

# ELEVATION CERTIFICATE

**Important:** Follow the instructions on pages 1-9.

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

SECTION A - PROPERTY INFORMATION						FOR INSURANCE COMPANY USE
A1. Building Owner's Name MarkWest Liberty Midstream & Resources, LLC					Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 218 Swisher Lane					Company NAIC Number:	
City West Union		State West Virginia		ZIP Code 26456		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Doddridge County-Sheet 19, Lot 31.6 (Liberty Parcel)						
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Administration-Offices</u>						
A5. Latitude/Longitude: Lat. <u>39-16-46</u> Long. <u>-80-41-30</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> 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 <u>1A</u>						
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? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No						
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1. NFIP Community Name & Community Number Town of West Union 540025			B2. County Name Doddridge County		B3. State West Virginia	
B4. Map/Panel Number 54017C0140	B5. Suffix C	B6. FIRM Index Date 03-18-1991	B7. FIRM Panel Effective/ Revised Date 10-04-2011	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 811.15	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input checked="" type="checkbox"/> Other/Source: <u>HEC-RAS</u>						
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA						

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expiration Date: November 30, 2018

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 218 Swisher Lane			Policy Number:
City West Union	State West Virginia	ZIP Code 26456	Company NAIC Number

## 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: See Opus Solution Vertical Datum: NAVD 88

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>813.47</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor   | <u>N/A</u>    | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only)   | <u>N/A</u>    | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab)  | <u>N/A</u>    | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) | <u>813.00</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)  | <u>812.50</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG)   | <u>813.40</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support                                  | <u>N/A</u>    | <input checked="" 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.

Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No  Check here if attachments.

Certifier's Name James R. Bruggeman	License Number No. 2104		
Title Project Manager			
Company Name Civil & Environmental Consultants, Inc.			
Address 333 Baldwin Road			
City Pittsburgh	State Pennsylvania		ZIP Code 15205
Signature	Date 04-05-2017	Telephone (412) 429-2324	Ext. 1155

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

Comments (including type of equipment and location, per C2(e), if applicable)  
The equipment servicing the building is located on the north side of the building.

# ELEVATION CERTIFICATE

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218 Swisher Lane

**FOR INSURANCE COMPANY USE**

Policy Number:

City  
West Union

State  
West Virginia

ZIP Code  
26456

Company NAIC Number

## 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 1–2 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 or Owner's Authorized Representative's Name

Address

City

State

ZIP Code

Signature

Date

Telephone

Comments

Check here if attachments.

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expiration Date: November 30, 2018

**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.  
218 Swisher Lane

Policy Number:

City  
West Union

State  
West Virginia

ZIP Code  
26456

Company NAIC Number

## 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

15-391

G5. Date Permit Issued

2/26/2016

G6. Date Certificate of Compliance/Occupancy Issued

April 1, 2017 #17-001

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

G8. Elevation of as-built lowest floor (including basement) of the building: 813.47  feet  meters Datum NAVD 88

G9. BFE or (in Zone AO) depth of flooding at the building site: 811.15  feet  meters Datum NAVD 88

G10. Community's design flood elevation: 811  feet  meters Datum NAVD 88

Local Official's Name

George Eidel

Title

Floodplain Manager

Community Name

Doddridge County, WV

Telephone

304-873-1343

Signature

Date

4/19/2017

Comments (including type of equipment and location, per C2(e), if applicable)

Check here if attachments.

# BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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## ELEVATION CERTIFICATE

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City West Union	State West Virginia	ZIP Code 26456	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

Photo One Caption Front of Building-West (taken 03/30/2017)

Clear Photo One



Photo Two

Photo Two Caption Side of building-North (taken 03/30/2017)

Clear Photo Two

**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.  
218 Swisher Lane

Policy Number:

City  
West Union

State  
West Virginia

ZIP Code  
26456

Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Photo Three

Photo Three

Photo Three Caption

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

Clear Photo Four

**ELEVATION CERTIFICATE**

**BUILDING PHOTOGRAPHS**  
Continuation Page

OMB No. 1660-0008  
Expiration Date: November 30 2018

**From:** opus  
**To:** Baker, Evan;  
**Subject:** OPUS solution : log0621r.tps 000309346  
**Date:** Monday, August 29, 2011 2:18:31 PM

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FILE: log0621r.tps 000309346

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.  
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: ebaker@cecinc.com  
RINEX FILE: log0172r.11o

DATE: August 29, 2011  
TIME: 18:18:09 UTC

SOFTWARE: page5 1108.09 master10.pl 060711      START: 2011/06/21  
17:34:00  
EPHEMERIS: igs16412.eph [precise]                      STOP: 2011/06/21 21:45:00  
NAV FILE: brdc1720.11n                                  OBS USED: 8826 / 9000 : 98%  
ANT NAME: TPSGR3                      NONE                      # FIXED AMB: 43 / 46 : 93%  
ARP HEIGHT: 2.0    OVERALL RMS: 0.015(m)

REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)                      ITRF00  
(EPOCH:2011.4707)

X:	800339.546(m)	0.049(m)	800338.785(m)	0.049(m)
Y:	-4879235.170(m)	0.038(m)	-4879233.744(m)	0.038(m)
Z:	4015884.593(m)	0.042(m)	4015884.475(m)	0.042(m)

LAT:	39 16 19.33778	0.038(m)	39 16 19.36623	0.038(m)
E LON:	279 18 54.92433	0.048(m)	279 18 54.90263	0.048(m)
W LON:	80 41 5.07567	0.048(m)	80 41 5.09737	0.048(m)
EL HGT:	224.430(m)	0.045(m)	223.171(m)	0.045(m)
ORTHO HGT:	257.429(m)	0.077(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (4701 WV N)
Northing (Y) [meters]	4347013.026	86383.267
Easting (X) [meters]	527193.821	497771.191
Convergence [degrees]	0.19955974	-0.75559723



Point Scale	0.99960911	0.99995971
Combined Factor	0.99957391	0.99992450

US NATIONAL GRID DESIGNATOR: 17SND2719347013(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL3933 51632.2	LS08 LOYOLA LS08 CORS ARP	N385849.217	W0801311.035	
DM5974 35370.3	WVBR BRIDGEPORT CORS ARP	N391828.884	W0801638.619	
DK8257 45072.7	WVS6 SAINT MARY'S CORS ARP	N392545.905	W0811000.259	

NEAREST NGS PUBLISHED CONTROL POINT

JX0256	X 80	N391646.3	W0804040.9	1014.9
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.