U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY **ELEVATION CERTIFICATE** OMB No. 1660-0008 National Flood Insurance Program Expiration Date: July 31, 2015 Important: Read the instructions on pages 1-9. SECTION A - PROPERTY INFORMATION FOR INSURANCE COMPANY USE A1. Building Owner's Name John Carter Policy Number: A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg, No.) or P.O. Route and Box No. Company NAIC Number: 1432 Garrets Bend Road City Sod State WV ZIP Code 25564 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): A9. For a building with an attached garage: a) Square footage of crawlspace or enclosure(s) 1539 sq ft a) Square footage of attached garage 809 sa ft Number of permanent flood openings in the crawlspace Number of permanent flood openings in the attached garage or enclosure(s) within 1.0 foot above adjacent grade within 1.0 foot above adjacent grade Total net area of flood openings in A8.b Total net area of flood openings in A9.b sq in d) Engineered flood openings? ⊠ No ☐ Yes Engineered flood openings? ☐ Yes ⊠ No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION **B2. County Name** B1. NFIP Community Name & Community Number B3. State Lincoln County 540088 Lincoln West Virginia B4. Map/Panel Number 54043C120 85, Suffix 86. FIRM Index Date **B7. FIRM Panel** 88. Flood B9 Base Flood Elevation(s) (Zone Effective/Revised Date AO, use base flood depth) *687.5 Zone(s) 10-16-2013 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. ☐ FIRM Community Determined Other/Source: mapwv.gov/flood B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 M NAVD 1988 ☐ Other/Source: B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ⊠ No Designation Date: ☐ CBRS ☐ OPA SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) ☐ Building Under Construction* C1. Building elevations are based on: ☐ Construction Drawings* 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

person were still as the seminary walk and should be treated by the trace of the control of the	rototo.		
Benchmark Utilized: Local BM set with GPS Vertical Datum: NAVD 19	988		
Indicate elevation datum used for the elevations in items a) through h) below. NGVD to Datum used for building elevations must be the same as that used for the BFE.	1929 🖾 NAVD 1	988 □ Other/Sour	ce:
		Check the mea	surement 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 (Describe type of equipment and location in Comments)	686.1	⊠ 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
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 seale information. I certify that the information of I understand that any false statement may	n this Certificate represe	nts my best efforts to inter	pref the data available
Check here if comments are provided			e in Section A provided by a
○ Check here if attachments.		censed land surveyor?	☐ Yes ⊠ No
Certifier's Name Richard E. Kinder Jr.		License No	mber 1956
Title Vice President	Company Name Ea	gle 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 info	rmation fron	n Section A		FOR	INSURANCE COMPANY USE
Building Street Address (including Ap 1432 Garretts Bend Road	ot., Unit, Suite, and/or Bldg. No.) or	P.O. Route an	d Box No.		Polic	y Number:
City Sod		State WV	ZIP Code 2	5564	Com	pany NAIC Number:
SECTIO	N D – SURVEYOR, ENGINEER	R, OR ARCH	ITECT CER	TIFICATION	CONTI	NUED)
Copy both sides of this Elevation Cer						
Comments See map for house loca	ation and ground shots.					
Signature // S/92		Date	02-18-2014			
SECTION E - BUILDING EL	EVATION INFORMATION (SU	RVEY NOT I	REQUIRED)	FOR ZONE A	AO AND	ZONE A (WITHOUT BEE)
 b) Top of bottom floor (including E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams E3. Attached garage (top of slab) is E4. Top of platform of machinery at E5. Zone AO only: If no flood depth ordinance? Yes No 	grade, if available. Check the mean of the following and check the appropriate grade (LAG). g basement, crawlspace, or enclose g basement, crawlspace, or enclose g permanent flood openings provide grade of the building is feet meand/or equipment servicing the building in number is available, is the top of the complete grade of the property owner (OF) is a property owner (OF).	priate boxes to priate boxes and priate boxes are boxes and priate boxes are	In Puerto Rio show wheth show wheth show wheth show wheth show show wheth show show wheth show show show wheth show show show wheth show show show show show wheth show show show wheth show show show show show show show sho	ico only, enter n er the elevation feet	neters. is above a labove begin above to a the com	e or below the highest adjacent ve or below the HAG. ve or below the LAG. istructions), the next higher floor G. istructions the next higher floor G. in below the HAG. imunity's floodplain management
						Check here if attachment
	SECTION G - COMMU	NITY INFOR	MATION (O	PTIONAL)		
2. A community official complete	war ordinance to administer the come e applicable item(s) and sign below, was taken from other documentation elevation information. (Indicate the ed Section E for a building located in this G4-G10) is provided for commu	Check the mean that has been source and do not zone A (with	nsurement use in signed and ate of the elec- out a FEMA-is	ed in Items G8–4 sealed by a lice ration data in the ssued or commi	310. In P insed sui e Comm	uerto Rico only, enter meters. 'Veyor, engineer, or architect who ents area below.)
G4. Permit Number	G5. Date Permit Issued		G6. Date	Certificate Of C	omplianc	e/Occupancy Issued
7. This permit has been issued for: 8. Elevation of as-built lowest floor (ir 9. BFE or (in Zone AO) depth of floor 10. Community's design flood elevation .ocal Official's Name	ncluding basement) of the building: fing at the building site:	Substantial Imp	feet feet	☐ meters ☐ meters ☐ meters		" "
		Titl	~~~~			
Community Name		***************************************	ephone			
Signature		Dat	•			
Comments						
						Check here if attachments

U.S. DEPARTMENT OF HOMELAND SECURITY COPPERAL EMERGENCY MANAGEMENT AGENCY Colonial Flood Insurance Program

ELEVATION CERTIFICATE OMB No. 1660-0008

	(ream	Important: Re	ad the instructions	on pages 1-9.	Expiration Date: July 31, 2015
		SECT	ON A - PROPERTY IN	FORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Nam	ne John Carter				Policy Number:
A2. Building Street Addres 1432 Garrets Bend Road	ss (including Ap	t., Unit, Suite, and/or B	ldg. No.) or P.O. Route an	d Box No.	Company NAIC Number:
City Sod			State WV ZIP	Code 25564	
A3. Property Description (Lot and Block N	umbers, Tax Parcel No	ımber, Legal Description,	etc.)	
A6. Attach at least 2 photo A7. Building Diagram Num A8. For a building with a ci a) Square footage of b) Number of perman or enclosure(s) with c) Total net area of fic d) Engineered flood o	it. 38.30038 Lographs of the biber 8 rawispace or entitle of the biber 18 rawispace or entitle of opening in 1.0 foot about od openings in penings? SEC 8 & Community	rig81.91851 Hori: uilding if the Certificate closure(s): nclosure(s) rigs in the crawlspace ve adjacent grade A3.b Yes No TION B - FLOOD II	is being used to obtain flo A9. sq ft sq in NSURANCE RATE MA 32. County Name Incoln	For a building with an a) Square footage of b) Number of permai within 1.0 foot abo c) Total net area of fl d) Engineered flood	attached garage sq ft nent flood openings in the attached garage ve adjacent grade ood openings in A9.b sq in openings? Yes No TION B3. State West Virginia
B4. Map/Panel Number 54043C120	B5, Suffix D	B6. FIRM Index Da	te 87. FIRM Pane Effective/Revised I 10-16-2013		B9. Base Flood Elevation(s) (Zone AO, use base flood depth) *687.5
 Elevations – Zones A1–4 below according to the b Benchmark Utilized: Loc- Indicate elevation datum 	ate will be requing the second of the second	(with BFE), VE, V1–V3 specified in Item A7. In IPS evations in Items a) thro	of the building is complete 0, V (with BFE), AR, AR/A 1 Puerto Rico only, enter in Vertical Datum: NAVD 19 10 pugh h) below. NGVD	, AR/AE, AR/A1-A30, / neters. 988	☑ Finished Construction AR/AH, AR/AO. Complete Items C2.a-h ☐ Other/Source:
Datum used for building	elevations must	be the same as that u	sed for the BFE.	Ch	eck the measurement used.
a) Top of bottom floor (inb) Top of the next higherc) Bottom of the lowest h	floor			682.4 688.4	
d) Attached garage (top of e) Lowest elevation of ma (Describe type of equition of eq	achinery or equi oment and locat	ion in Comments)	ilding	685.3 686.1	
f) Lowest adjacent (finish g) Highest adjacent (finish h) Lowest adjacent grade	hed) grade next	to building (HAG)	noluding structural support	682.4 685.3	☑ feet ☐ meters ☑ feet ☐ meters ☐ feet ☐ meters
	SECTIO	N D - SURVEYOR,	ENGINEER, OR ARCH	HITECT CERTIFICA	TION
This certification is to be sign information. I certify that the is understand that any false standing Check here if comments. Check here if attachments certifier's Name Richard E. K.	information on to latement may be are provided of its.	his Certificate represent a punishable by fine or n back of form. W	ts my best efforts to interp	ret the data available. S. Code, Section 1001 in Section A provided b	THE PARTY OF THE P
itle Vice President		Company Name Eag	le Surveying Inc.		The state of the s
ddress 1266 Berry Hills Dr	ive	City Charleston	State WV	ZIP Code 25314	
ignature // - //		Date 02-18-2014	Telephone	304-744-6190	AND SHIPS

IMPORTANT: In these spaces,			- 17.752
Building Street Address (including A			FOR INSURANCE COMPANY US Policy Number:
1432 Garretts Bend Road City Sod			
		State WV ZIP Code 25564	Company NAIC Number:
		R, OR ARCHITECT CERTIFIC	
Copy both sides of this Elevation Ce Comments See map for house loc		(2) insurance agent/company, and (building owner.
For Zones AO and A (without BFE), and C. For Items E1–E4, use natura	EVATION INFORMATION (SU complete Items E1–E5. If the Certil grade, if available. Check the med	Date 02-18-2014 JRVEY NOT REQUIRED) FOR a lifecate is intended to support a LOM assurement used. In Puerto Rico only	ZONE AO AND ZONE A (WITHOUT BFE A or LOMR-F request, complete Sections A, B, r, enter meters.
a) Top of bottom floor (includin b) Top of bottom floor (includin b) Top of bottom floor (includin E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams E3. Attached garage (top of slab) is E4. Top of platform of machinery at E5. Zone AO only: If no flood depti	ig basement, crawlspace, or enclosing basement, crawlspace, or enclosing basement, crawlspace, or enclosing basement flood openings provides) of the building is feetmad/or equipment servicing the building ind/or equipment servicing the building ind/or equipment servicing the top of	sure) is feet sure) is feet ed in Section A Items 8 and/or 9 (se feet meters above or neters above or below the F ding is feet m	IAG. eters □ above or □ below the HAG. once with the community's floodplain managem
		R OWNER'S REPRESENTATIV	
The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz	ements in Sections A, B, and E are	s Sections A, B, and E for Zone A (v correct to the best of my knowledge	
Address		City	State ZIP Code
Signature		Date	Telephone
Comments	ar den raben sen		Check here if attachr
	SECTION G - COMMU	INITY INFORMATION (OPTION	AL) in the press there is no harmon set of the
of this Elevation Certificate. Complete the 31. The information in Section Complete is authorized by law to certify 32. A community official complete	e applicable item(s) and sign below. was taken from other documentation elevation information. (Indicate the ed Section E for a building located in	Check the measurement used in item on that has been signed and sealed e source and date of the elevation of in Zone A (without a FEMA-issued of unity floodplain management purpos	r community-issued BFE) or Zone AO.
	J		
57. This permit has been issued for: 58. Elevation of as-built lowest floor (ir 59. BFE or (in Zone AO) depth of flood 510. Community's design flood elevation	ncluding basement) of the building: ding at the building site:	Substantial Improvement feet mo	eters 3 Datum
Local Official's Name		Tide	o debu patentalista describine describine de la profesiona de la companya del companya de la companya de la companya del companya de la compa
Community Name	THE PARTICION	Telephone	Schoolska hirosikastik (197
Signature	in the state of th	Date	
Comments		oriza e Milio di Bengio, senerali y segrati i	
			☐ Check here if attachm
			and the second

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

	Roger Victors
From	1: Guy Browning
RE:	John Carter

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

Pages Including Cover Sheet

COUNTY COMMISSIONERS
K K MATTHEWS, President

CHARLES VANCE

CHARLES MCCANN

Lincoln County Commission Lincoln County

> P.O. Box 497 Hamlin, West Virginia 25523 (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 $4:30~\rm pm$ at 304-824-1100,

Sincerely,

Suy Browning, CFM
Floodplain Coordinator

U.S. DEPARTMENT OF HOMELAND SECURITY FELFRAL EMERGENCY MANAGEMENT AGENCY

ELEVATION CERTIFICATE

OMB No. 1660-0008

		Important: F	Read the	instructions	on page	s 1–9,	Expire	ition Date: July 31,	2015
		SEC	TION A	- PROPERTY IN	FORMAT	ION	FOR IN	SURANCE COMPAN	IY USE
A1. Building Owner's Nam	e John Carter				ig was see		Policy I	Number:	
A2. Building Street Addres	s (including Apt	, Unit, Suite, and/or	Bldg. No.) or P.O. Route an	d Box No.		Compa	ny NAIC Number:	
1432 Garrets Bend Road City Sod				State WV ZIP	Code 255				
A3. Property Description (Lot and Block N	umbers, Tax Parcel	Number, I	egal Description,	etc.)				
A4. Building Use (e.g., Re	sidential, Non-R	esidential, Addition,	Accessor	y, etc.) <u>Residential</u>					
A5. Latitude/Longitude: La		40° consumption of the constraint of the constra		latum: NAD 10	,,,,,,,,				
A6. Attach at least 2 photo A7. Building Diagram Num			ate is being	g used to obtain No	od insuran	ce.			
A8. For a building with a ci	1000	closure(s):		A9.	For a buil	ding with an atta	ched gar	age:	
a) Square footage of			1539	sq ft	a) Squar	re footage of atta	iched ga	rage 809	sq ft
 b) Number of perman or enclosure(s) with 			· Q			er of permanent 1.0 foot above :		enings in the attached grade 0	l garage
c) Total net area of fic	ood openings in	A8.b	Ō	sq in	c) Total	net area of flood	opening		sq in
d) Engineered flood o		Yes 🛭 No				ecred flood ope		☐ Yes ⊠ No	
	SEC	TION B - FLOOD) INSURA	NCE RATE MA	P (FIRM)	INFORMATIO	N		
B1. NFIP Community Name	& Community I	Number	B2. Cou	nty Name			B3. Sta		
Lincoln County 540088			Lincom			azili ili.	West V	roma	
84. Map/Panel Number 54043C120	B5, Suffix D	B6. FIRM Index	Date	B7. FIRM Pan Effective/Revised		88. Flood Zone(s)	B9.	Base Flood Elevation(AO, use base flood de	s) (Zone epth)
310. Indicate the source of				10-16-2013		Α		*687,5	
☐ FIS Profile	☐ FIRM	☐ Community De				wv gov/flood			
311. Indicate elevation datu				⊠ NAVD 1		Other/Source:			
312. Is the building located	in a Coastal Bar	rier Resources Syst				d Area (OPA)?		☐ Yes No	
Designation Date:									
	SECTIO	N C - BUILDING	ELEVAT	TION INFORMA	TION (SU	RVEY REQUI	RED)		
1. Building elevations are t	pased on:	Construction D	rawings*	☐ Buildin	g Under C	onstruction*	⊠ F	inished Construction	
*A new Elevation Certific 2. Elevations – Zones A1–						48/A1_A30 AB/	AH AD!	AO Complete Hame C	2 a b
below according to the b	uilding diagram	specified in Item A	7. In Puerto	Rico only, enter r	neters.		rui, ruo:		A
Benchmark Utilized: Loc		······································		al Datum: NAVD 1					
Indicate elevation datum Datum used for building					1929 N	IAVD 1988 LJ C	ther/Sou	rce:	
Transfer of the second						Check	the mea	surement used.	
a) Top of bottom floor (in		int, crawlepace, or e	enclosure f	loor)	682.4		⊠ feet	☐ meters	
b) Top of the next higher					688.4		⊠ feet	☐ meters	
 c) Bottom of the lowest ! d) Attached garage (top 		∦ai member (V ∠on	es only)		685.3		☐ feet ☑ feet	☐ meters	
e) Lowest elevation of m		pment servicing the	building		686.1		⊠ feet	☐ meters	
(Describe type of equi									
 f) Lowest adjacent (finis g) Highest adjacent (finis 					682.4		⊠ feet	☐ meters	
h) Lowest adjacent grade			s, includin	g structural suppor	685.3 t		⊠ feet □ feet	☐ meters ☐ meters	
		N D - SURVEYO		•		. Envisio A vid			
This certification is to be sign			***************************************						
information. I certify that the	information on t	his Certificate repre	sents my l	best efforts to inten	pret the da	ta available	on [100	7
I understand that any false s ☐ Check here if comment	tatement may b	e punishable by fine						ENS	9
 Check here if comment Check here if attachme 				tude and longitude land surveyor?	in Section ☐ Yes	A provided by a No			
Certifier's Name Richard E.								SEAL	
Title Vice President	www.ut.	Campany	C	License Nu	moer 1956		-	STATE	83
Address 1266 Berry Hills D		Company Name	cagre Sur					ON WHO	CS
		City Charleston		State WV		de 25314		DNAL SU	
Signature //////		Date 02-18-2014		Telephone	304-744-6	3190			

IMPORTANT: In these spaces,				
	copy the corresponding information from S	ection A.	FOR INSURANCE COMP	ANY USE
Building Street Address (including Ap 1432 Garretts Bend Road	ot., Unit, Suite, and/or Bldg. No.) or P.O. Route and B	lox No.	Policy Number:	
City Sod	State WV ZI	IP Code 25564	Company NAIC Number:	
SECTION	N D - SURVEYOR, ENGINEER, OR ARCHITE	CT CERTIFICATION	(CONTINUED)	
Copy both sides of this Elevation Cert	tificate for (1) community official, (2) insurance agent	l/company, and (3) buildir	ng owner.	
Comments See map for house local	lion and ground shots.			
Signature // Salar	Date 02	2-18-2014		
SECTION E - RUII DING ELE	EVATION INFORMATION (SURVEY NOT RE	OUIDED) FOR ZONE	AO AND ZONE A MITUO	IIT OFFI
			AO AND ZONE A (MITTO	O I DI E)
and C. For Items E1–E4, use natural E1. Provide elevation information fo grade (HAG) and the lowest adj a) Top of bottom floor (including b) Top of bottom floor (including b) Top of bottom floor (including E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams) E3. Attached garage (top of slab) is E4. Top of platform of machinery an E5. Zone AO only: If no flood depth ordinance? Yes No SECTION	g basement, crawispace, or enclosure) is gasement, crawispace, or enclosure) is gasement, crawispace, or enclosure) is gasement, crawispace, or enclosure) is gasement flood openings provided in Section A Ite of the building is gasement g	propertor Rico only, enter in the how whether the elevation feet	meters. n is above or below the highes s above or below the H s above or below the L s above or below the next w the HAG. above or below the HAG. the community's floodplain of	it adjacent AG. AG. higher floor
Address	City	Sin	te ZIP Code	
Signature	Date		ephone	
Comments			☐ Check here	if attachmen
	SECTION G - COMMUNITY INFORMA			
f this Elevation Certificate. Complete the S1. The information in Section C is authorized by law to certify. S2. A community official complete	SECTION G — COMMUNITY INFORMA w or ordinance to administer the community's floodplai e applicable item(s) and sign below. Check the measu was taken from other documentation that has been a elevation information. (Indicate the source and date ed Section E for a building located in Zone A (without ms G4-G10) is provided for community floodplain ma	in management ordinance irement used in Items G8- signed and sealed by a lic of the elevation data in the t a FEMA-issued or comm	-G10. In Puerto Rico only, ente tensed surveyor, engineer, or i the Comments area below.)	r meters. architect who
of this Elevation Certificate. Complete the G1. The information in Section C is authorized by law to certify. G2. A community official complete	w or ordinance to administer the community's floodplai e applicable item(s) and sign below. Check the measu was taken from other documentation that has been s elevation information. (Indicate the source and date ed Section E for a building located in Zone A (without ms G4-G10) is provided for community floodplain man	in management ordinance irement used in Items G8- signed and sealed by a lic s of the elevation data in that t a FEMA-issued or commanagement purposes.	-G10. In Puerto Rico only, ente tensed surveyor, engineer, or i the Comments area below.)	r meters. architect who
of this Elevation Certificate. Complete the 31. The information in Section C is authorized by law to certify. 32. A community official complete 33. The following information (Iter G4. Permit Number 37. This permit has been issued for: 38. Elevation of as-built lowest floor (in g9. BFE or (in Zone AO) depth of floor	w or ordinance to administer the community's floodplaise applicable item(s) and sign below. Check the measures was taken from other documentation that has been selevation information. (Indicate the source and date ed Section E for a building located in Zone A (without ms G4-G10) is provided for community floodplain ms G5. Date Permit Issued New Construction Substantial Improduction Substan	in management ordinance prement used in Items G8-signed and sealed by a lice of the elevation data in the FEMA-issued or commanagement purposes. G6. Date Certificate Of C	-G10. In Puerto Rico only, enter sensed surveyor, engineer, or the Comments area below.) nunity-issued BFE) or Zone AC	r meters. architect who
of this Elevation Certificate. Complete the 31. The information in Section C is authorized by law to certify. 32. A community official complete 33. The following information (Iter G4. Permit Number 37. This permit has been issued for: 38. Elevation of as-built lowest floor (in g9. BFE or (in Zone AO) depth of floor	w or ordinance to administer the community's floodplaise applicable item(s) and sign below. Check the measures was taken from other documentation that has been selevation information. (Indicate the source and date ed Section E for a building located in Zone A (without ms G4-G10) is provided for community floodplain ms G5. Date Permit Issued New Construction Substantial Improduction Substan	in management ordinance in management used in Items G8-signed and sealed by a lice of the elevation data in the tareast are selected or commanagement purposes. G6. Date Certificate Of Covernment	G10. In Puerto Rico only, enterensed surveyor, engineer, or the Comments area below.) nunity-issued BFE) or Zone ACC Compliance/Occupancy Issued Datum Datum	r meters. architect who
of this Elevation Certificate. Complete the 31. The information in Section C is authorized by law to certify. 32. A community official complete 33. The following information (Iter G4. Permit Number 37. This permit has been issued for: 38. Elevation of as-built lowest floor (in 20. BFE or (in Zone AO) depth of floor 310. Community's design flood elevation	w or ordinance to administer the community's floodplaine applicable item(s) and sign below. Check the measures was taken from other documentation that has been succeed section information. (Indicate the source and date and Section E for a building located in Zone A (without ms G4-G10) is provided for community floodplain material. G5. Date Permit Issued New Construction Substantial Improduction building basement) of the building: Substantial Improduction Substantial	in management ordinance in management used in Items G8-signed and sealed by a lice of the elevation data in the factor of the factor of the elevation data in the elevatio	G10. In Puerto Rico only, enterensed surveyor, engineer, or the Comments area below.) nunity-issued BFE) or Zone ACC Compliance/Occupancy Issued Datum Datum	r meters. architect who
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Building Street Address (inc		ling information from S		FOR IN	SURANCE COMPANY USE
1432 Garretts Bend Road	luding Apt., Unit, Suite, and/or Bid	g. No.) or P.O. Route and B	ox No.	Policy I	lumber;
City Sod		State WV ZII	Code 25564	Compa	ny NAIC Number:
	SECTION D - SURVEYOR, EN	NGINEER, OR ARCHITE	CT CERTIFICATION	(CONTINU	JED)
Copy both sides of this Elevi	ation Certificate for (1) community	official, (2) insurance agent	company, and (3) building	ng owner.	
11	ouse location and ground shots.				
Signature 6/5		Date 02	18-2014		
SECTION E - BUILDI	ING ELEVATION INFORMATI	ION (SURVEY NOT REC	UIRED) FOR ZONE	AO AND Z	ONE A (WITHOUT BFE)
and C. For Items E1–E4, use E1. Provide elevation inform grade (HAG) and the le a) Top of bottom floor (b) Top of bottom floor (E2. For Building Diagrams (elevation C2.b in the delevation C2.b in the delevation C2.b in the delevation C3.b in the delevation C3.b in the delevation C4. Top of platform of made E5. Zone AO only: If no floordinance? Yes [SI The property owner or owner or Zone AO must sign here. Top of platform or Zone AO must sign here. Top or Zone AO must sign here.	thinery and/or equipment servicing od depth number is available, is the No Unknown. The local of CTION F - PROPERTY OWI's authorized representative who can be statements in Sections A, B, a	k the measurement used. In the appropriate boxes to shor enclosure) is or enclosure) is provided in Section A Item feet meter above or the building is the top of the bottom floor elefficial must certify this inform NER (OR OWNER'S REINORDER'S REINORDER'S SECTIONS A, B, and and E are correct to the best	Puerto Rico only, enter in ow whether the elevation feet meters feet meters as 8 and/or 9 (see pages above or below the HAG. feet meters vated in accordance with ation in Section G. PRESENTATIVE) CE	meters. n is above of above so above so habove of labove or above or the comm	or below the highest adjacent or below the HAG. or below the LAG. ructions), the next higher floor below the HAG. unity's floodplain management
Property Owner's or Owner's Address	Authorized Representative's Nam	City			710.00.1
****		Date	Stat		ZIP Code
Vignature		V		phone	
	RAMA MAJAKA MIRA AM				☐ Check here if attachme
Comments		COMMUNITY INFORMA			TEN AND THE WAS CORNER ON THE
e local official who is authorize this Elevation Certificate. Com The information in Se is authorized by law to A community official of	SECTION G - Complete the applicable item(s) and sign ection C was taken from other documents of certify elevation information. (Incompleted Section E for a building ation (items G4–G10) is provided for G5. Date Permit Issued	er the community's floodplain on below. Check the measure umentation that has been sig dicate the source and date of located in Zone A (without of or community floodplain man	management ordinance iment used in Items G8-ined and sealed by a lice of the elevation data in the FEMA-issued or comm	G10. In Pue ensed surve le Commen unity-issued	e Sections A, B, C (or E), and to Rico only, enter meters. yor, engineer, or architect what area below.) I BFE) or Zone AO.
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EAGLE SURVEYING, INC
1256 BERRY HALS DRIVE
CHARLESTON, WEST VERGRIA 25314

PH. (504) 744-8100

SITUATE ON GARRETTS BEND ROAD LINCOLN COUNTY WEST VIRGINIA SCALE: 1' = 100' FEBRUARY 17, 2014 NFIP PO 8ox 2965 Shawnee Mission K\$ 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,

glay 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.

Location of the mouse click Approximate Study (Zone A) Cross Section Line Detailed Study (Zone AE, AH, AO) **Base Flood Elevation Line** loodway DFIRM Panel (Map) Index Flood Water Depth (HEC-RAS) **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)

Map Created on 9/3/2014

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:



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
14 August 2014 1:25:02 PM

ID:	1408-1308-1831 DATE IN: 8/13/2014	DATE O	UT: 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.



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
14 August 2014 1:25:02 PM

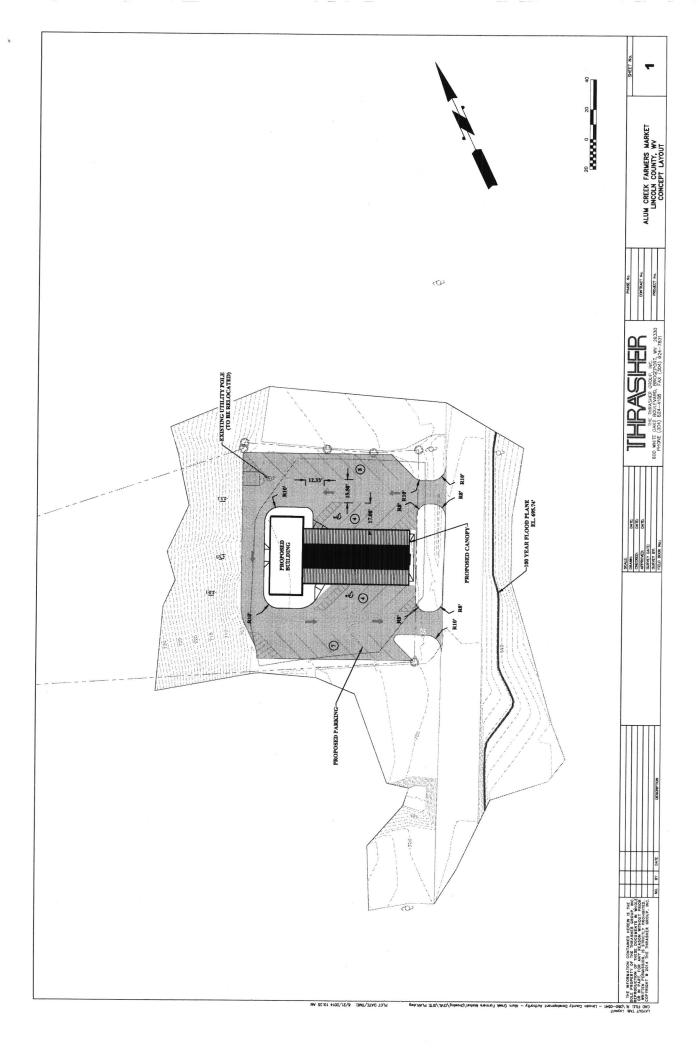
CONFIDENTIAL PRIVILEGED INFORMATION: The information contained in this communication is confidential and/or privileged, proprietary information that is transmitted solely for the purpose of the intended recipient(s). If the reader of this message is not an intended recipient, or if this message has been 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





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:

REQUEST TYPE:

1408-1308-1831

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 <u>eric.gillespie@chk.com</u> if there are any questions regarding the permit application or project.

Singerely,

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		I. DATE APPLICAT	TION COMPLETE	
	(ITEMS BELOW TO	BE FILLED BY APPLICANT)				
5. APPLICANT'S NAME		8. AUTHORIZED AGENTS	S NAME AN	D TITLE (agent is n	ot required)	
First - Kris Middle -	Last - Aldridge	First - A	Middle -	Last -		
Company - Chesapeake Appalachia	a, L.L.C.	Company -				
E-mail Address - kris.aldridge@chk.	.com	E-mail Address -				
6. APPLICANT'S ADDRESS:		9. AGENT'S ADDRESS:				
Address- 8165 Court Avenue, P.O.). Box 579	Address-				
City - Hamlin State - W	VV Zip - 25523 Country -	City -	State -	Zip -	Country -	
7. APPLICANT'S PHONE NOs. w/ARE	EA CODE	10. AGENTS PHONE NOs. WAREA CODE				
a. Residence b. Business 304-539-1066 304-824-51	s 6. Fax 141x82604 304-824-2247	a. Residence b	b. Business	c. Fa	×	
	STATEMENT	OF AUTHORIZATION				
11. I hereby authorize, supplemental information in support of t	to act in my behalf this permit application. SIGNATURE OF APPL	f as my agent in the processing of		ation and to furnish,	upon request,	
	NAME, LOCATION, AND DESC	RIPTION OF PROJECT OR AC	CTIVITY			
12. PROJECT NAME OR TITLE (see in Well 804417 Work Over Mainte	APT PLONES AT THE TOTAL AND		Balling and the series to company.	Material Commission of the Com	periodicina (Cara, S. Perrobina constanti processorio)	
13. NAME OF WATERBODY, IF KNOW Mud River	NN (if applicable)	14. PROJECT STREET AD Address	DRESS (If a)	pplicable)		
	Longitude: «W -82.079139	City -	State	8-	Zip-	
16. OTHER LOCATION DESCRIPTION			, , , , , , , , , , , , , , , , , , ,	*:*************************************	***************************************	
State Tax Parcel ID	Municipality					
Section - Town	vnship -	Range -				

17. DIRECTIONS TO THE SITE			
Turn left toward US-119 S for 13 Continue onto WV-3 W for 2.7 m	nics. Turn icit onto Sugar Tree Road. Tal	inue straight onto WV-214 S/Childress Roa e a Slight right onto Sycamore Fork Road. Then turn left onto Bellomy Road. See site	Continue
	opper man Kirci Kong.	Then turn ien onto Bellomy Road. See site	location map.
18. Nature of Activity (Description of p	project, include all features)		
See Supplemental Information At	tachment Item 18.		
,			
19. Project Purpose (Describe the rea	son or purpose of the project, see instructions)		
See Supplemental Information Att	achment Item 19.		v.
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 s permanent 20 foot by 36 inch culv	stabilize and reduce erosion from the exis ert of an Unnamed Tributary to Mud Rive	ting stream crossing of the Mud River and per to gain access to well pad.	placement of a
	ed and the Amount of Each Type in Cubic Yard	s:	
Type Amount in Cubic Yards	Type	Туре	
	Amount in Cubic Yards	Amount in Cubic Yards	
26 CY Durable Stone			
2. Surface Area in Acres of Wellands	or Other Waters Filled (see instructions)		
	er and an Unnamed Tributary.		
inear Feet 42 feet			
3. Description of Avoidance Minimizat	lon, and Compensation (see instructions)		
ee Supplemental Information Atta	chment Item 23.		
**			

24. Is Any Portion of	f the Work Already Complete	e? Yes No IF Y	ES, DESCRIBE THE COMP	LETED WORK	
1	started for this project.	The False	and the state of the state of the	LETED WOM	
Or Address and Ada					
	oining Property Owners, Les	sees, Etc., Whose Propert	y Adjoins the Waterbody (if in	nore than can be entered here, please	altach a supplemental list).
a. Address- Ciary Mo	oore 138 Bellomy Rd.				
City - Branchland		State - WV	Zip - 25508		
b. Address- David Sia	as P.O Box 484				
City - Branchland		State - WV	Zip - 25	Zip - 25508	
c. Address-					
City -		State -	Zip -		
d. Address-					
City -		State -	Zip -		*
a. Address-					
City -		State -	Zip -		
6. List of Other Certific	cates or Approvals/Denials re	eceived from other Federa	il, State, or Local Agencies f	or Work Described in This A	pplication.
AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
VVDEP	Stimulation Permit	47-043-02056			
VVDNR	Stream Activity		2014-08-07		
			We are the second secon		
Would include but is no	ot restricted to zoning, build	ing, and flood plain permits			
7. Application is hereby	y made for permit or permits	s to authorize the work des	cribed in this annication. Le	certify that this information in	this application is
pplicant.	I further certify that I posses	ss the authority to undertain	ce the work described nerein	or am acting as the duly au	thorized agent of the
Windley	Mull	8/7/14			
SIGNATURE OF APPLICANT		-/ OKTE	SIGNAT	URE OF AGENT	DATE
he Application must huthorized agent if the	be signed by the person a statement in block 11 has	who desires to undertal as been filled out and s	ke the proposed activity (applicant) or it may be si	gned by a duly
8 U.S.C. Section 100	01 provides that: Whoeve	er, in any manner within	the jurisdiction of any de	partment or agency of the	e United States
lowingly and williumy	riaisilles, conceals, or co	overs up any trick, scher	me, or disquises a materi:	al fact or makes any false	fictitious or
audulent statements	or representations or ma or entry, shall be fined no	of more than \$10,000 o	riting or document knows r imprisoned not more the	ing same to contain any t an five vears or both	alse, fictitious or

ENG FORM 4345, JUL 2013

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

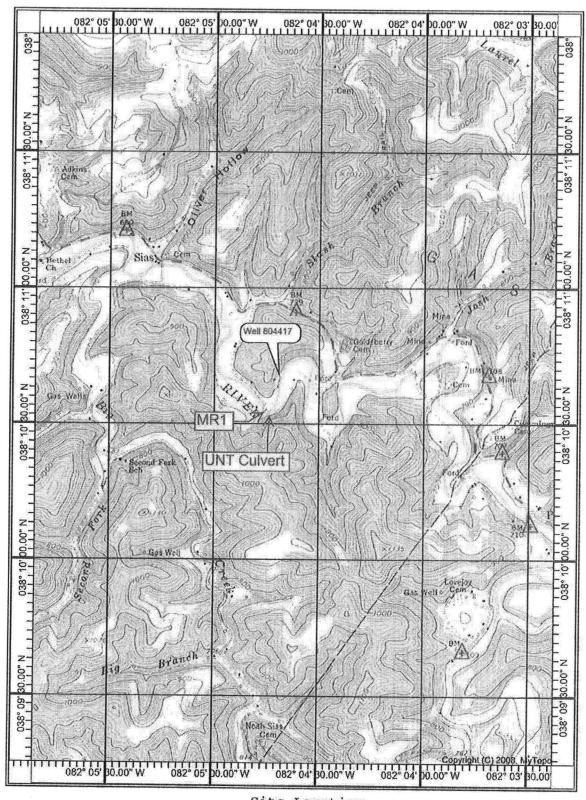
Date: 7/28/14

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



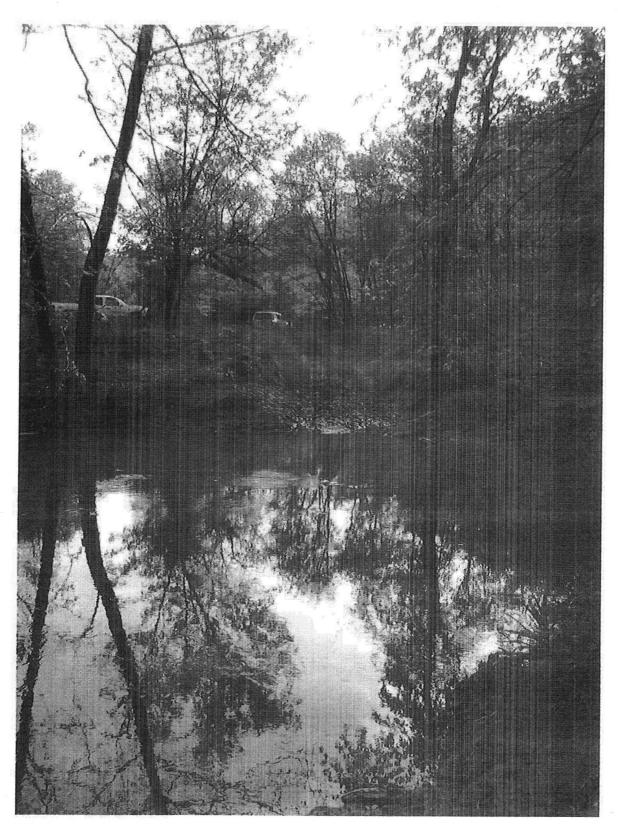
Site Location

Base Map - USGS 7.5 Minute Topographic Quadrangle Hager, WV

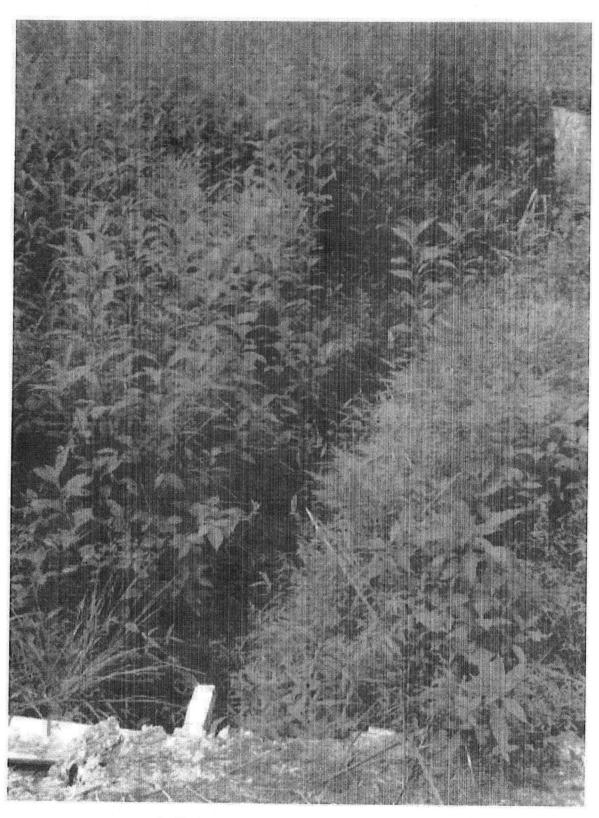
Mapped - 1962

Photo-revised N/A

Scale 1" = 2000'



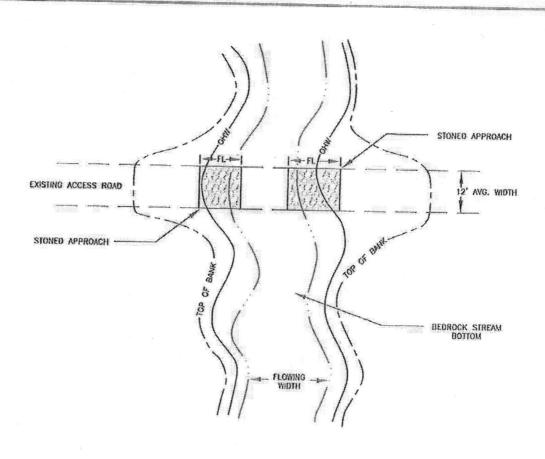
Proposed stream crossing location of Mud River, requires stoned approach



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)



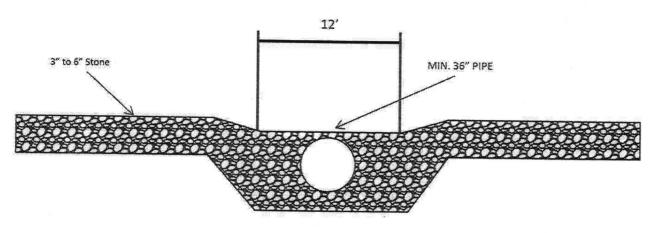
* STONE (FILL) TO EXTEND APPROX. 1' ONTO BEOROCK STREAM BOTTOM. STONE TO CONSIST OF LIMESTONE (2" - 4" IN SIZE) AT A TOTAL DEPTH OF 6",

TYPICAL SECTION (NOTTO 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