west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

January 4, 2023

2022 Waiver Report

Pursuant to W.Va. Code § 22-6A-2(a)(6), commencing on January 1, 2013 and each year thereafter, the Office of Oil and Gas shall submit to the Legislature a written report of the number of waivers of certain minimum requirements of Chapter 22, Article 6A granted by the Secretary during the preceding year. During the 2022 calendar year, the Office of Oil and Gas granted seven (7) waivers from the site restriction requirements of W.Va. Code § 22-6A-12(b), which states:

> No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream....or a wetland...The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.

Copies of the Orders granting the waivers are attached.

Thus submitted, the 4th day of January 2023.

IN THE NAME OF THE STATE OF WEST VIRGINIA:
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL
PROTECTION, STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF

Promoting a healthy environment.

west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: EQT Production Company
625 Liberty Ave., Suite 1700
Pittsburgh, PA 15222

DATE: January 13, 2022
ORDER NO.: 2022-W-1

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to EQT Production Company (hereinafter "EQT" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. EQT is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 625 Liberty Ave., Suite 1700, Pittsburgh, PA 15222.

3. On December 6, 2021, EQT submitted a well work permit application identified as API# 47-103-03474. The proposed well is to be located on the Tesla Pad in the Grant District of Wetzel County, West Virginia.

4. On December 6, 2021, EQT requested a waiver for Wetland D as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03474.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland D from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03474. The Office of Oil and Gas hereby **ORDERS** that EQT shall meet the following site construction and operational requirements for the Tesla Well Pad:

a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
c. Wetland D shall be protected by two layers of forty-eight inch (48") Super Silt Fence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

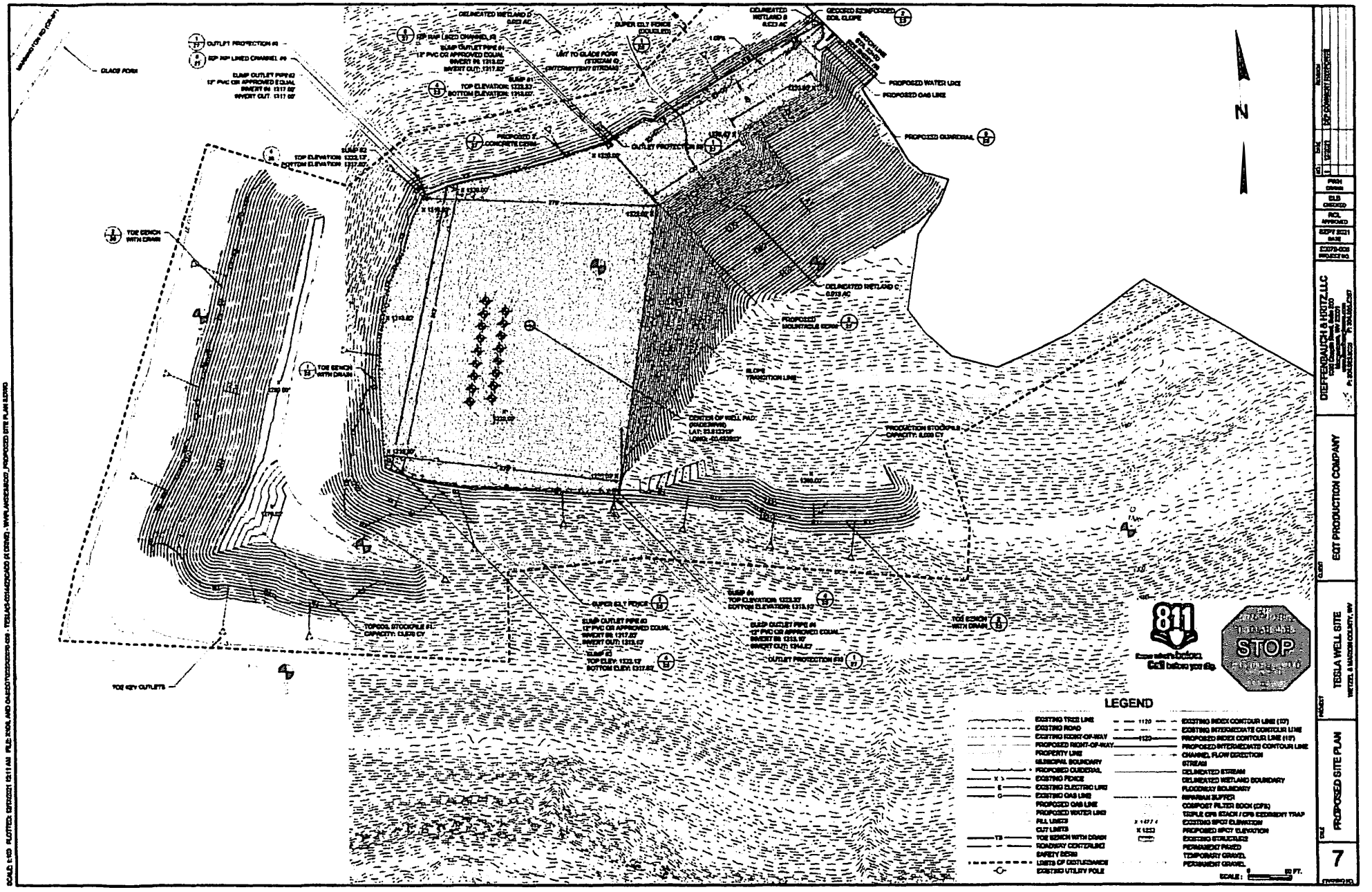
Thus ORDERED, the 13th day of January, 2022.

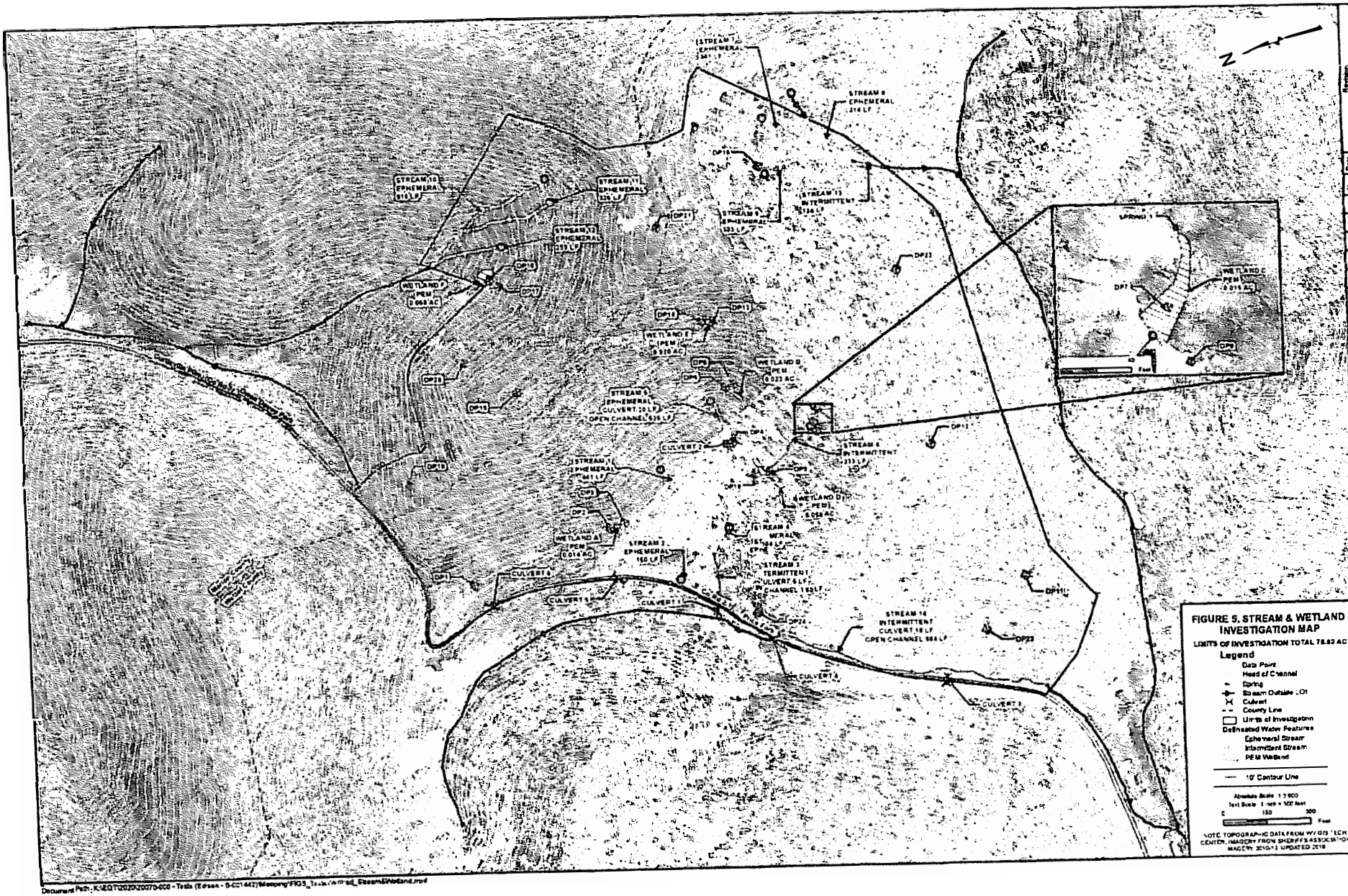
IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF

Attachment 1




STREAM 10 EPHEMERAL 615 LF
STREAM 11 EPHEMERAL 525 LF
STREAM 12 EPHEMERAL 335 LF
WETLAND F PEM 0.069 AC
STREAM 8 EPHEMERAL 314 LF
STREAM 13 INTERMITTENT 134 LF
STREAM 9 EPHEMERAL 323 LF
WETLAND E PEM 0.010 AC
WETLAND B PEM 0.023 AC
STREAM 4 EPHEMERAL CULVERT 30 LF OPEN CHANNEL 625 LF
CULVERT 2
STREAM 6 INTERMITTENT 233 LF
STREAM 1 EPHEMERAL 411 LF
WETLAND D PEM 0.029 AC
WETLAND A PEM 0.014 AC
STREAM 2 EPHEMERAL 160 LF
STREAM 5 EPHEMERAL 157 LF
STREAM 3 TERMITTENT CULVERT 6 LF OPEN CHANNEL 163 LF
CULVERT 6
CULVERT 5
CULVERT 1
STREAM 14 INTERMITTENT CULVERT 18 LF OPEN CHANNEL 666 LF
CULVERT 4
CULVERT 3
SPRING 1
WETLAND C PEM 0.015 AC
DP1
DP2
DP3
DP4
DP5
DP6
DP7
DP8
DP9
DP10
DP11
DP12
DP13
DP14
DP15
DP16
DP17
DP18
DP19
DP20
DP21
DP22
DP23
DP24
N
FIGURE 5. STREAM & WETLAND INVESTIGATION MAP
LIMITS OF INVESTIGATION TOTAL 78.83 AC
Legend
Data Point
Head of Channel
Spring
Stream Outlet
Culvert
County Line
Limits of Investigation
Delineated Water Features
Ephemeral Stream
Intermittent Stream
PEM Wetland
10' Contour Line
Absolute Scale 1:2,800
Test Scale 1 inch = 100 feet
0 150 300 Feet
NOTE: TOPOGRAPHIC DATA FROM WV GIS TECH CENTER, IMAGERY FROM SHERIFF'S ASSOCIATION IMAGERY 2010-12 UPDATED 2018
Revision
No. Date
Drawn NVW
Checked ZTP
Supervised VJA
Date 11/10/2020
Project No. 28970-006
DIEFFENBAUCH & HRITZ
Client EQT PRODUCITON COMPANY
Project TESLA WELL PAD
Wetland & Stream County, West Virginia
Page 1 of 1
Document Path: K:\EQT\2020\20070-000 - Tesla (Edison - S-001442)\Mapping\FIG5_Tesla_WetlandStream&Wetland.mxd

west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
Fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Tug Hill Operating, LLC
380 Southpointe Boulevard, Plaza II., Suite 200
Canonsburg, PA 15317

DATE: February 11, 2022
ORDER NO.: 2022-W-2

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Tug Hill Operating, LLC (hereinafter "Tug Hill" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. Tug Hill is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 380 Southpointe Boulevard, Plaza II., Suite 200, Canonsburg, PA 15317.

3. On November 2, 2021, Tug Hill submitted a well work permit application identified as API# 47-103-03467. The well is located on the Elmer Pad in the Proctor District of Wetzel County, West Virginia.

4. On November 2, 2021, Tug Hill requested a waiver for ASE Wetland 01 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03467.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for ASE Wetland 01 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03467. The Office of Oil and Gas hereby **ORDERS** that Tug Hill shall meet the following site construction and operational requirements for the Elmer Well Pad:

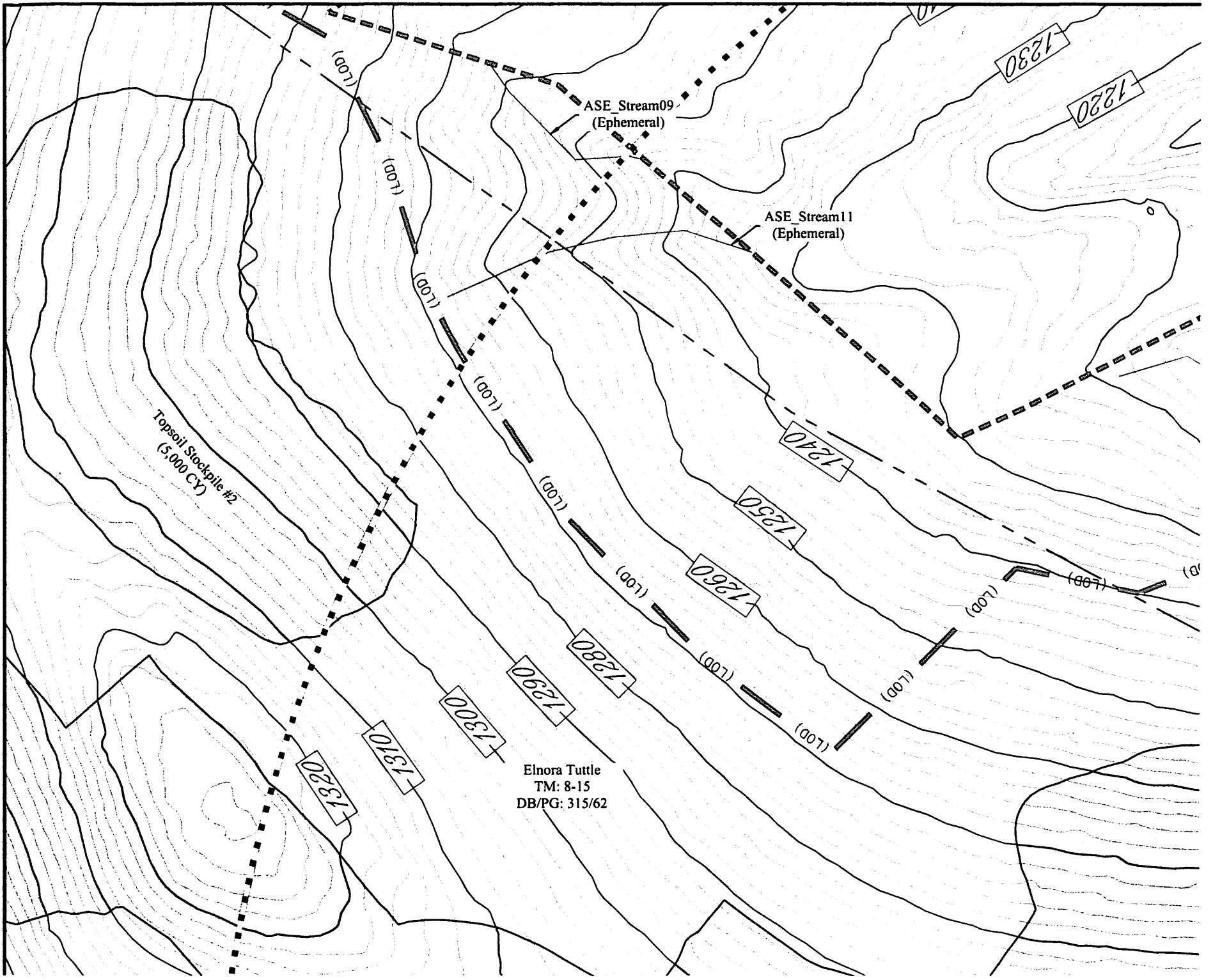
a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. The berm is to be at least twenty-four inches (24") in height;
b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
c. ASE Wetland 01 shall be protected by a layer of both Super Silt Fence and twenty four inch (24") compost filter sock. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland;
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

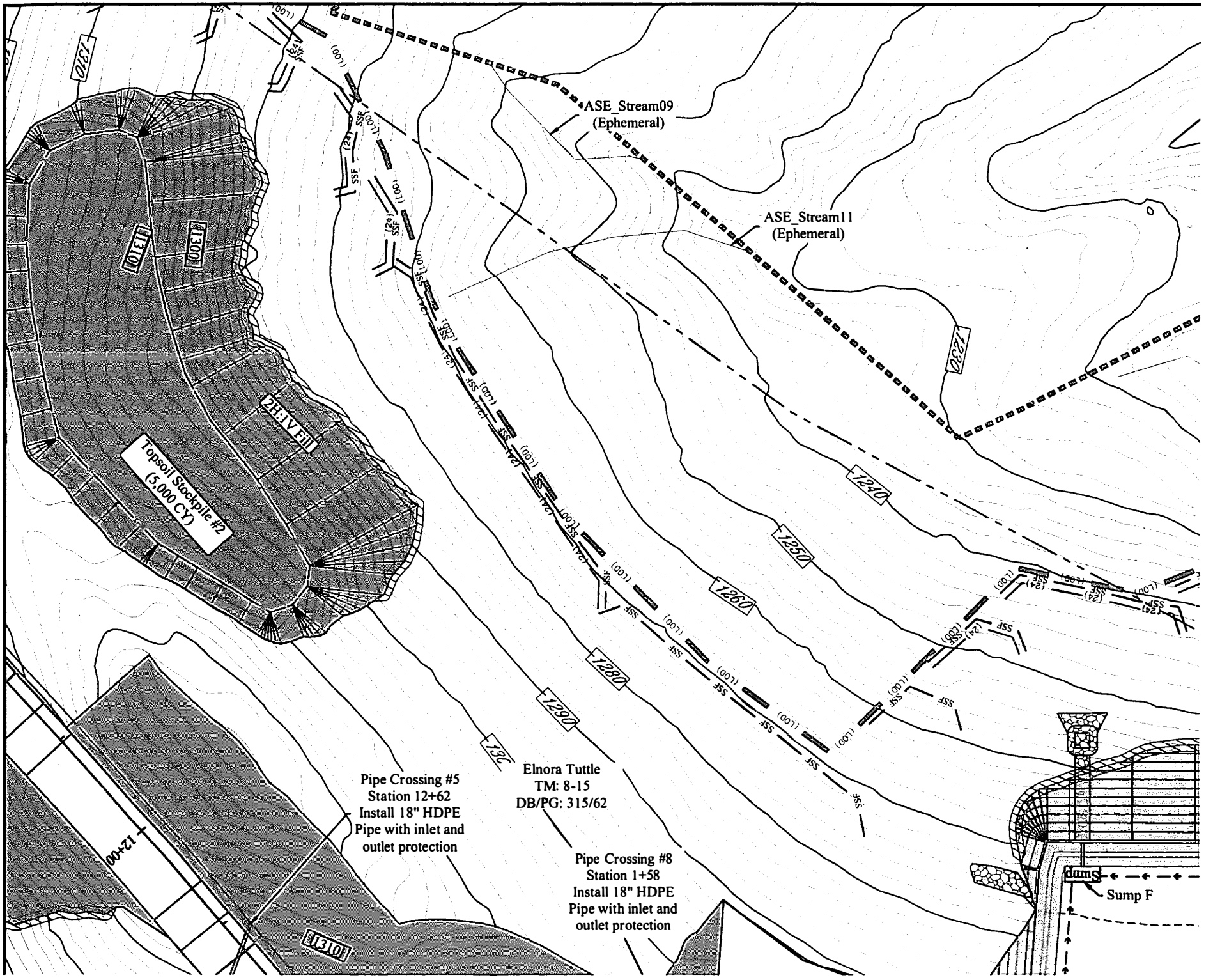
Thus ORDERED, the 11th day of February, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF


ASE_Stream09
(Ephemeral)
ASE_Stream11
(Ephemeral)
Topsoil Stockpile #2
(5,000 CY)
Elnora Tuttle
TM: 8-15
DB/PG: 315/62
1230
1220
1240
1250
1260
1280
1290
1300
1310
1320
(LOD)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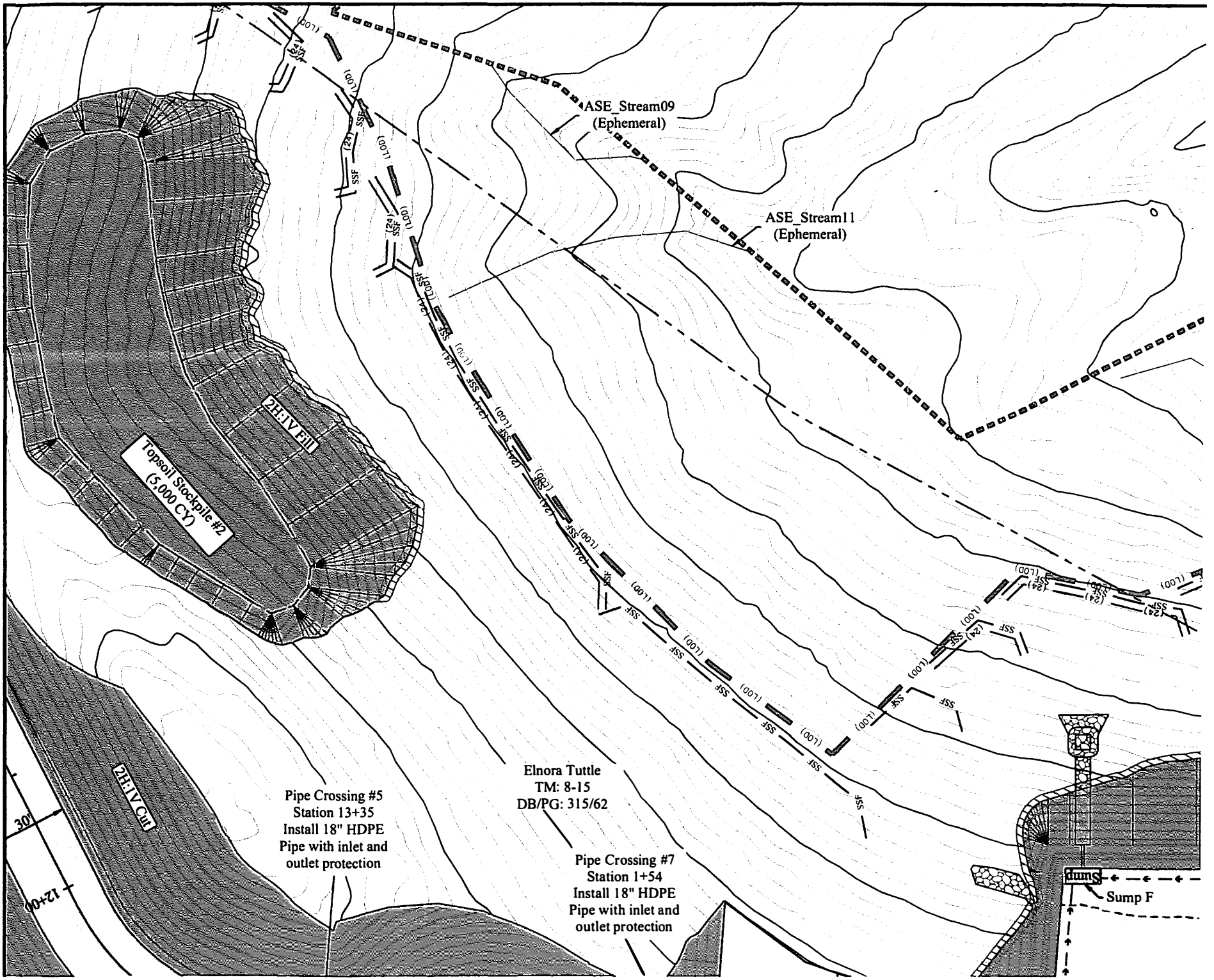
(Ephemeral)
ASE_Stream11
(Ephemeral)
Topsoil Stockpile #2
(5,000 CY)
2H:1V Fill
1310
1300
1290
1280
1270
1260
1250
1240
1230
Pipe Crossing #5
Station 12+62
Install 18" HDPE
Pipe with inlet and
outlet protection
Elnora Tuttle
TM: 8-15
DB/PG: 315/62
Pipe Crossing #8
Station 1+58
Install 18" HDPE
Pipe with inlet and
outlet protection
12+00
Sump F


ASE_Stream09
(Ephemeral)
ASE_Stream11
(Ephemeral)
Topsoil Stockpile #2
(5,000 CY)
2H:1V Fill
2H:1V Cut
Pipe Crossing #5
Station 13+35
Install 18" HDPE
Pipe with inlet and
outlet protection
Elnora Tuttle
TM: 8-15
DB/PG: 315/62
Pipe Crossing #7
Station 1+54
Install 18" HDPE
Pipe with inlet and
outlet protection
Sump F
30'
12+00

west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
Fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

DATE: February 24, 2022
ORDER NO.: 2022-W-3

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Antero Resources Corporation (hereinafter "Antero" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. Antero is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 1615 Wynkoop Street, Denver, CO 80202.

3. On January 27, 2022, Antero submitted a well work permit application identified as API# 47- 17-06920. The well is located on the Locke Pad in the Southwest District of Doddridge County, West Virginia.

4. On January 27, 2022, Antero requested a waiver for Wetlands DC, JB, and KB as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-017-06920.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands DC, JB, and KB from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47- 017-06920. The Office of Oil and Gas hereby **ORDERS** that Antero shall meet the following site construction and operational requirements for the Locke Well Pad:

a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
c. Wetlands DC, JB, and KB shall be protected by two rows of forty-two inch (42") SMARTFence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

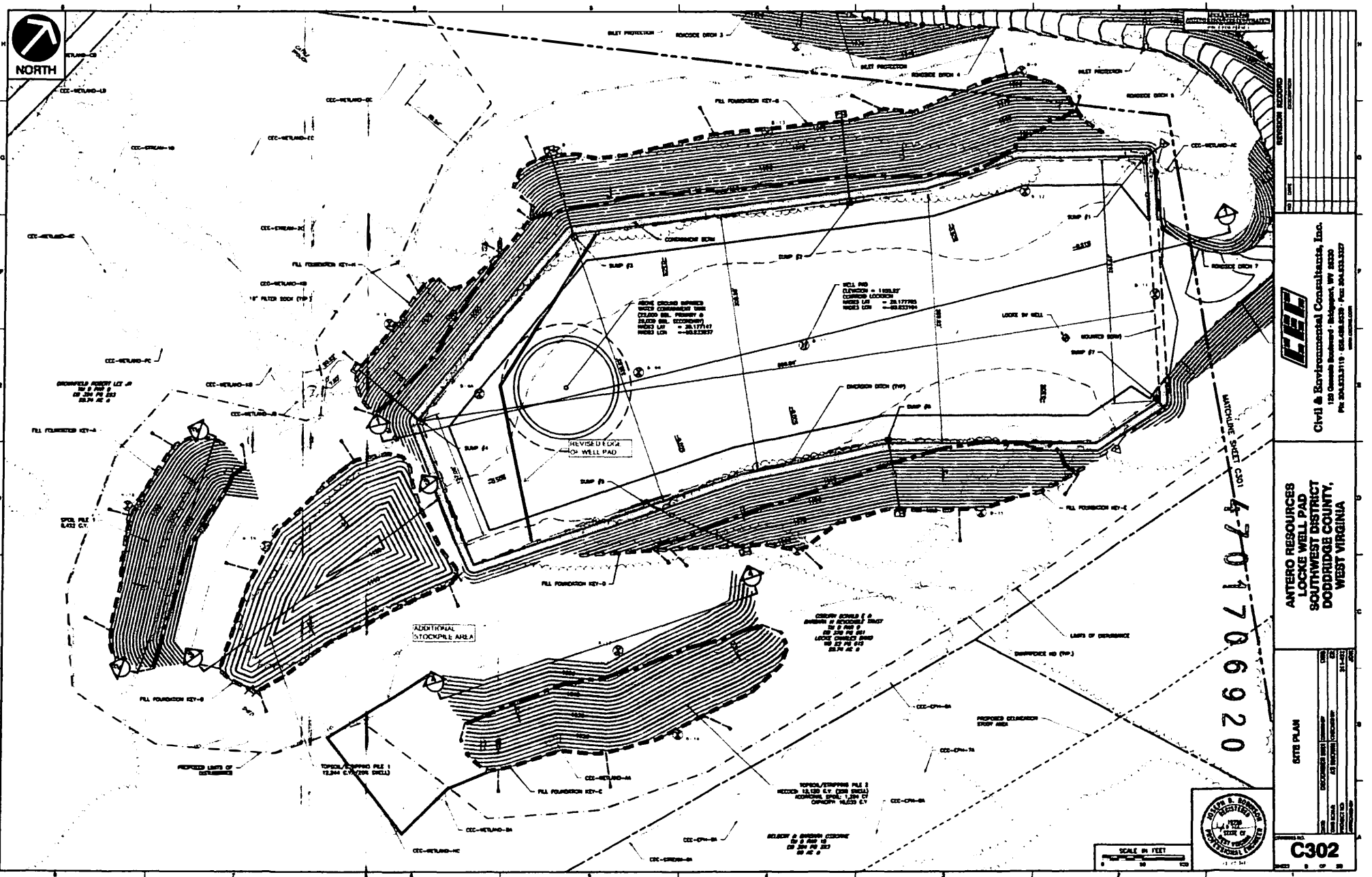
Thus ORDERED, the 24th day of February 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF

Attachment #1



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
Fax: (304) 926-0452

Harold Ward, Cabinet Secretary
dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: HG Energy, LLC
5260 Dupont Circle
Parkersburg, WV 26101

DATE: March 1, 2022
ORDER NO.: 2022-W-4

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to HG Energy, LLC (hereinafter "HG" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. HG is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 5260 Dupont Circle, Parkersburg, WV 26101.

3. On January 27, 2022, HG submitted a well work permit application identified as API# 47-041-05730. The well is located on the Vaneck 1215 Pad in the Freemans Creek District of Lewis County, West Virginia.

4. On January 27, 2022, HG requested a waiver for Wetlands, R, S and X as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05709. Wetlands R and S are outside the LOD limits of the 100' buffer of the pad area and will not be included in this waiver.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland X from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05730. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Vaneck 1215 Well Pad:

a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height.
b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs.
c. Wetland X shall be protected by a layer of Super Silt Fence and eighteen-inch (18") compost filter sock. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual.
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill.
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill.
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls.
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs.
i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period.
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies.
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

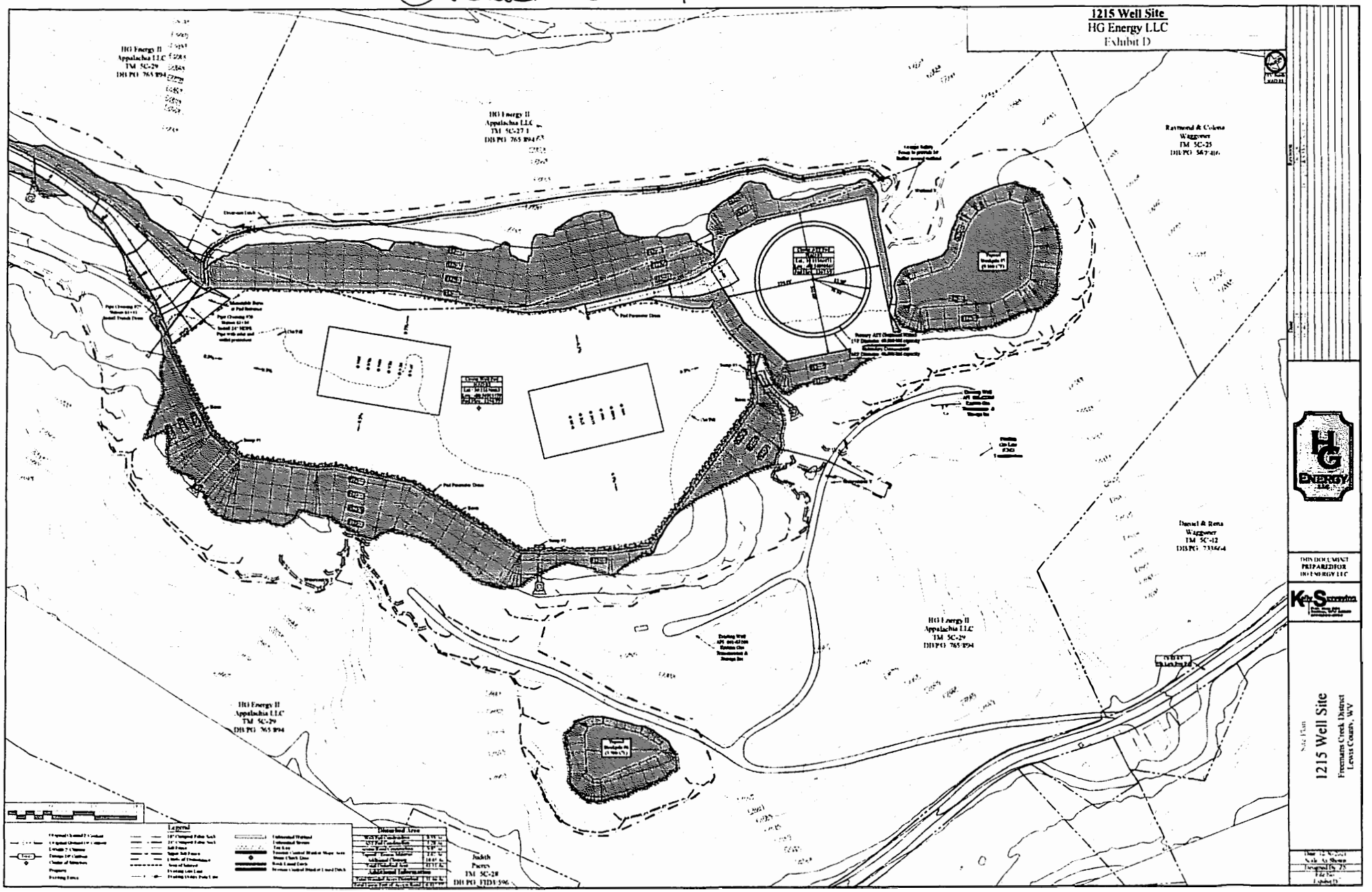
Thus ORDERED, the 1st day of March 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

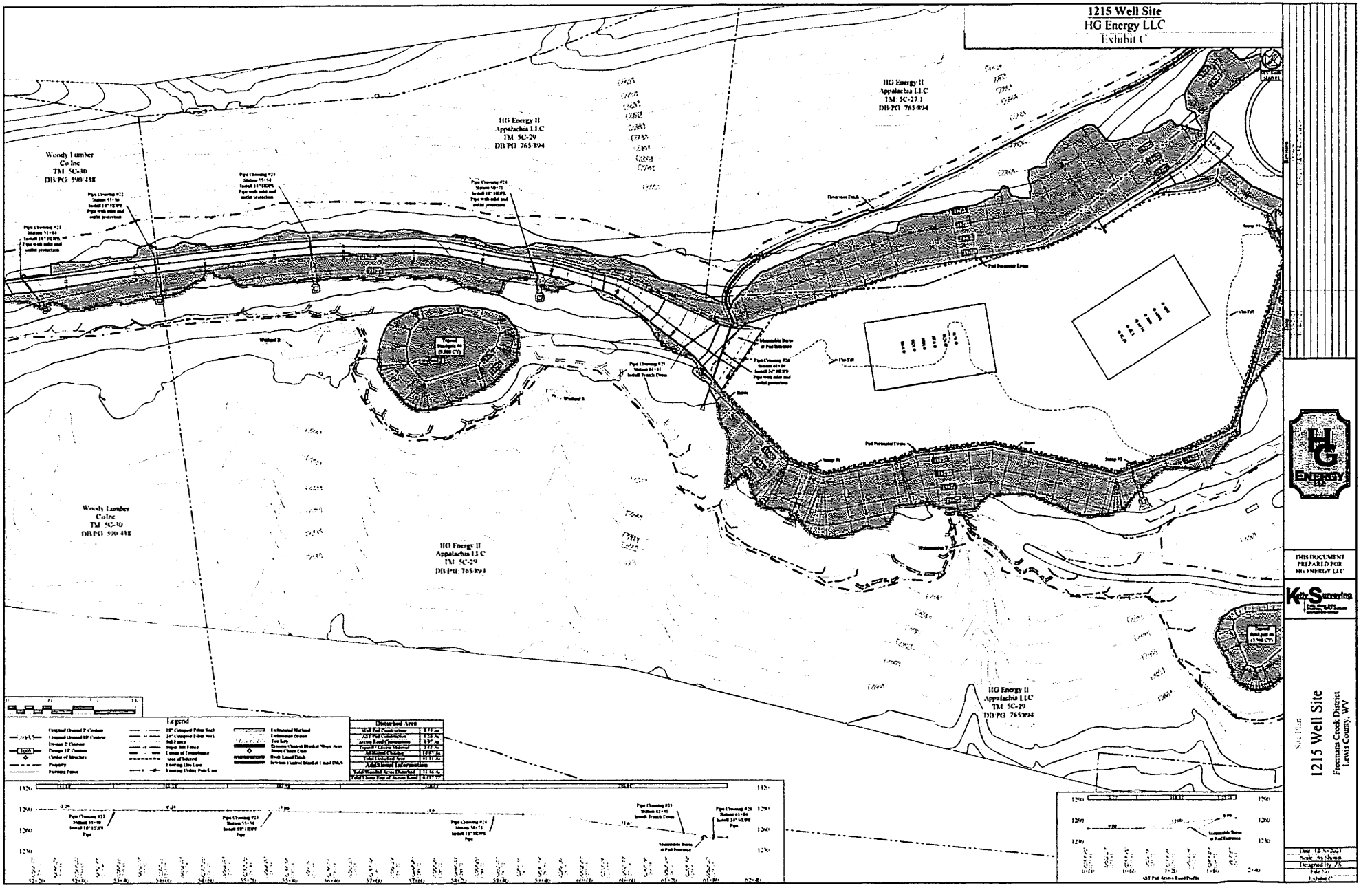
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF

Attachment #1



Attachment #1



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
Fax: (304) 926-0452

Harold Ward, Cabinet Secretary
dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: SWN Production Company, LLC
Post Office Box 12359
Spring, TX 77391-4954

DATE: March 21, 2022
ORDER NO.: 2022-W-5

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to SWN Energy, LLC (hereinafter "SWN" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. SWN is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as Post Office Box 12359, Spring, TX 77391-4954

3. On February 3, 2022, SWN submitted a well work permit application identified as API# 47-069-00334. The well is located on the Shannon Field OHI Pad in the Richland District of Ohio County, West Virginia.

4. On March 14, 2022, SWN requested a waiver for Wetlands W-1, W-2, W-3, W-4, W-5 and W-6 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-069-00334. Wetlands W-1, W-2, W-3, and W-6 are inside the LOD and will be removed during construction, therefore they will not be a part of this waiver. These wetlands will be covered by the ACOE permit for the pad construction.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to…(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands W-4 and W-5 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-069-00334. The Office of Oil and Gas hereby **ORDERS** that SWN shall meet the following site construction and operational requirements for the Shannon Field OHI Well Pad:

a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height.
b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs.
c. Wetlands W-4 and W-5 shall be protected by a two layers twenty four-inch (24") compost filter sock. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual.
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill.
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill.
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls.
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs.
i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period.
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies.
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

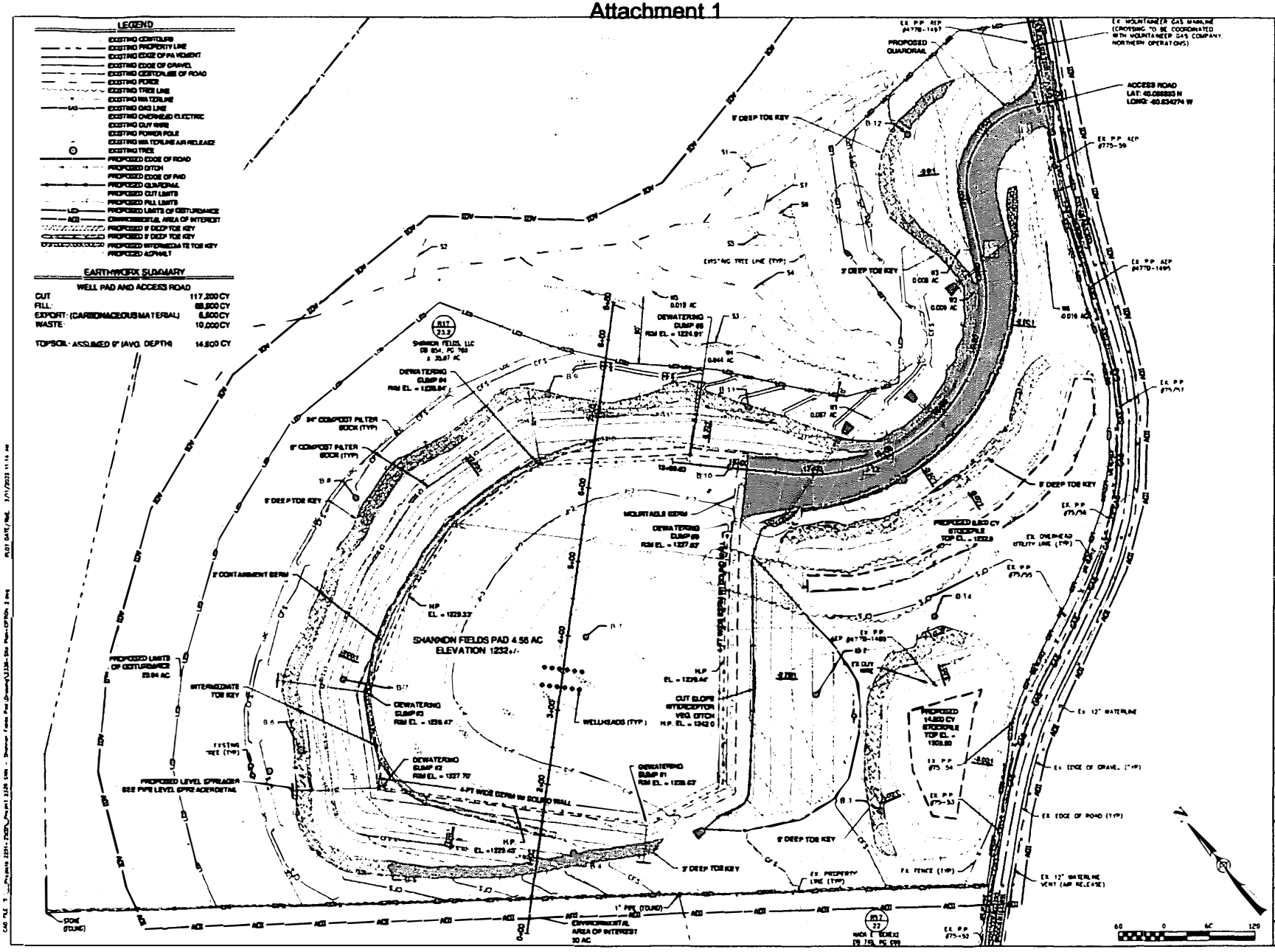
Thus ORDERED, the 21st day of March 2022.

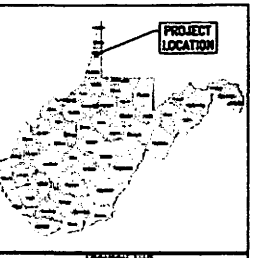
IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF

Attachment 1





LOCATION MAP
NOT TO SCALE

NO.	DATE	DESCRIPTION

2 WORKING DAYS
BEFORE YOU DAY
CALL TOLL FREE
800-245-4848
Miss Utility of West Virginia

PREPARED FOR:

SEAL

JHA (company)
SURVEYORS
ENGINEERS
ENVIRONMENTAL
GIS MAPPING

www.jhacompanies.com

68011 VINEYARD ROAD
ST. CLAIRSVILLE, OH 43950
(740) 695-6100
PA • OH • NY • WV

PROJECT ID	2018-224	DRAWN	CJR
DATE	08/18/18	DESIGN	CJR
SCALE	AS NOTED	CHECKED	JPD

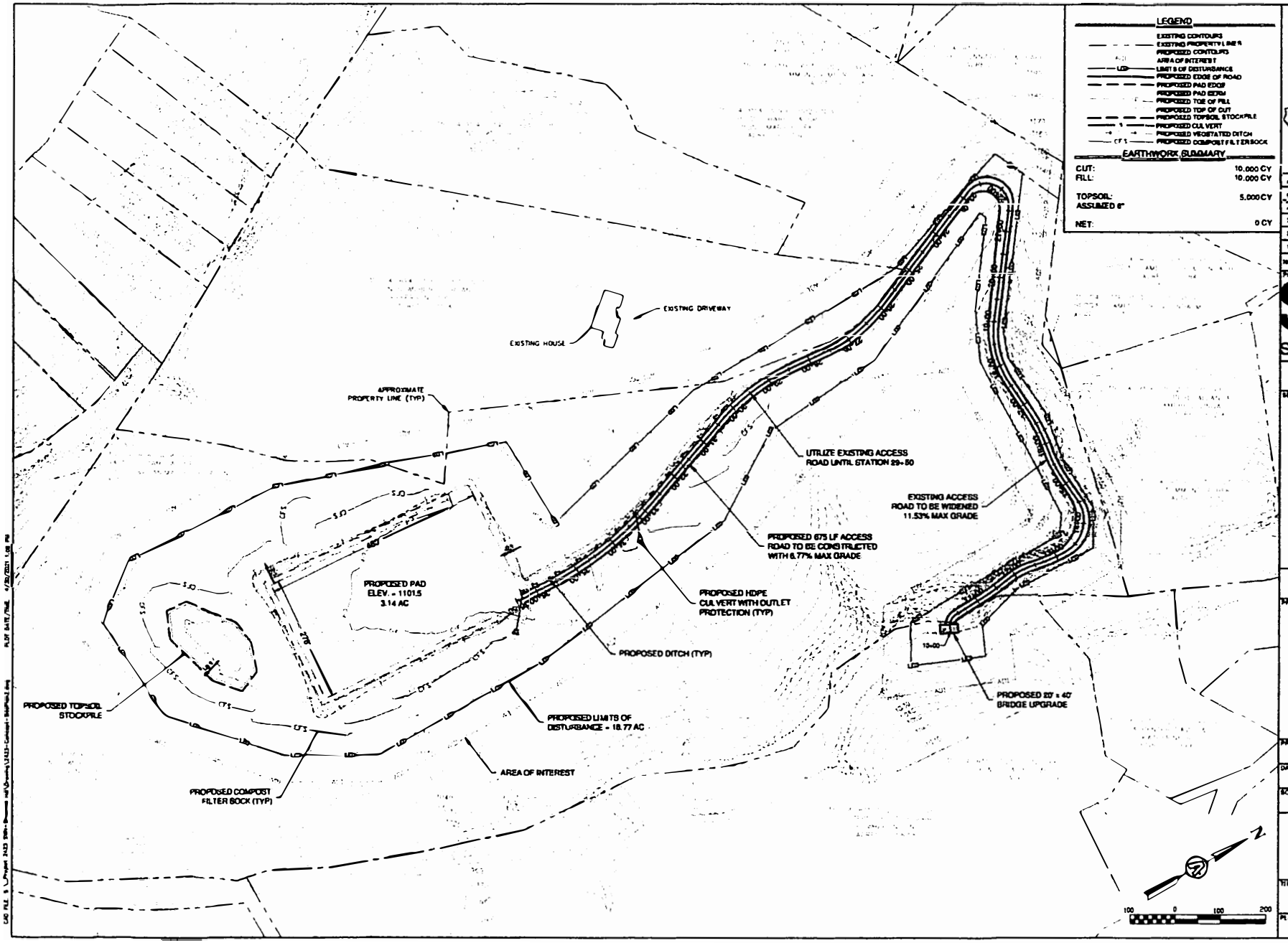
CONCEPT PLANS
FOR
PARKVIEW MEMORIAL GARDENS

LOCATED IN RICHLAND DISTRICT,
OHIO COUNTY, WEST VIRGINIA

TITLE

PLAN STATUS: DRAFT

SHEET NO.



LEGEND

- EXISTING CONTOURS
- EXISTING PROPERTY LINES
- PROPOSED CONTOURS
- AREA OF INTEREST
- LIMITS OF DISTURBANCE
- PROPOSED EDGE OF ROAD
- PROPOSED PAD EDGE
- PROPOSED PAD BERM
- PROPOSED TOE OF FILL
- PROPOSED TOP OF CUT
- PROPOSED TOPSOIL STOCKPILE
- PROPOSED CULVERT
- PROPOSED VEGETATED DITCH
- PROPOSED COMPOST FILTER SOCK

EARTHWORK SUMMARY

CUT:	10,000 CY
FILL:	10,000 CY
TOPSOIL: ASSUMED 6"	5,000 CY
NET:	0 CY

PROJECT LOCATION

LOCATION MAP NOT TO SCALE

NO.	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR

SWN Southwestern Energy®

SEAL

PREPARED BY

ASCENT Consulting & Engineering

2361 DAVISSON RUN ROAD
CLARKSBURG, WV 26301
WWW.ASCENTCONSULTINGENGINEERS.COM
(304) 623-3483

PROJECT NUMBER 2423	DRAWN DRS
DATE 4/28/2021	DESIGN ZLA
SCALE AS SHOWN	CHECKED MRN

CONSTRUCTION PLANS FOR
SWN
SHAWNEE HILL
WHEELING
OHIO COUNTY, WV

TITLE: CONCEPT PLAN

PLAN STATUS: CONCEPT

SHEET No. 1

west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
Fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

DATE: April 25, 2022
ORDER NO.: 2022-W-6

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Antero Resources Corporation (hereinafter "Antero" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. Antero is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 1615 Wynkoop Street, Denver, CO 80202.

3. On March 30, 2022, Antero submitted a well work permit application identified as API# 47-103-03498. The well is located on the Cedar Pad in the Green District of Wetzel County, West Virginia.

4. On March 30, 2022, Antero requested a waiver for Wetlands B, R, S and T as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03498.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands B, R, S and T from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03498. The Office of Oil and Gas hereby **ORDERS** that Antero shall meet the following site construction and operational requirements for the Cedar Well Pad:

a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
c. Wetlands B, R, S and T shall be protected by two rows of forty-two inch (42") SMARTFence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

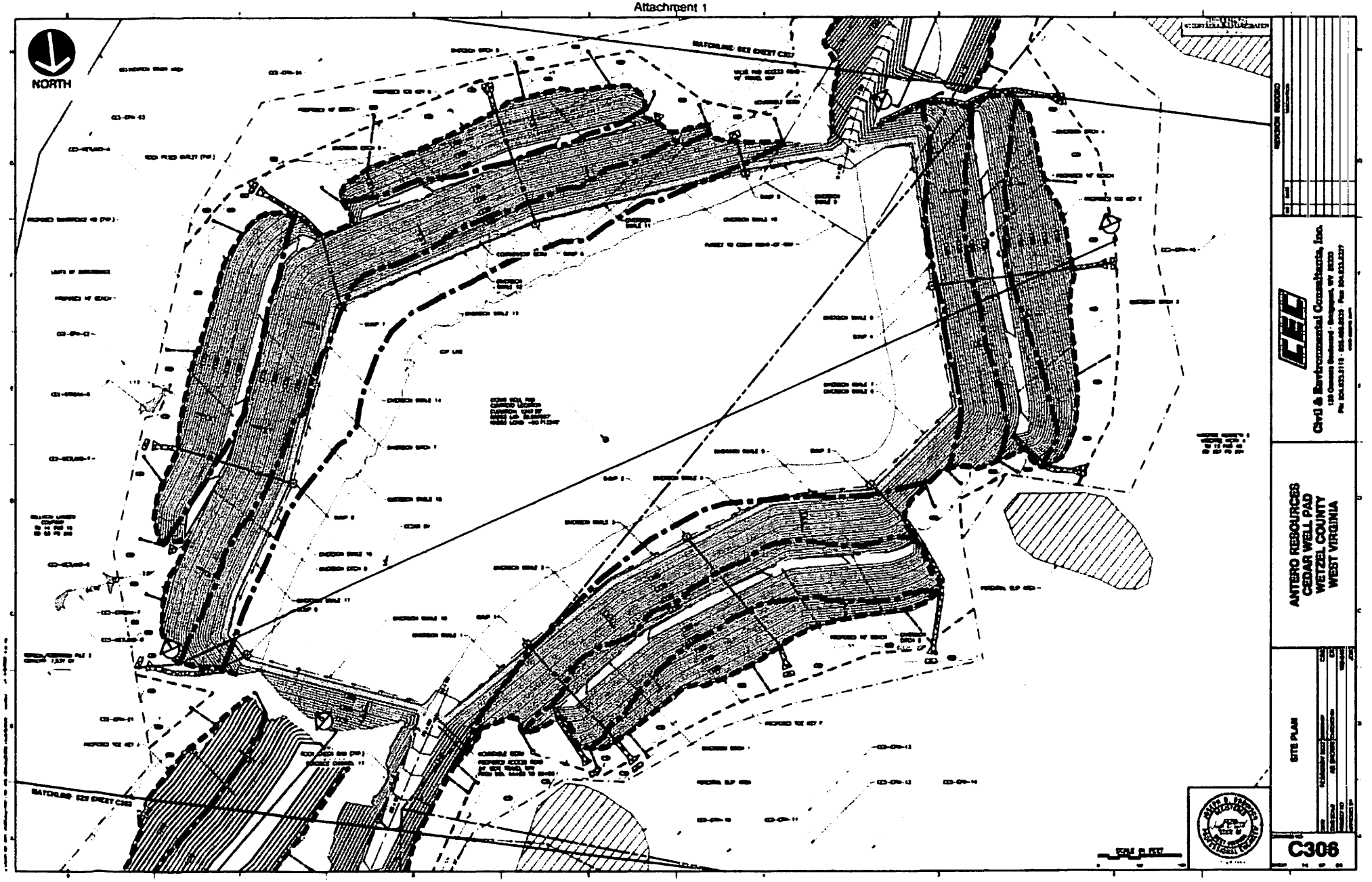
Thus ORDERED, the 25th day of April 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

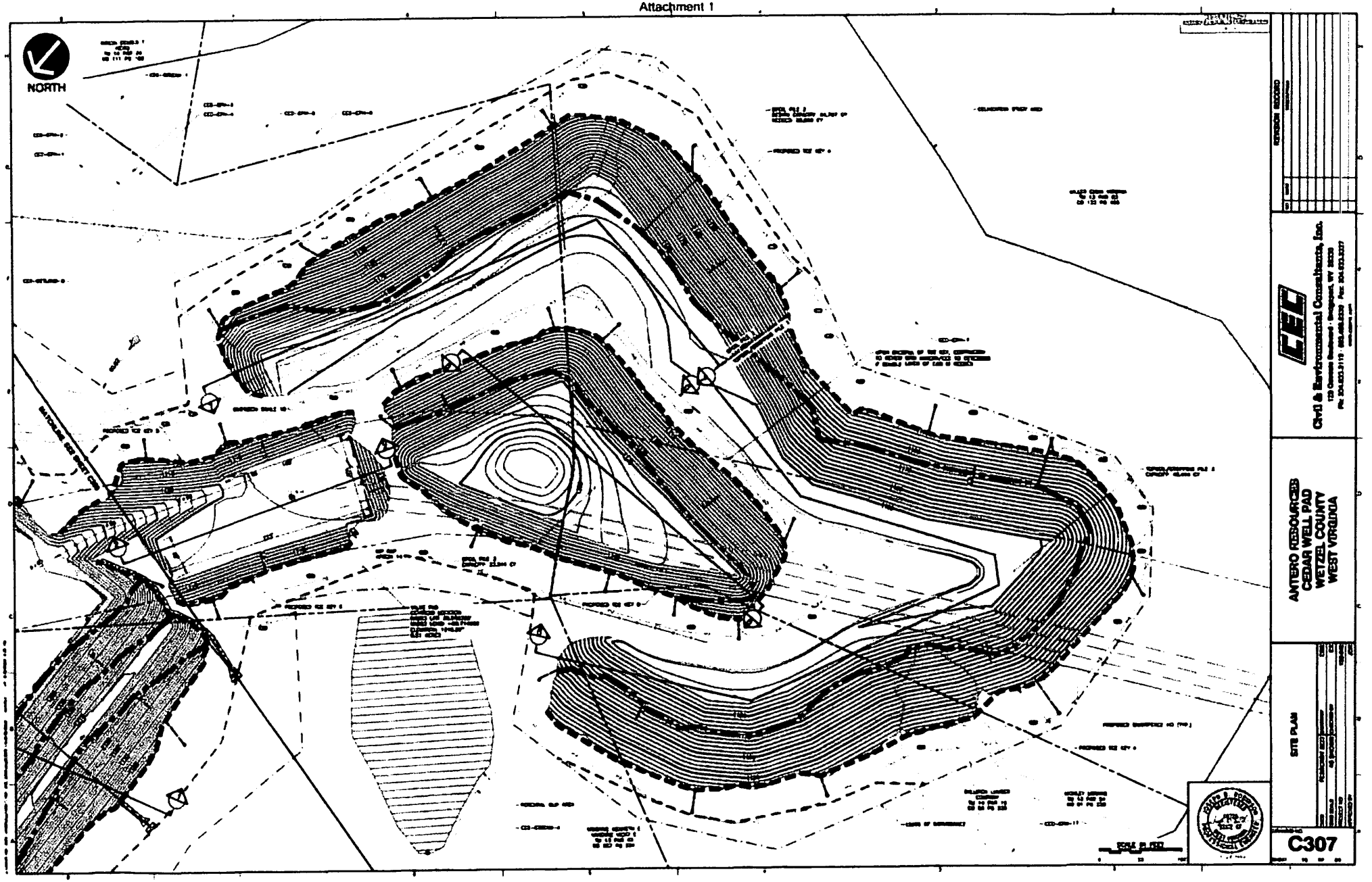
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF

Attachment 1



Attachment 1



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
Fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Tribune Resources, LLC
3861 Ambassador Caffery Park
Lafayette, LA 70503

DATE: November 30, 2022
ORDER NO.: 2022-W-7

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Tribune Resources, LLC (hereinafter "Tribune" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. Tribune is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 3861 Ambassador Caffery Park, Lafayette, LA 70503.

3. On October 17, 2022, Tribune submitted well work permit applications identified as API# 47-095-02831, 47-095-02832, 47-095-02833, 47-095-02834, 47-095-02835, 47-095-02836, 47-095-02837 and 47-095-02838. The well is located on the BFT Pad in the McElroy District of Tyler County, West Virginia.

4. On October 17, 2022, Tribune requested a waiver for Wetlands 1 and 2, along with perennial streams Unnamed Tributary to Left Hand Fork and Left Hand Fork as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-095-02831, 47-095-02832, 47-095-02833, 47-095-02834, 47-095-02835, 47-095-02836, 47-095-02837 and 47-095-02838.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands 1 and 2, along with perennial streams Unnamed Tributary to Left Hand Fork and Left Hand Fork from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-095-02831, 47-095-02832, 47-095-02833, 47-095-02834, 47-095-02835, 47-095-02836, 47-095-02837 and 47-095-02838. The Office of Oil and Gas hereby **ORDERS** that Tribune shall meet the following site construction and operational requirements for the BFT Well Pad:

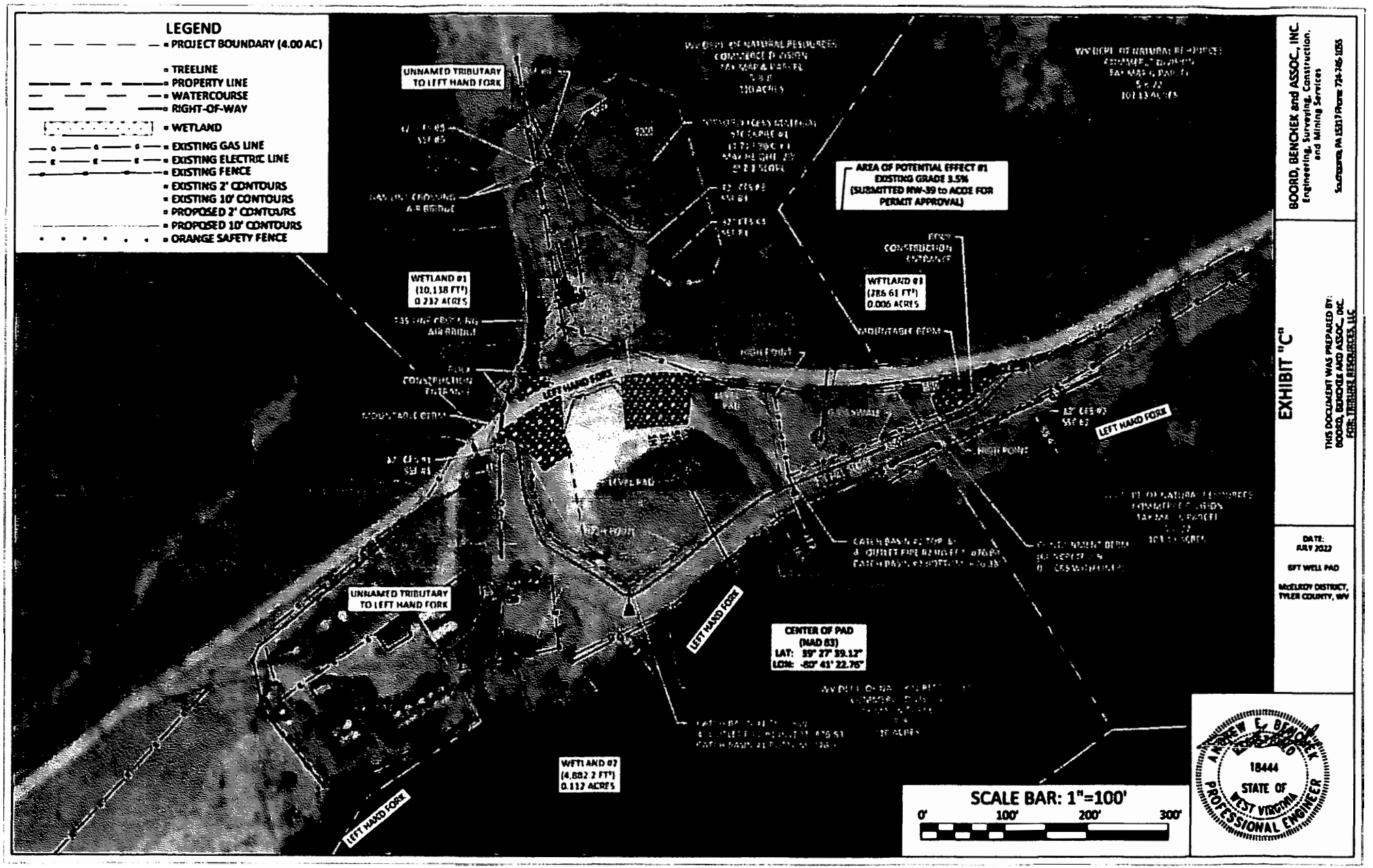
a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
c. Wetlands 1 and 2, along with perennial streams Unnamed Tributary to Left Hand Fork and Left Hand Fork shall be protected by thirty two inch (32") compost filter sock and super silt fence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands;
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

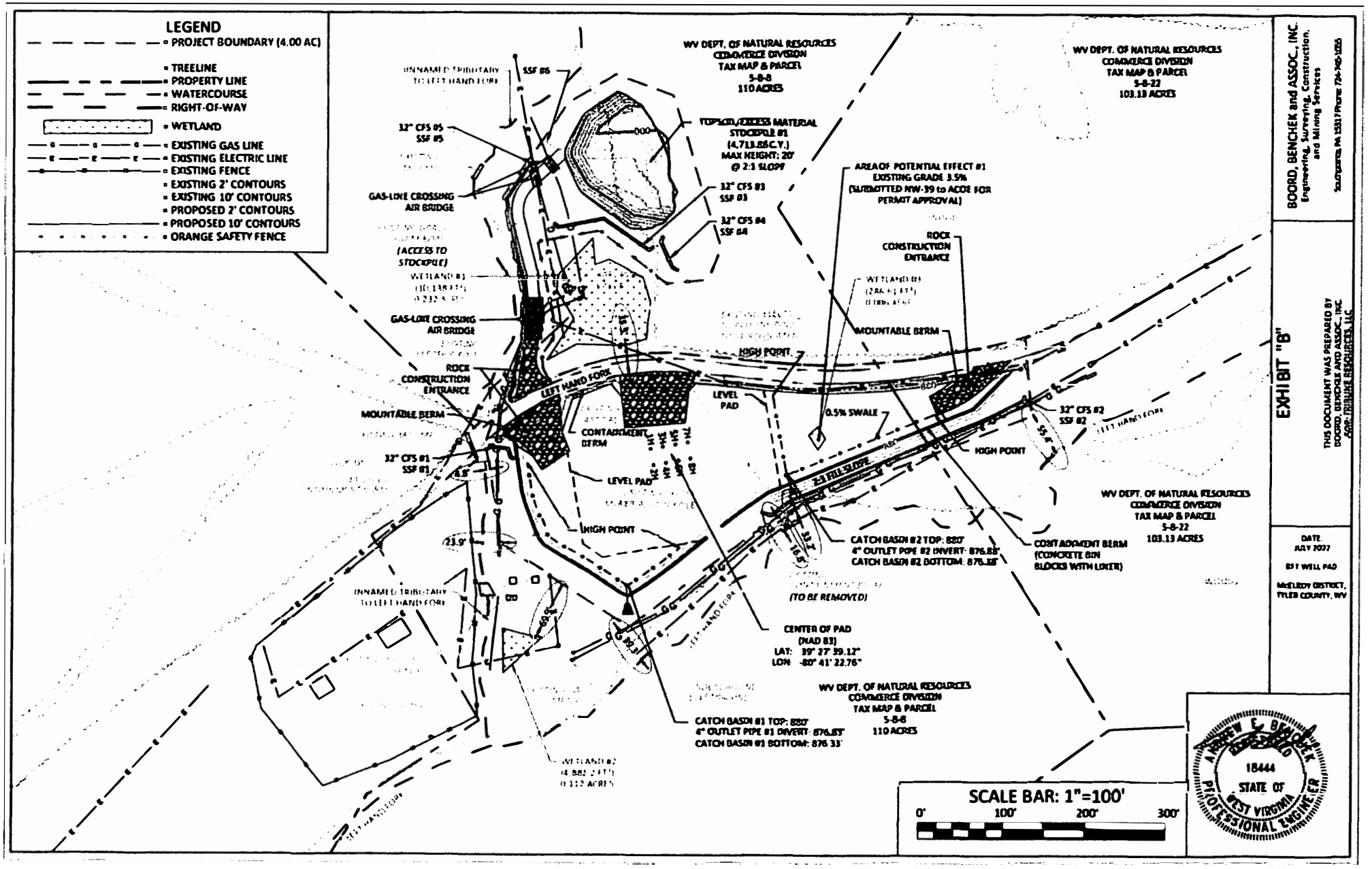
Thus ORDERED, the 30th day of November 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: _____
JAMES A. MARTIN, CHIEF


LEGEND
PROJECT BOUNDARY (4.00 AC)
TREELINE
PROPERTY LINE
WATERCOURSE
RIGHT-OF-WAY
WETLAND
EXISTING GAS LINE
EXISTING ELECTRIC LINE
EXISTING FENCE
EXISTING 2' CONTOURS
EXISTING 10' CONTOURS
PROPOSED 2' CONTOURS
PROPOSED 10' CONTOURS
ORANGE SAFETY FENCE
UNNAMED TRIBUTARY TO LEFT HAND FORK
AREA OF POTENTIAL EFFECT #1
EXISTING GRADE 3.5%
(SUBMITTED NW-39 to ACOE FOR PERMIT APPROVAL)
WETLAND #1
(10,118 FT²)
0.232 ACRES
WETLAND #3
(286.61 FT²)
0.006 ACRES
LEFT HAND FORK
LEVEL PAD
CENTER OF PAD
(NAD 83)
LAT: 39° 27' 39.12"
LON: -80° 41' 22.76"
WETLAND #2
(4,882.2 FT²)
0.112 ACRES
SCALE BAR: 1"=100'
0'
100'
200'
300'
BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction, and Mining Services
Southpointe, PA 15317 Phone: 724-745-1055
EXHIBIT "C"
THIS DOCUMENT WAS PREPARED BY: BOORD, BENCHEK AND ASSOC., INC. FOR: TRIBINE RESOURCES, LLC
DATE: JULY 2022
EFT WELL PAD
McELROY DISTRICT, TYLER COUNTY, WV
ANDREW E. BENCHEK
18444
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER


LEGEND
PROJECT BOUNDARY (4.00 AC)
TREELINE
PROPERTY LINE
WATERCOURSE
RIGHT-OF-WAY
WETLAND
EXISTING GAS LINE
EXISTING ELECTRIC LINE
EXISTING FENCE
EXISTING 2' CONTOURS
EXISTING 10' CONTOURS
PROPOSED 2' CONTOURS
PROPOSED 10' CONTOURS
ORANGE SAFETY FENCE
WV DEPT. OF NATURAL RESOURCES
COMMERCE DIVISION
TAX MAP & PARCEL
5-8-8
110 ACRES
WV DEPT. OF NATURAL RESOURCES
COMMERCE DIVISION
TAX MAP & PARCEL
5-8-22
103.13 ACRES
TOPSOIL/EXCESS MATERIAL STOCKPILE #1
(4,713.86 C.Y.)
MAX HEIGHT: 20'
@ 2:1 SLOPE
AREA OF POTENTIAL EFFECT #1
EXISTING GRADE 3.5%
(SUBMITTED NW-39 to ACOE FOR PERMIT APPROVAL)
32" CFS #5
SSF #5
32" CFS #3
SSF #3
32" CFS #4
SSF #4
32" CFS #2
SSF #2
32" CFS #1
SSF #1
GAS-LINE CROSSING AIR BRIDGE
(ACCESS TO STOCKPILE)
ROCK CONSTRUCTION ENTRANCE
MOUNTABLE BERM
HIGH POINT
LEFT HAND FORK
LEVEL PAD
0.5% SWALE
CONTAINMENT BERM
2:1 FILL SLOPE
CATCH BASIN #2 TOP: 880'
4" OUTLET PIPE #2 INVERT: 876.88'
CATCH BASIN #2 BOTTOM: 876.38'
CONTAINMENT BERM (CONCRETE BIN BLOCKS WITH LINER)
(TO BE REMOVED)
CENTER OF PAD
(NAD 83)
LAT: 39° 27' 39.12"
LON: -80° 41' 22.76"
CATCH BASIN #1 TOP: 880'
4" OUTLET PIPE #1 INVERT: 876.83'
CATCH BASIN #1 BOTTOM: 876.33'
INNAMED TRIBUTARY TO LEFT HAND FORK
SCALE BAR: 1"=100'
0' 100' 200' 300'
BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction, and Mining Services
Sutersville, PA 15317 Phone: 724-745-1255
EXHIBIT "B"
THIS DOCUMENT WAS PREPARED BY BOORD, BENCHEK AND ASSOC., INC. FOR: TRIBUNE RESOURCES, LLC
DATE
JULY 2022
B3T WELL PAD
McELROY DISTRICT, TYLER COUNTY, WV
ANDREW E. BENCHEK
18444
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER