

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name John Carter

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1432 Garrets Bend Road

City Sod State WV ZIP Code 25564

FOR INSURANCE COMPANY USE

Policy Number:

Company NAIC Number:

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential

A5. Latitude/Longitude: Lat. 38.30038 Long. -81.91851 Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 8

A8. For a building with a crawlspace or enclosure(s):

- a) Square footage of crawlspace or enclosure(s) 1539 sq ft
- b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A8.b 0 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:

- a) Square footage of attached garage 809 sq ft
- b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A9.b 0 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
Lincoln County 540088

B2. County Name
Lincoln

B3. State
West Virginia

B4. Map/Panel Number
54043C120

B5. Suffix
D

B6. FIRM Index Date

B7. FIRM Panel
Effective/Revised Date
10-16-2013

B8. Flood
Zone(s)
A

B9. Base Flood Elevation(s) (Zone
AO, use base flood depth)
*687.5

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in item B9.

☐ FIS Profile ☐ FIRM ☐ Community Determined ☒ Other/Source: mapwv.gov/flood

B11. Indicate elevation datum used for BFE in item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?

Designation Date: _____ ☐ CBRS ☐ OPA ☐ Yes ☒ No

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/AE, AR/AH, AR/AO. Complete items C2.a-h below according to the building diagram specified in item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: Local BM set with GPS

Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below. ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 682.4 ☒ feet ☐ meters
- b) Top of the next higher floor 688.4 ☒ feet ☐ meters
- c) Bottom of the lowest horizontal structural member (V Zones only) _____ ☐ feet ☐ meters
- d) Attached garage (top of slab) 685.3 ☒ feet ☐ meters
- e) Lowest elevation of machinery or equipment servicing the building 686.1 ☒ feet ☐ meters
(Describe type of equipment and location in Comments)
- f) Lowest adjacent (finished) grade next to building (LAG) 682.4 ☒ feet ☐ meters
- g) Highest adjacent (finished) grade next to building (HAG) 685.3 ☒ feet ☐ meters
- h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support _____ ☐ feet ☐ meters

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available.

I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

☒ Check here if comments are provided on back of form.

Were latitude and longitude in Section A provided by a
licensed land surveyor? ☐ Yes ☒ No

☒ Check here if attachments.

Certifier's Name Richard E. Kinder Jr.

License Number 1956

Title Vice President

Company Name Eagle Surveying Inc.

Address 1266 Berry Hills Drive

City Charleston

State WV ZIP Code 25314

Signature

Date 02-18-2014

Telephone 304-744-6190



ELEVATION CERTIFICATE, page 2**IMPORTANT: In these spaces, copy the corresponding information from Section A.**Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1432 Garretts Bend Road

City Sod

State WV

ZIP Code 25564

FOR INSURANCE COMPANY USE

Policy Number:

Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments See map for house location and ground shots.

Signature

Date 02-18-2014

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.**SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address

City

State

ZIP Code

Signature

Date

Telephone

Comments

☐ Check here if attachments.**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

G7. This permit has been issued for: ☐ New Construction ☐ Substantial ImprovementG8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name

Title

Community Name

Telephone

Signature

Date

Comments

☐ Check here if attachments.

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
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A1. Building Owner's Name John Carter

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1432 Garrets Bend Road

Company NAIC Number:

City Sod

State WV

ZIP Code 25564

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A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential

A5. Latitude/Longitude: Lat. 38.30038 Long. -81.91851 Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 8

A8. For a building with a crawlspace or enclosure(s):

- a) Square footage of crawlspace or enclosure(s) _____ sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____
c) Total net area of flood openings in A8.b _____ sq in
d) Engineered flood openings? ☐ Yes ☐ No

A9. For a building with an attached garage:

- a) Square footage of attached garage _____ sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____
c) Total net area of flood openings in A9.b _____ sq in
d) Engineered flood openings? ☐ Yes ☐ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
Lincoln County 540088

B2. County Name
Lincoln

B3. State
West Virginia

B4. Map/Panel Number
54043C120

B5. Suffix
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B6. FIRM Index Date

B7. FIRM Panel
Effective/Revised Date
10-16-2013

B8. Flood
Zone(s)
A

B9. Base Flood Elevation(s) (Zone
AO, use base flood depth)
*687.5

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

- ☐ FIS Profile ☐ FIRM ☐ Community Determined ☒ Other/Source: mapwv.gov/flood

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929

☒ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?

Designation Date: _____ ☐ CBRS ☐ OPA ☐ Yes ☒ No

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: Local BM set with GPS

Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- | | | |
|---|--------------|--|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>682.4</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>688.4</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | _____ | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>685.3</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | <u>686.1</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>682.4</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>685.3</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | _____ | <input type="checkbox"/> feet <input type="checkbox"/> meters |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

- ☒ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a
☒ Check here if attachments. licensed land surveyor? ☐ Yes ☒ No

Certifier's Name Richard E. Kinder Jr.

License Number 1956

Title Vice President

Company Name Eagle Surveying Inc.

Address 1266 Berry Hills Drive

City Charleston

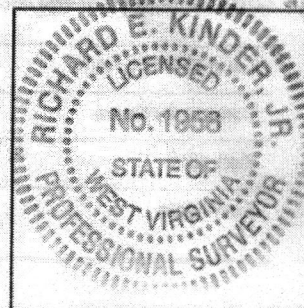
State WV

ZIP Code 25314

Signature

Date 02-18-2014

Telephone 304-744-6190



IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1432 Garretts Bend Road

City Sod

State WV

ZIP Code 25564

FOR INSURANCE COMPANY USE

Policy Number:

Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments See map for house location and ground shots.

Signature

Date 02-18-2014

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address

City

State

ZIP Code

Signature

Date

Telephone

Comments

☐ Check here if attachments

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number

G5. Date Permit Issued

G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name

Title

Community Name

Telephone

Signature

Date

Comments

☐ Check here if attachments

The County of Lincoln

Office of Floodplain Management

P.O. Box 497

Hamlin, West Virginia 25523

{304} 824-1100

FAX NO: [304]824-1102

Fax Transmission

Date: 3-11-14

To: Roger Vickers

From: Guy Browning

RE: John Carter

Message: This is the Community Letter for
the approval of the (BFE) for John Carter

2 Pages Including Cover Sheet

Lincoln County Commission
Lincoln County

COUNTY COMMISSIONERS

K K MATTHEWS, President
CHARLES VANCE
CHARLES McCANN

P.O. Box 497
Hamlin, West Virginia 25623
(304) 824-7990 ext. 221
FAX: (304) 824-2444

MARY NAPIER
ADMINISTRATIVE
ASSISTANT

March 11, 2014

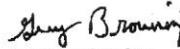
NFIP
PO Box 2965
Shawnee Mission KS 66201

Dear Sirs.

After review of the Elevation Certificate prepared by Eagle Surveying Inc. and the method used to develop a Base Flood Elevation (BFE) of 687.5 for the property located at 1432 Garrettsbend Road Sod WV 25564. In the name of John & Nancy Carter. I have determined as the Floodplain Coordinator for the community of Lincoln County, West Virginia, this to be an acceptable Base Flood Elevation (BFE).

If you should have any further questions concerning this matter contact my office Monday thru Thursday 7:00 am until 4:30 pm at 304-824-1100.

Sincerely,


Guy Browning, CFM
Floodplain Coordinator

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

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FOR INSURANCE COMPANY USE

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A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

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a) Square footage of crawlspace or enclosure(s) 1539 sq ft

b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0

c) Total net area of flood openings in A8.b 0 sq in

d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:

a) Square footage of attached garage 809 sq ft

b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0

c) Total net area of flood openings in A9.b 0 sq in

d) Engineered flood openings? ☐ Yes ☒ No

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54043C120

B5. Suffix
D

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10-16-2013

B8. Flood Zone(s)
A

B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
*687.5

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in item B9.

☐ FIS Profile ☐ FIRM ☐ Community Determined ☒ Other/Source: mapwv.gov/flood

B11. Indicate elevation datum used for BFE in item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?

Designation Date: _____ ☐ CBRS ☐ OPA ☐ Yes ☒ No

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Vertical Datum: NAVD 1988

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Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 682.4

☒ feet ☐ meters

b) Top of the next higher floor 688.4

☒ feet ☐ meters

c) Bottom of the lowest horizontal structural member (V Zones only) _____

☐ feet ☐ meters

d) Attached garage (top of slab) 685.3

☒ feet ☐ meters

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☒ feet ☐ meters

f) Lowest adjacent (finished) grade next to building (LAG) 682.4

☒ feet ☐ meters

g) Highest adjacent (finished) grade next to building (HAG) 685.3

☒ feet ☐ meters

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☐ feet ☐ meters

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☒ Check here if comments are provided on back of form.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☒ No

☒ Check here if attachments.

Certifier's Name Richard E. Kinder Jr.

License Number 1956

Title Vice President

Company Name Eagle Surveying Inc.

Address 1266 Berry Hills Drive

City Charleston

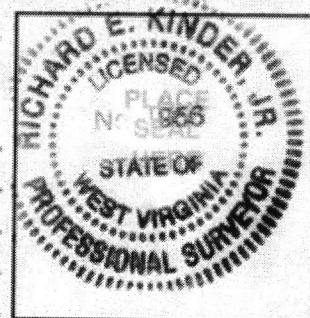
State WV

ZIP Code 25314

Signature

Date 02-18-2014

Telephone 304-744-6190



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Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments See map for house location and ground shots.

Signature

Date 02-18-2014

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For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.**SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address

City

State

ZIP Code

Signature

Date

Telephone

Comments

☐ Check here if attachments.**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

G7. This permit has been issued for: ☐ New Construction ☐ Substantial ImprovementG8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name

Title

Community Name

Telephone

Signature

Date

Comments

☐ Check here if attachments.

IMPORTANT: In these spaces, copy the corresponding information from Section A.		FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1432 Garretts Bend Road		Policy Number:
City Sod	State WV ZIP Code 25564	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments See map for house location and ground shots.

Signature

Date 02-18-2014

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy issued
-------------------	------------------------	---

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

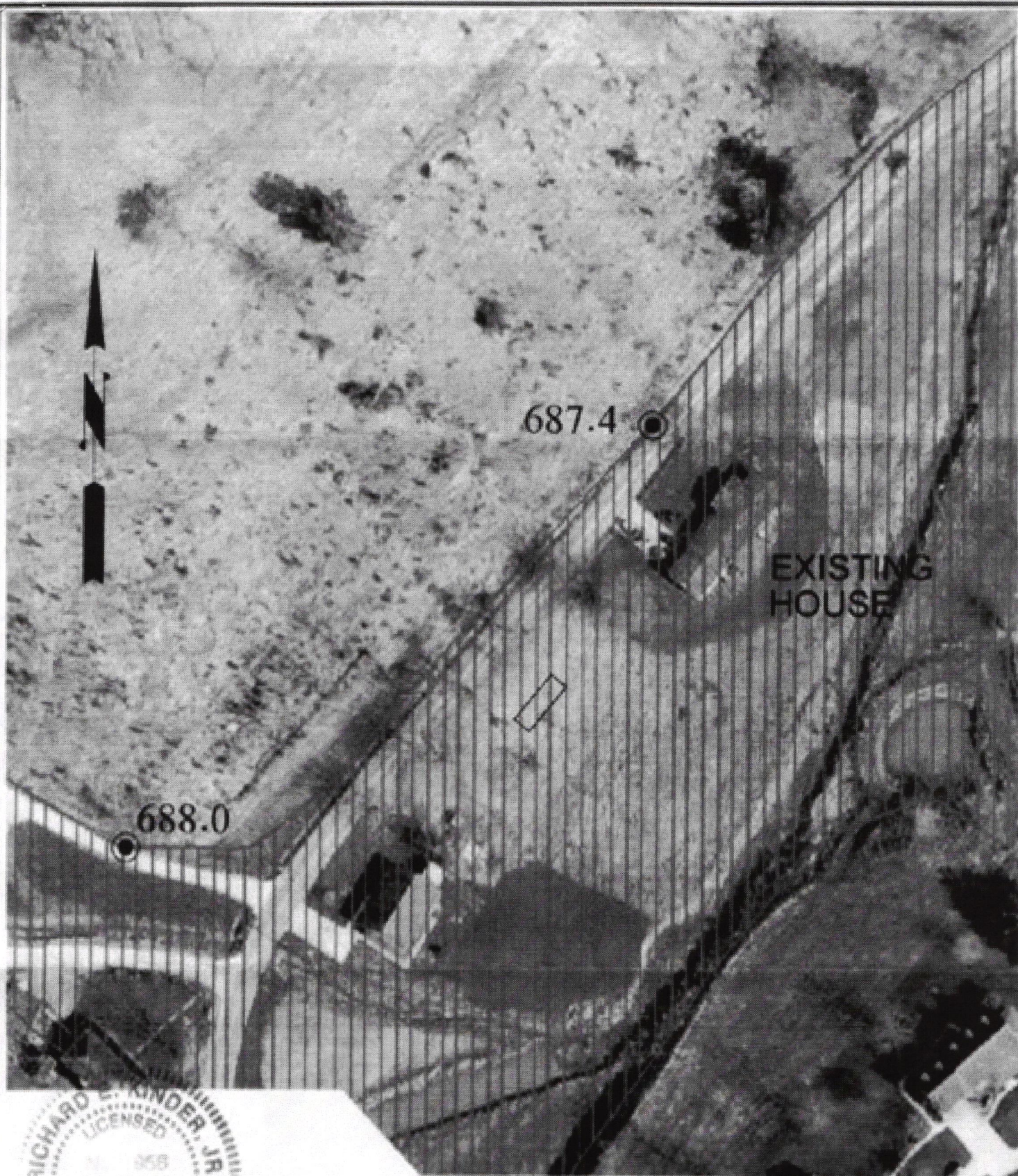
Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments



EAGLE SURVEYING, INC

1255 BERRY HILLS DRIVE
CHARLESTON, WEST VIRGINIA 25314
PH. (304) 744-8190

PLAT SHOWING
**ELEVATION SHOTS FOR
JOHN CARTER**

SITUATE ON GARRETT'S BEND ROAD
LINCOLN COUNTY WEST VIRGINIA
SCALE: 1" = 100' FEBRUARY 17, 2014

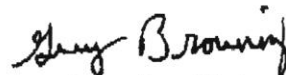
NFIP
PO Box 2965
Shawnee Mission KS 66201

Dear Sirs.

After review of the Elevation Certificate prepared by Eagle Surveying Inc. and the method used to develop a Base Flood Elevation (BFE) of 687.5 for the property located at 1432 Garrettsbend Road Sod WV 25564. In the name of John & Nancy Carter. I have determined as the Floodplain Coordinator for the community of Lincoln County, West Virginia, this to be an acceptable Base Flood Elevation (BFE).

If you should have any further questions concerning this matter contact my office Monday thru Thursday 7:00 am until 4:30 pm at 304-824-1100.

Sincerely,

A handwritten signature in black ink that reads "Guy Browning". The signature is written in a cursive, flowing style.

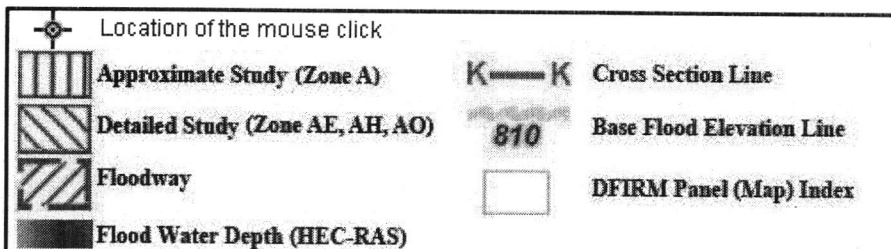
Guy Browning, CFM
Floodplain Coordinator

Lincoln County Farmers Market



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map Created on 9/3/2014



User Notes:

Address: in between 512 and 502 Midway Rd, Alum Creek, WV

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center
(<http://www.MapWV.gov/flood>)

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: A

Advisory Flood Height: N/A

Water Depth: N/A

Elevation: About 700 feet

Location (long, lat): 81.845760 W, 38.258485 N

Location (UTM 17N): (426005, 4234833)

FEMA Issued Flood Map: 54043C0140D

Contacts: Lincoln County

CRS Information: N/A

Flood Profile: No Profile

HEC-RAS Model: No Model

Parcel Number:



US Army Corps
of Engineers.

HUNTINGTON DISTRICT, US ARMY CORPS OF ENGINEERS FLOODPLAIN MANAGEMENT SERVICES

502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701
1-866-401-3980 Email: foms-lrh@usace.army.mil
14 August 2014 1:25:02 PM

ID:	1408-1308-1831	DATE IN:	8/13/2014	DATE OUT:	8/13/2014
CONTACT:	Thomas Adams	STATE:	WV		
INTEREST:	Owner and/or Individual	COUNTY:	Lincoln		
PHONE:	304-624-4108	LAT:	38.25849		
REQUEST:	Base Flood Elevation - GIS	LON:	-81.84578		
LOCATION:	Midway Rd, Alum Creek, WV 25003				
EXCEPTION:	None noted				

RESPONSE

ISSUED BFE:
695.7 EL FT (NAVD88)

CALCULATIONS:

State of West Virginia, 2003, 1/9-Arc Second National Elevation Dataset, seamless download, <http://nationalmap.usgs.gov>. North American Vertical Datum of 1988 meters converted to feet by multiplying values by 3.2808399.

Drainage Basin - 1.81 SQ MI
NSS Crippen & Bue Flood Region "4"
NSS WV "Western"
PK100: 831.0 CFS

EG Slope: 0.004274298
Mannings N
Left Channel Bank: 0.05
Channel: 0.04
Right Channel Bank: 0.10

WS EL. 695.74

The information provided in this letter reflects FEMA National Flood insurance Program standards. It is recommended that the local floodplain coordinator be contacted for information concerning local policies. Property was located using aerial photography and coordinates provided by property owner.



US Army Corps
of Engineers.

HUNTINGTON DISTRICT, US ARMY CORPS OF ENGINEERS FLOODPLAIN MANAGEMENT SERVICES

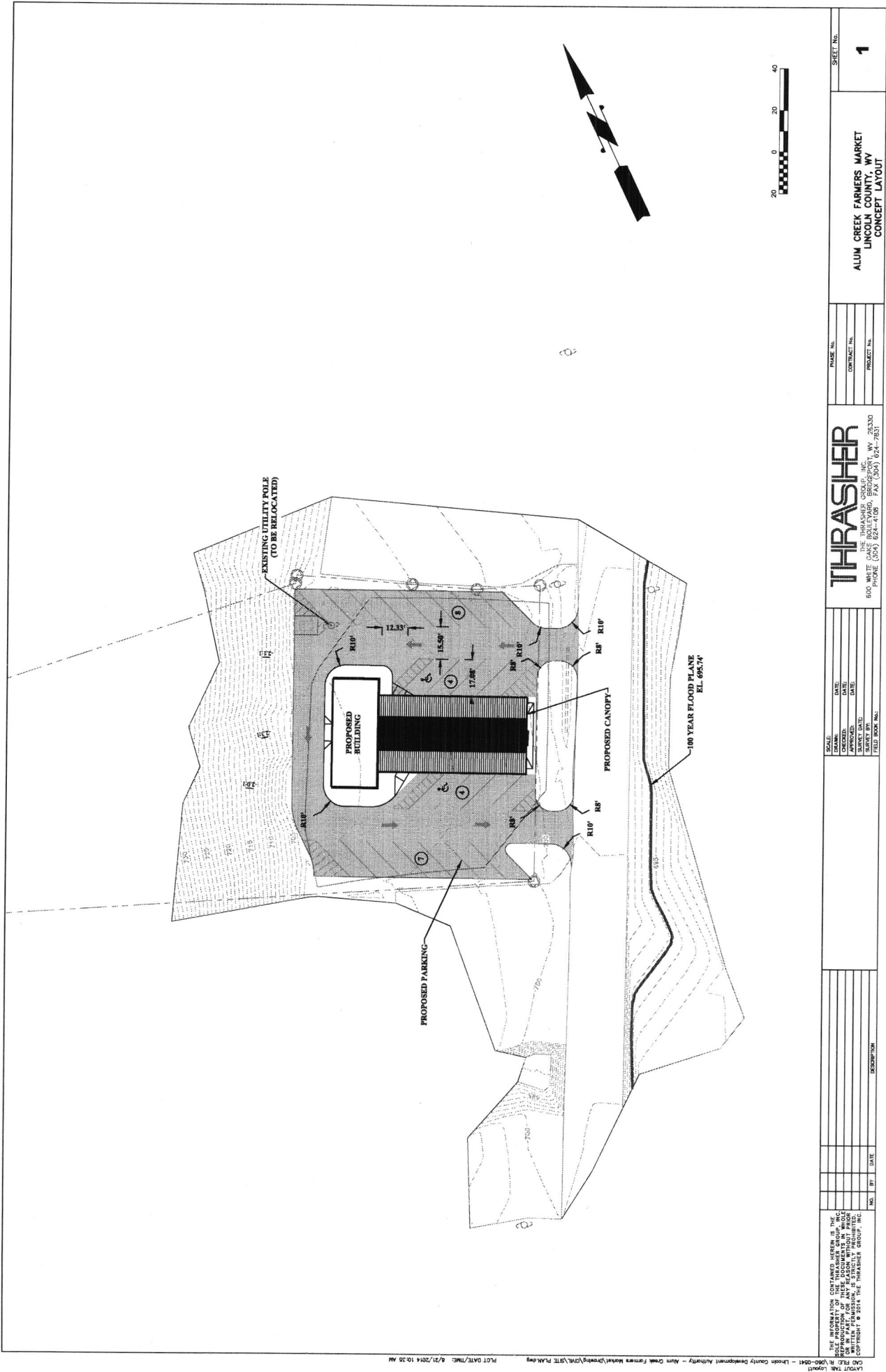
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701
1-866-401-3980 Email: foms-lrh@usace.army.mil
14 August 2014 1:25:02 PM

CONFIDENTIAL PRIVILEGED INFORMATION: The information contained in this communication is confidential and/or privileged, proprietary information that is transmitted solely for the purpose of the intended recipient(s). If the reader of this message is not an intended recipient, or if this message has been inadvertently directed to your attention, you are hereby notified that you have received this communication and any attached document(s) in error, and that any review, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately and destroy all copies of the original communication.

The information obtained from this office is authorized in support of the Federal Emergency Management Agency's (FEMA) National Flood Insurance Program (NFIP) and is authorized by ER 1105-2-100: Planning Guidance Notebook. This information is considered provisional and/or the "best available data" and may be subject to revision. The data is released on the condition that neither the US Army Corps of Engineers nor the United States Government may be held liable for any damages resulting from its use.

Sincerely,

Amy K. Frantz
Chief, Planning Branch



THRASHER

THE THRASHER GROUP, INC.
800 WHITE OAK BOULEVARD, BRIDGEPORT, WV 26330
PHONE (304) 624-1100 FAX (304) 624-7831

SCALE	DATE
OWNER	DATE
DESIGNER	DATE
APPROVED	DATE
SHEET BY	DATE
TITLE BLOCK NO.	

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

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US Army Corps
of Engineers.

HUNTINGTON DISTRICT, US ARMY CORPS OF ENGINEERS
FLOODPLAIN MANAGEMENT SERVICES

502 EIGHTH STREET

HUNTINGTON, WEST VIRGINIA 25701

1-866-401-3980 Email: fpms-lrh@usace.army.mil

15 August 2014 3:39:23 PM

REFERENCE NUMBER:

1408-1308-1831

REQUEST TYPE:

Base Flood Elevation - GIS

REQUEST POINT OF CONTACT:

Thomas Adams

CHECK RECEIVED AT:

US Army Corps of Engineers
Attn: Planning Branch - FPMS
502 8th Street
Huntington, WV 25701

NOTE:

Check was delivered to "FAO Huntington District COE"
and response has been emailed/delivered to contact.
This request was in support of the Federal Emergency Management
Agency's (FEMA) National Flood Insurance Program (NFIP)
as authorized by ER 1105-2-100: Planning Guidance Notebook

TOTAL PAID:

\$125.00

Sincerely,

Amy K. Frantz
Chief, Planning Branch



U.S. Army Corps of Engineers, Huntington District
Attention: CELRH-OR-F
502 Eighth Street
Huntington, WV 25701-2070

RE: Well 804417 Work Over Maintenance Project, Lincoln County, WV
Pre-construction Notification for NEPA Review

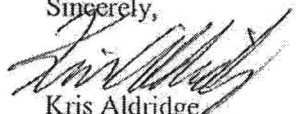
Dear Sir/Madam:

Chesapeake Appalachia, L.L.C. (CHK) respectfully submits the enclosed Application for Department of the Army Permit package for the purpose of upgrading an existing drive-thru creek crossing in Mud River and installing a permanent culvert in an unnamed tributary to the Mud River in Lincoln County, WV.

The project meets the conditions of NWP 14 and its associated 401 Water Quality Certification.

Please contact Eric Gillespie (304) 353-5260, ext. 35206 or eric.gillespie@chk.com if there are any questions regarding the permit application or project.

Sincerely,


Kris Aldridge
Construction Foreman

Enclosures: Dept. of the Army application, site location map, site photographs, site plan.

**U.S. ARMY CORPS OF ENGINEERS
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT**
33 CFR 325. The proponent agency is CECW-CO-R.

*Form Approved -
OMB No. 0710-0003
Expires: 31-AUGUST-2013*

Public reporting for this collection of information is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters, Executive Services and Communications Directorate, Information Management Division and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
--------------------	----------------------	------------------	------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Kris Middle - Last - Aldridge Company - Chesapeake Appalachia, L.L.C. E-mail Address - kris.aldridge@chk.com		8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Middle - Last - Company - E-mail Address -	
6. APPLICANT'S ADDRESS: Address- 8165 Court Avenue, P.O. Box 579 City - Hamlin State - WV Zip - 25523 Country -		9. AGENT'S ADDRESS: Address- City - State - Zip - Country -	
7. APPLICANT'S PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax 304-539-1066 304-824-5141x82604 304-824-2247		10. AGENTS PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax	

STATEMENT OF AUTHORIZATION

11. I hereby authorize, _____ to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

SIGNATURE OF APPLICANT

DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Well 804417 -- Work Over Maintenance	
13. NAME OF WATERBODY, IF KNOWN (if applicable) Mud River	14. PROJECT STREET ADDRESS (if applicable) Address City - State - Zip -
15. LOCATION OF PROJECT Latitude: N 38.175967 Longitude: W -82.079139	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) State Tax Parcel ID Municipality Section - Township - Range -	

17. DIRECTIONS TO THE SITE

Turn left toward US-119 S for 13 miles. Turn right at Starlight Drive. Continue straight onto WV-214 S/Childress Road/Midway Road. Continue onto WV-3 W for 2.7 miles. Turn left onto Sugar Tree Road. Take a Slight right onto Sycamore Fork Road. Continue onto Sycamore Road. Turn right onto Mud River Road/Upper Mud River Road. Then turn left onto Bellomy Road. See site location map.

18. Nature of Activity (Description of project, include all features)

See Supplemental Information Attachment Item 18.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

See Supplemental Information Attachment Item 19.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Placement of durable stone fill to stabilize and reduce erosion from the existing stream crossing of the Mud River and placement of a permanent 20 foot by 36 inch culvert of an Unnamed Tributary to Mud River to gain access to well pad.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
26 CY Durable Stone		

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres 0.013 acres within Mud River and an Unnamed Tributary.

or

Linear Feet 42 feet

23. Description of Avoidance, Minimization, and Compensation (see instructions)

See Supplemental Information Attachment Item 23.

24. Is Any Portion of the Work Already Complete? ☐ Yes ☒ No IF YES, DESCRIBE THE COMPLETED WORK

No work has been started for this project.

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- Gary Moore 138 Bellomy Rd.

City - Branchland State - WV Zip - 25508

b. Address- David Sias P.O Box 484

City - Branchland State - WV Zip - 25508

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
WVDEP	Stimulation Permit	47-043-02056			
WVDNR	Stream Activity		2014-08-07		

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF AGENT

DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Army Corps of Engineers Application

Supplemental Information Attachment

Well 804417 Work Over

Attachments:

Item 18:

This well is scheduled as a work over; the well is a deep formation producing well that is no longer productive. In order to maximize production, the well will be stimulated from a shallower zone. There is one low water crossing of the Mud River that will require a stoned drive through crossing; a 20 foot by 36 inch culvert will also be needed for an unnamed tributary crossing in order to access the well pad. Mud River is classified as a "no take" mussel stream by West Virginia State. A minimal amount of fill will be used and the water will not be diverted and the flow will not be restricted. The well site is located off Bellomy Road in Lincoln County, West Virginia. Coordinates for the approximate center of the Mud River crossing are 38.175967° N and 82.079139° W.

The stoned drive through crossing will be upgraded from the current condition with a stoned approach at both stream banks into the cobble/gravel bottom of Mud River by placing minimal fill material, composed of limestone gravel, below the ordinary high water (OHW) mark. Attached to this application is a summary of current conditions for the stream as delineated by Terradon Corporation. The summary of current conditions details the type and total amount of fill proposed. All temporary sediment control structures will be removed upon reclamation. All stone to be used to upgrade and stabilize the existing crossing will remain in place upon completion of the project.

The project will not result in the loss of greater than 1/10 acres of wetland or waters of the US, and therefore no mitigation will be provided with this notification.

The Mud River is a state designated stream to have known mussel populations which are established as a protected "no take" species by West Virginia state. A preliminary mussel survey was conducted during a site reconnaissance by Terradon Corporation on May 6, 2014 and no mussels were found within the historic stream crossing limits of disturbance (LOD) at that time. No Federally listed threatened or endangered species or habitat is within the project area. During the proposed project work, if any muscles are encountered, all work will be stopped and the WVDNR Wildlife Resources Section, Wildlife Diversity Program will be notified. The project, as designed, requires no disturbance of the areas beyond the previously disturbed area during original construction of the gas well. The proposed stream crossing is previously disturbed area, thus the impacts to the potential historic property listed on, determined to be

eligible for a listing on, or potentially eligible for listing on, the National Register of Historic places would not be relevant for review.

Item 19:

This well is proposed for routine operations and maintenance activities consisting of a work over. Work over activities are necessary in order to maintain and potentially increase productivity from this well.

Item 23:

By using the existing road access for the well pad, CHK has minimized our impact by not constructing new crossings, and/or constructing a new access road to the pad. The access road which travels through the creek channel has been in existence for over 50 years. Due to the land type and topography, any construction of a new access road to avoid the aquatic impacts would not be feasible for such a project. In an effort to minimize water quality impacts on the receiving streams, CHK proposes to utilize non-toxic/non-acidic durable stone as suitable fill to stabilize the existing crossing. Suitable fill will only be placed within the footprint of the existing crossing from the OHM through the existing sandy stream bottom within the creek channel(s) necessary to make the crossing stable and ensure safety. As a method to control erosion and sediment runoff, the construction activity will be conducted during dry weather periods. CHK expects the project duration not to exceed 30 days.

Stream Crossing Characteristics and Construction Materials

Project: Well 804417 Work Over

Location: Mud River, Lincoln County, WV

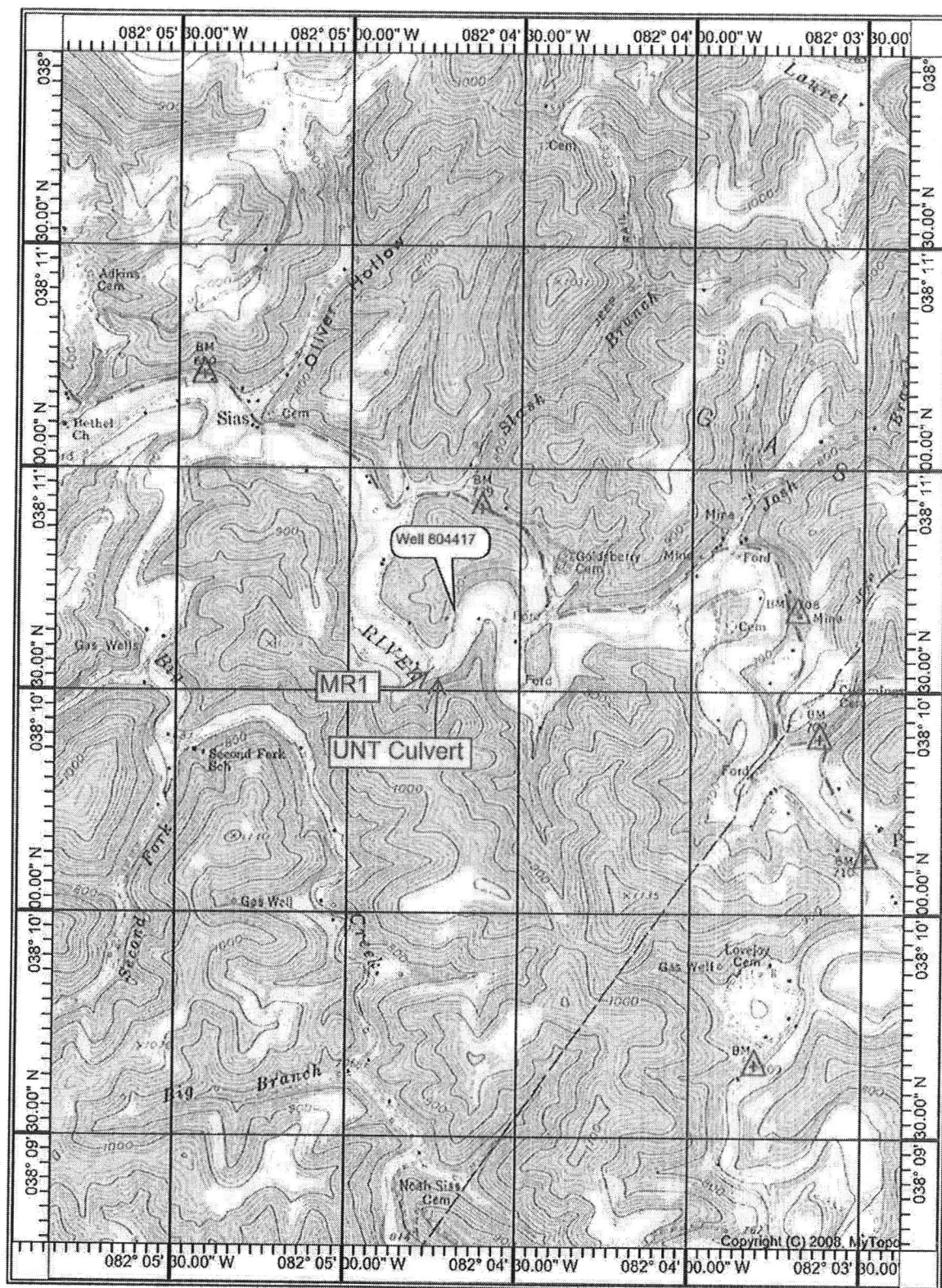
Date: 7/28/14

Stream Channel Characteristics: Mud River is a tributary to Guyandotte River watershed. Historically this watershed has been impacted previously by erosion and sediment runoff from manmade surface disturbances. The stream channel consists of a cobble and gravel stream bottom with sand. This project proposes the placement of a durable stone drive through crossing to safely access the well site. Table 1 below shows the proposed fill for the stream crossing. The project requires a Total Fill of 0.013 Acres or 26.0 cubic yards of material to Waters of the US.

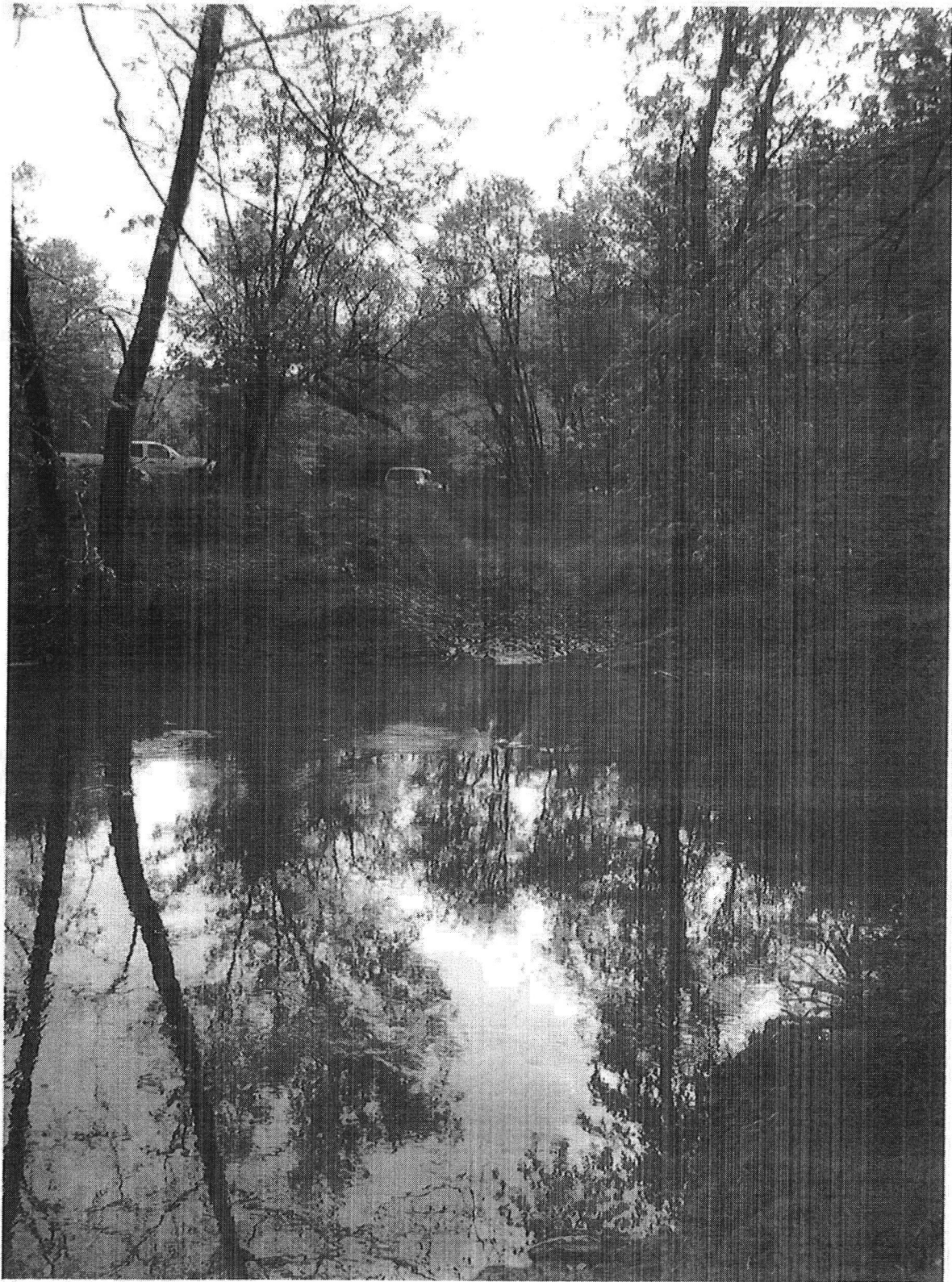
Table 1: Proposed Project Fill

Location Identifier	Latitude Longitude	Project Requirements	Total length within OHW (feet)	Total cubic Feet (assuming 6 inch stone depth)	Total cubic yards of material	Total acres
MR1	38.175967 82.079139	Stoned Approaches	12	72	2.66	0.004
UNT Crossing	38.17585 82.07935	Permanent Culvert 20'x36"	30	630	23.33	0.010
Total Cumulative			42	702	26	0.013

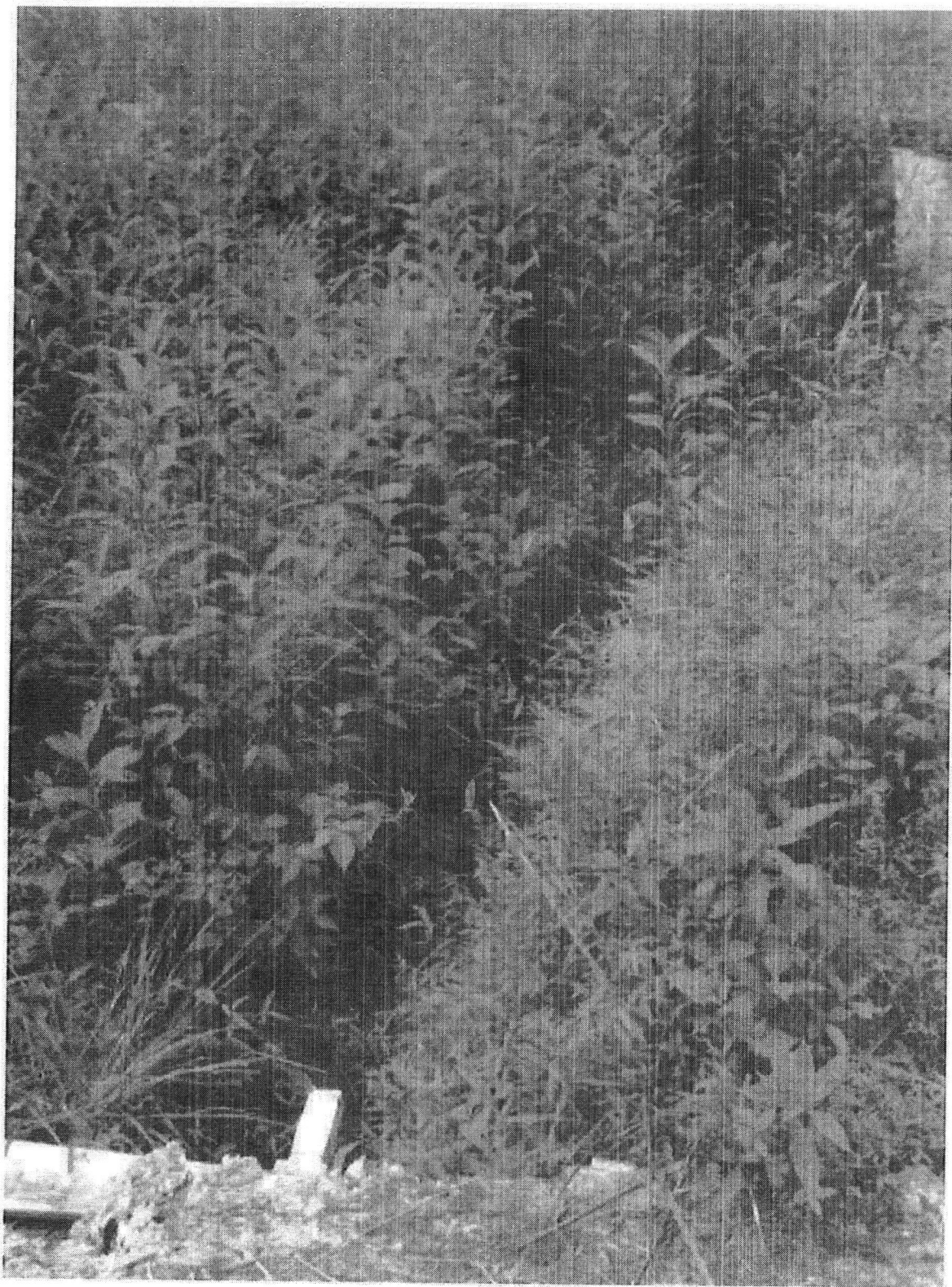
Notes: standard road width is 12 feet; standard depth of fill is 0.5 foot



Site Location
 Base Map - USGS 7.5 Minute Topographic Quadrangle Hager, WV
 Mapped - 1962
 Photo-revised N/A
 Scale 1" = 2000'



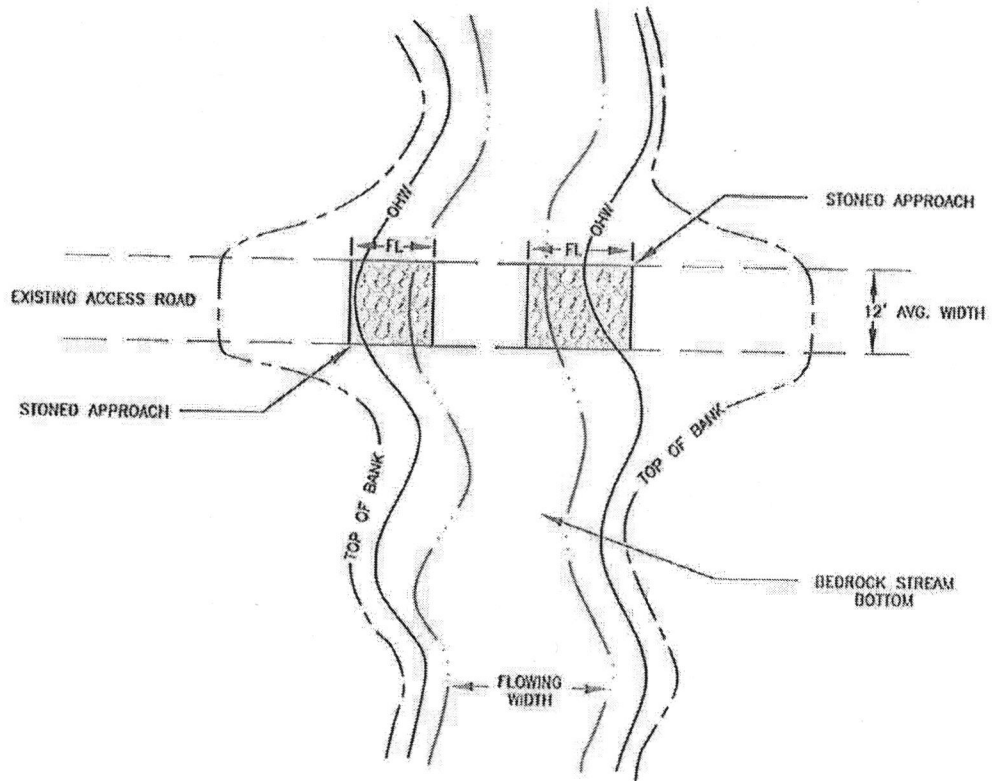
Proposed stream crossing location of Mud River, requires stoned approach



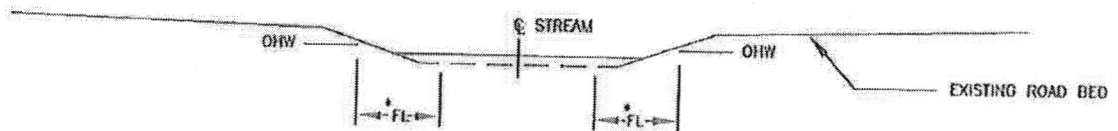
Unnamed Tributary receiving a permanent culvert 20 feet by 36 inch



Unnamed Tributary receiving a permanent culvert 20 feet by 36 inch



PLAN VIEW
OF
TYPICAL ROAD CROSSING
THRU BEDROCK (SOLID) CHANNEL
BOTTOMS
(NOT TO SCALE)



* STONE (FILL) TO EXTEND APPROX. 1' ONTO BEDROCK STREAM BOTTOM.
STONE TO CONSIST OF LIMESTONE (2" - 4" IN SIZE) AT A TOTAL DEPTH OF 6".

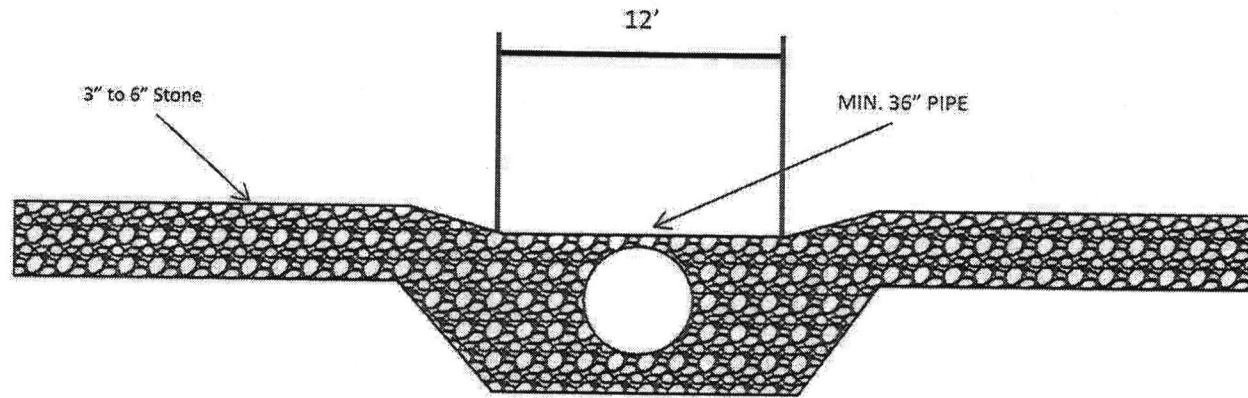
TYPICAL SECTION
(NOT TO SCALE)



2014 WORK OVER PROJECT
EXISTING ACCESS ROADS
WITHIN CREEK CHANNEL

DATE: 8/5/2014

**Low Water Vented Ford
Permanent Stream Crossing**



TYPICAL SECTION
(NOT TO SCALE)



2014 Work Over PROJECT: Well 804417 DATE: 8/6/2014
TYPICAL Permanent CULVERT CROSSING