

Area I

Surface Facilities

Abstract Report of Phase I Archaeological Survey – January 2010
PHMC Response Letter – February 16, 2010



Christine Davis Consultants

Archaeology and History

www.chrisdavis.net

Cider Mill of Pittsburgh • 560 Penn Street

Verona, Pennsylvania 15147

412.826.0443 Fax 412.826-0458



PHASE I ARCHAEOLOGICAL SURVEY

FOUNDATION MINE CENTER AND JACKSON TOWNSHIPS, GREENE COUNTY, PENNSYLVANIA

ER# 2007-0736-059 (ER# 2008-0315-059)

A cultural resource management report prepared for:

FOUNDATION MINING, LLC

January 2010

ABSTRACT

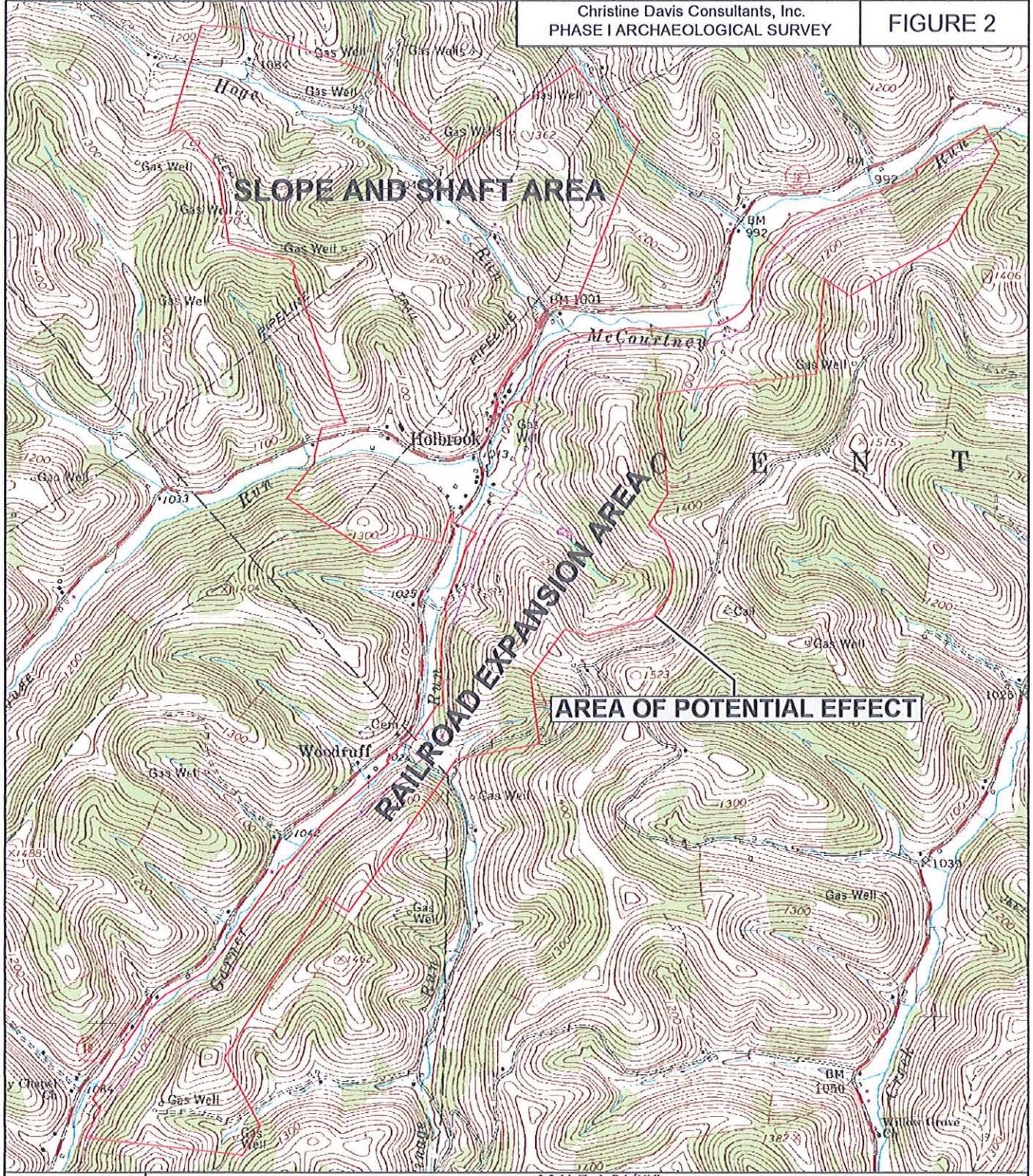
A Phase I Archaeological Survey was conducted for the Foundation Mine project in Center and Jackson Townships, Greene County, Pennsylvania. Christine Davis Consultants, Inc. (CDC) was retained by Foundation Mining, LLC to perform cultural resource investigations for this project. The sponsoring agency is the U. S. Army Corps of Engineers (CORPS).

The area of potential effect (APE) consists of approximately 4,762,994 square (sq) meter (m) (51,270,120 sq feet (ft) or 1,177 acres (ac)). It is topographically situated on both upland environments and alluvial floodplains and terraces associated Hoge, House, Garner, and McCourtney Runs within the Unglaciaded Appalachian Plateaus section of the Appalachian Plateaus physiographic province.

The field survey was conducted in the spring, summer, and fall of 2008 and summer of 2009. Due to the floodplain setting in portions of the APE, a geomorphology study was required for this project. Dr. Frank Vento (PG-001831-G), Professor, Department of Geography and Earth Science, Clarion University of Pennsylvania, served as the consulting geomorphologist for this project. Phase I field methodology included surface surveillance, and the excavation of 1 x 1 m units and shovel test probes (STPs). Approximately 232,006 sq m (2,497,295 sq ft or 57.3 ac) were tested; the remainder of the APE, involving approximately 4,531,144 sq m (48,772,825 sq ft or 1,119.7 ac), was not tested due the presence of slopes greater than 15 percent or impacts associated with residential and light commercial development, a series of gas wells and gas lines, including a major gas line corridor of approximately 50 feet in width that runs north to south through the APE, the construction of S.R. 0018, Deer Lick and Hoge Run Roads, and an existing railroad corridor, which roughly parallels S.R. 0018 to the east.

Based on the results of the Phase I survey, a total of 13 archaeological sites were recorded including 11 historic farmsteads, one historic site, one prehistoric site and an isolated find. The farmstead sites were represented by standing buildings. No intact features were found during close-interval testing and the artifact assemblage represented tertiary deposition of nondiagnostic historic artifacts. The prehistoric site was a small low-density site with six undiagnostic artifacts. The rugged and deeply dissected hills and valleys in central Greene County were far away from the wide terraces and floodplains of major streams and their associated elongated upland benches, saddles and peninsular flats with rich agricultural soils. The Phase I Survey confirmed the very low density of human habitation in this part of southwestern Pennsylvania from prehistoric times to the present.

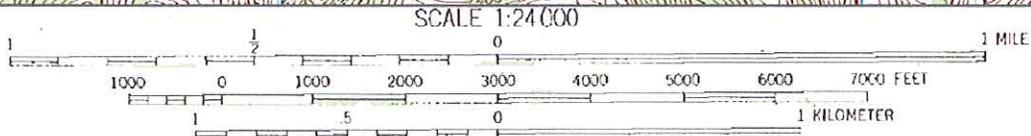
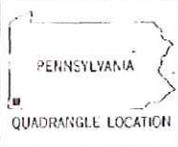
Based on the results of the Phase I Archaeological Survey for the Foundation Mine project, no further work is recommended.



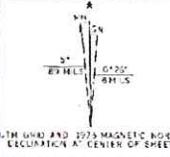
AREA OF POTENTIAL EFFECT

SLOPE AND SHAFT AREA

RAILROAD EXPANSION AREA



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



REFERENCE:
USGS 7.5 MINUTE QUADRANGLE
HOLBROOK, PA 1964
PHOTOREVISED 1973

Area of Potential Effect (APE)
FOUNDATION MINE
ER# 2007-0736-059 (ER# 2008-0315-059)
Center and Jackson Townships, Greene County, PA

THE GRID AND 2013 MAGNETIC INCLINATION CENTER OF SHEET

10.0 CONCLUSIONS AND RECOMMENDATIONS

The proposed undertaking involves the development of the Foundation Mine in Center and Jackson Townships, Greene County, Pennsylvania. The project will consist of an underground mine with shaft and slope facilities, the expansion of an existing railroad with an associated stockpile area and access road, and the construction of associated waste areas. CDC was retained by Foundation Mining LLC to perform cultural resource investigations for this project. The sponsoring agency is the CORPS.

The total APE for the Phase I Archaeological Survey involved approximately 4,762,994 sq m (51,270,120 sq ft or 1,177 ac). The APE is topographically situated on both upland environments and alluvial floodplains and terraces associated Hoge, House, Garner, and McCourtney Runs. Uplands are characterized by narrow ridge tops and steep slopes covered with deciduous woodlands while residential and light commercial development and agricultural lands are located in lowland environments.

Due to the presence of streams with the potential for buried deposits, a geomorphology study was conducted for this project. Dr. Frank Vento (PG-001831-G), Professor, Department of Geography and Earth Science, Clarion University of Pennsylvania, served as the consulting geomorphologist for this project.

The field survey was conducted in the spring, summer, and fall of 2008 and the summer and fall of 2009. Buildings older than 50 years of age were recorded within the APE and a *Determination of Eligibility Report* was prepared to be submitted as a stand-alone document (Davis 2009). Phase I field methodology consisted of surface surveillance and the hand excavation of 1 x 1 m units at 30 m intervals and STPs at 15 m, 5 m, and 2.5 m intervals.

Based on the geomorphologic survey and field view of the APE, it was determined that a majority of the APE, 4,531,144 sq m (48,772,825 sq ft or 1,119.67 ac), was not amenable for testing due to steep slopes or disturbance caused by residential and light commercial development, a series of gas wells

and gas lines, including a major gas line corridor of approximately 50 feet in width that runs north to south through the APE, the construction of S.R. 0018, Deer Lick and Hoge Run Roads, and an existing railroad corridor, which roughly parallels S.R. 0018 to the east.

The total tested area within the APE measured approximately 232,006 sq m (2,497,295 sq ft or 57.33 ac). A total of 24 1 x 1 m units and a total of 1,068 STPs were hand-excavated, including: 22 1 x 1 m units at 30 m intervals, 2 randomly placed 1 x 1 m units, 674 STPs at 15 m intervals, 378 STPs at 5 m intervals, 16 STP at 2.5 m intervals.

A total of 13 archaeological sites were recorded including 11 historic farmsteads, one historic site, one prehistoric site and an isolated find (Table 6).

**TABLE 6
SITE RECOMMENDATIONS**

SITE NAME	TYPE	PASS #	RECOMMENDATIONS
Knight Farmstead	Farmstead	36GR322	Not eligible
Lightner Farmstead	Farmstead	36GR324	Not eligible
White/Wood Farmstead	Farmstead	36GR329	Not eligible
Robert Watson Farmstead	Farmstead	36GR325	Not eligible
W. G. Hoge Farmstead	Farmstead	36GR328	Not eligible
William Hoge Farmstead	Farmstead	36GR330	Not eligible
Scott Farmstead	Farmstead	36GR326	Not eligible
Tammany Acres	Farmstead	36GR327	Not eligible
Church/Grimes Farmstead	Farmstead	36GR321	Not eligible
Levi Hoge Farmstead	Farmstead	36GR323	Not eligible
Brown Farmstead	Farmstead	36GR331	Not eligible
White House & Barn	House & Barn	36GR301	Not eligible
Holbrook Site	Prehistoric	36GR314	Not eligible
Isolated Find	Isolated Find	36GR/2	Not eligible

The presence of a single prehistoric site was unanticipated due to the size of the APE and the proximity to streams. However, floodplains within the APE proved to be very narrow and steep sided. Where terraces were found at stream confluences, construction of residential buildings, barns, and sheds had disturbed the landform's integrity. Peninsular uplands were characterized by shallow, eroded soils and proved to be narrower than they appeared on 7.5' topographic maps. The historic archaeological sites were represented by standing buildings but very few artifacts were found in close-interval subsurface testing around these sites. No intact features were found in association and the artifact assemblage represented tertiary deposits of undiagnostic artifacts and an isolated Kiski notched point. It is of interest, however, that one of the latest recorded Monongahela villages – the Foley Farm (36GR52) - is located south of the APE in the Wheeling Creek drainage. Seeking safety from internecine warfare, European disease and crop failure likely brought the Monongahela people to this remote location (Herbstritt 2003). During CDC's on-going Phase I Archaeological sewer line that also passes through the APE, a Monongahela hamlet was recently found on McCourtney Run (Davis et.al. n.d.). Both of these sites are located on wider terraces created by stream confluences. In conclusion, the negative results of the Foundation Mine project support our profession's long-term hypotheses for site selection preferences. Deep, fertile soils on wide, level topographic settings have a very high probability of sites from all periods while narrow, steep-sided tributary valleys subject to flash floods have a very low probability of prehistoric sites. The rugged and deeply dissected hills and valleys in Central Greene County are far from the wide terraces and floodplains of major streams and their associated upland benches, saddles and peninsular flats with rich agricultural soils. Furthermore, the APE is not located on a known Indian trail. The Phase I Survey confirmed the very low density of human habitation in this part of southwestern Pennsylvania from prehistoric times to the present.

Based on the results of the Phase I Archaeological Survey for the Foundation Mine, no further archaeological survey is recommended.



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

16 February 2010

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER# 2007-0736-059-BE
COE: Phase I Archaeological Survey,
Foundation Mine Slope and Shaft, Center and
Jackson Townships, Greene County

Dear Ms. Davis:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

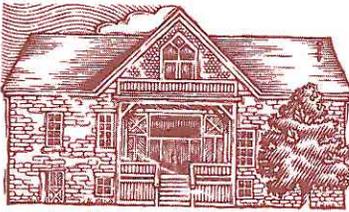
This report meets our standards and specifications as outlined in *Guidelines for Archaeological Investigations in Pennsylvania* (BHP 2008) and the Secretary of the Interior's Guidelines for Archaeological Documentation. We agree with the recommendations of this report. It is our opinion that the following sites are not eligible for listing on the National Register of Historic Places: the White House and Barn Site (36GR0301), Holbrook Site (36GR0314), Church/Grimes Farmstead (36GR0321), Knight Farmstead (36GR0322), Levi Hoge Farmstead (36GR0323), Lightner Farmstead (36GR0324), Robert Watson Farmstead (36GR0325), Scott Farmstead (36GR0326), Tammany Acres (36GR0327), W.G. Hoge Farmstead (36GR0328), White/Wood Farmstead (36GR0329), William Hoge Farmstead (36GR0330), and Brown Farmstead (36GR0331). In our opinion no further archaeological work is necessary for this project.

Please send four copies of the final report (one unbound and all with original photographs) for our files and distribution to the various repositories. For the final copies, please include color versions of any figure that was provided in color for the approved draft. In addition, please include the graphics/information provided by Heather Adams via email on 12 February 2010. If you need further information in this matter please consult Kira Heinrich at (717) 705-0700.

Sincerely,

Douglas C. McLearn, Chief
Division of Archaeology &
Protection

DCM/kmh



Christine Davis Consultants

Archaeology and History
www.chrisdavis.net

Cider Mill of Pittsburgh • 560 Penn Street • Verona, Pennsylvania 15147 • 412.826.0443 • Fax 412.826-0458

May 3, 2010

Chester Huff
Foundation Mining, LLC.
P.O. Box 1020
854 Kirby Road
Waynesburg, PA 15370

Re: Foundation Mine Slope and Shaft Sites
Center Township, Greene County, PA
ER# 2007-0736-059 (ER# 2008-0315-059)

Dear Mr. Huff:

As per your request, enclosed please find one copy of the **Pennsylvania Historic Resource Survey Form** for the **Holbrook Christian Church**, located within the project area for the above referenced project.

Sincerely,

CHRISTINE DAVIS CONSULTANTS, INC.



Christine Davis

cc: 07032



Historic Resource Survey Form

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION
Bureau for Historic Preservation

Key # _____
ER# 2007-0736-059

Name, Location and Ownership *(Items 1-6; see Instructions, page 4)*

HISTORIC NAME Holbrook Christian Church
 CURRENT/Common Name _____
 STREET ADDRESS Golden Oaks Road ZIP 15241
 LOCATION Holbrook
 MUNICIPALITY Center Township COUNTY Greene
 TAX PARCEL #/YEAR _____ USGS QUAD Holbrook
 OWNERSHIP Private
 Public/Local Public/County Public/State Public/Federal
 OWNER NAME/ADDRESS Holbrook Christian Church
 CATEGORY OF PROPERTY Building Site Structure Object District
 TOTAL NUMBER OF RESOURCES 2

Function *(Items 7-8; see Instructions, pages 4-6)*

Historic Function	Subcategory	Particular Type
<u>Religion</u>	<u>Religious Structure</u>	<u>Church</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Current Function	Subcategory	Particular Type
<u>Religion</u>	<u>Religious Structure</u>	<u>Church</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Architectural/Property Information *(Items 9-14; see Instructions, pages 6-7)*

ARCHITECTURAL CLASSIFICATION

<u>Late Victorian</u>	<u>Stick Style</u>
_____	_____
_____	_____

EXTERIOR MATERIALS and STRUCTURAL SYSTEM

Foundation	<u>Stone</u>	<u>Concrete</u>
Walls	<u>Weatherboard</u>	<u>Vinyl</u>
Roof	<u>Asphalt</u>	_____
Other	_____	_____
Structural System	<u>Wood</u>	_____

WIDTH 30 (feet) or _____ (# bays) DEPTH 75 (feet) or _____ (# rooms) STORIES/HEIGHT 1

Property Features (Items 15-17; see Instructions, pages 7-8)

Setting Rural Village

Ancillary Features

Privy (modern) _____

Acreage .5 (round to nearest tenth)

Historical Information (Items 18-21; see Instructions, page 8)

Year Construction Began 1897 Circa Year Completed 1897 Circa

Date of Major Additions, Alterations 1970 Circa _____ Circa _____ Circa

Basis for Dating Documentary Physical

Explain Smith 1996

Cultural/Ethnic Affiliation(s) _____

Associated Individual(s) _____

Associated Event(s) _____

Architect(s) _____

Builder(s) _____

Submission Information (Items 22-23; see Instructions, page 8)

Previous Survey/Determinations None

Threats None Neglect Public Development Private Development Other

Explain Mine development

This submission is related to a non-profit grant application business tax incentive

NHPA/PA History Code Project Review other

Preparer Information (Items 24-30; see Instructions, page 9)

Name & Title Christine Davis, President

Date Prepared December 2009

Project Name Foundation Mine

Organization/Company Christine Davis Consultants, Inc.

Mailing Address 560 Penn St.; Verona, PA. 15147

Phone 412-826-0443

Email chris@chrisdavis.net

Physical Description and Integrity (Item 38)

Provide a current description of the overall setting, landscape, and resources of the property. See page 13 of the Instructions for detailed directions. Continue on additional sheets as needed. Suggested outline for organizing this section:

- Introduction [summarize the property, stating type(s) of resource(s) and function(s)]
- Setting [describe geographic location, streetscapes, natural/man-made landscape features, signage, etc.]
- Exterior materials, style, and features [describe the exterior of main buildings/resources]
- Interior materials, style, and features [describe the interior of main buildings/resources]
- Outbuildings/Landscape [describe briefly additional outbuildings/landscape features found on property, substitute Building Complex Form if preferred; See Instructions, page 18]
- Boundaries [explain how/why boundaries chosen, such as historic legal parcel, visual natural features such as tree lines, alley separating modern construction, etc.]
- Integrity [summarize changes to the property and assess how the changes impact its ability to convey significance]

(Text entered directly into form fields will not permit formatting adjustments, such as spell checking or italicizing. Instead, you may wish to cut-and-paste text from another document into the field below; “unprotect” the document for this section, or prepare the “Physical Description and Integrity” narrative as a separate document.)

This Late Victorian Stick Style building is clad with clapboard, painted white, and has a gable roof with replaced asphalt shingles. The church rests on an ashlar sandstone foundation. The main facade has cross bracing, an intersecting wood tracery in the gable, and an entrance composed of double wood doors with a decorative hood. The entrance is located within the tower which has a steeple covered with slate and imbricated wood shingles. An original triple stained glass window with a pointed arch is located to the left of the main entrance. Windows on the sides of the building are peaked and double-hung with wood sills. The rear facade of the church faces McCourtney Run and has a modern one-story addition of aluminum and concrete block. The steps for the main entrance and three other access points have been replaced with cast concrete.

The vestibule has wood paneling and wood door surrounds with roundel blocks. The interior of the church is simple containing only a few decorative elements like the tin ceiling and two small frescoes, now painted white, above the alcove for the altar. Interior alterations include the installation of a gas furnace in 1961 and an addition on the east façade of the building in 1963. As part of the addition, the tracery in the east gable was saved but the exterior was boarded over.

History and Significance (Item 39)

Provide an overview of the history of the property and its various resources. Do not substitute deeds, chapters from local history books, or newspaper articles. See page 14 of the Instructions for detailed directions. Continue on additional sheets as needed. Suggested outline for organizing this section:

- History [Summarize the evolution of the property from origin to present]
- Significance [Explain why the property is important]
- Context and Comparisons [Describe briefly similar properties in the area, and explain how this property compares]

(Text entered directly into form fields will not permit formatting adjustments, such as spell checking or italicizing. Instead, you may wish to cut-and-paste text from another document into the field below; “unprotect” the document for this section, or prepare the “History and Significance” narrative as a separate document.)

The **Holbrook Christian Church** is located along Golden Oaks Road in the rural community of Holbrook. The church was dedicated on November 28, 1897 by Elder L. L. Carpenter of Wabash, Indiana. At the time, Reverend C. Jobes served as the pastor (Smith 1996:328). The church is one of eight churches in the township and was constructed during a period of growth in this part of Center Township.

The earliest religious services in Holbrook were held in a log barn on the property of Roland Bristor. It wasn't until 1853 that two local preachers organized a Church of Christ in Holbrook and held the first services in the community's schoolhouse. The 34 charter members included families living in Holbrook, Rogersville and Willow Grove (Smith n.d.).

The first church building was completed in 1863 by local craftsmen who were members of the congregation including carpenters, George and Henry Church and stonemason, Morgan Hoge. At the time, the congregation had 300 members. The church purchased a cemetery lot, located nearby, on February 16, 1871 (Smith n.d.). In the 1890s, the membership decreased when churches were built in both Rogersville and Willow Grove. At the same time, the old church building in Holbrook was in poor condition and needed to be replaced. The building committee included Reverend Jobes, Lindsay Grove, D. Orndoff, James Morris, and O. Scott. The church let construction contracts to W. L. Wood for stone, Smith & Son of Cameron, W. Virginia for carpentry, David Thomas for plastering, and Thomas Kennedy for painting. An oil chandelier and two lamps were purchased by the church but later replaced by gaslights when the heating system was installed.

In 1953, the church held its Homecoming Day with Rev. John M. Thompson presiding. Rev. Thompson was the circuit preacher for the four Christian Churches in western Greene County - Holbrook, Wind Ridge, Rogersville and Willow Grove.

Today, the church no longer has a pastor and the membership is small. A local attorney, Farley Toothman, whose grandmother attended the Holbrook Church, published a video about the building on You Tube in April of 2008 (Toothman 2009).

The Holbrook Church is owned by a religious institution and its primary significance derives from its use for religious purposes; thus, the church is not considered to be eligible for the NRHP.



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

May 25, 2010

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

Re: ER 08-0315-059-C
COAL: Foundation Mine Slope and Shaft Sites
Center Township, Greene County
Determination of Eligibility: Holbrook Christian Church

Dear Ms. Davis:

The Bureau for Historic Preservation has reviewed the above named project under the authority of the Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 *et seq.* (1988), and in accordance with relevant Federal legislation. This legislation includes Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, the Surface Mining Control and Reclamation Act, and OSM's regulations. This review includes comments on the project's potential effect on both historic and archaeological resources.

We disagree with the findings of the agency concerning the National Register eligibility of the following property. In our opinion, this property is eligible for the National Register of Historic Places. This church is a good example of rural church architecture and possesses good integrity.

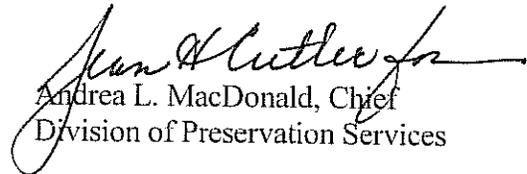
Holbrook Christian Church, Golden Oaks Road,
Center Township, Greene County

Please evaluate the affect of the proposed project on the Holbrook Christian Church.

Page 2
C. Davis
May 25, 2010

If you need further information in this matter please consult Susan Zacher at (717) 783-9920.

Sincerely,



Andrea L. MacDonald, Chief
Division of Preservation Services

AM/smz

Area II

Surface Facilities

**Addendum Report Abstract – Phase I Archaeological Survey – May 2010
PHMC Response Letter – June 14, 2010**



Christine Davis Consultants

Archaeology and History

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Verona, Pennsylvania 15147

412.826.0443 Fax 412.826-0458

Addendum Report

PHASE I CULTURAL RESOURCE SURVEY

**FOUNDATION MINE
CENTER AND JACKSON TOWNSHIPS,
GREENE COUNTY, PENNSYLVANIA**

ER# 2007-0736-059 (ER# 2008-0315-059)

A cultural resource management report prepared for:

FOUNDATION MINING, LLC

May 2010



ABSTRACT

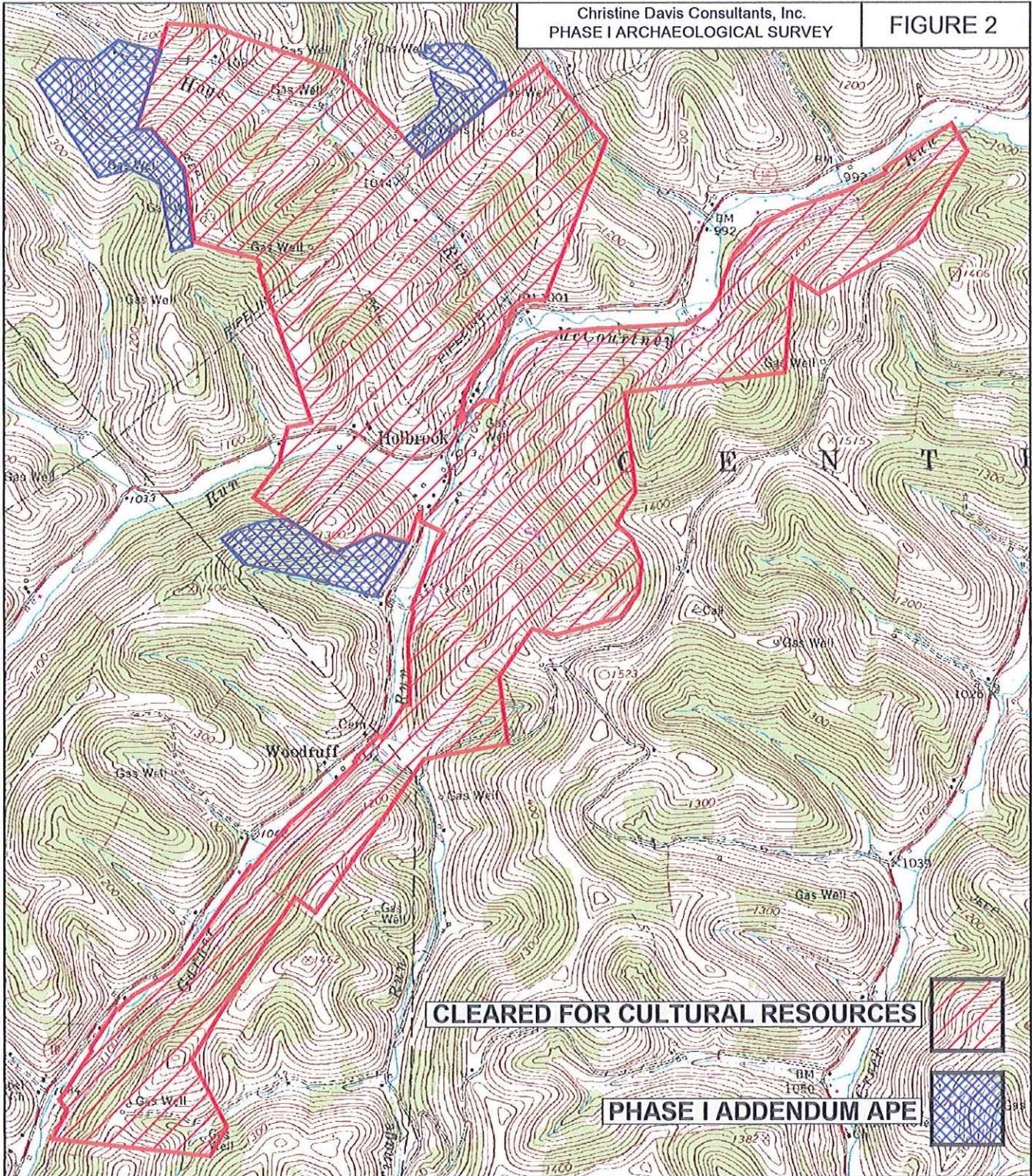
A Phase I Cultural Resource Survey was conducted for the proposed Foundation Mine project in Center and Jackson Townships, Greene County, Pennsylvania. This survey was conducted as an addendum to the original Phase I Archaeological Survey and Determination of Eligibility completed by Christine Davis Consultants, Inc. (CDC). CDC was retained by Foundation Mine, LLC. to perform archaeological investigations for the project. The sponsoring agency is the U. S. Army Corps of Engineers (CORPS).

The area of potential effect (APE) for the addendum survey is approximately 461,326 square (sq) meters (m) (4,965,840 sq feet (ft) or 114 acres (ac)) located along Hoge, House, Garner, and McCourtney Runs. It is topographically situated on floodplains and upland environments associated Hoge, House, Garner, and McCourtney Runs.

The field survey for this portion of the APE was conducted in the April of 2010. Phase I field methodology included surface surveillance and the excavation of shovel test probes (STPs) at 15m and 5 m intervals. Approximately 48,157 sq m (518,394 sq ft or 11.9 ac) was tested; the remainder of the APE, involving approximately 413,169 sq m (4,447,446 sq ft or 102.1 ac), was not tested due to slopes greater than 15 percent, wetland environments, a gas pipeline located on the hilltops north and east of Hoge Run and the construction of a farmstead within the APE.

*One historic archaeological site was documented in the APE: **Alva Phillips Site (36GR348)**. This farmstead site is represented by 13 standing buildings. No intact foundations, features, or artifacts were found during the surface surveillance and close-interval testing. In addition, the **Alva Phillips Farmstead** was identified as a property over 50 years of age and a Farmstead Information Form was prepared. The Farmstead and the archaeological site were evaluated for the National Register of Historic Places (NRHP) and neither is recommended as eligible.*

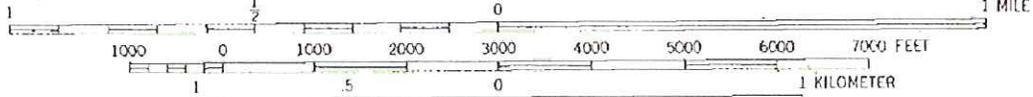
Based on the results of the Addendum Phase I Cultural Resource Survey, no further work is recommended for these areas of the Foundation Mine project.



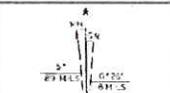
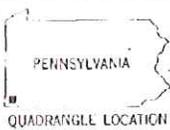
CLEARED FOR CULTURAL RESOURCES

PHASE I ADDENDUM APE

SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



REFERENCE:
USGS 7.5 MINUTE QUADRANGLE
HOLBROOK, PA 1964
PHOTOREVISED 1973

Area of Potential Effect (APE)
FOUNDATION MINE ADDENDUM
ER# 2007-0736-059 (ER# 2008-0315-059)
Center and Jackson Townships, Greene County, PA

6.0 Phase I Conclusions and Recommendations

The proposed undertaking involves the development of the Foundation Mine in Center and Jackson Townships, Greene County, Pennsylvania. CDC submitted the original Phase I Archaeological Resource Survey and Determination of Eligibility reports in January 2010. Since that time, an additional area of 461,326 sq m (4,965,840 sq ft or 114 ac) was added to the original Foundation Mine project. CDC was retained by Foundation Mining LLC of Waynesburg, Pennsylvania to perform cultural resource investigations for this project. The sponsoring agency is the CORPS.

The APE consists of 461,326 sq m (4,965,840 sq ft or 114 ac). Approximately 48,157 sq m (518,394 sq ft or 11.9 ac) was tested; the remainder of the APE, involving approximately 413,169 sq m (4,447,446 sq ft or 102.1 ac), was not tested due slopes greater than 15 percent, wetland environments, a gas pipeline located on the hilltops north and east of Hoge Run and the construction of a farmstead.

Phase I field methodology included surface surveillance and the excavation of STPs at 15m and 5 m intervals. The field survey was conducted April of 2010. A total 145 STPs were excavated including 133 STPs at 15 m intervals and 12 STPs at 5 m intervals. All 145 STPs were negative.

One historic archaeological site – Alva Phillips Site (36GR348) – was identified. No artifacts, features, or foundations were found. In addition, the 13 standing buildings associated with the Alva Phillips Farmstead were evaluated for the NRHP. Neither the archaeological site nor the Farmstead are recommended as eligible for the NRHP.

Based on the results of the Addendum Phase I Cultural Resource Survey, no additional work is recommended for the Foundation Mine project.



Commonwealth of Pennsylvania
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www.phmc.state.pa.us

14 June 2010

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER# 2007-0736-059-JJ
COE: Phase I Archaeological Survey
Addendum, Foundation Mine Slope and Shaft,
Center and Jackson Townships, Greene County

Dear Ms. Davis:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

This report meets our standards and specifications as outlined in *Guidelines for Archaeological Investigations in Pennsylvania* (BHP 2008) and the Secretary of the Interior's Guidelines for Archaeological Documentation. We agree with the recommendations of this report. It is our opinion that the Alva Phillips Site (36GR0348) is not eligible for the National Register of Historic Places under Criterion D. In our opinion no further archaeological work is necessary for this project.

This farmstead can not be evaluated for eligibility under Criteria A, B, or C at this time. An original copy (including original pictures) of the farmstead form for the Alva Philips Farmstead should be sent to Susan Zacher of our office for National Register structures review.

Please send four copies of the final report (one unbound and all with original photographs) for our files and distribution to the various repositories. For the final copies, please include color versions of any figure that was provided in color for the approved draft. If you need further information in this matter please consult Kira Heinrich at (717) 705-0700.

Sincerely,

Douglas C. McLearn, Chief
Division of Archaeology &
Protection

DCM/kmh



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

March 14, 2011

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

RECEIVED
MARCH 14 2011
BUREAU FOR HISTORIC PRESERVATION

Re: ER 07-0736-059-YY
COAL: Foundation Mine Slope and Mine Sites
Center Township, Greene County
Determination of Eligibility

Dear Ms. Davis:

The Bureau for Historic Preservation has reviewed the above named project under the authority of the Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988), and in accordance with relevant Federal legislation. This legislation includes Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, the Surface Mining Control and Reclamation Act, and OSM's regulations. This review includes comments on the project's potential effect on both historic and archaeological resources.

We disagree with the findings of the agency concerning the eligibility of the following properties. In our opinion, these properties are eligible for the National Register of Historic Places.

1. Alva and Harriet Hoge Phillips Farm, Hoges Run Road, Center Township, Greene County: This property is eligible under Criterion A for its agricultural significance. Boundaries which reflect its agricultural significance needs to be developed. Please include all agricultural lands associated with this farm.
2. Morgan and Elizabeth Hoge Farm, Covered Bridge Road, Center Township, Greene County: This farmstead is eligible for the National Register of Historic Places under Criterion A for its local agricultural significance and Criterion C for its architectural significance. Please develop boundaries for this farm that reflect both Criteria.

Page 2
C. Davis
March 14, 2011

We concur with the findings of the agency that the following properties are not eligible for the National Register of Historic Places. They are not historically or architecturally significant and have suffered a loss of integrity.

3. Samuel Moore Property, Hoges Run Road, Center Township, Greene County
4. Mooreland School, Covered Bridge Road, Center Township, Greene County
5. Tilden Farmstead, Hoges Run Road, Center Township, Greene County

If you need further information in this matter please consult Susan Zacher at (717) 783-9920.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrea L. MacDonald". The signature is fluid and cursive, with a large initial "A" and "M".

Andrea L. MacDonald, Chief
Division of Preservation Services

AM/smz

Area III

Water Impoundment

Addendum Report Abstract – Phase I Archaeological Survey –

November 2010 & September 2011

PHMC Response Letter – December 28, 2010 & January 7, 2011



Christine Davis Consultants
Archaeology and History
www.chrisdavis.net
Cider Mill of Pittsburgh • 560 Penn Street
Verona, Pennsylvania 15147
412.826.0443 Fax 412.826-0458

Addendum Report

PHASE I CULTURAL RESOURCE SURVEY

**FOUNDATION MINE: WATER IMPOUNDMENT
JACKSON TOWNSHIP, GREENE COUNTY, PENNSYLVANIA**

ER# 2007-0736-059 (ER# 2008-0315-059)



A cultural resource management report prepared for:

FOUNDATION MINING, LLC

November 2010

ABSTRACT

A Phase I Cultural Resource Survey was conducted for the proposed Foundation Mine project Jackson Township, Greene County, Pennsylvania. This survey was conducted as an addendum to the original Phase I Archaeological Survey and Determination of Eligibility completed by Christine Davis Consultants, Inc. (CDC). CDC was retained by Foundation Mine, LLC. to perform archaeological investigations for the project. The sponsoring agency is the U. S. Army Corps of Engineers (CORPS).

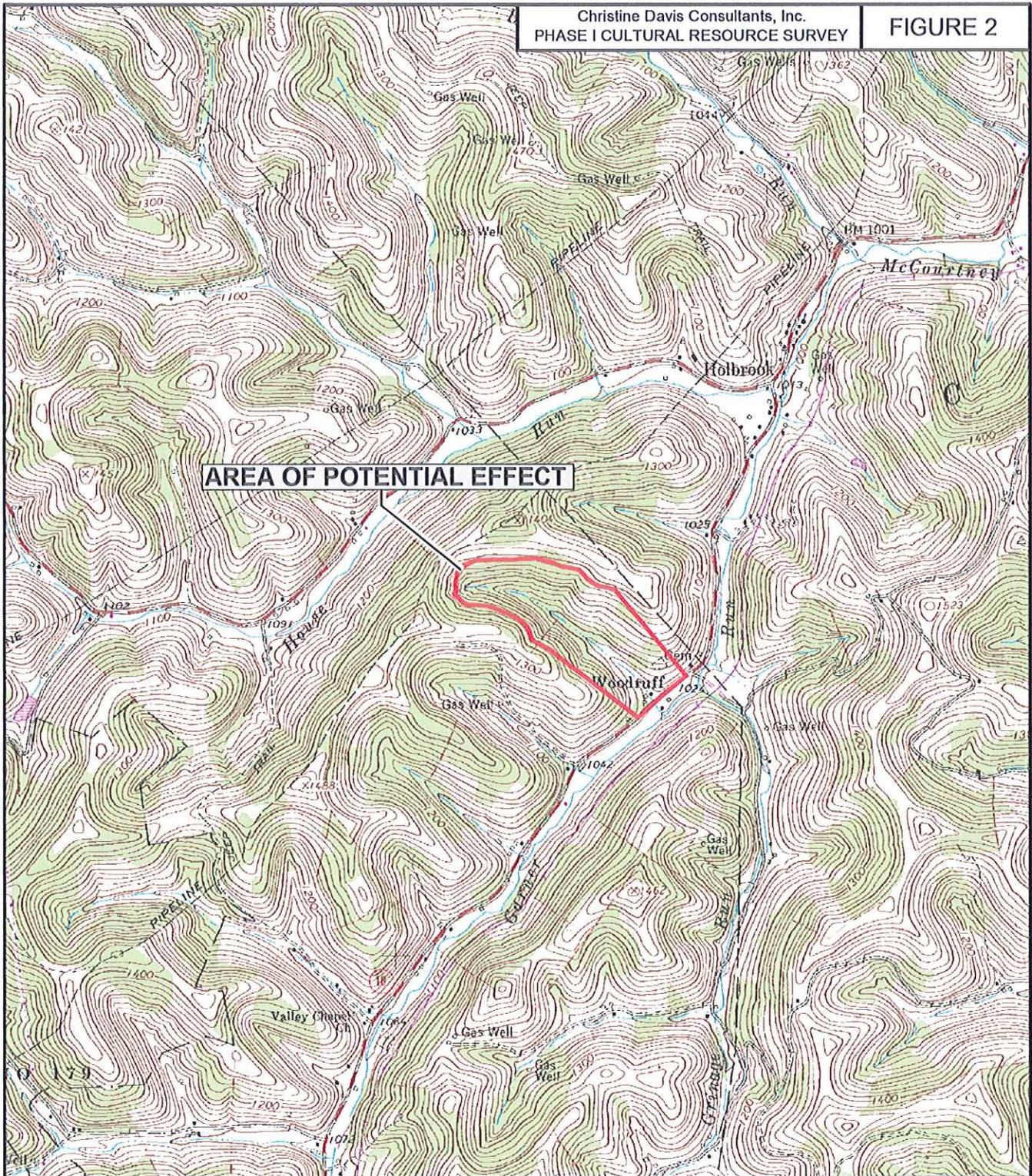
The area of potential effect (APE) for the addendum survey is approximately 291,374 square (sq) meters (m) (3,136,320 sq feet (ft) or 72 acres (ac)). It is topographically situated in upland environments above Garner Run and its unnamed tributary within the Pittsburgh Plateaus Section of the Appalachian Plateaus Province physiographic province.

The field survey for this portion of the APE was conducted in September and October of 2010. Phase I field methodology included surface surveillance and the excavation of shovel test probes (STPs) at 15 m and 5 m intervals. Approximately 48,157 sq m (518,394 sq ft or 11.9 ac) was tested; the remainder of the APE, involving approximately 413,169 sq m (4,447,446 sq ft or 102.1 ac), was not tested due to the presence of slopes greater than 15 percent and wetland environments, the construction of a gas pipeline and a farmstead, and the realignment of S.R. 0018.

*One historic archaeological site was documented in the APE: **Ullom Farmstead Site (36GR356)**. The site is associated with the extant Ullom Farmstead (see below). No evidence of intact sheet refuse deposits or preserved features was found. The Ullom Farmstead site is being recommended as not eligible for the National Register of Historic Places (NRHP).*

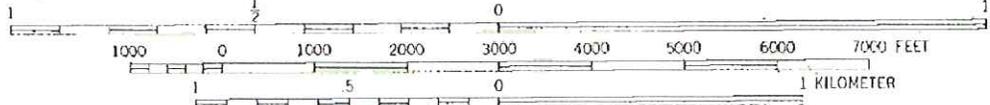
*One historic property over 50 years of age – **Ullom Farmstead** – and one historic cemetery – **Woodruff Cemetery** – were identified. The farmstead consists of four standing buildings, including a farmhouse, summer kitchen, and barn, dating to the 1890s, and a modern concrete block garage. The Ullom Farmstead was evaluated for the NRHP and is being recommended as not eligible. The Woodruff Cemetery contains approximately 15 graves dating between 1851 and 1886.*

Based on the results of the Addendum Phase I Cultural Resource Survey, no further work is recommended for these areas of the Foundation Mine project.

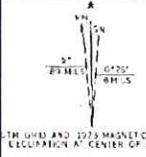
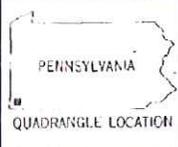


AREA OF POTENTIAL EFFECT

SCALE 1:24,000



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



REFERENCE:
USGS 7.5 MINUTE QUADRANGLE
HOLBROOK, PA 1964
PHOTOREVISED 1973

Area of Potential Effect (APE)
FOUNDATION MINE - WATER IMPOUNDMENT
ER# 2007-0736-059 (ER# 2008-0315-059)
Center and Jackson Townships, Greene County, PA

6.0 PHASE I CONCLUSIONS AND RECOMMENDATIONS

The proposed undertaking involves a water impoundment area and is an addendum to the original Foundation Mine project. The water impoundment portion is located in Jackson Township, Greene County, Pennsylvania. CDC submitted the original Phase I Archaeological Resource Survey and Determination of Eligibility reports for Foundation Mine in January 2010. CDC was retained by Foundation Mining LLC of Waynesburg, Pennsylvania to perform cultural resource investigations for this project. The sponsoring agency is the CORPS.

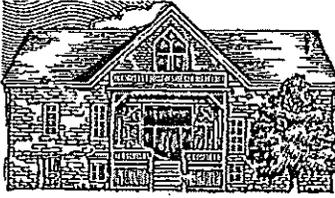
The APE consists of 461,326 sq m (4,965,840 sq ft or 114 ac). Approximately 48,157 sq m (518,394 sq ft or 11.9 ac) was tested; the remainder of the APE, involving approximately 413,169 sq m (4,447,446 sq ft or 102.1 ac), was not tested due the presence of slopes greater than 15 percent and wetland environments, the construction of a gas pipeline and farmstead, and the relocation of S.R. 0018.

The field survey was conducted in September and October of 2010. Phase I field methodology included surface surveillance and the excavation of STPs at 15m and 5 m intervals. A total of 65 STPs were excavated including 41 STPs at 15 m intervals and 24 STPs at 5 m intervals around 4 standing buildings. There were 25 negative STPs and 18 positive STPs.

One historic archaeological site – Ullom Farmstead Site (36GR356) – was identified after the recovery of 232 historic artifacts from 18 positive STPs. No features or foundations were found. In addition, the 4 standing buildings associated with the Ullom Farmstead were evaluated for the NRHP. A PASS form was completed for the archaeological site and an HRS form and Farmstead Information form were completed for the farmstead. Neither the archaeological site nor the farmstead are recommended as eligible for the NRHP.

A historic cemetery – Woodruff Cemetery – also was identified within the APE. The cemetery dates between 1851 and 1886. A Historic Cemetery form was completed.

Based on the results of the Addendum Phase I Cultural Resource Survey, no additional work is recommended for the Foundation Mine-Water Impoundment project.



Christine Davis Consultants

Archaeology and History
www.chrisdavis.net

Cider Mill of Pittsburgh • 560 Penn Street • Verona, Pennsylvania 15147 • 412.826.0443 • Fax 412.826-0458

November 23, 2010

Kira Heinrich
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093

RE: Foundation Mine: Water Impoundment
Jackson Township, Greene County, PA
ER# 2007-0736-059 (ER# 2008-0315-059)

Dear Kira:

Enclosed please find one copy (with original photographs) of the **Addendum Phase I Cultural Resource Survey** completed for the above referenced project.

Sincerely,

CHRISTINE DAVIS CONSULTANTS, INC.

Christine Davis
President

Cc: 10-031



Christine Davis Consultants

Archaeology and History
www.chrisdavis.net

Cider Mill of Pittsburgh • 560 Penn Street • Verona, Pennsylvania 15147 • 412.826.0443 • Fax 412.826-0458

November 23, 2010

Ms. Ann Safley
Bureau for Historic Preservation
Commonwealth Keystone Building
Second Floor
400 North Street
Harrisburg, PA 17120-0093

Re: Foundation Mine: Water Impoundment
Jackson Township, Greene County, PA
ER# 2007-0736-059 (ER# 2008-0315-059)

Dear Ms. Safely:

Enclosed, please find the following original forms completed for the above referenced project:

- Ullom Farmstead – original Pennsylvania Historic Resource Survey form and Farmstead form
- Woodruff Cemetery – Historic Cemetery form

Sincerely,

CHRISTINE DAVIS CONSULTANTS, INC.

A handwritten signature in cursive script, appearing to read "Chris".

Christine Davis

cc: 10031



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

28 December 2010

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

Re: ER# 2007-0736-059-PP
COE: Phase I Archaeological Survey,
Foundation Mine Water Impoundment Area,
Jackson Township, Greene County

Dear Ms. Davis:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

This report meets our standards and specifications as outlined in *Guidelines for Archaeological Investigations in Pennsylvania* (BHP 2008) and the Secretary of the Interior's Guidelines for Archaeological Documentation. We agree with the recommendations of this report. It is our opinion that the Ullom Farmstead Site (36GR0356) is not eligible for the National Register of Historic Places under Criterion D. It is our understanding that the Roberts (Woodruff) Cemetery will be avoided by construction. Please provide a detailed avoidance plan, including mapping that illustrates the location of planned ground disturbance in relation to the resource and a 100 foot buffer zone. Provided that the cemetery is avoided, and that our office concurs with the avoidance plan, in our opinion no further archaeological work is necessary for this project.

Please send three copies of the final report (one unbound and all with original photographs) for our files and distribution to the various repositories. If you need further information in this matter please consult Kira Heinrich at (717) 705-0700.

Sincerely,

Douglas C. McLearn, Chief
Division of Archaeology &
Protection

DCM/kmh

Historic Resource Survey Form

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION
Bureau for Historic Preservation

Key # _____
ER# <u>07-0736-059</u>

Name, Location and Ownership *(Items 1-6; see Instructions, page 4)*

HISTORIC NAME Roberts/Woodruff Cemetery

CURRENT/Common NAME Roberts Cemetery

STREET ADDRESS _____ ZIP _____

LOCATION Northwest side of S.R. 0018 (Golden Oaks Road), immediately north of its intersection with T-469

MUNICIPALITY Jackson Township COUNTY Greene County

TAX PARCEL #/YEAR _____ USGS QUAD Holbrook, PA

OWNERSHIP Private
 Public/Local Public/County Public/State Public/Federal

OWNER NAME/ADDRESS _____

CATEGORY OF PROPERTY Building Site Structure Object District

TOTAL NUMBER OF RESOURCES 1

Function *(Items 7-8; see Instructions, pages 4-6)*

Historic Function	Subcategory	Particular Type
<u>Funerary</u>	<u>Cemetery</u>	<u>Small Family Plot</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Current Function	Subcategory	Particular Type
<u>Funerary</u>	<u>Cemetery</u>	<u>Small Family Plot</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Architectural/Property Information *(Items 9-14; see Instructions, pages 6-7)*

ARCHITECTURAL CLASSIFICATION

_____	_____
_____	_____
_____	_____

EXTERIOR MATERIALS and STRUCTURAL SYSTEM

Foundation	_____	_____
Walls	_____	_____
Roof	_____	_____
Other	_____	_____
Structural System	_____	_____

WIDTH _____ (feet) or _____ (# bays) DEPTH _____ (feet) or _____ (# rooms) STORIES/HEIGHT _____



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

January 7, 2011

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER 07-0736-059-RR
Foundation Mine: Water Impoundment
Jackson Township, Greene County
Addendum to Determination of Eligibility

Dear Ms. Davis:

The Bureau for Historic Preservation has reviewed the above named project under the authority of the Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 *et seq.* (1988), and in accordance with relevant Federal legislation. This legislation includes Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, the Surface Mining Control and Reclamation Act, and OSM's regulations. This review includes comments on the project's potential effect on both historic and archaeological resources.

Thank you for submitting the additional information we requested on the Roberts Cemetery. Based on the information submitted we concur with the findings of the agency that the property listed below is not eligible for the National Register of Historic Places.

Robert/Woodruff Cemetery, NW side of SR 0018, Jackson Township,
Greene County

Page 2
C. Davis
Jan. 7, 2011

If you need further information in this matter please consult Susan Zacher at (717)
783-9920.

Sincerely,

A handwritten signature in cursive script that reads "Andrea L. MacDonald". The signature is written in black ink and is positioned above the printed name and title.

Andrea L. MacDonald, Chief
Division of Preservation Services

AM/smz

PHASE I AND II CULTURAL RESOURCE SURVEYS:
ADDENDUM

**FOUNDATION MINE
WATER IMPOUNDMENT STOCKPILE AND ACCESS ROAD
CENTER AND JACKSON TOWNSHIPS, GREENE COUNTY,
PENNSYLVANIA**

ER# 2007-0736-059 (ER# 2008-0315-059)

A cultural resource management report prepared for:

FOUNDATION MINING, LLC

September 2011

ABSTRACT

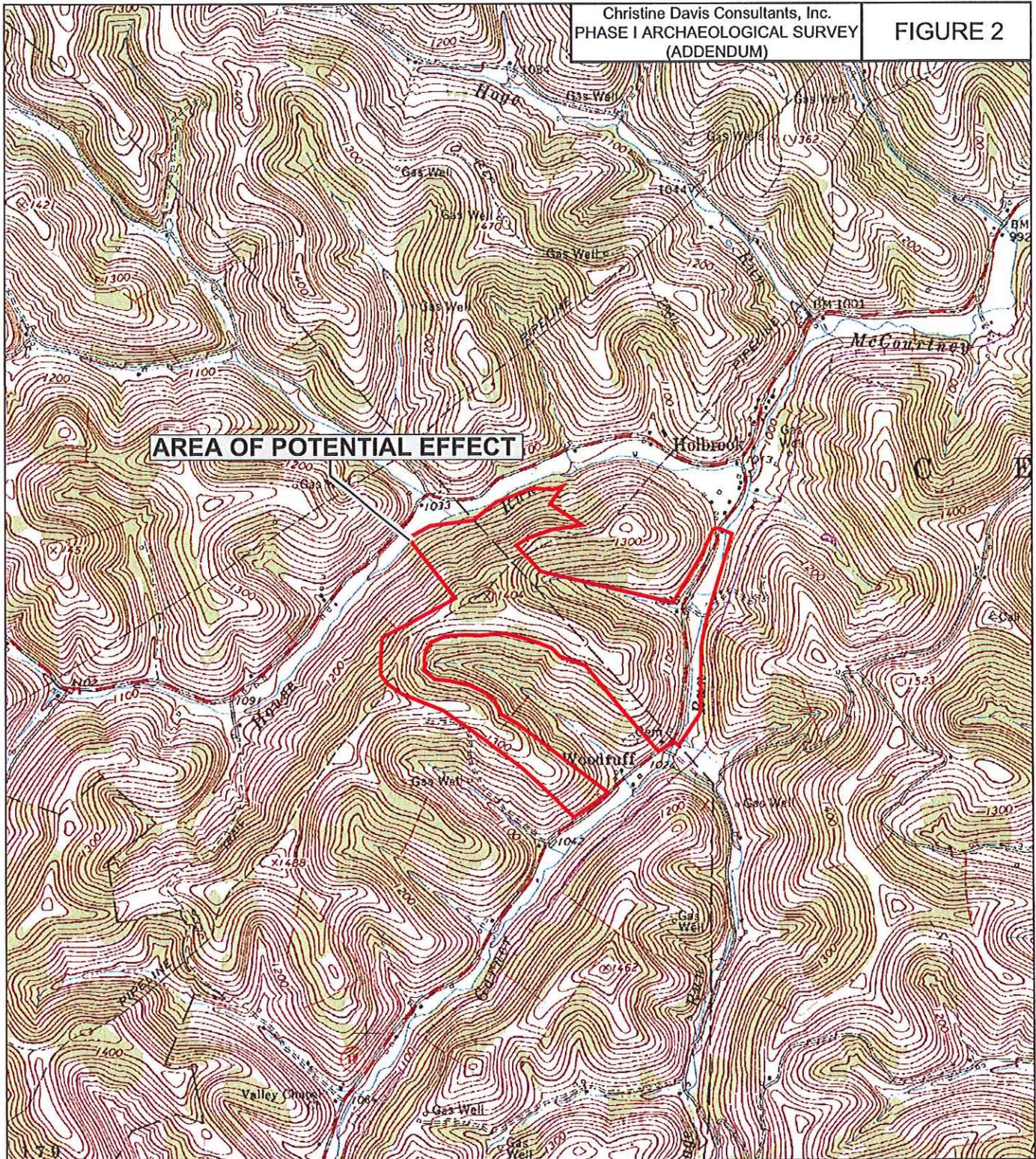
Phase I and II Cultural Resource Surveys were conducted for the proposed Foundation Mine: Water Impoundment Stockpile and Access Road project in Jackson and Center Townships, Greene County, Pennsylvania. Christine Davis Consultants, Inc. was retained by Foundation Mining, LLC to perform cultural resource investigations for the project. The sponsoring agency is the U. S. Army Corps of Engineers (CORPS).

The area of potential effect (APE) for the addendum survey is approximately 789,111 square (sq) meters (m) (8,494,200 sq feet (ft) or 195 acres (ac)). It is topographically situated in upland environments above Garner Run and its unnamed tributary within the Pittsburgh Plateaus Section of the Appalachian Plateaus Province physiographic province.

The field survey was conducted in winter, spring and summer of 2011. Phase I field methodology included surface surveillance and the excavation of shovel test probes (STPs) at 15 m and 5 m intervals. Approximately 105,097 sq m (1,131,253 sq ft or 26 ac) was tested; the remainder of the APE, involving approximately 684,014 sq m (7,362,947 sq ft or 169 ac), was not tested due to the presence of slopes greater than 15 percent and disturbances caused by the construction and realignment of S.R. 0018 and the construction of a gas pipeline, access roads, residential buildings, outbuildings, and an adjacent railroad.

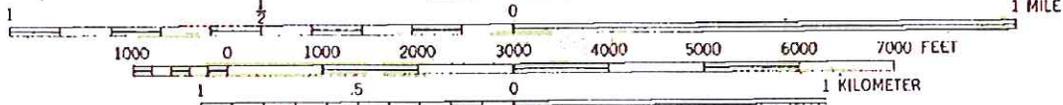
*Three historic archaeological sites, **Finch (36GR376)**, **Leonard/Woodruff Farmstead (36GR377)**, and **Weaver Store (36GR378)**, were identified within the APE. One Isolated Find (36GR/13) was also identified within the APE. Based on the results of the Phase I Archaeological Survey, Phase II Surveys were recommended for Finch, Leonard/Woodruff, and the Weaver Store sites. In addition, a Pennsylvania Historic Resource Survey (PHRS) form was completed for the Garner Farmstead located within the viewshed of the proposed undertaking. Neither the Weaver Store nor the Finch Site were recommended as eligible for the NRHP due to lack of archeological integrity.*

Based on the results of the Addendum Phase I and II Cultural Resource Surveys, Phase III Data Recovery is recommended for the Leonard/Woodruff Site.

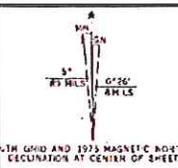
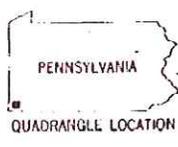


AREA OF POTENTIAL EFFECT

SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



REFERENCE:
USGS 7.5 MINUTE QUADRANGLE
HOLBROOK, PA 1964
PHOTOREVISED 1973

Area of Potential Effect (APE)
FOUNDATION MINE: WATER IMPOUNDMENT STOCKPILE
AND ACCESS ROAD
ER # 2007-0736-059 (ER# 2008-0315-059)
Center and Jackson Township, Greene County, PA

Area IV

CRDA R-3

**Addendum Report Abstract – Phase I/II Archaeological Survey –
February 2011 & October 2011
PHMC Response Letter – March 22, 2011**

Addendum Report

**PHASE I AND II ARCHAEOLOGICAL SURVEYS
AND
PHASE III DATA RECOVERY WORK PLAN**

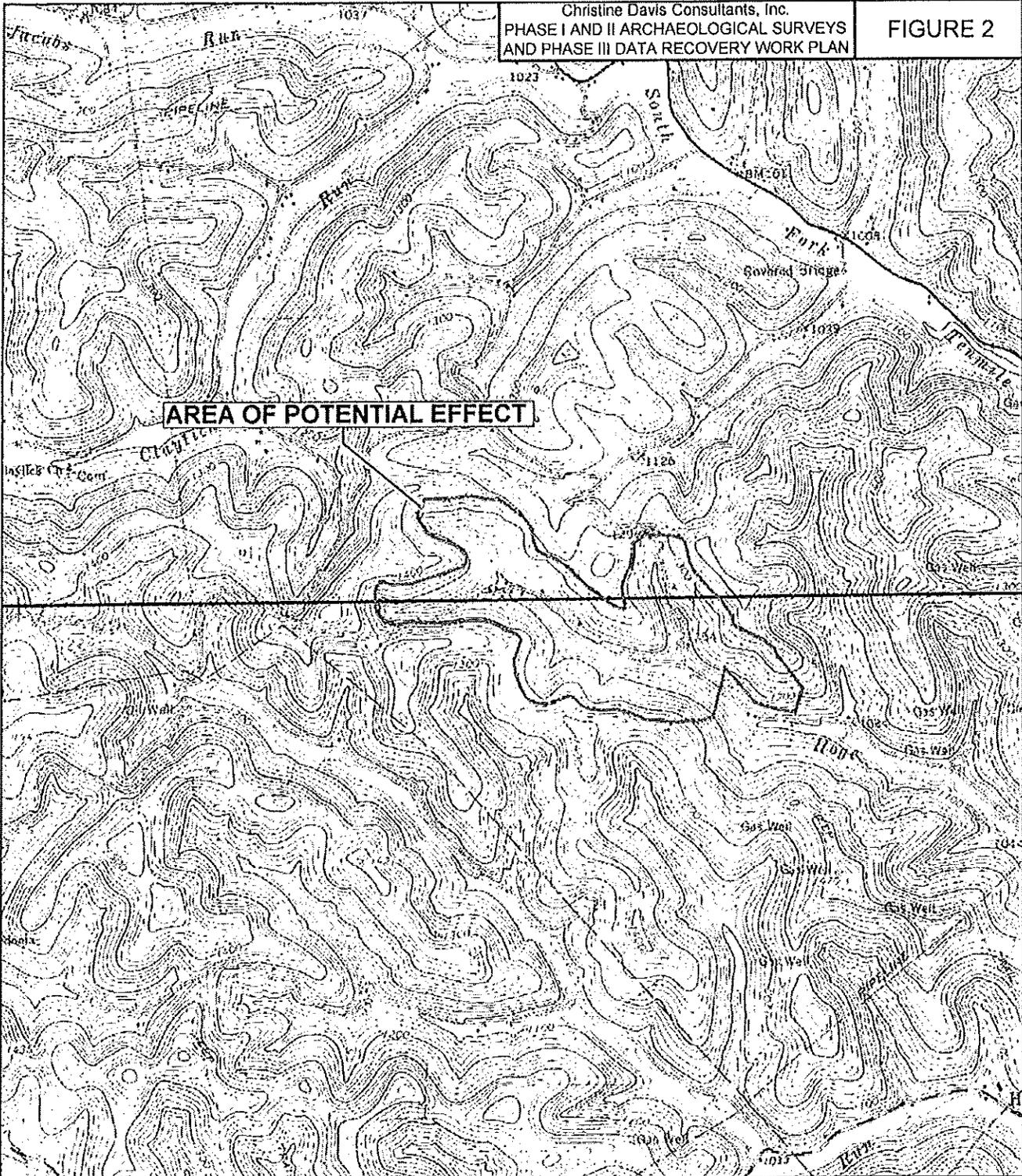
**FOUNDATION MINE:
REFUSE AREA R-3 AND POND
CENTER TOWNSHIP,
GREENE COUNTY, PENNSYLVANIA**

ER# 2007-0736-059

A cultural resource management report prepared for:

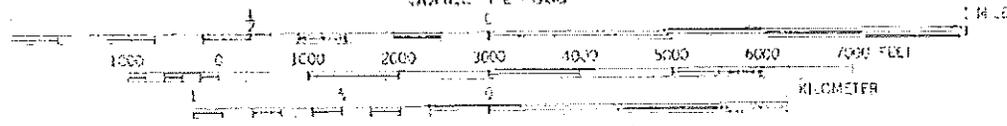
FOUNDATION MINING, LLC

February 2011



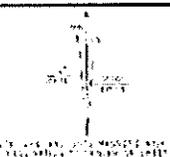
AREA OF POTENTIAL EFFECT

SCALE 1:24,000



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

PENNSYLVANIA
QUADRANGLE LOCATION



REFERENCE:
USGS 7.5 MINUTE QUADRANGLE
HOLBROOK, PA 1964
PHOTOREVISED 1973

Area of Potential Effect (APE)
FOUNDATION MINE - REFUSE AREA R3 AND POND
ER # 2007-0736-059 (ER# 2008-0315-059)
Center Township, Greene County, PA

ABSTRACT

A Phase I and II Archaeological Surveys and a Phase III Data Recovery Plan were completed for the proposed Foundation Mine: Refuse Area R-3 and Pond project in Center Township, Greene County, Pennsylvania. This survey was conducted as an addendum to the original Phase I Archaeological Survey and Determination of Eligibility completed by Christine Davis Consultants, Inc. (CDC). CDC was retained by Foundation Mine, LLC. to perform archaeological investigations for the project. The sponsoring agency is the U. S. Army Corps of Engineers (CORPS).

The area of potential effect (APE) for the Phase I Cultural Resource survey is approximately 938,840 square (sq) meters (m) (10,105,920 sq feet (ft) or 232 acres (ac)) located along Hoge Run. It is topographically situated on floodplain, terrace and upland environments associated Hoge Run.

The Phase I field survey for this portion of the APE was conducted in September and October of 2010. Phase I field methodology included surface surveillance and the excavation of shovel test probes (STPs) at 15m and 5 m intervals and the excavation of a test trench. Approximately 68,230 sq m (734,422 sq ft or 16.86 ac) were tested; the remainder of the APE, involving approximately 870,610 sq m (9,371,489 sq ft or 214.1 ac), was not tested due to slopes greater than 15 percent, wetland environments, and disturbances including construction of modern structures such as a large Quonset structure with associated gravel lot, gas pipelines, and deeply graded access roads. As a result of the Phase I Survey, five archaeological sites were recorded: Tilton Farmstead Site (36GR357), Tilton Cabin Site (36GR358), Mooreland School (36GR359), Samuel Moore Property (36GR367), and Hoge Loghouse Farmstead (36GR368).

CDC conducted Phase II Archaeological Surveys for Hoge Loghouse Farmstead (36GR368), Tilton Farmstead Site (36GR357), and Tilton Cabin Site (36GR358). Phase II field work for Hoge Loghouse Farmstead (36GR368) included close-interval STP excavation and plow zone stripping. Phase II field work for Tilton Farmstead Site (36GR357) included STPs at 15m and 5 m intervals, and 1 x 1 m unit excavations. Hoge Loghouse Farmstead (36GR368) and Tilton Farmstead Site (36GR357) are recommended as not eligible for the NRHP because they do not have the potential to yield significant new data. Phase II field work for Tilton Cabin Site (36GR358) included close-interval STPs, 1 x 1 m unit, and 2 x 2 m units excavations. Tilton Cabin Site (36GR358) is recommended as eligible for the NHRP under Criterion D.

Based on the results of the Phase I and II Archaeological Survey for the Foundation Mine, the Tilton Farmstead, Sam Moore Farmstead, Mooreland School and Hoge Loghouse Farmstead were recommended as not eligible for the NRHP. The Tilton Cabin Site (36GR358) was recommended as eligible for the NRHP and a Phase III Data Recovery Work Plan was prepared.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The proposed undertaking involves the development of the Foundation Mine: Refuse Area R-3 and Pond as part of the Foundation Mine in Center Township, Greene County, Pennsylvania. CDC was retained by Foundation Mining LLC of Waynesburg, Pennsylvania to perform cultural resource investigations for this project. The sponsoring agency is the CORPS.

The APE for the Foundation Mine: Refuse Area R-3 and Pond project involves approximately 938,840 square (sq) meters (m) (10,105,920 sq feet (ft) or 232 acres (ac)).

The field survey was conducted in the fall of 2010. Buildings older than 50 years of age were discovered within the APE and a *Determination of Eligibility Report* was prepared to be submitted as a stand-alone document (Davis 2011). Phase I field methodology consisted of surface surveillance and the hand excavation of a test trench and STPs at 15 m and 5 m intervals. A total of 870,610 sq m (9,371,489 sq ft or 214.1 ac), was not amenable for testing due to the presence of wetlands and steep slopes or disturbance caused by residential and agricultural development, construction of modern structures, gas pipelines, and deeply graded access roads.

The total tested area within the APE measured approximately 68,230 sq m (734,422 sq ft or 16.86 ac). During the Phase I and Phase II Surveys a total of 11 1 x 1 m units, one 2 x 2 m unit, one strip trench, one stripped area, and 401 STPs were hand-excavated, (including 216 STPs at 15 m intervals and 185 STPs at 5 m intervals). As a result of the Phase I Survey, five archaeological sites were recorded including three historic farmsteads, one historic cabin/prehistoric site, and one school house (Table 5).

TABLE 5
SITE RECOMMENDATIONS

SITE NAME	TYPE	PASS #	RECOMMENDATIONS
Tilton Farmstead	Farmstead	36GR357	Not eligible
Tilton Cabin	Cabin/ Prehistoric	36GR358	Eligible – Recommend Data Recovery
Mooreland School	School	36GR359	Not eligible
Samuel Moore Property	Residence	36GR367	Not eligible
Hoge Loghouse Farmstead	Farmstead	36GR368	Not eligible

Phase II Surveys were completed for Hoge Loghouse Farmstead (36GR368), Tilton Farmstead Site (36GR357), and Tilton Cabin Site (36GR358).

Two of the five historic archaeological sites were associated with extant farmstead buildings but very few artifacts were found in close-interval subsurface testing around these two sites. Although the number of artifacts found on the Tilton Farmstead was relatively high, the majority of artifacts related with recent refuse disposal. Only the Tilton Cabin contained extant features and a high density of artifacts. The presence of a single prehistoric component was unanticipated due to the size of the APE and the proximity to streams. However, floodplains within the APE proved to be very narrow and steep sided. Where terraces were found at stream confluences, construction of residential buildings, barns, and sheds had disturbed the landform's integrity. Peninsular uplands and saddles were characterized by shallow, eroded soils and proved to be narrower than they appeared on 7.5' topographic maps.

In conclusion, the results of this undertaking support our profession's hypotheses for site selection preferences. Deep, fertile soils on wide, level topographic settings have a very high probability of sites from all periods while narrow, steep-sided tributary valleys subject to flash floods have a very low probability of prehistoric sites. The rugged and deeply dissected hills and valleys in Central Greene County are far from the wide terraces and floodplains of major streams and their associated upland benches, saddles and peninsular flats with rich agricultural soils. Furthermore, the APE is not located on a known Indian trail. The Phase I Survey

confirmed the very low density of human habitation in this part of southwestern Pennsylvania from prehistoric times to the present.

Based on the results of the Phase I and II Archaeological Survey for the Foundation Mine, the Tilton Farmstead, Sam Moore Farmstead, Mooreland School and Hoge Loghouse Farmstead were recommended as not eligible for the NRHP. The Tilton Cabin Site (36GR358) was recommended as eligible for the NRHP and a Phase III Data Recovery Work Plan was prepared.



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

22 March 2011

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

TO EXPEDITE REVIEW USE
BHP TELEPHONE NUMBER

Re: ER# 2007-0736-059-ZZ and AAA
COALC: Phase I/II Archaeological Survey,
Foundation Mine, Refuse Area R3 and
Pond, Avoidance Plan for 36GR0318 and
36GR0344, Center Township, Greene
County

Dear Ms. Davis:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

This report meets our standards and specifications as outlined in *Guidelines for Archaeological Investigations in Pennsylvania* (BHP 2008) and the Secretary of the Interior's Guidelines for Archaeological Documentation. We agree with the recommendations of this report. It is our opinion that the Tilton Cabin Site (36GR0358) is eligible for the National Register. If the site cannot be avoided, additional Phase III investigation will be necessary to mitigate the adverse affect to this site. An effort to identify a federal (Army Corp of Engineers or Office of Surface Mining (OSM)) or state (DEP) agency for this project should be undertaken. Once an agency is identified, a federal Memorandum of Agreement (MOA) or state Memorandum of Understanding (MOU) should be prepared for mitigation of the effects to this and any other resources adversely affected by this project. The Phase III work plan should be presented as an appendix to the agreement document for review at that time.

It is our opinion that the Moorland School Site (36GR0359), the Samuel Moore Property (36GR0367), the Hoge Loghouse Farmstead (36GR0368), and the Tilton Farmstead (36GR0357) are not eligible for Criterion D for the National Register of Historic Places. The eligibility of these farmsteads under the other Criteria (A, B, and C) has been determined separately. Determinations of Eligibility for these criteria will be presented in a separate letter. No further

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3/22/2011
Ms. Davis

archaeological work is necessary for these site areas or the remainder of the Refuse Area R3 and Pond Project Area.

Thank you for submitting the Avoidance Plan as requested for sites 36GR0318 and 36GR0344. We concur with the plan as presented in your letter dated 10 February 2011. We look forward to reviewing the results of monitoring at these sites once construction is complete.

Please send three copies of the final report (one unbound and all with original photographs) for our files and distribution to the various repositories. If you need further information in this matter please consult Kira Heinrich at (717) 705-0700.

Sincerely,

A handwritten signature in black ink, appearing to read 'Douglas C. McLearen', with a long horizontal flourish extending to the right.

Douglas C. McLearen, Chief
Division of Archaeology &
Protection

DCM/kmh

PHASE I CULTURAL RESOURCE SURVEY:
ADDENDUM

**FOUNDATION MINE:
REFUSE AREA R-3 EXPANSION
CENTER TOWNSHIP, GREENE COUNTY,
PENNSYLVANIA**

ER# 2007-0736-059 (ER# 2008-0315-059)

A cultural resource management report prepared for:

FOUNDATION MINING, LLC

October 2011

ABSTRACT

An Addendum Phase I Cultural Resource Survey was conducted for the proposed Foundation Mine: Refuse Area R-3 Expansion project in Center Township, Greene County, Pennsylvania. Christine Davis Consultants, Inc. was retained by Foundation Mine, LLC to perform archaeological investigations for the project. The sponsoring agency is the U. S. Army Corps of Engineers (CORPS).

The area of potential effect (APE) for the Phase I Cultural Resource survey is approximately 390,522 square (sq) meters (m) (4,203,540 sq feet (ft) or 96.5 acres (ac)). It is topographically situated in an upland environment associated Hoge Run and its tributary streams within the Pittsburgh Plateaus Section of the Appalachian Plateaus Province.

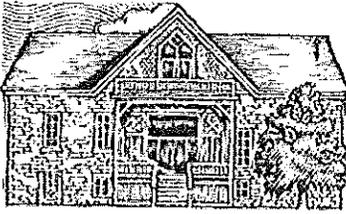
The Phase I field survey was conducted in September 2011. Phase I field methodology included surface surveillance and the excavation of shovel test probes (STPs) at 30 m, 15 m, and 5 m intervals. Approximately 93,887 sq m (1,010,588 sq ft or 23.2 ac) were tested; the remainder of the APE, involving approximately 296,635 sq m (3,192,952 sq ft or 73.3 ac), was not tested due to the presence of slopes greater than 15 percent and disturbances caused by the construction of farmsteads and Hoge Run and Covered Bridge Road. Two historic archaeological sites, David McQuay Farmstead and George Moore Farmstead were identified within the APE. Neither the David McQuay Farmstead nor the George Moore Farmstead were recommended as eligible for the National Register of Historic Places (NHRP) due to lack of integrity.

Based on the results of the Addendum Phase I Cultural Resource Survey, no further work is recommended for the Foundation Mine: Refuse Area R-3 Expansion project.

Area V

Water Supply Line & Water Intake

Negative Survey Form – August 24, 2011
PHMC Response Letter – September 26, 2011



Christine Davis Consultants

Archaeology and History
www.chrisdavis.net

Cider Mill of Pittsburgh • 560 Penn Street • Verona, Pennsylvania 15147 • 412.826.0443 • Fax 412.826-0458

August 24, 2011

Ms. Kira Heinrich
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093

Re: Water Supply Line and Intake Station
Center and Jackson Townships, Greene County, PA

Dear Ms. Heinrich:

Enclosed please find one copy (with original photographs) of the **Negative Survey Form** completed for the above referenced project for your comment and review.

Sincerely,

CHRISTINE DAVIS CONSULTANTS, INC.

Christine Davis
President

cc: 11-023



ER#	2008-2355-007
DATE	1/19/09

Negative Survey Form

(This form may be used if the Phase I guidelines have been followed and no cultural resources have been identified.)

1. Project Identification:

ER Number: 2007-0736-059/2008-0315-059

Project Name &/or Agency Tracking #: Water Supply Line and Intake Station

Agency: COAL **Applicant:** Alpha Natural Resources

Preparers Name and Affiliation: Christine Davis, Christine Davis Consultants, Inc.

Date Prepared: August 2011

Project Area County/Municipality (list all)

County	Municipality
Greene	Center and Jackson Townships

2. Project Setting: (check all that apply)

- urban/suburban; rural
 upland; floodplain/terrace (active; stable terrace)

7.5" USGS Quadrangle(s) Name (list all):

Name	Date
Holbrook, PA	1964 PR1973
Rogersville, PA	1964 R1994

Physiographic Zone(s)(list All. Use DCNR Map 13 compiled by W.D. Sevon, Fourth Edition, 2000.):

Physiographic Zone
Pittsburgh Plateaus Section of the Appalachian Plateaus Province

Project Area Drainage(s), (list all) (Sub-basin and Watershed can be obtained from CRGIS):

Sub-basin	Watershed	Major Stream	Minor Stream
19	B	Monongahela River	McCourtney Run

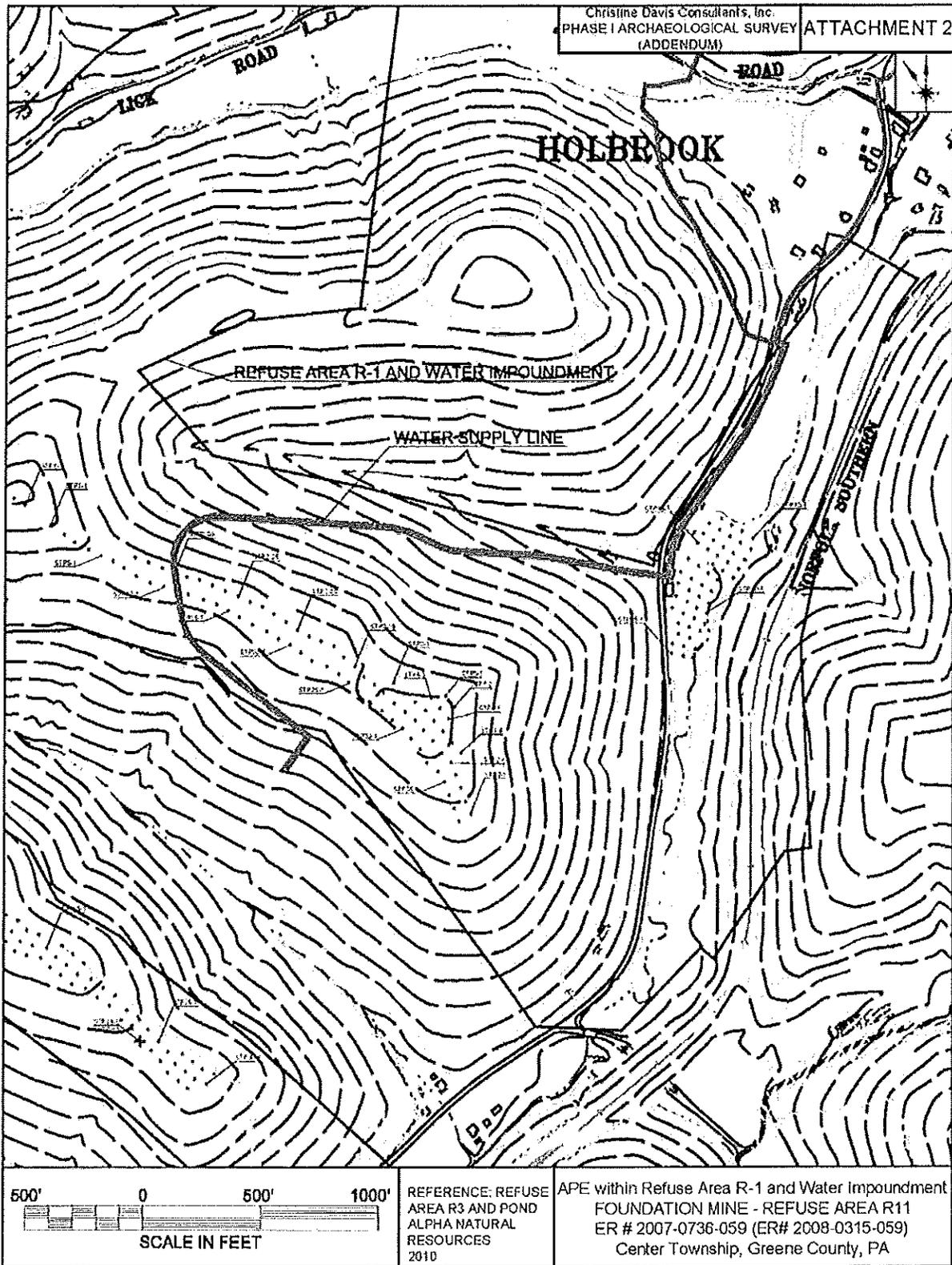
3. Basic Field Conditions:

(Text fields will expand as needed. Please be complete)

Area of APE / Project Area in Hectares: 7.9 **Hectares tested:** .04

General Description of APE / Project Area: The APE is located southwest of Rogersville along Tenmile Creek and McCourtney Run within Center and Jackson Townships, Greene County, Pennsylvania. The APE is situated within a variety of topographic settings associated with Tenmile Creek, McCourtney Run, and their tributary streams. The majority of the Water Supply Line and Intake Substation will be co-located within the previously cleared APE associated with the Foundation Mine: Holbrook Mine Domestic Sewage Collection, Treatment, and Disposal Project (Davis et.al. 2010). A southern portion of the proposed Water Supply Line will be installed within an area previously cleared for the Foundation Mine: Water Impoundment Project (Davis et.al. 2010) and the Original Foundation Mine Project (Davis et.al.

ATTACHMENT 2: PROJECT MAP SHOWING TESTING STRATEGY(IES)





Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

26 September 2011

Christine Davis
Christine Davis Consultants
560 Penn Street
Verona, PA 15147

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER# 2007-0736-059-CCC
COALC: Negative Survey Form, Water
Supply Line and Intake Station, Foundation
Mine, Center Township, Greene County

Dear Ms. Davis:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

This report meets our standards and specifications as outlined in *Guidelines for Archaeological Investigations in Pennsylvania* (BHP 2008) and the Secretary of the Interior's Guidelines for Archaeological Documentation. We agree with the recommendations of this report and in our opinion no further archaeological work is necessary for this project.

Please send three copies of the final report (one unbound and all with original photographs) for our files and distribution to the various repositories. If you need further information in this matter please consult Kira Heinrich at (717) 705-0700.

Sincerely,

Douglas C. McLearn, Chief
Division of Archaeology &
Protection

DCM/kmh

Area VI

CRDA CR-1B & Sewickley Area

Addendum Report Abstract – Phase I/II Archaeological Survey – September 2011

PHASE I CULTURAL RESOURCE SURVEY
PHASE II SUMMARY: HOUSE RUN SITE
(36GR373)

**FOUNDATION MINE:
REFUSE AREA R-1, REFUSE POND, AND
SEWICKLEY PAD
JACKSON AND CENTER TOWNSHIPS,
GREENE COUNTY, PENNSYLVANIA**

ER# 2007-0736-059

A cultural resource management report prepared for:

FOUNDATION MINING, LLC

September 2011

ABSTRACT

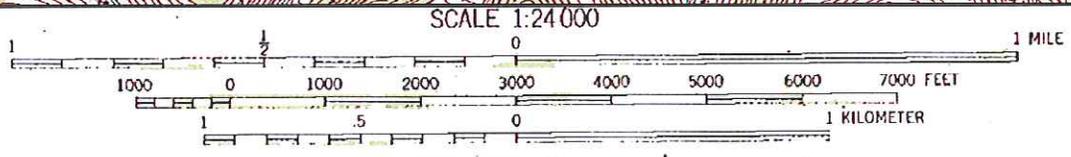
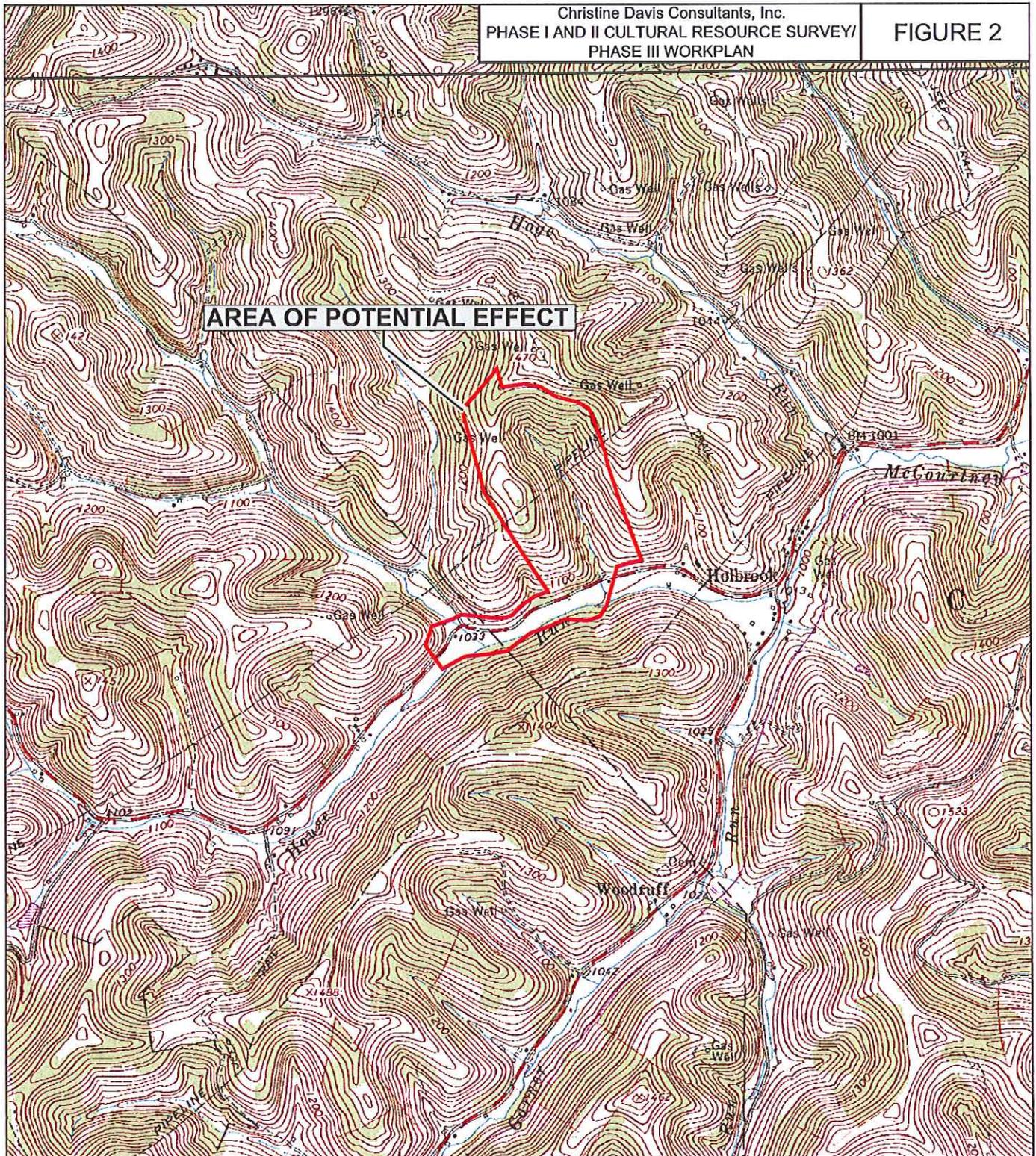
Phase I Cultural Resource Survey and Phase II Summary: House Run Site were conducted for the proposed Foundation Mine: Refuse Area R-1, Refuse Pond, and Sewickley Pad project in Jackson and Center Townships, Greene County, Pennsylvania. Christine Davis Consultants, Inc. was retained by Foundation Mine, LLC. to perform archaeological investigations for the project. The sponsoring agency is the U. S. Army Corps of Engineers (CORPS).

The area of potential effect (APE) for the Phase I Cultural Resource survey is approximately 553,610 square (sq) meters (m) (5,959,008 sq feet (ft) or 136.8 acres (ac)). It is topographically situated on floodplains and upland environments associated House Run within the Pittsburgh Plateaus Section of the Appalachian Plateaus Province.

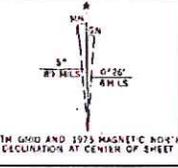
*The Phase I field survey was conducted in the winter, spring and summer of 2011. Phase I field methodology included surface surveillance and the excavation of shovel test probes (STPs) at 15 m and 5 m intervals. Approximately 712,206 sq m (66,166 sq ft or 16.3 ac) were tested; the remainder of the APE, involving approximately 487,444 sq m (5,246,802 sq ft or 120.5 ac), was not tested due to the presence of slopes greater than 15 percent and disturbances caused by the construction of Deer Lick Road, several farmsteads, multiple gas pipeline rights-of-way (ROW), access roads, and driveways. Three archaeological sites, **House Run (36GR373)**, **Chapon Property (36GR374)**, and **Wood Farmstead (36GR375)**, were identified within the APE. Neither the Chapon Property Site nor the Wood Farmstead Site were recommended as eligible for the National Register of Historic Places (NHRP) due to lack of integrity. A Phase II Survey was recommended for the House Run Site.*

In addition, Pennsylvania Historic Resource Survey forms and/or Farmstead Information forms were completed for the Chapon Property and the Wood Farmstead and each was evaluated for NRHP. Neither is recommended as eligible due to lack of integrity.

Based on the results of the Addendum Phase I and II Cultural Resource Surveys, a Phase III Data Recovery is recommended for House Run (36GR373).



SCALE 1:24 000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



REFERENCE:
USGS 7.5 MINUTE QUADRANGLE
HOLBROOK, PA 1964
PHOTOREVISED 1973

Area of Potential Effect (APE)
FOUNDATION MINE: REFUSE AREA R-1
REFUSE POND AND SEWICKLEY PAD
ER # 2007-0736-059 (ER# 2008-0315-059)
Center and Jackson Township, Greene County, PA