	44.05	2	436553.73	357586.76
70	50.52	5	436547.25	357586.76
70	56.02	2	436541.75	357586.76
70	69.39	3	436528.38	357586.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
70	86.37	9	436511.4	357586.76
71	5.5	0	436592.28	357588.76
71	6.81	3	436590.96	357588.76
71	11.89	2	436585.88	357588.76
71	14.52	4	436583.25	357588.76
71	17.88	4	436579.89	357588.76
71	21.74	4	436576.04	357588.76
71	23.95	1	436573.82	357588.76
71	25.26	4	436572.51	357588.76
71	30.02	4	436567.75	357588.76
71	38.06	8	436559.71	357588.76
71	40.11	4	436557.66	357588.76
71	42.4	3	436555.37	357588.76
71	45.03	5	436552.74	357588.76
71	47.98	5	436549.79	357588.76
71	51.59	5	436546.18	357588.76
71	53.23	4	436544.54	357588.76
71	57.09	2	436540.69	357588.76
71	59.47	1	436538.31	357588.76
71	62.01	1	436535.76	357588.76
71	63.89	4	436533.88	357588.76
71	68.49	4	436529.29	357588.76
71	72.92	4	436524.86	357588.76
71	79.23	3	436518.54	357588.76
71	84.81	3	436512.96	357588.76
72	0.74	4	436597.03	357590.76
72	6.07	3	436591.7	357590.76
72	8.86	3	436588.91	357590.76
72	12.22	3	436585.55	357590.76
72	15.99	3	436581.78	357590.76
72	21.08	4	436576.69	357590.76
72	24.03	7	436573.74	357590.76
72	27.56	5	436570.21	357590.76
72	32.81	2	436564.96	357590.76
72	35.35	5	436562.42	357590.76
72	38.06	2	436559.71	357590.76
72	43.8	1	436553.97	357590.76
72	46.26	3	436551.51	357590.76
72	49.05	2	436548.72	357590.76
72	53.23	5	436544.54	357590.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
72	55.94	3	436541.83	357590.76
72	57.25	6	436540.52	357590.76
72	61.68	4	436536.09	357590.76
72	65.29	4	436532.48	357590.76
72	69.8	4	436527.97	357590.76
72	71.85	2	436525.92	357590.76
72	76.12	1	436521.66	357590.76
72	77.02	9	436520.75	357590.76
73	3.53	4	436594.25	357592.76
73	5.99	3	436591.79	357592.76
73	9.68	3	436588.09	357592.76
73	14.44	3	436583.34	357592.76
73	20.42	4	436577.35	357592.76
73	26.33	3	436571.44	357592.76
73	28.3	7	436569.48	357592.76
73	31.74	3	436566.03	357592.76
73	34.45	5	436563.32	357592.76
73	37.32	2	436560.45	357592.76
73	43.64	3	436554.14	357592.76
73	48.39	2	436549.38	357592.76
73	50.28	3	436547.49	357592.76
73	52.25	1	436545.53	357592.76
73	53.89	3	436543.88	357592.76
73	55.28	7	436542.49	357592.76
73	58.89	1	436538.88	357592.76
73	62.17	4	436535.6	357592.76
73	64.96	1	436532.81	357592.76
73	68.32	1	436529.45	357592.76
73	71.93	1	436525.84	357592.76
74	8.86	4	436588.91	357594.76
74	10.83	4	436586.95	357594.76
74	12.63	5	436585.14	357594.76
74	18.21	4	436579.56	357594.76
74	24.93	8	436572.84	357594.76
74	27.48	5	436570.3	357594.76
74	29.61	4	436568.16	357594.76
74	31.25	8	436566.52	357594.76
74	38.06	4	436559.71	357594.76
74	40.85	2	436556.93	357594.76
74	46.01	3	436551.76	357594.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
74	49.62	1	436548.15	357594.76
74	53.56	4	436544.21	357594.76
74	54.79	7	436542.98	357594.76
74	58.56	2	436539.21	357594.76
74	60.61	3	436537.16	357594.76
74	62.42	3	436535.35	357594.76
75	5.25	2	436592.52	357596.76
75	7.71	2	436590.06	357596.76
75	9.27	3	436588.5	357596.76
75	14.76	3	436583.01	357596.76
75	21.74	3	436576.04	357596.76
75	24.11	5	436573.66	357596.76
75	30.92	4	436566.85	357596.76
75	34.28	7	436563.49	357596.76
75	35.68	1	436562.09	357596.76
75	39.78	1	436557.99	357596.76
75	45.03	3	436552.74	357596.76
75	47.74	2	436550.04	357596.76
75	50.36	2	436547.41	357596.76
75	55.94	7	436541.83	357596.76
75	60.45	2	436537.32	357596.76
76	3.12	3	436594.66	357598.76
76	6.15	4	436591.62	357598.76
76	11.24	1	436586.54	357598.76
76	19.52	7	436578.25	357598.76
76	25.26	5	436572.51	357598.76
76	32.97	3	436564.8	357598.76
76	35.6	4	436562.18	357598.76
76	36.91	7	436560.86	357598.76
76	38.71	3	436559.06	357598.76
76	41.83	3	436555.94	357598.76
76	46.34	3	436551.43	357598.76
76	48.39	3	436549.38	357598.76
76	50.85	4	436546.92	357598.76
76	52.08	1	436545.69	357598.76
76	55.04	3	436542.74	357598.76
77	6.23	3	436591.54	357600.76
77	18.78	7	436578.99	357600.76
77	25.26	5	436572.51	357600.76
77	31.99	5	436565.78	357600.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
77	33.46	12	436564.31	357600.76
77	36.42	7	436561.36	357600.76
77	37.65	4	436560.12	357600.76
77	41.34	2	436556.43	357600.76
77	45.44	2	436552.33	357600.76
77	51.02	2	436546.76	357600.76
78	1.47	4	436596.79	357602.76
78	8.44	3	436589.82	357602.76
78	11.64	2	436586.62	357602.76
78	13.12	7	436585.15	357602.76
78	17.14	4	436581.13	357602.76
78	19.52	1	436578.75	357602.76
78	20.99	2	436577.27	357602.76
78	23.95	5	436574.32	357602.76
78	26.74	3	436571.53	357602.76
78	33.79	3	436564.48	357602.76
78	35.92	5	436562.35	357602.76
78	39.04	5	436559.23	357602.76
78	41.75	2	436556.52	357602.76
78	45.93	3	436552.34	357602.76
79	2.3	4	436595.48	357606.76
79	4.43	1	436593.34	357604.76
79	10.5	9	436587.27	357604.76
79	12.47	9	436585.31	357606.76
79	14.85	3	436582.93	357604.76
79	16.16	7	436581.61	357606.76
79	17.88	7	436579.89	357606.76
79	18.78	2	436578.99	357604.76
79	22.39	2	436575.38	357604.76
79	27.64	1	436570.13	357604.76
79	34.2	2	436563.57	357604.76
79	34.86	7	436562.91	357604.76
79	37.16	4	436560.62	357604.76
81	8.2	3	436589.57	357608.76
81	13.21	2	436584.57	357608.76
81	13.21	12	436584.57	357608.76
81	18.54	2	436579.24	357608.76
81	19.19	1	436578.58	357608.76
81	22.64	2	436575.13	357608.76
81	27.64	1	436570.13	357608.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
81	35.52	3	436562.26	357608.76
81	37.98	1	436559.8	357608.76
82	7.3	3	436590.47	357610.76
82	12.47	11	436585.31	357610.76
82	13.53	1	436584.24	357610.76
82	18.13	0	436579.65	357610.76
82	20.01	4	436577.76	357610.76
82	25.1	2	436572.67	357610.76
82	29.69	1	436568.08	357610.76
82	35.35	1	436562.42	357610.76
82	36.17	11	436561.6	357610.76
83	1.15	9	436596.62	357612.76
83	7.63	3	436590.14	357612.76
83	11.32	1	436586.45	357612.76
83	16.08	7	436581.7	357612.76
83	17.8	3	436579.97	357612.76
83	22.23	2	436575.54	357612.76
83	25.18	2	436572.59	357612.76
83	26.16	6	436571.61	357612.76
83	27.07	3	436570.71	357612.76
83	28.95	5	436568.82	357612.76
83	31.41	2	436566.36	357612.76
83	33.79	3	436563.98	357612.76
84	2.46	3	436595.31	357614.76
84	6.15	2	436591.62	357614.76
84	17.06	1	436580.71	357614.76
84	24.03	2	436573.74	357614.76
84	26.49	3	436571.28	357614.76
84	27.72	2	436570.05	357614.76
84	28.22	3	436569.56	357614.76
84	34.04	1	436563.73	357614.76
85	1.72	1	436596.05	357616.76
85	5.25	2	436592.52	357616.76
85	7.87	2	436589.9	357616.76
85	12.06	14	436585.72	357616.76
85	16.57	1	436581.2	357616.76
85	20.18	1	436577.6	357616.76
85	23.95	2	436573.82	357616.76
85	25.18	3	436572.59	357616.76
85	26.66	4	436571.12	357616.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
85	28.54	3	436569.23	357616.76
85	33.79	2	436563.98	357616.76
85	35.19	1	436562.59	357616.76
85	37.32	4	436560.45	357616.76
86	1.89	2	436595.89	357618.76
86	5.17	2	436592.61	357618.76
86	7.71	2	436590.06	357618.76
86	12.88	2	436584.9	357618.76
86	15.17	4	436582.6	357618.76
86	17.06	13	436580.71	357618.76
86	23.21	4	436574.56	357618.76
86	28.13	4	436569.64	357618.76
86	28.38	2	436569.39	357618.76
86	30.18	5	436567.59	357618.76
86	32.48	3	436565.29	357618.76
87	2.05	2	436595.72	357620.76
87	4.76	2	436593.02	357620.76
87	7.55	2	436590.23	357620.76
87	10.83	3	436586.95	357620.76
87	16.98	2	436580.79	357620.76
87	23.21	4	436574.56	357620.76
87	25.59	5	436572.18	357620.76
87	25.75	2	436572.02	357620.76
87	28.13	1	436569.64	357620.76
87	28.22	5	436569.56	357620.76
87	30.1	5	436567.67	357620.76
88	6.89	1	436590.91	357622.76
88	11.07	3	436586.73	357622.76
88	14.93	1	436582.87	357622.76
88	17.63	1	436580.17	357622.76
88	24.28	1	436573.51	357622.76
88	27.89	1	436569.91	357622.76
89	1.97	1	436595.8	357624.76
89	7.71	3	436590.06	357624.76
89	7.79	1	436589.98	357624.76
89	10.83	2	436586.95	357624.76
89	16.49	1	436581.29	357624.76
89	25.67	1	436572.1	357624.76
90	14.93	9	436582.84	357626.76
90	17.8	5	436579.97	357626.76

Transect	Distance from Base Line (feet)	Estimated Depth (feet)	X	Y
90	24.61	1	436573.17	357626.76
91	6.97	8	436590.8	357628.76
91	13.21	11	436584.57	357628.76
91	16.24	5	436581.53	357628.76
92	2.38	3	436595.39	357630.76
92	5.91	3	436591.87	357630.76
92	8.69	3	436589.08	357630.76
92	10.91	3	436586.86	357630.76
92	16.4	5	436581.37	357630.76
93	0.49	1	436597.28	357632.76
93	7.05	3	436590.72	357632.76
93	9.02	17	436588.75	357632.76
93	15.5	4	436582.27	357632.76
94	6.32	1	436591.46	357634.76
94	12.71	3	436585.06	357634.76
94	15.01	3	436582.76	357634.76
95	4.51	1	436593.26	357636.76
95	9.27	1	436588.5	357636.76
95	10.5	4	436587.27	357636.76
96	0.66	2	436597.12	357638.76
96	4.02	1	436593.75	357638.76
96	9.51	0	436588.26	357638.76