



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, August 15, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HINES M08H
47-051-01930-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: HINES M08H
Farm Name: DONALD HINES ET UX
U.S. WELL NUMBER: 47-051-01930-00-00
Horizontal 6A / New Drill
Date Issued: 8/15/2017

Promoting a healthy environment.

08/18/2017

PERMIT CONDITIONS 7 0 5 1 0 1 9 7 0

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

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11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



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601 57th Street
Charleston, WV 25304
(304) 926-0450 fax (304) 926-0452

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

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

TO: Chevron Appalachia, LLC
800 Mountain View Drive
Smithfield, PA 15478

DATE: August 14, 2017
ORDER NO.: 2017-W-9

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 Chevron Appalachia, LLC (hereinafter “Chevron” 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. Chevron is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 800 Mountain View Drive, Smithfield, Pennsylvania.
3. On April 24, 2017, Chevron submitted well work permit applications identified as API#s 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. The eight proposed wells are to be located on the Hines Pad in Washington District of Marshall County, West Virginia.
4. On April 24, 2017, Civil and Environmental Consultants, Inc. (CEC), on behalf of Chevron, requested a waiver for Wetlands 2A, 2B, 3A, and 3B 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#s 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. Wetlands 3A and 3B will be excluded from this waiver due to being located outside the area of the pad LOD.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n 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 “[n]o 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

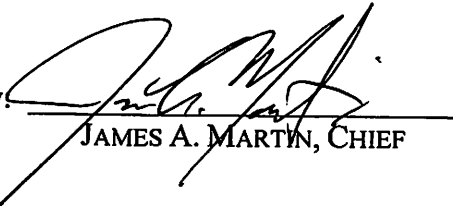
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands 2A and 2B from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. The Office of Oil and Gas hereby **ORDERS** that Chevron shall meet the following site construction and operational requirements for the Hines 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 2A shall have two layers of eighteen-inch (18”) compost filter sock trap to prevent sediment from reaching the wetlands.
- d. Wetland 2B shall have two layers of twenty-four inch (24”) compost filter sock trap to prevent sediment from reaching the wetlands.
- e. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- f. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- g. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- h. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- i. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- j. 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;
- k. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- l. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 14th day of August, 2017.

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

CHEVRON APPALACHIA, LLC
 4000 Triangle Lane, Suite 200 - Export, PA 15622
 724-227-5200 - 800-699-2810

PROJECT NUMBER: 140510032
 DRAWING DATE: 12/27/17
 DATE ISSUED: 02/27/17
 DRAWN BY: JAM
 CHECKED BY: JAM
 PROJECT MANAGER: JAM

PREPARED FOR:
CHEVRON APPALACHIA, LLC
 800 MOUNTAIN VIEW DRIVE
 SMITHFIELD, PA 15476

WASHINGTON DISTRICT
 MARSHALL COUNTY, WEST VIRGINIA

FIG. 3
 WETLAND WAIVER
 REQUEST FIGURE

REVISION RECORD

DATE	DESCRIPTION
07/20/17	REVISED PER WORK COMMENT

LEGEND

- EXISTING PROPERTY LINE
- EXISTING MOOD CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING PASSED ROADWAY
- EXISTING UNPASSED ROADWAY
- EXISTING GAS LINE
- EXISTING WATERLINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING TELECOMMUNICATION LINE
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING MEASURE
- EXISTING UTILITY POLE
- EXISTING PIPE LAYOUT
- EXISTING FOUNDATION
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED WELL PAD AND CELLAR
- PROPOSED FORMER SITE
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED MOOD CONTOUR
- PROPOSED DRAINAGE
- PROPOSED BUMP UPON
- PROPOSED DRAINAGE CONSTRUCTION PAD
- PROPOSED EXISTENCE CONTROL BLANKET

EDWARD KNUTH
 14-12/27

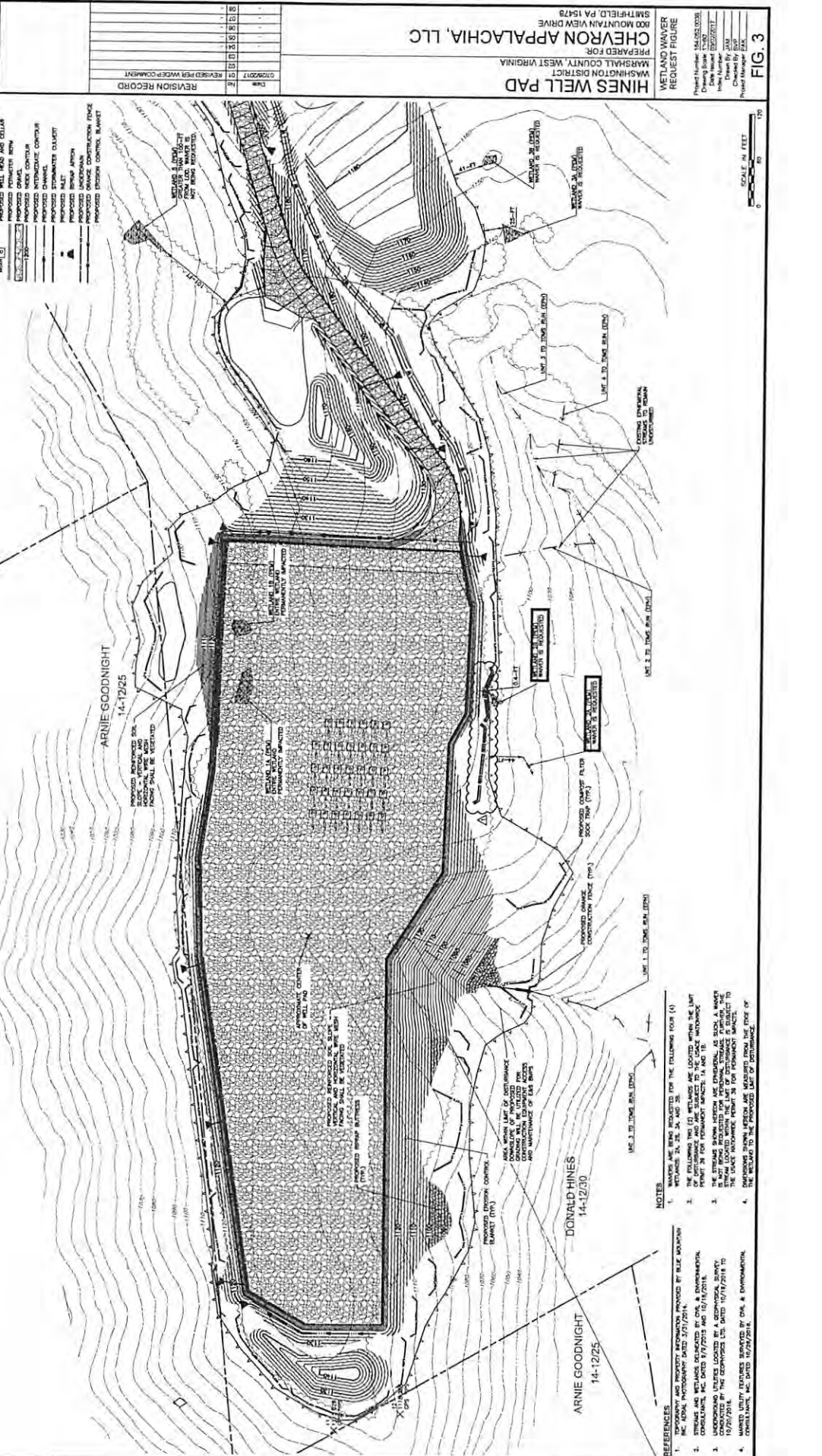
ARNIE GOODNIGHT
 14-12/25

DONALD HINES
 14-12/30

APPROVED
 WVDEP OOG
 8/11/2017

NORTH

SCALE IN FEET
 0 50 100



- NOTES**
1. WAIVERS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS 2A, 2B, 2A, AND 2B.
 2. THE FOLLOWING TWO (2) WETLANDS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE: WETLAND 2A AND WETLAND 2B.
 3. STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.
 4. THE STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.
 5. THE STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.
 6. THE STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.
 7. THE STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.
 8. THE STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.
 9. THE STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.
 10. THE STREAMS 2A AND 2B ARE LOCATED WITHIN THE WETLAND WAIVER AREA.

- REFERENCES**
1. EXISTING AND PROPERTY INFORMATION PROVIDED BY RILEY MOONSHAW CONSULTANTS, INC. DATED 5/7/2013 AND 10/7/2014.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY, 10/20/2014. THE CERTIFICATE IS DATED 10/27/2014 TO COMPLY WITH THE REQUIREMENTS OF 30 CFR 16.01(b)(2).
 3. MARSH COUNTY, WEST VIRGINIA. WETLAND WAIVER REQUEST FOR WETLANDS 2A, 2B, 2A, AND 2B. DATED 10/24/2014.



March 2, 2017

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25304

Dear Reviewer:

Subject: Wetland and Perennial Stream Waiver Request Form
Chevron Appalachia, LLC
Hines Well Pad Project
Washington District, Marshall County, West Virginia
CEC Project 164-052

1.0 INTRODUCTION

On behalf of Chevron Appalachia, LLC (Chevron), Civil & Environmental Consultants, Inc. (CEC) is submitting a Wetland and Perennial Stream Waiver Request form pursuant to Chapter 22 Article 6A Section 12 of the West Virginia Code. Chevron is requesting a waiver to construct a natural gas well pad within 100 feet of four (4) palustrine emergent wetlands for their proposed Hines Well Pad Project located in Washington District, Marshall County, West Virginia.

Chevron is proposing to construct a natural gas well pad and associated access road. The total limit of disturbance (LOD) for the project is approximately 19 acres. The waiver request form is included in Attachment A. The following figures are included in Attachment B: Site Location Map, Aquatics Impact Map, and Wetland Waiver Request Figure. The Erosion & Sediment Control (E&S) Plan is included in Attachment C. Existing wetlands and streams were delineated by qualified CEC biologists on September 9, 2015 and October 18, 2016. The following section provides additional information as required by the waiver.

2.0 WETLAND WAIVER REQUEST

Question 1: Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The proposed Hines Well Pad Project is located off Campbell Hill Road in Washington District, Marshall County, West Virginia southeast of the City of Moundsville, as shown on the Site Location Map. The project's proposed LOD is located within 100 feet of four (4) wetlands, as shown on the Aquatic Impacts Map. The approximate distance of each wetland to the nearest boundary of the LOD is as follows:

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- Wetland 2A – 44 linear feet;
- Wetland 2B – 0.4 linear feet;
- Wetland 3A – 25 linear feet; and
- Wetland 3B – 41 linear feet.

No perennial streams are located within 100 feet of the project LOD. A waiver is not being requested for the wetlands and the ephemeral stream located within the LOD, which includes Wetlands 1A and 1B and an unnamed tributary (UNT) 1 to Toms Run. Chevron is requesting authorization from the U.S. Army Corps of Engineers (USACE) Pittsburgh District for impacts to these features. A copy of the Nationwide Permit 39 Application to the USACE for these impacts is included in Attachment D.

Question 2: Justify the proposed activity by describing alternatives to this project that were considered.

- a. Include a No-Action Alternative as to show “the future without the project”.*

The No-Action alternative represents “no alteration” of the existing environment, meaning the site would not be developed and no immediate environmental impacts would occur. Oil and gas extraction would not occur at this site, and Chevron would be required to find an alternative site. This option is highly undesirable and would not fulfill the project’s purpose and need.

- b. Location alternatives must be shown.*

The current single well pad and access road design approach of the Hines Well Pad combines three separate well pads and access roads that were conceptually planned by Chevron in the vicinity of the Hines Well Pad location. The overall earth disturbance of three separate projects would have been greater than the current one pad and access road project. Further, on the Hines property, the current location is the primary desired location due to the size of the proposed well pad and the steep topography of the surrounding area. Minor adjustments to the dimensions of the proposed well pad were made during the conceptual planning phase of the project; however, the current location of the well pad has remained unchanged due to the limitations listed above. The size of the well pad is optimized for the extraction and production equipment that will be set on the well pad. As such, minimizing the dimensions of the well pad beyond the dimensions provided is not feasible. The location of the well pad and LOD are shown on Figure 3 – Wetland Waiver Request Figure provided in Attachment B.

c. *Must demonstrate why a one hundred foot buffer cannot be maintained.*

Maintaining a 100-foot buffer from all on-site wetlands is not feasible due to topographic constraints and locations of the existing features. The four (4) wetlands that are located within 100 feet of the LOD are located on the southern side of the proposed well pad and access road. In order to maintain a 100-foot buffer from the four (4) wetlands, the well pad and access road would need to be shifted north, which is not feasible due to the steep topography located to the north of the proposed well pad. In addition, shifting the access to the north would cause the LOD to be within 100 feet of Wetland 5.

The other alternative to meet the setback requirements would be a reduction in the project's footprint; however, the proposed design represents the minimum footprint required to meet the project's purpose and need. A reduction in the well pad's limits would mean the project could not be developed.

d. *Describe how the proposed project is the least environmentally damaging practicable alternative.*

As stated above, the current Hines Well Pad has been designed to take the place of three separate well pad and access road projects. As such, the singular well pad and access road will have less earth disturbance than the three separate projects. The current proposed Hines Well Pad design represents the alternative which reduces permanent impacts to the greatest degree practicable. Shifting the proposed well pad south or north would create higher fill slopes, and greater disturbance to existing streams and wetlands.

Question 3: Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

As part of the well pad permitting process, an E&S Plan has been prepared for the Hines Well Pad project which stipulates implementations to reduce soil erosion, compaction, and sedimentation of receiving streams and wetlands. The following measures will be implemented as part of the E&S Plan to protect the existing wetlands and streams:

- Compost filter sock traps will be positioned downslope of larger drainage areas and upslope of the existing wetlands and/or ephemeral streams;
- Compost filter socks will be positioned downslope of smaller drainage areas and upslope of the existing wetlands and/or ephemeral streams;

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- Orange construction fence will be erected along the edge of the LOD to clearly mark and help protect the wetlands from being impacted during construction operations;
- Erosion control blanket will be placed on slopes greater than 3 Horizontal to 1 Vertical (3H:1V) to limit erosion and promote vegetative growth;
- Riprap aprons will be constructed at the outfalls of pipes to dissipate runoff;
- Disturbed areas within the LOD shall be stabilized within 21 days of construction activity temporarily or permanently ceasing; and
- The ephemeral stream located within the LOD and downgradient of the proposed fill slope toe-key outlet drain will be restored to approximate original dimensions and lined with riprap.

Question 4: Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect wetlands and/or perennial streams for which the waiver is sought.*

Refer to the E&S Plan and details in Attachment C for locations of erosion control measures, specifications on installation and maintenance requirements, and the construction sequence.


3.0 CLOSING

We appreciate your review of this Wetland and Perennial Stream Waiver Request Form. Please contact Katie Moberg at 724-327-5200 or kmoberg@cecinc.com, if you have any questions or require additional information.

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC


Sarah V. Parker
Assistant Project Manager


Katie L. Moberg
Project Manager

SVP:KLM/jg
Enclosures

cc: Jenny Hayes, Chevron Appalachia, LLC

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ATTACHMENT A

WETLAND AND PERENNIAL STREAM WAIVER REQUEST FORM

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08/18/2017

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: _____

Well Operator: Chevron Appalachia, LLC

Well Number: _____ Well Pad Name: Hines Well Pad

County, District, Quadrangle of Well Location: Marshall County, Washington District, Moundsville Quad

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(b) 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 department 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 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.

§22-6A-12(c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section.

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08/18/2017

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Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: _____

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

- 1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.**

Please refer to Section 2.0, Question 1 of the letter.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.**

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

Please refer to Section 2.0, Question 2 of the letter.

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Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: _____

3. **Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.**

Please refer to Section 2.0, Question 3 of the letter.

4. **Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

Please refer to Section 2.0, Question 4 of the letter.

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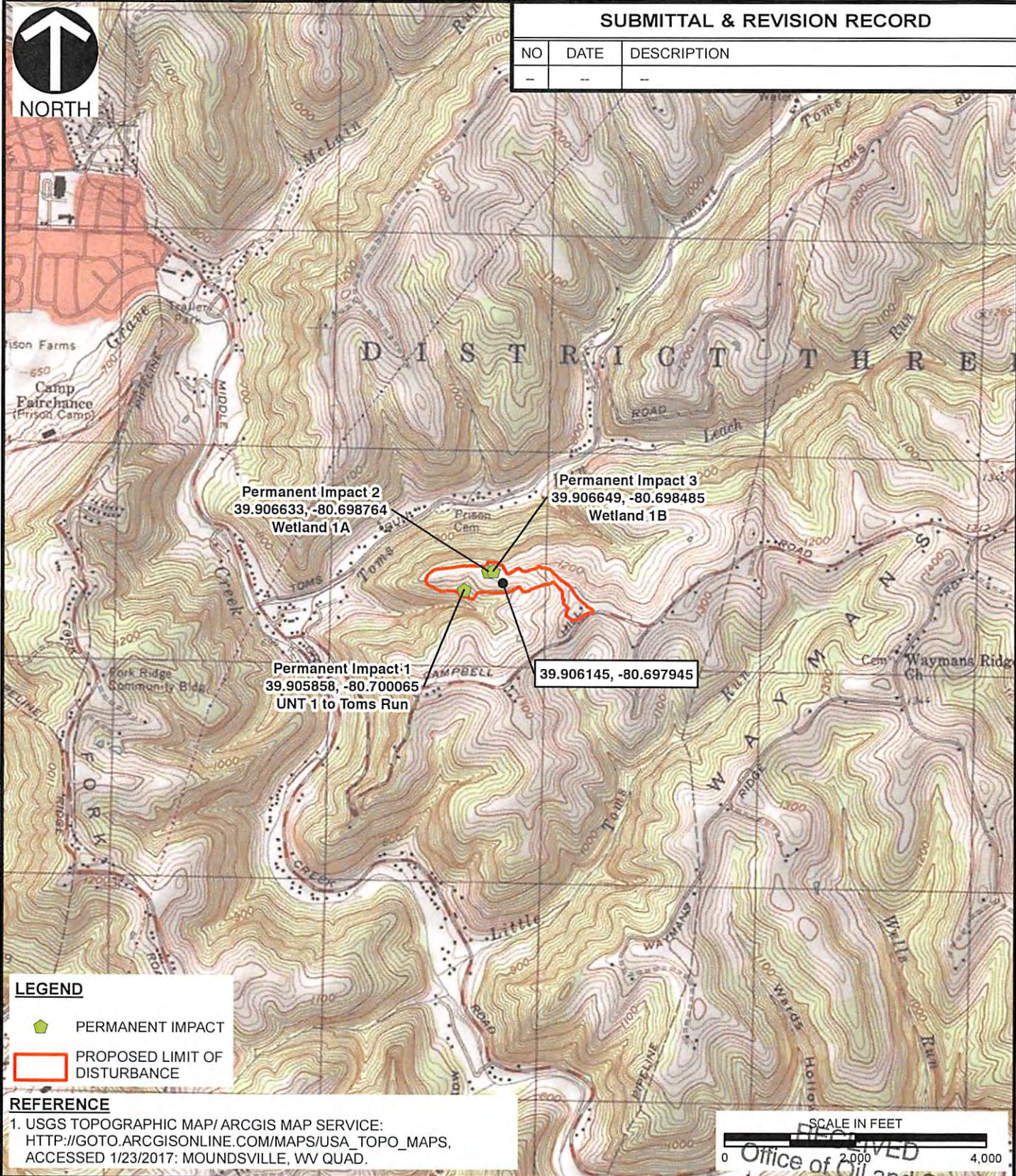
ATTACHMENT B
FIGURES

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SUBMITTAL & REVISION RECORD

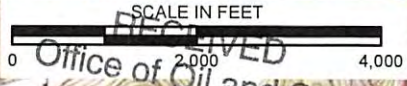
NO	DATE	DESCRIPTION
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LEGEND

- ◆ PERMANENT IMPACT
- PROPOSED LIMIT OF DISTURBANCE

REFERENCE
 1. USGS TOPOGRAPHIC MAP/ARCGIS MAP SERVICE:
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA_TOPO_MAPS](http://goto.arcgisonline.com/maps/usa_topo_maps),
 ACCESSED 1/23/2017: MOUNDSVILLE, WV QUAD.



P:\2016\164-052-GIS\maps\WPI\164-052.FIG 1 NWP SITE LOC.mxd 1/23/2017 7:24 PM (imendicino)



Civil & Environmental Consultants, Inc.
 4000 Triangle Lane, Suite 200 - Export, PA 15632
 724-327-5200 • 800-899-3610
www.cecinc.com

CHEVRON APPALACHIA, LLC
 HINES WELL
 WASHINGTON DISTRICT
 MARSHALL COUNTY, WEST VIRGINIA
 USGS SITE LOCATION MAP

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DRAWN BY: JDM	CHECKED BY: SVP	APPROVED BY: ^{Hand signature} PAK* _{on file}	FIGURE NO: 1
DATE: 01/24/2017	SCALE: 1" = 2,000'	PROJECT NO: 164-052	08/18/2017

REVISION RECORD	
NO.	DATE
SUBMITTAL RECORD	
NO.	DATE

LEGEND

- PERMANENT IMPACT
- WETLAND IMPACT
- WETLAND (PEW)
- WETLAND (PEW)
- STREAM IMPACT
- WETLAND (PEW)
- DELINATION BOUNDARY
- PHYSICAL STREAM
- PROPOSED LIMIT OF DISTURBANCE

REFERENCES

- NATIONAL PROGRAM DATASET
- US GEOLOGICAL SURVEY 2011
- STATE OF WEST VIRGINIA
- MOUNDVILLE, W. VIRGINIA, 2000 CONTOURS
- USEN WORLD MAPPING / ACROSS MAP SERVICE
- WWW.ACROSSMAP.COM
- WORLD MAPS, ACCESSIBLE 1/20/2017
- WASHNET GATE 2014

NOTES

1. CIVIL & ENVIRONMENTAL CONSULTANTS, INC. CONDUCTED THE WETLAND AND STREAM DELINEATION INVESTIGATION AS REQUIRED BY THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL POLICE (DEP) REGULATIONS 60-26-1. THE INVESTIGATION WAS CONDUCTED BY THE CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) AND THE DEPARTMENT OF ENVIRONMENTAL POLICE (DEP) ON APRIL 20, 2017. THE INVESTIGATION WAS CONDUCTED BY THE CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) AND THE DEPARTMENT OF ENVIRONMENTAL POLICE (DEP) ON APRIL 20, 2017. THE INVESTIGATION WAS CONDUCTED BY THE CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) AND THE DEPARTMENT OF ENVIRONMENTAL POLICE (DEP) ON APRIL 20, 2017. THE INVESTIGATION WAS CONDUCTED BY THE CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC) AND THE DEPARTMENT OF ENVIRONMENTAL POLICE (DEP) ON APRIL 20, 2017.

SCALE IN FEET

Civil & Environmental Consultants, Inc.
 4308 FIVE POINTS DRIVE, SUITE 100
 WASHINGTON, WEST VIRGINIA 26041
 WWW.CECONLINE.COM

CHEVRON APPALACHIA, LLC
 HINES WELL PAD
 WASHINGTON DISTRICT
 MARSHALL COUNTY, WEST VIRGINIA

DATE: 01/18/2017
 DRAWN BY: J. B. B. (JBB)
 CHECKED BY: J. B. B. (JBB)
 PROJECT NO.: 17-03
 DRAWING NO.: 2



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 Office of Oil and Gas
 APR 24 2017
 WV Department of
 Environmental Protection

08/18/2017



- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING INDEX CONTIGRAPH
 - EXISTING INTERMEDIATE CONTIGRAPH
 - EXISTING PAVED ROADWAY
 - EXISTING UNPAVED ROADWAY
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING TELECOMMUNICATION LINE
 - EXISTING FENCE
 - EXISTING STREAM
 - EXISTING WETLAND
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - EXISTING PROPOSED ACCESS ROAD
 - PROPOSED LIMIT OF DISTURBANCE
 - PROPOSED WELL HEAD AND CELLAR
 - PROPOSED DAM
 - PROPOSED INDEX CONTIGRAPH
 - PROPOSED INTERMEDIATE CONTIGRAPH
 - PROPOSED SOMMERVILLE CLOVET
 - PROPOSED MILET
 - PROPOSED BRIMP APRON
 - PROPOSED DAMAGE CONSTRUCTION FENCE
 - PROPOSED EROSION CONTROL BANKET

Civil & Environmental Consultants, Inc.
 4000 Trinkle Lane, Suite 208 - Export, PA 15622
 724-277-2299 800-899-9819



REVISION RECORD

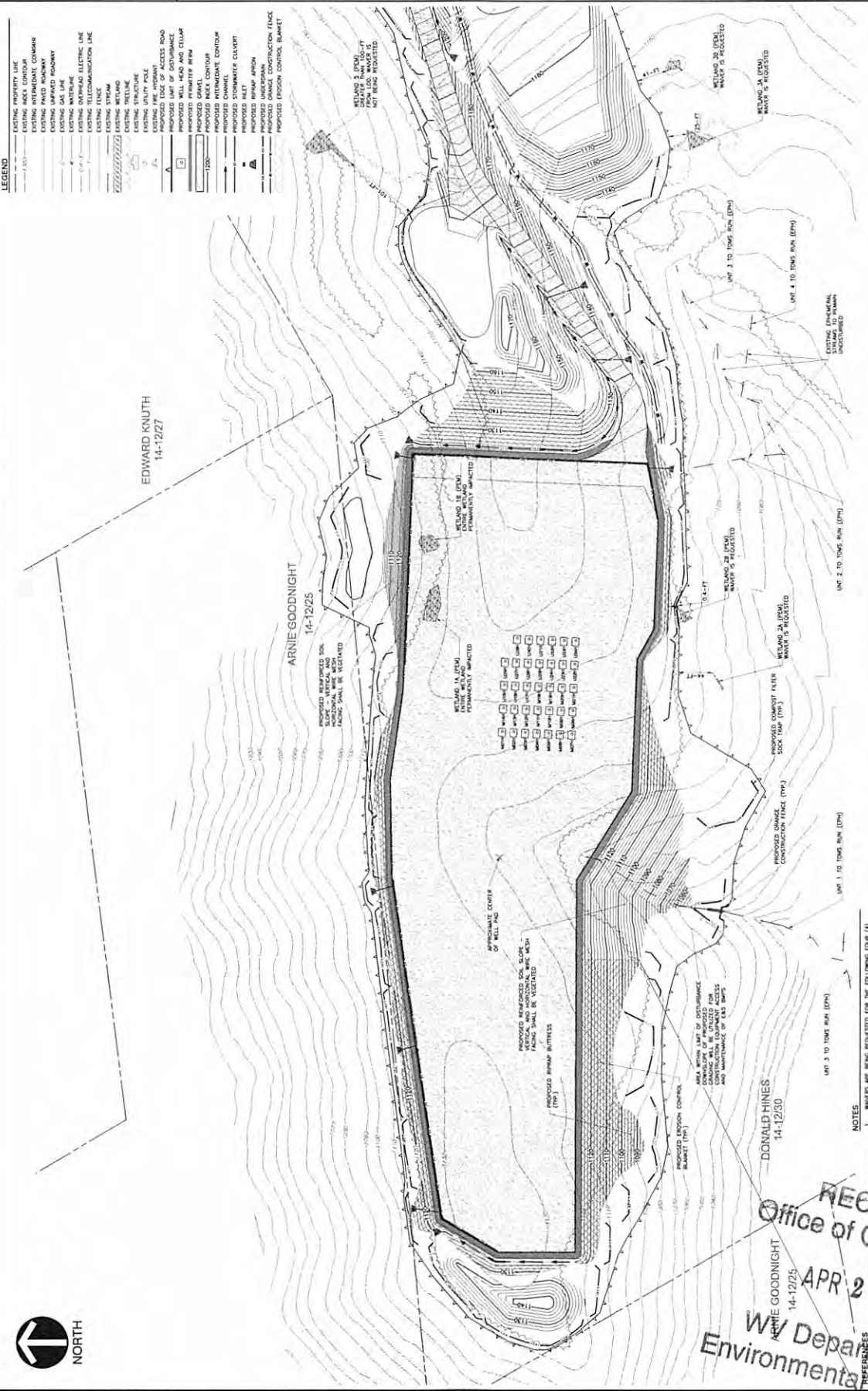
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18	11-11-11	ISSUED FOR PERMIT
19	11-11-11	ISSUED FOR PERMIT
20	11-11-11	ISSUED FOR PERMIT

HINES WELL PAD
 WASHINGTON COUNTY WEST VIRGINIA
 PREPARED FOR
CHEVRON APPALACHIA, LLC
 800 MOUNTAIN VIEW DRIVE
 MTHFIELD, PA 15478

WETLAND WAIVER REQUEST FIGURE

Project Number: 16-002 (03/16)
 Date: 03/16/2017
 Drawn By: JAM
 Checked By: BJT
 Project Manager: BJT

FIG. 3



- NOTES**
1. SEE THE WETLAND WAIVER FOR THE FOLLOWING FOUR (4) WETLANDS: 2A, 2B, 3A, AND 3B.
 2. THE FOLLOWING TWO (2) WETLANDS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE: 1A AND 1B. PERMIT IS FOR PERMANENT IMPACTS: 1A AND 1B.
 3. THE STREAMS SHOWN HEREON ARE EPHRAIM, AS SUCH, A WATERWAY OF THE STATE OF WEST VIRGINIA. ANY PERMANENT IMPACT TO A STREAM LOCATED WITHIN THE LIMIT OF DISTURBANCE IS SUBJECT TO THE USACE NATIONAL PERMIT SYSTEM FOR PERMANENT IMPACTS TO WETLANDS AND STREAMS.
 4. THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

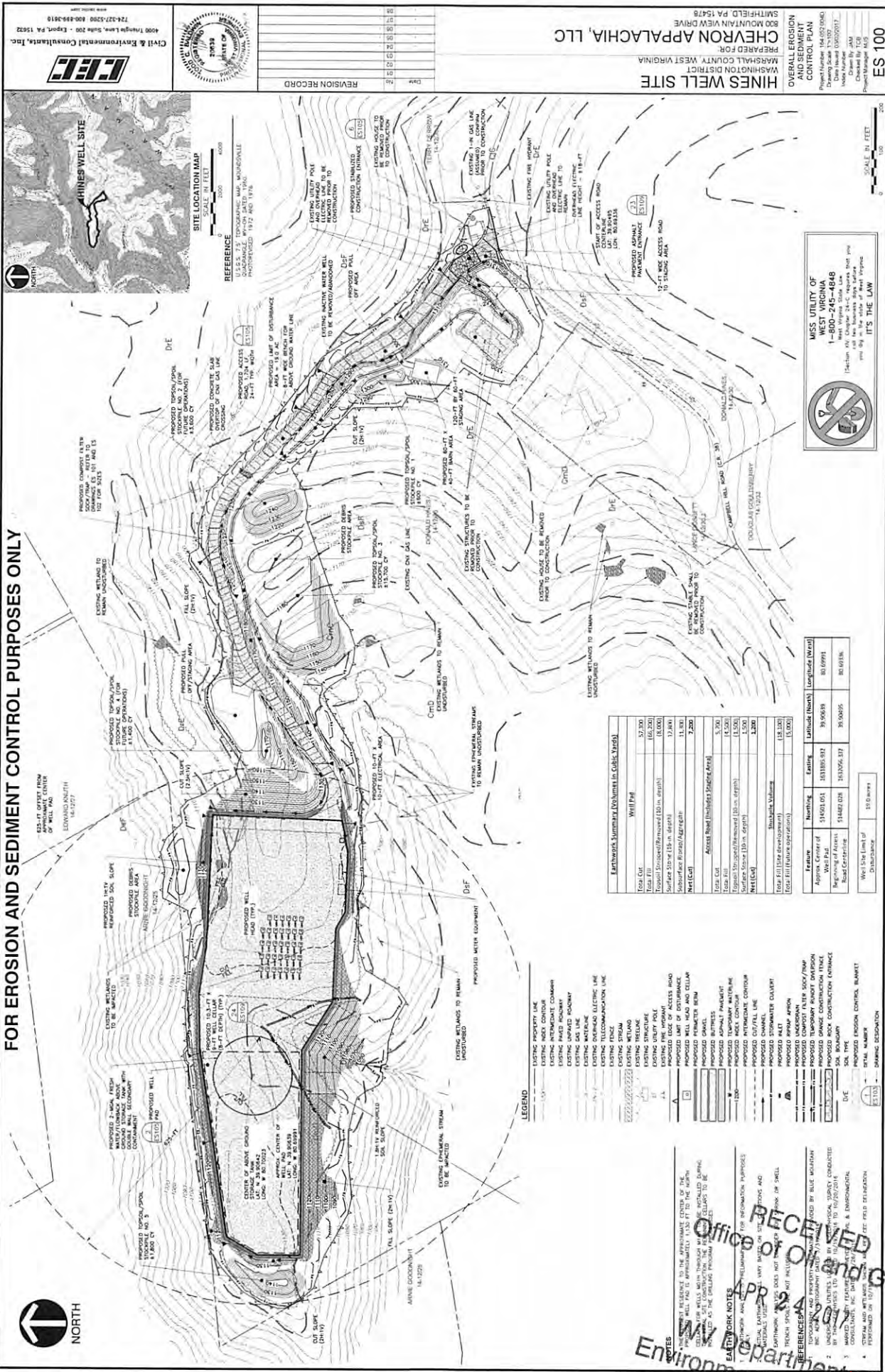
Office of Oil and Gas
APR 24 2017
West Virginia Department of Environmental Protection

08/18/2017

ATTACHMENT C
EROSION AND SEDIMENT CONTROL PLAN

RECEIVED
Office of Oil and Gas
APR 24 2017
WV Department of
Environmental Protection
08/18/2017

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



REVISION RECORD

NO.	DATE	DESCRIPTION
1	12/20/17	ISSUED FOR PERMIT
2	1/15/18	REVISED TO REFLECT PERMIT COMMENTS
3	2/15/18	REVISED TO REFLECT PERMIT COMMENTS
4	3/15/18	REVISED TO REFLECT PERMIT COMMENTS
5	4/15/18	REVISED TO REFLECT PERMIT COMMENTS
6	5/15/18	REVISED TO REFLECT PERMIT COMMENTS
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18	5/15/19	REVISED TO REFLECT PERMIT COMMENTS
19	6/15/19	REVISED TO REFLECT PERMIT COMMENTS
20	7/15/19	REVISED TO REFLECT PERMIT COMMENTS

CHEVRON APPALACHIA, LLC
 PREPARED FOR
 WASHINGTON COUNTY WEST VIRGINIA
 HINES WELL SITE
 85 MOUNTAIN VIEW DRIVE
 SMITHFIELD, PA 15478

Civil & Environmental Consultants, Inc.
 4000 Tringler Lane, Suite 200 - Export, PA 15622
 724-327-5290 800-899-2619

MISS. UTILITY OF WEST VIRGINIA
 1-800-245-4848
 West Virginia State Line
 (Indicate where the State Line crosses the project site and be removed prior to construction)

IT'S THE LAW

Earthwork Summary (Volumes in cubic yards)

Item	Volume
Total Cut	57,300
Total Fill	(66,250)
Import/Export/Retention (10 in. depth)	(6,000)
Surface Stone (10 in. depth)	19,800
Subsurface Stone/Agricrete	11,900
Net (Cut)	7,250
Grade Cut	3,300
Total Fill Imported/Retained (10 in. depth)	(4,500)
Surface Stone (10 in. depth)	1,500
Net (Cut)	1,200
Total Fill (Final Operations)	(18,300)

Feature	Northing	Easting	Latitude (North)	Longitude (West)
Approx. Center of	514021.051	833305.932	39.06838	80.98991
Proposed Point	51487.028	83306.837	39.06955	80.99183
West Site Limit of Disturbance	370 yards			

LEGEND

- EXISTING PROPERTY LINE
- EXISTING CONCRETE FOUNDATION
- EXISTING FENCED PROPERTY
- EXISTING UNPAVED ROADWAY
- EXISTING PAVED ROADWAY
- EXISTING WATER MAIN
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING TELECOMMUNICATION LINE
- EXISTING GAS LINE
- EXISTING TRENCH
- EXISTING WETLAND
- EXISTING TRENCH
- EXISTING STRUCTURE
- EXISTING FIRE HYDRANT
- PROPOSED EDGE OF ACCESS ROAD
- PROPOSED PERIMETER FENCE
- PROPOSED DRAINAGE CHANNEL
- PROPOSED CHECK DAM
- PROPOSED TRAPPIED WATER/SEDIMENT
- PROPOSED WOOD CONDUIT
- PROPOSED CUT/FILL LINE
- PROPOSED CHANNEL
- PROPOSED SWATER CONTROL
- PROPOSED PERIMETER WALL
- PROPOSED UNDERDRAIN
- PROPOSED TYPICAL MOUNTAIN DRAINAGE
- PROPOSED TYPICAL MOUNTAIN DRAINAGE
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED ROCK CONSTRUCTION FENCE
- PROPOSED ROCK CONSTRUCTION FENCE
- PROPOSED SOIL TYPE
- PROPOSED EROSION CONTROL BARRIERS

WORK NOTES

- PROPOSED EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CONSTRUCTION AND SHALL REMAIN THROUGHOUT THE LIFE OF THE PROJECT.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN THROUGHOUT THE LIFE OF THE PROJECT.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN THROUGHOUT THE LIFE OF THE PROJECT.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN THROUGHOUT THE LIFE OF THE PROJECT.

REFERENCE

- U.S. GEOLOGICAL SURVEY, 1:25,000 SCALE, 7.5-MINUTE QUAD, 1821 AND 1876.
- U.S. GEOLOGICAL SURVEY, 1:25,000 SCALE, 7.5-MINUTE QUAD, 1821 AND 1876.
- U.S. GEOLOGICAL SURVEY, 1:25,000 SCALE, 7.5-MINUTE QUAD, 1821 AND 1876.
- U.S. GEOLOGICAL SURVEY, 1:25,000 SCALE, 7.5-MINUTE QUAD, 1821 AND 1876.

CHEVRON APPALACHIA, LLC
 PREPARED FOR
 WASHINGTON COUNTY WEST VIRGINIA
 HINES WELL SITE
 85 MOUNTAIN VIEW DRIVE
 SMITHFIELD, PA 15478

Civil & Environmental Consultants, Inc.
 4000 Tringler Lane, Suite 200 - Export, PA 15622
 724-327-5290 800-899-2619

Project Number: 164-002-040
 Drawing Scale: 1"=100'
 Date: 12/20/17
 Author: JAM
 Checker: JAM
 Project Manager: KES

ES 100

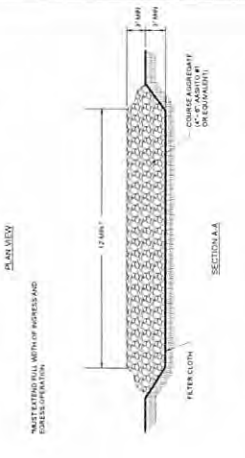
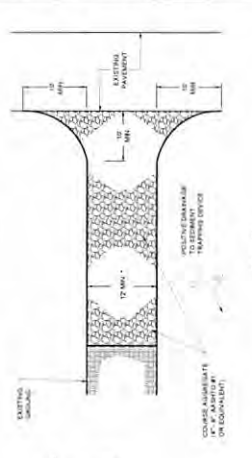
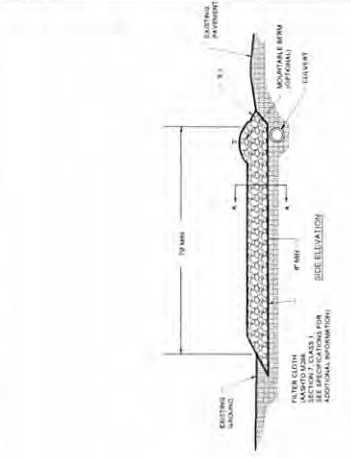


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Office of Oil and Gas
Environmental Protection
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 APR 24 2018
 08/08/2017

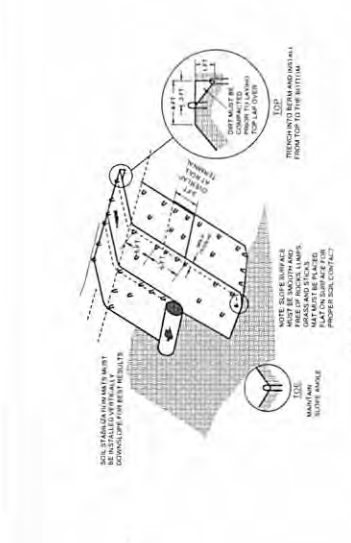


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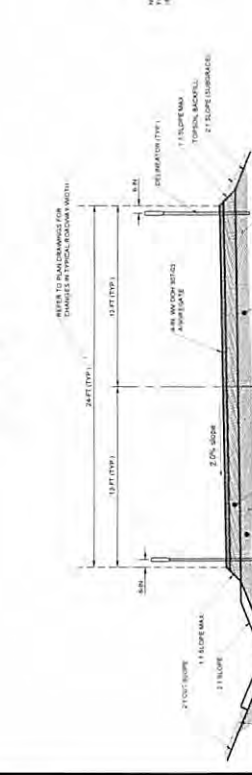
DETAIL 5
ROCK CONSTRUCTION ENTRANCE
 NOT TO SCALE

NOTE: THIS DETAIL, REFERRED TO HEREIN AS "DETAIL 5", IS A GENERAL REPRESENTATION OF THE ROCK CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE ROCK CONSTRUCTION ENTRANCE AND SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE ROCK CONSTRUCTION ENTRANCE SHALL BE DESIGNED TO WITHSTAND THE IMPACT OF A 10-TON TRUCK TRAVELING AT 15 MPH. THE ROCK CONSTRUCTION ENTRANCE SHALL BE DESIGNED TO WITHSTAND THE IMPACT OF A 10-TON TRUCK TRAVELING AT 15 MPH. THE ROCK CONSTRUCTION ENTRANCE SHALL BE DESIGNED TO WITHSTAND THE IMPACT OF A 10-TON TRUCK TRAVELING AT 15 MPH.



DETAIL 5
EROSION CONTROL BLANKET
 NOT TO SCALE

NOTE: THIS DETAIL, REFERRED TO HEREIN AS "DETAIL 5", IS A GENERAL REPRESENTATION OF THE EROSION CONTROL BLANKET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL BLANKET AND SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE EROSION CONTROL BLANKET SHALL BE DESIGNED TO WITHSTAND THE IMPACT OF A 10-TON TRUCK TRAVELING AT 15 MPH. THE EROSION CONTROL BLANKET SHALL BE DESIGNED TO WITHSTAND THE IMPACT OF A 10-TON TRUCK TRAVELING AT 15 MPH. THE EROSION CONTROL BLANKET SHALL BE DESIGNED TO WITHSTAND THE IMPACT OF A 10-TON TRUCK TRAVELING AT 15 MPH.



DETAIL 2
WELL PAD SECTION
 NOT TO SCALE

DETAIL 3
ACCESS ROAD TYPICAL SECTION
 NOT TO SCALE

DETAIL 4
SECTION (W/INLET)
 NOT TO SCALE

Office of Oil and Gas
 APR 24 2017
 WV Department of
 Environmental Protection

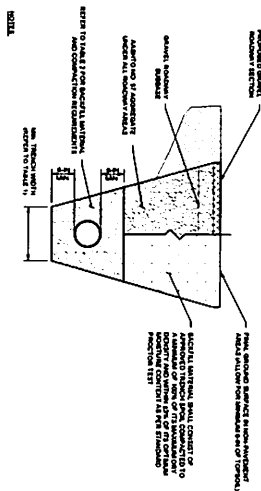


TABLE 11: MINIMUM TRENCH WIDTHS

PIPE DIAMETER (in)	TRENCH WIDTH (in)
4-18	24
18	24
24	30
30	36
36	42
42	48
48	54
54	60
60	66

TABLE 12: SANDFILL MATERIAL AND CONSTRUCTION REQUIREMENTS

DESCRIPTION	CLASS	MIN. SANDFILL THICKNESS (in)	MIN. SANDFILL DENSITY (%)
1. SANDFILL MATERIAL	CLASS 1	4	95
2. SANDFILL MATERIAL	CLASS 2	4	95
3. SANDFILL MATERIAL	CLASS 3	4	95
4. SANDFILL MATERIAL	CLASS 4	4	95
5. SANDFILL MATERIAL	CLASS 5	4	95
6. SANDFILL MATERIAL	CLASS 6	4	95
7. SANDFILL MATERIAL	CLASS 7	4	95
8. SANDFILL MATERIAL	CLASS 8	4	95
9. SANDFILL MATERIAL	CLASS 9	4	95
10. SANDFILL MATERIAL	CLASS 10	4	95

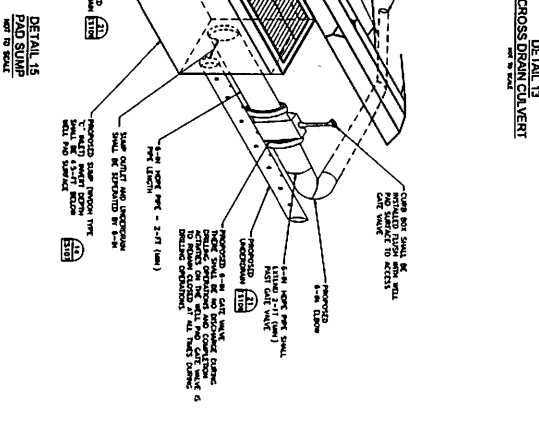
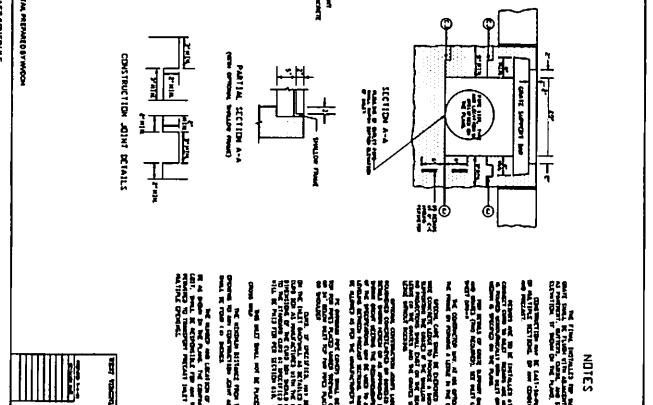
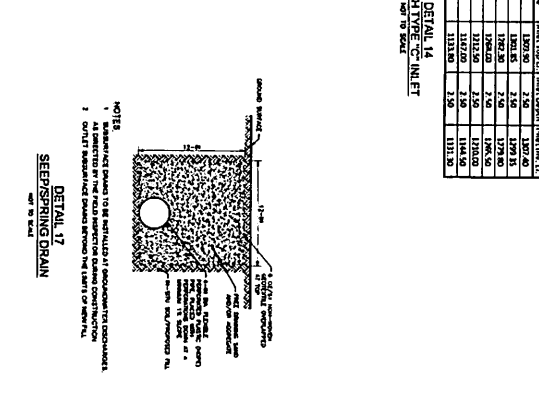
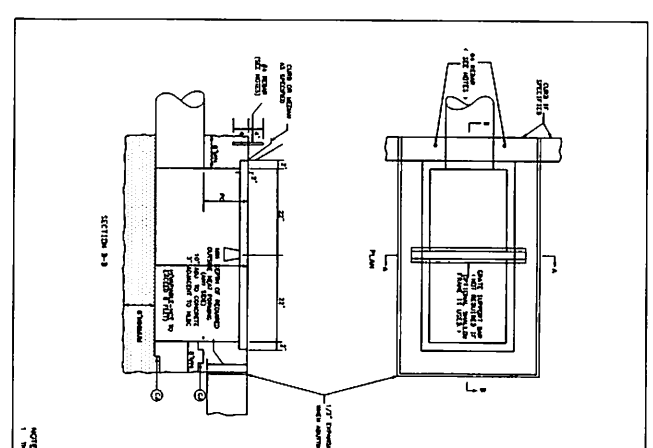
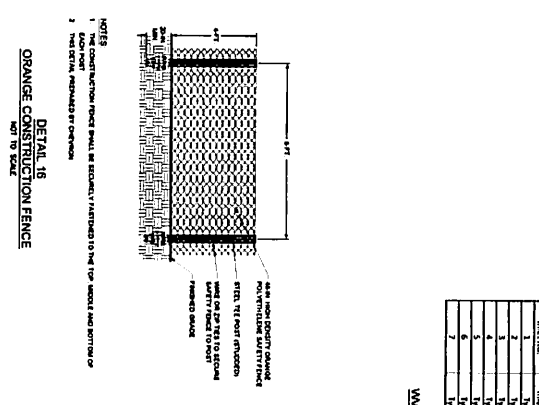


TABLE 13: SANDFILL TYPE 'C' INLET

CONCRETE TYPE	CONCRETE CLASS	CONCRETE CLASS	CONCRETE CLASS
1	1100	1100	1100
2	1100	1100	1100
3	1100	1100	1100
4	1100	1100	1100
5	1100	1100	1100
6	1100	1100	1100
7	1100	1100	1100
8	1100	1100	1100
9	1100	1100	1100
10	1100	1100	1100
11	1100	1100	1100
12	1100	1100	1100
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14	1100	1100	1100
15	1100	1100	1100
16	1100	1100	1100
17	1100	1100	1100
18	1100	1100	1100
19	1100	1100	1100
20	1100	1100	1100





Civil & Environmental Consultants, Inc.
4000 Triangle Lane, Suite 200 - Export, PA 15622
724-277-8200 800-898-9110

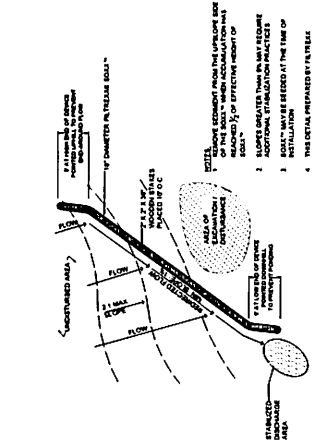
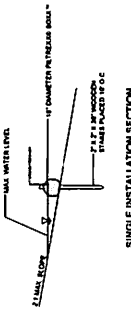


REVISION RECORD

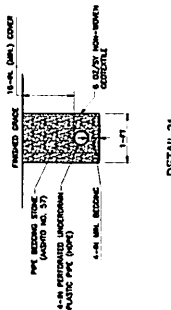
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5	07/10/12	REVISED PER COMMENTS
6	09/10/12	REVISED PER COMMENTS
7	11/10/12	REVISED PER COMMENTS
8	01/10/13	REVISED PER COMMENTS
9	03/10/13	REVISED PER COMMENTS
10	05/10/13	REVISED PER COMMENTS

HINES WELL SITE
WASHINGTON DISTRICT
KANSAS COUNTY, WEST VIRGINIA
PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

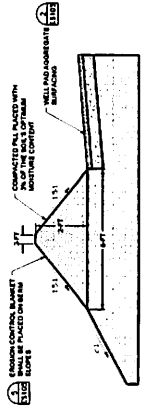
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Drawing Title: HINES WELL SITE
Drawing Number: 00000017
Issue Number: 001
Checked By: ECE
Project Manager: HES
ES 109



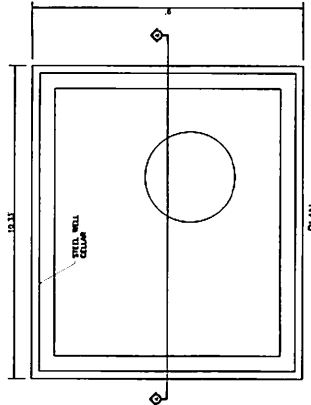
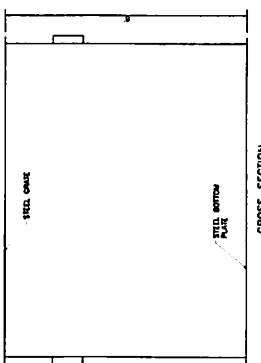
DETAIL 27
RUNOFF DIVERSION
NOT TO SCALE



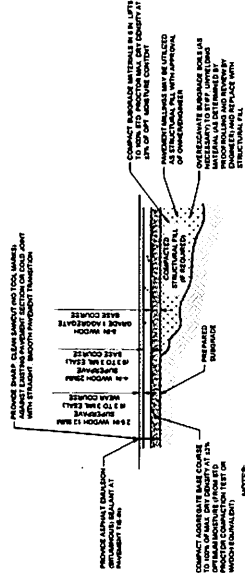
DETAIL 21
WELL CURB
NOT TO SCALE



DETAIL 20
CONTAINMENT BERM
NOT TO SCALE



NOTE
1. THE DETAILS ADDRESS THE SECTION
WELL CELLS
NOT TO SCALE



DETAIL 23
ASPHALT PAVEMENT DETAIL
NOT TO SCALE

- NOTES:
1. PROVIDE 3000 PSI CONCRETE WITH 4% FIBER REINFORCEMENT TO ALL DETAIL AREAS.
 2. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 3. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 4. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 5. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 6. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 7. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 8. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 9. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.
 10. PROVIDE 10% AIR ENTRAINMENT TO ALL DETAIL AREAS.

ATTACHMENT D
USACE NATIONWIDE PERMIT 39 APPLICATION

**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: 30-SEPTEMBER-2015*

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

PRIVACY ACT STATEMENT

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

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

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

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Jenny Middle - Last - Hayes Company - Chevron Appalachia, LLC E-mail Address - jhayes@chevron.com			8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Katie Middle - L Last - Moberg Company - Civil & Environmental Consultants, Inc. E-mail Address - kmoberg@cecinc.com		
6. APPLICANT'S ADDRESS: Address- 800 Mountain View Drive City - Smithfield State - PA Zip - 15478 Country - US			9. AGENT'S ADDRESS: Address- 4000 Triangle Lane, Suite 200 City - Export State - PA Zip - 15632 Country - US		
7. APPLICANT'S PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 724-564-3781 724-564-3894			10. AGENTS PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 724-327-5200 724-327-5280		

STATEMENT OF AUTHORIZATION

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

Jenny Hayes
SIGNATURE OF APPLICANT

1.24.17
DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Hines Well Pad		14. PROJECT STREET ADDRESS (if applicable) Address Campbell Hill Road City - Moundsville State- WV Zip- 26041	
13. NAME OF WATERBODY, IF KNOWN (if applicable) Refer to Waters Impact Summary Table in Attachment D		15. LOCATION OF PROJECT Latitude: •N 39.906145 Longitude: •W -80.697938	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) State Tax Parcel ID Municipality Section - Township - Washington District Range - Marshall County			

17. DIRECTIONS TO THE SITE

From I-470 W, take Exit 2 toward Bethlehem Drive 0.2 mile, and turn left onto Co Hwy 91/1. Drive 0.4 mile, and continue onto 29th St Blvd/W Bethlehem Blvd. Drive 2.2 miles, turn left onto State Rte 2 Alt, and turn left again onto Roberts Ridge Road. Drive 0.1 mile, and turn right onto WV-88 S/Ridgecrest Road. Drive 8.2 miles and turn left onto US-250 S. Drive 2 miles, and turn right onto Campbell Hill Road/Waymans Ridge Road. Drive 2.2 miles, and turn slight right onto Campbell Hill Road. Drive 0.2 mile, and the entrance to the site will be on the right.

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

Chevron Appalachia, LLC is proposing to construct a new natural gas well pad and associated access road. The proposed limit of disturbance is approximately 19 acres and includes an active cattle pasture and wooded hillslopes. The construction of the well pad will require permanent impacts to 0.026 acre of palustrine emergent (PEM) wetlands and 192 linear feet of an ephemeral stream.

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

The purpose of the project is to construct a natural gas well pad and access road.

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

20. Reason(s) for Discharge

The construction of the facility will require the placement of fill material into one unnamed tributary (UNT) to Toms Run and one PEM wetland. A second PEM wetland will be excavated. These permanent impacts are associated with grading activities for construction of the well pad.

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

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
30 CY of earthen material into wetlands	500 CY of earthen material into streams	N/A

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

Acres 0.026 acre of PEM wetlands
or
Linear Feet 192 linear feet of stream

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

Chevron analyzed numerous on-site configurations for the siting of the facility, and the proposed site plan represents the layout which minimizes impacts to the furthest extent practicable while still meeting the project's purpose and need. Grading was minimized along the southern side of the well pad to limit the impact to UNT 1 to Toms Run and to avoid impacts to Wetlands 2A and 2B. Compost filter sock traps and orange construction fencing will be installed around the downstream portion of the impacted stream to avoid additional impacts.

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

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

a. Address- Hines Donald ET UX - 301 4TH Street

City - Glen Dale State - West Virginia Zip - 26038

b. Address- Gossett Lance J ET UX - RD 1 BOX 428 A

City - Moundsville State - West Virginia Zip - 26041

c. Address- Goodnight Arnie N ET UX - RD 1 BOX 437

City - Moundsville State - West Virginia Zip - 26041

d. Address-

City - State - Zip -

e. Address-

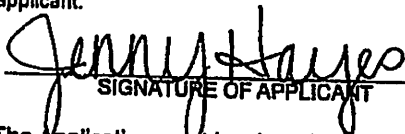
City - State - Zip -

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

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
WVDNR OLS	Right of Entry	Not yet assigned	January 2017	Pending	
WVDEP	Special Condition A	Not yet assigned	January 2017	Pending	
WVDEP	Horizontal 6A Well P	Not yet assigned	January 2017	Pending	
WVDEP	Wetland Waiver	Not yet assigned	January 2017	Pending	

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

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


SIGNATURE OF APPLICANT

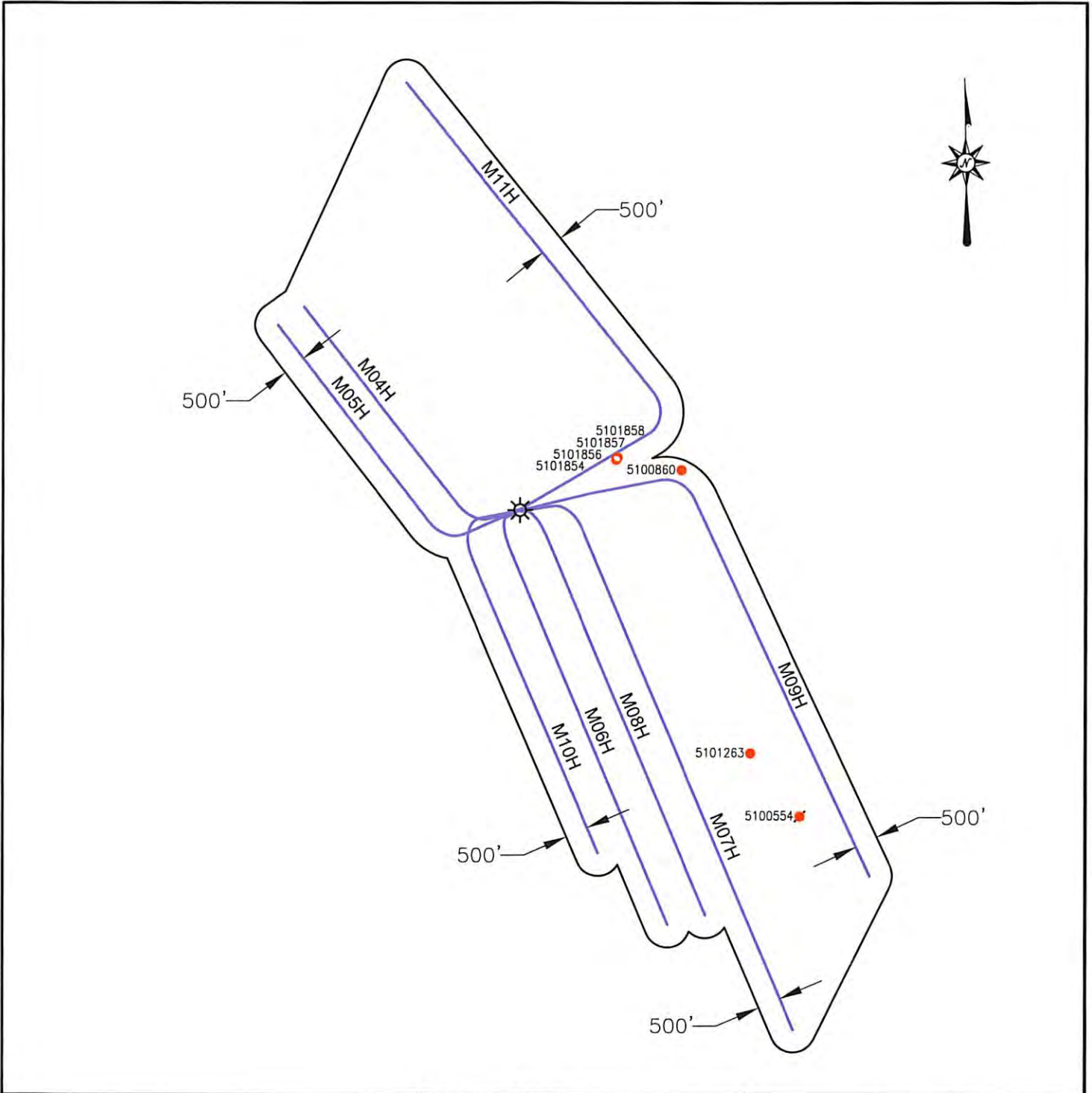
1-24-17
DATE


SIGNATURE OF AGENT

1-24-17
DATE

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

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



Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

PREPARED FOR:
 CHEVRON APPALACHIA, LLC
 800 MOUNTAIN VIEW DRIVE
 SMITHFIELD, PA 15478

LEGEND

- WELL LOCATION
- ACTIVE WELL
- PLUGGED WELL
- PERMITTED WELL

HINES
 AREA OF REVIEW MAP
 MARSHALL COUNTY
 WASHINGTON DISTRICT
 WEST VIRGINIA

TOPO QUAD: MOUNDSVILLE, WV
 SCALE: 1" = 3000'
 DATE: MARCH 2, 2017

08/18/2017

WW-6B
(04/15)

API NO. 47- _____ - _____
 OPERATOR WELL NO. Hines M08H
 Well Pad Name: Hines

4705101930

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Chevron Appalachia, LLC 49449935 Marshall Washingt Moundsville, WV
 Operator ID County District Quadrangle

2) Operator's Well Number: Hines M08H Well Pad Name: Hines

3) Farm Name/Surface Owner: Donald Hines and Wanda L. Hines Public Road Access: Route 38/Campbell Hill Road

4) Elevation, current ground: 1125' Elevation, proposed post-construction: 1125'

5) Well Type (a) Gas X Oil _____ Underground Storage _____
 Other _____

(b) If Gas Shallow X Deep _____
 Horizontal X

6) Existing Pad: Yes or No No *JN 3/26/17*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6260' GL, 50' and 0.64 psi/ft

8) Proposed Total Vertical Depth: 6260

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15695

11) Proposed Horizontal Leg Length: 9145

12) Approximate Fresh Water Strata Depths: 360' GL

13) Method to Determine Fresh Water Depths: 1.5 mi radius offset wells, freshwater wells, and freshwater base level

14) Approximate Saltwater Depths: 840', 1620', and 1961' GL

15) Approximate Coal Seam Depths: 360' and 635' GL

16) Approximate Depth to Possible Void (coal mine, karst, other): NA - solid coal anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes X No _____

(a) If Yes, provide Mine Info: Name: Ireland Mine
 Depth: 635' GL
 Seam: Pittsburgh Coal
 Owner: Murray Energy Corporation

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New			60	60	CTS
Fresh Water	13.375	New	J-55	54.5	410	410	CTS
Coal							
Intermediate	9.625	New	L-80	40	1,858	1,858	CTS
Production	5.50	New	P110	20	15695	15695	2,358
Tubing							
Liners							

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JN 3/26/17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26					
Fresh Water	13.375	17.5	0.38	2730	1911	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5750	2768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14360	9975	Class A, G, or H	1.25
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hines M08H
Well Pad Name: Hines

JN 3/26/17

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,260 feet. Drill horizontal leg.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

18,762 bbl fluid - 1,000,000 lbm sand/stage - 9,400 anticipated max psi - 100 bpm anticipated max rate

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 19.0

22) Area to be disturbed for well pad only, less access road (acres): 10.3

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

24) Describe all cement additives associated with each cement type:

For the Water String the blend will contain class A cement, 3% CaCl₂, and flake. The intermediate will contain class A cement, 3% CaCl₂, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

Air sections ensured to be clean via air circulation once TD is reached. Fluid sections will be circulated a minimum of 2 bottoms up once casing point has been reached and until uniform mud properties are achieved.

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*Note: Attach additional sheets as needed.

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HINES PAD CEMENT ADDITIVES

- For the Water String the blend will contain class A cement, 3% CaCl₂, and flake.
- The intermediate will contain class A cement, 3% CaCl₂, and flake.
- The Production cement will have a lead and tail cement.
- The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder.
- The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer

47001000-



Hines M08H

Washington Twp, Marshall Co, WV Ground Level Elev. (ft above SL): 1,120

DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	INC	AZM			
Core Barrel / Auger	2 Bowspring per Jt	20" Conductor	60	60			26	Conductor 20" API 5L Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	13-3/8" Casing	410	410			17.5	Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	9-5/8" Casing	1,859	1,858			12.375 - 12.25	Intermediate Casing 9-5/8" 40# L-80 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,080 Yield (Jt Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
	Bow Spring: (1) per every other jt over coupling SpiraGlider or Centek: (1) per jt of cag to KOP	5-1/2" Casing	12,877 - 20,778				8.75 - 8.5	Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry Cement to 500' below 9-5/8" shoe

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Production Tail Slurry
TOC minimum 200' above Marcellus

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Hines Pad Area of Review

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-00860	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.908767	-80.686817	840'	Pittsburgh Seam	None
47-051-01263	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Active	39.892007	-80.681121	Unknown	Unknown	None
47-051-00554	Kentucky Central & Co.	Unknown	Plugged	39.888303	-80.677210	1441'	Pottsville	None
47-051-01854	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909336	-80.691893	6317	Marcellus	None
47-051-01856	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909383	-80.691856	6317'	Marcellus	None
47-051-01857	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909430	-80.691819	6317'	Marcellus	None
47-051-01858	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909477	-80.691782	6317'	Marcellus	None

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Middle Grave Creek - Grave Creek Quadrangle Moundsville, WV 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____ at next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, we will be utilizing multiple open/closed top tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air to KOP, SBM KOP to TMD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? barite, fluid loss, emulsifiers, rheological control

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. removed offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? Arden Landfill #100172, South Hills Landfill #100592, Short Creek Landfill #WV0109517

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jenny Hayes
Company Official (Typed Name) Jenny Hayes
Company Official Title Permitting Team Lead

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Subscribed and sworn before me this 13th day of March, 2017

Kristen Brooks Notary Public

My commission expires Sept 2, 2018

WV Department of Environmental Protection
COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristen Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
08/18/2017

Proposed Revegetation Treatment: Acres Disturbed 11.6 acres Prevegetation pH Per soils testing report

Lime 3 Tons/acre or to correct to pH unless otherwise noted in soils report

Fertilizer type 10-20-20

Fertilizer amount 300 lbs/acre

Mulch 3, 5 for winter stabilization Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

see attached

see attached

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jane Nicholson*

Comments: _____

4705101935

Title: *Oil & Gas Inspector*

Date: *3/27/17*

Field Reviewed? () Yes () No

SEED MIXTURES

<u>Temporary</u>		<u>Permanent</u>		<u>Permanent</u>	
Seed Type	lbs/acre	Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	50	Non Agricultural Upland		Hayfield, Pastureland, and Cropland	
or					
Winter Wheat	75	Tall Fescue	100	Orchard Grass	80
		Perennial Ryegrass	33	Timothy	80
		Ladino Clover	18	Birdsfoot - Trefoil	20
		Birdsfoot - Trefoil	18	Ladino Clover	20
		Red Top	6		

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 Environmental Protection

08/18/2017



Chevron

**Appalachian LLC
WV Well Site Safety Plan**

Pad: Hines Pad A

Well # M07H

JN 3/26/17

1256 Campbell Hill Road

Moundsville, WV 26041

Washington District

Marshall County, WV

Access Point – [39.904947°N, 80.693363°W]

Well Site – [39.906387°N, 80.699914°W]

Marshall County, West Virginia

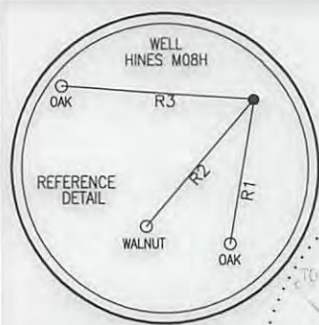
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BHL is located on topo map 12,497 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 3,836 feet south of Latitude: 39° 55' 00"



SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4417382.24
 E:525707.85
 NAD83, WV NORTH
 N:514405.910
 E:1632083.371

APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4417208.06
 E:525888.62
 NAD83, WV NORTH
 N:513824.437
 E:1632667.030

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4414747.89
 E:526982.81
 NAD83, WV NORTH
 N:505691.345
 E:1636122.657

LINE	BEARING	DISTANCE
R1	S 09°37'05" W	138.82'
R2	S 40°33'04" W	158.08'
R3	N 86°03'16" W	183.52'
R4	N 79°25'12" W	927.79'
R5	S 37°49'01" W	760.98'
R6	S 07°21'34" W	1161.82'

LEGEND

- TOPO MAP POINT
- WELL - ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT
- BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- LOCATE & AVOID

GAS WELLS

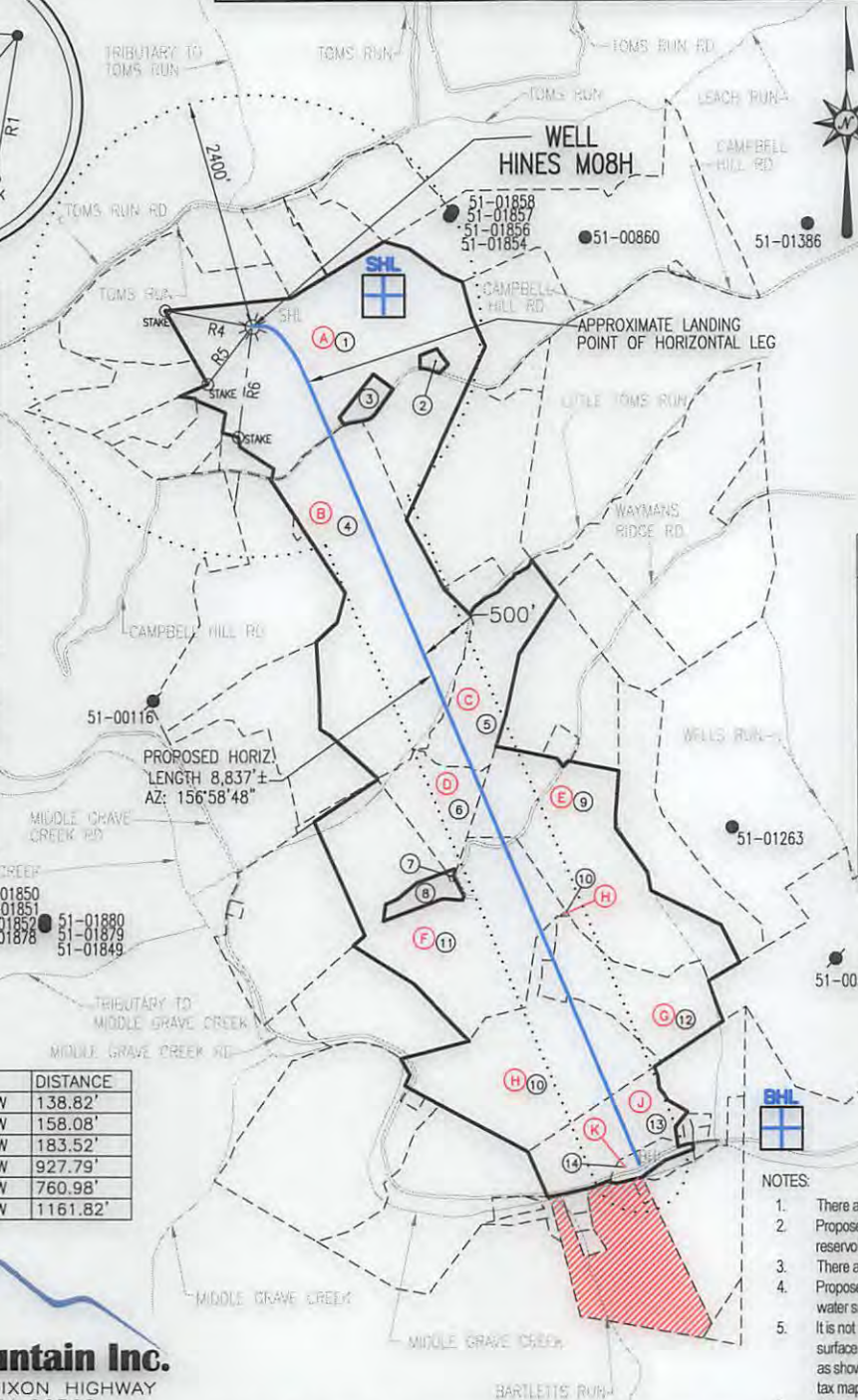
- EXISTING WELLS
- PLUGGED WELLS

WELL PAD ORIENTATION DETAIL

M0110	M110	U1810	U2810	
M0210	M120	U1910	U2910	
M0310	M130	U2010	U3010	
M0410	M140	U2110	U3110	
M0510	M150	U2210	U3210	
M0610	M160	U2310	U3310	
M0710	M170	U2410	U3410	
M0810	M180	U2510	U3510	
M0910	M190	U2610	U3610	
M1010	M200	U2710	U3710	
M110	M08H	M10H	U2710	V1810

N.T.S.

BHL is located on topo map 4,986 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 9,138 feet west of Longitude: 80° 40' 00"



- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 - There are no existing buildings within 625' of proposed well.

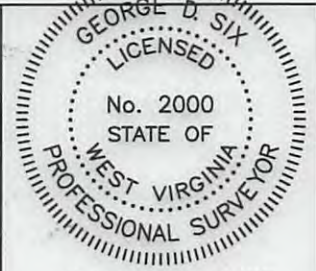
Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: HINES M08H
 DRAWING #: HINES M08H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [Signature]
 R.P.E.: _____ L.L.S.: P.S. No. 2000



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 7, 2017
 OPERATOR'S WELL #: HINES M08H
 API WELL #: 47 51 0193046A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1125.45'

COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: DONALD HINES ET UX ACREAGE: 114.934±

OIL & GAS ROYALTY OWNER: DONALD HINES ET UX ACREAGE: 517.972± **08/18/2017**

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

(SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,400'± TMD:15,695'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY

Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600

City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

HINES M08H PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
B	DOUGLAS EDWARD GOULDSBERRY ET UX	14-12/32
C	PATRICIA S. HOSKINS	14-13/4
D	TODD R. KETTLER ET UX	14-13/3
E	TIMOTHY GEHO	14-13/6
F	TODD R. KETTLER ET UX	14-13/2
G	RICHARD F. VARGO ET UX	14-13/21
H	RICHARD F. VARGO ET UX	14-13/21.1
J	ROBERT W. COFFIELD ET UX	14-13/18
K	RM COFFLIED FAMILY TRUST ET AL	14-13/18.1

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2	TERRY L. DERROW ET UX	14-12/30.3
3	CHEVRON U.S.A. INC.	14-12/30.2
4	DOUGLAS EDWARD GOULDSBERRY ET UX	14-12/32
5	PATRICIA SUE HOSKINS	14-13/4
6	TODD R. & DAWN R. KETTLER	14-13/3
7	TODD R. & DAWN R. KETTLER	14-13/3.1
8	TODD R. & DAWN R. KETTLER	14-13/2.1
9	TIMOTHY G. GEHO ET UX	14-13/6
10	RICHARD E. & JADE L. VARGO	14-13/21.1
11	TODD & DAWN R. KETTLER	14-13/2
12	RICHARD E. & JADE L. VARGO	14-13/21
13	R. M. COFFIELD FAMILY TRUST	14-13/18
14	STATE ROAD COMMISSION	14-13/18.1

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M) N:4417382.24 E:525707.85
NAD83, WV NORTH N:514405.910 E:1632083.371

APPROX. LANDING POINT
UTM 17-NAD83(M) N:4417208.06 E:525888.62
NAD83, WV NORTH N:513824.437 E:1632667.030

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4414747.89 E:526982.81
NAD83, WV NORTH N:505691.345 E:1636122.657

08/18/2017

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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see attached

4705207830

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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Well Operator: Chevron Appalachia, LLC
 By: Jenny Hays APR 24 2017
 Its: Permitting Team Lead

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Page 1 of 2

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HINES M08H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
14-0012-0030-0000-0000	HINES DONALD ET UX	CHEVRON U.S.A. INC.	0.160	774/290	N/A	N/A	N/A
14-0012-0032-0000-0000	GOULDSBERRY DOUGLAS EDWARD ET UX	PROFESSIONAL LAND RESOURCES, LLC	0.150	683/136 & 748/88	21/645 PROFESSIONAL LAND RESOURCES, LLC to HANNON & ASSOCIATES, INC.	24/170 HANNON & ASSOCIATES, INC to NPAR, LLC	756/332 NPAR, LLC to CHEVRON U.S.A. INC.
14-0013-0004-0000-0000	HOSKINS PATRICIA S	CHEVRON U.S.A. INC.	0.150	655/564	N/A	N/A	N/A
14-0013-0003-0000-0000	KETTLER TODD R ET UX	CHEVRON U.S.A. INC.	0.180	868/78	N/A	N/A	N/A
14-0013-0006-0000-0000	GEHO TIMOTHY	CHEVRON U.S.A. INC.	0.160	815/176	N/A	N/A	N/A
14-0013-0002-0000-0000	KETTLER TODD R ET UX	CHEVRON U.S.A. INC.	0.180	868/78	N/A	N/A	N/A
14-0013-0021-0000-0000	VARGO RICHARD F ET UX	TH EXPLORATION, LLC	0.180	866/315	36/168 TH EXPLORATION, LLC to CHEVRON U.S.A. INC.	N/A	N/A
14-0013-0021-0001-0000	VARGO RICHARD F ET UX	TH EXPLORATION, LLC	0.180	866/315	36/168 TH EXPLORATION, LLC to CHEVRON U.S.A. INC.	N/A	N/A
14-0013-0018-0000-0000	COFFIELD ROBERT W ET UX	CHEVRON U.S.A. INC.	0.180	863/305	N/A	N/A	N/A
14-0013-0018-0001-0000	RM COFFLIED FAMILY TRUST ET AL	CHEVRON U.S.A. INC.	0.180	880/443	N/A	N/A	N/A



Kelly Bass
Land Representative

April 12, 2017

West Virginia D.E.P.
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

RE: Hines 4H, 5H, 6H, 7H, 8H, 9H, 10H, 11H

4705101930

To whom it may concern,

This letter shall serve as confirmation of Chevron U.S.A. Inc.'s right to access the minerals under all roads traversed by the above referenced laterals. Please do not hesitate to contact myself, the undersigned, for any additional questions or to request further information.

Sincerely,

Kelly Bass
Land Representative

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Office of Oil and Gas

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WV Department of
Environmental Protection

Appalachian Mountain Business Unit
Chevron North America Exploration and Production Company
A division of Chevron U.S.A. Inc.
700 Cherrington Parkway, Coraopolis, PA 15108
Tel 412 865 1488
KellyBass@Chevron.com

08/18/2017

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION**

Date of Notice Certification: 04/13/2017

API No. 47- _____
Operator's Well No. Hines M08H
Well Pad Name: Hines

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>525707.85</u>
County: <u>Marshall</u>	UTM NAD 83 Northing: <u>4417382.24</u>
District: <u>Washington</u>	Public Road Access: <u>Route 38/Campbell Hill Road</u>
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hines</u>
Watershed: <u>Middle Grave Creek - Grave Creek</u>	

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. Attached to this Notice Certification are the Notice Forms and Certifications of Notice shall serve as proof that the required parties have been notified as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

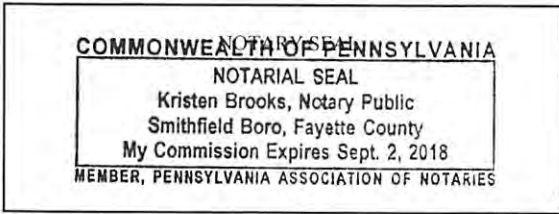
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WV Department of
Environmental Protection

Certification of Notice is hereby given:

THEREFORE, I Jenny Hayes, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Chevron Appalachia, LLC
By: *Jenny Hayes*
Its: Permitting Team Lead
Telephone: 724-564-3755

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3894
Email: _____



Subscribed and sworn before me this 13th day of April, 2017
Kristen Brooks Notary Public
My Commission Expires Sept 2, 2018.

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Casey V. Saunders, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	WVSPN NAD 27	Easting:	<u>1,663,519.568</u>
County:	<u>Marshall</u>		Northing:	<u>514,369.300</u>
District:	<u>Washington</u>	Public Road Access:	<u>07</u>	
Quadrangle:	<u>MOUNDSVILLE</u>	Generally used farm name:	<u>05100000</u>	
Watershed:	_____			

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, provided that Chevron U.S.A. Inc. drills the well on WV North NAD27 coordinates of North 514,369.300, East 1,663,519.568. This statement does not serve as notice that has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by mining activity. This Voluntary Statement of No Objection does not waive's Common Law Property Rights in the State of West Virginia.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p align="center">FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p align="center">FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CONSOL Mining Company, LLC</u></p> <p>By: <u>Casey V. Saunders</u></p> <p>Its: <u>Senior Project Engineer</u></p> <p>Signature: <u><i>Casey V. Saunders</i></u></p> <p>Date: <u>4/3/2017</u></p> <p align="center">RECEIVED Office of Oil and Gas</p>

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at privacy@dep.gov.

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08/18/2017

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 3/16/17 Date Permit Application Filed: 4/20/17

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: Donald Hines and Wanda L Hines
Address: 301 4th Street
Glen Dale, WV 26038

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Consol Mining Company LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR

Name: _____
Address: 6705101010

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: see attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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WW-6A Notice of Application Attachment (Hines Pad)

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEOR(S):

Bobby G Baker
RD 3 Box 249
Moundsville, WV 26041

Mark G. Grandstaff
762 Toms Run Rd
Moundsville, WV 26041

Tobias & Jessica Brown
873 Toms Run Lane
Moundsville, WV 26041

Edward D. Knuth
747 Toms Run Lane
Moundsville, WV 26041

Morgan Lacefield
77 Bridge St. Plz
Moundsville, WV 26041

Gerald Oliver
816 Toms Run Lane
Moundsville, WV 26041

Chevron U.S.A. Inc.
800 Mountain View Drive
Smithfield, PA 15478

✓

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04/18/2017

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) 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 department 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 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. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clear Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells and any other items that may be generated by the drilling of horizontal wells and, upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Environmental Protection
08/18/2017

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hines M08H
Well Pad Name: Hines

Notice is hereby given by:

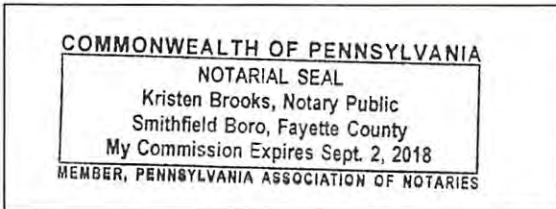
Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email: _____

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3894

Jenny Hays

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.



Subscribed and sworn before me this 13th day of March 2017.

Kristen Brooks Notary Public

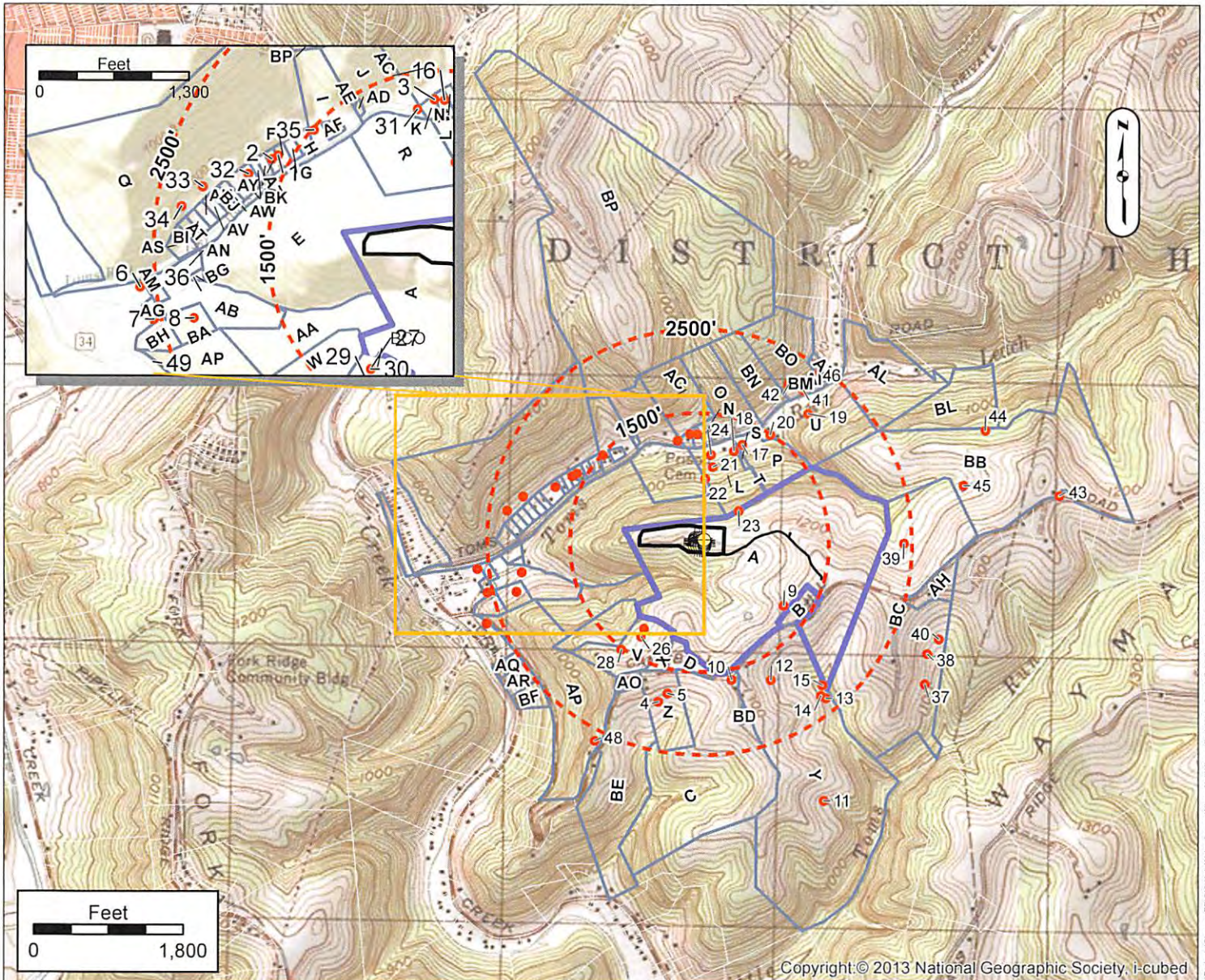
My Commission Expires Sept. 2, 2018.

4705107930

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08/18/2017



WATER SUPPLY EXHIBIT HINES PAD



LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
A	HINES DONALD ET UX	25-14 12003000000000	Q	HALL CHARLES R	25-14 12002400000000	AG	GOODNIGHT ARNIE	25-14 12006700020000	AW	YDHO LYLE WAYNE	25-14 12006070000000
B	GOSSETT LANCE J ET UX	25-14 12003000020000	R	STATE OF W VA	25-14 12002600000000	AH	ROBERTS EARNEST L ET UX	25-14 1200310000100000	AX		25-14 1200310000100000
C	PARSONS HENRY T EST ET AL	25-14 12003100000000	S	FITZSIMMONS JOHN E & ANGELA L	25-14 1200270000100000	AI	PYLES RONNIE ET UX	25-14 90040000000000	AY	SMITH PAUL K & BETTY - LIFE	25-14 1200090000000000
D	WOOD CLESTENE HINES	25-14 12003000040000	T	KNUTH EDWARD DAVID & KATHY JO	25-14 1200280000100000	AJ	THOMAS WILLIAM H ET UX	25-14 90039000100000	AZ	ANDLINGER SANDRA SUE & LORI A	25-14 1200010000000000
E	GOODNIGHT ANNIE N ET UX	25-14 12002500000000	U	BEUCHE JOHN A ET UX	25-14 12002900000000	AK	THOMAS WILLIAM H ET UX	25-14 90039000200000	BA	GOODNIGHT OSCAR J	25-14 1200670000500000
F	BROWN TERRY R ET UX	25-14 12002100000000	V	LACEFIE D MORGAN T	25-14 1200300000100000	AL	BRADY ROGER A ET UX	25-14 90039000000000	BB	RINE OLEY L JR	25-14 1100010000000000
G	TUCKER JESSI & HELEN	25-14 1200012000000000	W	LACEFIE D MORGAN T	25-14 1200300000500000	AM	HARTLEY PHYLIS C	25-14 12006700000000	BC	HOSKINS PATRICIA SUE	25-14 1200310000000000
H	YDHO RAYMOND P	25-14 1200401300000000	X	WOODS CLESE	25-14 1200300000000000	AN		25-14 1200660000300000	BD	FALLER ROBERT A ET UX	25-14 1200030000100000
I	MCCARTNEY MICHAEL J ET UX	25-14 90045000000000	Y	GOULDSBERRY DOUGLAS EDWARD ET	25-14 1200320000000000	AD	PARSONS HENRY T JR & VIOLET	25-14 1200450000100000	BE	PARSONS HENRY T EST ET AL	25-14 1200450000000000
J	LUCAS LEONARD L ET UX	25-14 90045000000000	Z	BOSTON DONALD M ET UX	25-14 1200330000200000	AP	VAN SCYOC DELBERT MEET UX	25-14 1200650000000000	BF	HARVETH GEORGE R ET UX	25-14 1200640000000000
K	BAKER BOBBY G ET UX	25-14 90044000100000	AA	GOODNIGHT ANNIE N ET UX	25-14 1200660000000000	AQ	JENKINS MICHAEL LEE ET UX	25-14 1200640000600000	BG		25-14 1200660000700000
L	KNUTH EDWARD DAVID ET UX	25-14 12002700000000	AB	GOODNIGHT GEORGE ET UX ESTS	25-14 1200670000000000	AR	SCHNEIDER JOHN M & FALINE J	25-14 1200640000800000	BH	GOODNIGHT ARNIE	25-14 1200670000100000
M	GRANDSTAFF FILMER R ET UX	25-14 90044000200000	AC	LUCAS LEONARD L ET UX	25-14 90044000200000	AS	THOMAS HARRY ET UX	25-14 1200001000000000	BI	HOYT MARVIN JUNIOR ET UX LIFE	25-14 1200001000000000
N	BAKER BRUCE W ET UX	25-14 90044000400000	AD	LUCAS LEONARD L ET UX	25-14 90044000100000	AT	WHITEFLATCH DEBBIE ANN	25-14 1200002000000000	BJ	YDHO LYLE WAYNE	25-14 1200600000000000
O	OLIVER GERALD ET AL	25-14 90044000000000	AE	LUCAS LEONARD L ET UX	25-14 90045000020000	AU	FOSTER NORMA	25-14 1200004000000000	BK	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 1200000000000000
P	BROWN TOBIAS & JESSICA	25-14 12002800000000	AF	MCCARTNEY MICHAEL J ET UX	25-14 90045000010000	AV	FOSTER NORMA	25-14 1200005000000000	BL	BRADY ROGER A ET UX	25-14 90035000000000

Surface Owner: DONALD HINES
 Oil/Gas Owner: DONALD HINES
 Well Operator: CHEVRON APPALACHIA, LLC
 Address: 800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA. 15478
 Phone: 724-564-3700

County: MARSHALL
 Township: MOUNDSVILLE, WV
 Surveyor: SERVICES, INC.
 Address: 301 COMMERCE PARK DR
CRANBERRY TOWNSHIP, PA 16066
 Phone: 800-267-2549

NOTICE: THE INTENT OF THIS EXHIBIT IS TO IDENTIFY EXISTING WATER SUPPLIES IN THE VICINITY OF A PROPOSED GAS WELL, AND IS NOT A COMPLETE SURVEY. PROPERTY LINES AND OWNER INFORMATION WERE OBTAINED FROM DEEDS, TAX RECORDS, AERIAL PHOTOGRAPHY, GIS, AND FIELD SURVEYED EVIDENCE.

L:\Projects\Chevron\GIS\Waters\Hines\Unklines_Pad_WaterSupply\Ch.Nat.mxd - Scale 1:21,600 - 4/11/2017 9:58:22 AM - Client: - MAD 1983 StatePlane West Virginia North FIPS 4701 Feet



WATER SUPPLY EXHIBIT
HINES PAD



No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	ANDLINGER, SANDRA S. & KORN, LORI A.	Well	724	2315 HANCOCK STREET	304-280-1108
2	ANDLINGER, SANDRA S. (& D. ANDLINGER)	Well	754	2315 HANCOCK STREET	304-280-1108
3	BAKER, BOBBY G.	Well	621	RD 3 BOX 249	304-845-1836
4	BOSTON, DONALD M.	Spring	1,029	1770 CAMPBELL HILL ROAD	304-845-2506
5	BOSTON, DONALD M.	Spring	1,075	1770 CAMPBELL HILL ROAD	304-845-2506
6	GOODNIGHT, ARNIE N.	Well	556	102 GOODNIGHT LANE	304-845-8505
7	GOODNIGHT, ARNIE N.	Well	654	102 GOODNIGHT LANE	304-845-8505
8	GOODNIGHT, OSCAR J.	Well	654	77 GOODNIGHT LANE	304-845-3813
9	GOSSETT, LANCE J.	Spring	1,134	1256 CAMPBELL HILL RD	304-639-4065
10	GOULDSBERRY, DOUGLAS E.	Dug well	1,293*	1584 CAMPBELL HILL RD	304-830-1265
11	GOULDSBERRY, DOUGLAS E.	Spring	1,112*	1584 CAMPBELL HILL RD	304-830-1265
12	GOULDSBERRY, DOUGLAS E.	Spring	1,177*	1584 CAMPBELL HILL RD	304-830-1265
13	GOULDSBERRY, DOUGLAS E.	Spring	1,062*	1584 CAMPBELL HILL RD	304-830-1265
14	GOULDSBERRY, DOUGLAS E.	Stream	1,072*	1584 CAMPBELL HILL RD	304-830-1265
15	GOULDSBERRY, DOUGLAS E.	Stream	1,078*	1584 CAMPBELL HILL RD	304-830-1265

No.	SUPPLY COORDINATES	H04M	H05M	H06M	H07M	H08M	H09M	H10M	H11M
1	39°54'30.344" N 80°42'15.973" W	1,634	1,641	1,648	1,655	1,681	1,674	1,667	1,660
2	39°54'30.006" N 80°42'16.667" W	1,665	1,672	1,679	1,685	1,712	1,706	1,699	1,693
3	39°54'35.290" N 80°41'58.567" W	1,294	1,309	1,324	1,339	1,341	1,326	1,312	1,297
4	39°54'03.560" N 80°42'02.858" W	1,963	1,948	1,933	1,919	1,924	1,939	1,954	1,969
5	39°54'04.579" N 80°42'01.465" W	1,841	1,827	1,812	1,797	1,801	1,816	1,831	1,846
6	39°54'18.882" N 80°42'31.161" W	2,640	2,637	2,635	2,632	2,662	2,664	2,667	2,669
7	39°54'16.135" N 80°42'29.577" W	2,573	2,569	2,565	2,561	2,590	2,594	2,598	2,602
8	39°54'16.293" N 80°42'25.095" W	2,232	2,227	2,223	2,218	2,247	2,251	2,256	2,260
9	39°54'15.123" N 80°41'43.681" W	1,321	1,313	1,305	1,297	1,272	1,280	1,288	1,296
10	39°54'06.289" N 80°41'51.626" W	1,709	1,695	1,681	1,667	1,658	1,672	1,686	1,701
11	39°53'52.097" N 80°41'37.093" W	3,472	3,459	3,446	3,433	3,418	3,431	3,444	3,458
12	39°54'06.339" N 80°41'45.499" W	1,892	1,880	1,867	1,854	1,838	1,851	1,864	1,877
13	39°54'04.283" N 80°41'37.017" W	2,449	2,438	2,427	2,416	2,395	2,409	2,417	2,428
14	39°54'04.579" N 80°41'37.755" W	2,388	2,377	2,366	2,355	2,335	2,346	2,357	2,368
15	39°54'05.810" N 80°41'37.546" W	2,306	2,295	2,285	2,274	2,253	2,264	2,274	2,285

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*ELEVATIONS SHOWN ARE INTERPOLATED FROM LIDAR TOPO AND SUPPLY COORDINATES ARE FROM OTHERS.

08/18/2017



WATER SUPPLY EXHIBIT
HINES PAD



No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
16	GRANDSTAFF, MARK G.	Well	617	762 TOMS RUN RD	304-780-8287
17	BROWN, TOBIAS & JESSICA	Well	769	873 TOMS RUN LANE	304-374-3857
18	KNUTH, EDWARD D	Spring	811	747 TOMS RUN LANE	304-845-7519
19	HARDING, JODI L. & TERRY A.	Spring	752	899 TOMS RUN LANE	304-845-6315
20	HARDING, JODI L. & TERRY A.	Stream	712	899 TOMS RUN LANE	304-845-6315
21	KNUTH, EDWARD D	Spring	747	747 TOMS RUN LANE	304-845-7519
22	KNUTH, EDWARD D	Spring	826	747 TOMS RUN LANE	304-845-7519
23	KNUTH, EDWARD D	Spring	996	747 TOMS RUN LANE	304-845-7519
24	KNUTH, EDWARD D	Well	692	747 TOMS RUN LANE	304-845-7519
25	LACEFIELD, MORGAN	Spring	1,142	77 BRIDGE STREET PLZ	304-639-0727
26	LACEFIELD, MORGAN	Spring	1,195	77 BRIDGE STREET PLZ	304-639-0727
27	LACEFIELD, MORGAN	Spring	1,145	77 BRIDGE STREET PLZ	304-639-0727
28	LACEFIELD, MORGAN	Spring	1,142	77 BRIDGE STREET PLZ	304-639-0727
29	LACEFIELD, MORGAN	Spring	1,195	77 BRIDGE STREET PLZ	304-639-0727
30	LACEFIELD, MORGAN	Spring	1,145	77 BRIDGE STREET PLZ	304-639-0727

No.	SUPPLY COORDINATES	H04M	H05M	H06M	H07M	H08M	H09M	H10M	H11M
16	39°54'35.265" N 80°41'57.447" W	1,289	1,304	1,319	1,334	1,335	1,320	1,305	1,290
17	39°54'34.110" N 80°41'50.506" W	1,297	1,311	1,325	1,339	1,327	1,313	1,299	1,285
18	39°54'33.332" N 80°41'51.777" W	1,185	1,199	1,213	1,227	1,217	1,203	1,189	1,175
19	39°54'37.871" N 80°41'40.362" W	2,056	2,067	2,079	2,091	2,072	2,060	2,048	2,037
20	39°54'35.305" N 80°41'46.201" W	1,571	1,583	1,596	1,609	1,593	1,580	1,567	1,555
21	39°54'31.392" N 80°41'54.974" W	921	935	950	965	960	945	930	915
22	39°54'29.966" N 80°41'56.148" W	762	777	791	806	803	788	773	758
23	39°54'26.226" N 80°41'50.920" W	644	653	662	672	649	639	629	620
24	39°54'32.857" N 80°41'55.287" W	1,061	1,076	1,091	1,106	1,102	1,087	1,072	1,057
25	39°54'09.647" N 80°42'08.715" W	1,564	1,551	1,539	1,526	1,543	1,555	1,568	1,580
26	39°54'11.242" N 80°42'05.723" W	1,305	1,292	1,278	1,265	1,280	1,293	1,306	1,319
27	39°54'12.196" N 80°42'05.270" W	1,203	1,190	1,177	1,164	1,179	1,192	1,205	1,218
28	39°54'09.647" N 80°42'08.715" W	1,564	1,551	1,539	1,526	1,543	1,555	1,568	1,580
29	39°54'11.242" N 80°42'05.723" W	1,305	1,292	1,278	1,265	1,280	1,293	1,306	1,319
30	39°54'12.196" N 80°42'05.270" W	1,203	1,190	1,177	1,164	1,179	1,192	1,205	1,218

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WATER SUPPLY EXHIBIT
HINES PAD



No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
31	OLIVER, GERALD	Stream	734*	816 TOMS RUN LANE	304-845-7675
32	SCAMELHORN, DENISE	Well	705	432 TOMS RUN LANE	304-810-0336
33	SCAMELHORN, DENISE	Spring	737	432 TOMS RUN LANE	304-810-0336
34	SCAMELHORN, DENISE	Spring	767	432 TOMS RUN LANE	304-810-0336
35	YOHO, RAYMOND P.	Well	726	524 TOMS RUN LANE	304-845-5250
36	GOODNIGHT OSCAR J	Well	642	77 GOODNIGHT LANE MOUNDSVILLE, WV 26041	304-845-3813
37	HOSKINS PATRICIA SUE	Spring	1026	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
38	HOSKINS PATRICIA SUE	Spring	1094	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
39	HOSKINS PATRICIA SUE	Spring	1016	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
40	HOSKINS PATRICIA SUE	Pond	1117	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
41	PYLES RONNIE E ET UX	Well	895	1056 TOMS RUN LANE MOUNDSVILLE, WV 26041	304-845-2288
42	PYLES RONNIE E ET UX	Spring	705	1056 TOMS RUN LANE MOUNDSVILLE, WV 26041	304-845-2288
43	RINE OKEY L JR	Well	1307	6 TRACY LANE MOUNDSVILLE, WV 26041	304-845-1533
44	RINE OKEY L JR	Pond	1130	6 TRACY LANE MOUNDSVILLE, WV 26041	304-845-1533
45	RINE OKEY L JR	Pond	1132	6 TRACY LANE MOUNDSVILLE, WV 26041	304-845-1533

No.	SUPPLY COORDINATES	H04M	H05M	H06M	H07M	H08M	H09M	H10M	H11M
31	39°54'34.462" N 80°42'00.486" W	1,228	1,243	1,258	1,272	1,279	1,264	1,249	1,235
32	39°54'28.713" N 80°42'19.263" W	1,798	1,803	1,808	1,813	1,842	1,837	1,832	1,827
33	39°54'27.565" N 80°42'24.278" W	2,139	2,142	2,145	2,149	2,178	2,174	2,171	2,168
34	39°54'25.851" N 80°42'26.683" W	2,289	2,291	2,293	2,295	2,325	2,323	2,321	2,319
35	39°54'32.558" N 80°42'11.984" W	1,510	1,520	1,530	1,540	1,563	1,553	1,543	1,533
36	39°54'18.6012"N 80°42'24.3252"W	2,117	2,114	2,111	2,108	2,137	2,140	2,144	2,147
37	39°54'06.1092"N 80°41'21.7284"W	3,254	3,247	3,240	3,233	3,214	3,215	3,221	3,228
38	39°54'09.6840"N 80°41'21.4440"W	3,106	3,100	3,094	3,088	3,066	3,067	3,072	3,078
39	39°54'22.6440"N 80°41'25.2816"W	2,521	2,522	2,522	2,523	2,492	2,493	2,492	2,491
40	39°54'11.4516"N 80°41'19.6764"W	3,163	3,159	3,154	3,149	3,125	3,126	3,130	3,135
41	39°54'40.6620"N 80°41'41.1648"W	2,239	2,252	2,264	2,277	2,261	2,262	2,235	2,223
42	39°54'41.2812"N 80°41'43.4832"W	2,194	2,208	2,220	2,234	2,220	2,221	2,194	2,180
43	39°54'28.5516"N 80°41'01.3488"W	4,428	4,431	4,433	4,436	4,404	4,405	4,401	4,399
44	39°54'36.2196"N 80°41'12.9444"W	3,748	3,754	3,760	3,766	3,732	3,733	3,726	3,720
45	39°54'29.6064"N 80°41'16.2096"W	3,307	3,310	3,314	3,318	3,285	3,286	3,281	3,278

*ELEVATIONS SHOWN ARE INTERPOLATED FROM LIDAR TOPO AND SUPPLY COORDINATES ARE FROM OTHERS.

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 Environmental Protection
 08/18/2017



WATER SUPPLY EXHIBIT
HINES PAD



No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
46	THOMAS WILLIAM H ET UX	Well	689	TOMS RUN RD MOUNDSVILLE, WV 26041	304-845-6459
47	THOMAS WILLIAM H ET UX	Well	689	TOMS RUN RD MOUNDSVILLE, WV 26041	304-845-6459
48	VAN SCYOC DELBERT M ET UX	Spring	1137	2074 CAMPBELL HILL ROAD MOUNDSVILLE, WV	304-280-5104
49	VAN SCYOC DELBERT M ET UX	Spring	693	2074 CAMPBELL HILL ROAD MOUNDSVILLE, WV	304-280-5104

No.	SUPPLY COORDINATES	H04M	H05M	H06M	H07M	H08M	H09M	H10M	H11M
46	39°54'42.4584"N 80°41'39.0876"W	2,481	2,493	2,506	2,518	2,502	2,489	2,477	2,464
47	39°54'42.4584"N 80°41'39.0876"W	2,481	2,493	2,506	2,518	2,502	2,489	2,477	2,464
48	39°53'58.7400"N 80°42'12.6180"W	2,675	2,662	2,648	2,634	2,647	2,661	2,674	2,688
49	39°54'12.5064"N 80°42'29.6208"W	2,690	2,685	2,679	2,673	2,701	2,707	2,712	2,718

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Environmental Protection
08/18/2017

*ELEVATIONS SHOWN ARE INTERPOLATED FROM LIDAR TOPO AND SUPPLY COORDINATES ARE FROM OTHERS.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 03/16/2017 Date Permit Application Filed: 4/20/17

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Donald Hines and Wanda L Hines
Address: 301 4th Street
Glen Dale, WV 26038

Name: _____ ✓
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>525707.85</u>
County: <u>Marshall</u>		Northing: <u>4417382.24</u>
District: <u>Washington</u>	Public Road Access: <u>Route 38/Campbell Hill Road</u>	
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hines</u>	
Watershed: <u>Middle Grave Creek - Grave Creek</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 800 Mountain View Drive
Smithfield, PA 15478
Telephone: 724-564-3781
Email: _____
Facsimile: 724-564-3894

Authorized Representative: _____
Address: _____
Telephone: _____
Email: _____
Facsimile: _____

4705101000

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION**

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 03/16/2017 **Date Permit Application Filed:** 4/20/17

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Donald Hines and Wanda L. Hines
Address: 301 4th Street
Glen Dale, WV 26038

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>525707.85</u>
County: <u>Marshall</u>	Northing: <u>4417382.24</u>
District: <u>Washington</u>	Public Road Access: <u>Route 38/Campbell Hill Road</u>
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hines</u>
Watershed: <u>Middle Grave Creek - Grave Creek</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3781
Email: _____

Address: 800 Mountain View Dr
Smithfield, PA 15478
Facsimile: 724-564-3894

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WV Department of
Environmental Protection
03/18/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Casey V. Saunders, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	WVSPN NAD 27	Easting:	<u>1,663,519.568</u>
County:	<u>Marshall</u>		Northing:	<u>514,369.300</u>
District:	<u>Washington</u>	Public Road Access:		
Quadrangle:	<u>MOUNDSVILLE</u>	Generally used farm name:		
Watershed:				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, provided that Chevron U.S.A. Inc. drills the well on WV North NAD27 coordinates of North 514,369.300, East 1,663,519.568. This statement does not serve as notice that has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by mining activity. This Voluntary Statement of No Objection does not waive 's Common Law Property Rights in the State of West Virginia.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p align="center">FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p align="center">FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CONSOL Mining Company, LLC</u></p> <p>By: <u>Casey V. Saunders</u></p> <p>Its: <u>Senior Project Engineer</u></p> <p>Signature: <u>Casey V. Saunders</u></p> <p>Date: _____</p>

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business. We need to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacy@oilandgas.wv.gov

APR 24 2017
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 Department of Environmental Protection
 08/18/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

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VOLUNTARY STATEMENT OF NO OBJECTION

I, _____, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>525707.85</u>
County: <u>Marshall</u>	UTM NAD 83 Northing: <u>4417382.24</u>
District: <u>Washington</u>	Public Road Access: <u>Route 38/Campbell Hill Road</u>
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hines</u>
Watershed: <u>Middle Grave Creek - Grave Creek</u>	

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input checked="" type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>Chevron U.S.A. Inc.</u></p> <p>By: <u>Chad Eisenman</u></p> <p>Its: <u>Legislative & Regulatory Advisor</u></p> <p>Signature: <u>Chad Eisenman</u></p> <p>Date: <u>4-10-17</u></p>
--	--

Oil and Gas Privacy Notice:

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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VOLUNTARY STATEMENT OF NO OBJECTION

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State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>525707.85</u>
County:	<u>Marshall</u>	UTM NAD 83 Northing:	<u>4417382.24</u>
District:	<u>Washington</u>	Public Road Access:	<u>Route 38/Campbell Hill Road</u>
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hines</u>
Watershed:	<u>Middle Grave Creek - Grave Creek</u>		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input checked="" type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u><i>Gerald Oliver</i></u></p> <p>Print Name: <u>GERALD OLIVER</u></p> <p>Date: <u>3-22-17</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
--	--

Oil and Gas Privacy Notice:

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WV Department of
Environmental Protection
04/18/2017



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Jim Justice
Governor

Thomas J. Smith, P. E.
Secretary of Transportation/
Commissioner of Highways

February 14, 2017

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Hines Pad A Well Site, Marshall County

Hines A Unit M4H	Hines A Unit M5H	Hines A Unit M6H
Hines A Unit M7H	Hines A Unit M8H 51-01930	Hines A Unit M8H
Hines A Unit M10H	Hines A Unit M11H	

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2017-0073 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 38 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: Mandy Fordyce
Chevron Appalachia, LLC
CH, OM, D-6
File

Hydraulic Fracturing Fluid Additives

Supplier	Name	Purpose
Universal	7.5% HCl Acid	Acid - To open perforations
Universal	Unislick ST50	Friction Reducer for Water and Brine (Anionic)
Universal	Scale Inhibitor A	Scale Inhibitor
Universal	Iron Control A	Iron Control
Universal	Unihib G	Corrosion Inhibitor for Acid
Universal	K-Bac 1020	Biocide/Bactericide
Universal	CMHPG (Polyfrac Gel)	Gel
Universal	LEB 10X	Gel Breaker
Universal	100 Mesh White Sand	Proppant
Universal	40-70 Mesh White Sand	Proppant

470151

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY

LEGEND

- EXISTING PROPERTY LINE
- EXISTING DRIVEWAY
- EXISTING INTERLOCATED CULVERT
- EXISTING PAVED ROADWAY
- EXISTING UNPAVED ROADWAY
- EXISTING SIDEWALK
- EXISTING ALLEY
- EXISTING METEORIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING TELECOMMUNICATION LINE
- EXISTING FENCE
- EXISTING WETLAND
- EXISTING STREAM
- EXISTING STRUCTURE
- EXISTING TRENCH
- EXISTING FIRE HYDRANT
- PROPOSED ROAD
- PROPOSED SIDE OF ACCESS ROAD
- PROPOSED DRIVEWAY
- PROPOSED INTERLOCATED CULVERT
- PROPOSED SIDEWALK
- PROPOSED UNPAVED ROADWAY
- PROPOSED PAVED ROADWAY
- PROPOSED ALLEY
- PROPOSED METEORIC LINE
- PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED TELECOMMUNICATION LINE
- PROPOSED FENCE
- PROPOSED WETLAND
- PROPOSED STREAM
- PROPOSED STRUCTURE
- PROPOSED TRENCH
- PROPOSED FIRE HYDRANT
- PROPOSED ROCK
- PROPOSED SOFT SAND
- PROPOSED SAND
- PROPOSED GRAVEL
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED CURB
- PROPOSED UTILITY
- PROPOSED SIGN
- PROPOSED LIGHT
- PROPOSED PAVEMENT
- PROPOSED GRADE
- PROPOSED SURFACE
- PROPOSED FINISH
- PROPOSED ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED POINT
- PROPOSED CENTERLINE
- PROPOSED CENTERLINE OFFSET
- PROPOSED CENTERLINE WIDTH
- PROPOSED CENTERLINE CORNER
- PROPOSED CENTERLINE CURVE
- PROPOSED CENTERLINE GRADE
- PROPOSED CENTERLINE SURFACE
- PROPOSED CENTERLINE FINISH
- PROPOSED CENTERLINE ELEVATION
- PROPOSED CENTERLINE SPOT ELEVATION
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- PROPOSED CENTERLINE CURVE
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- PROPOSED CENTERLINE FINISH
- PROPOSED CENTERLINE ELEVATION
- PROPOSED CENTERLINE SPOT ELEVATION
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- PROPOSED CENTERLINE CENTERLINE

NOTES

- ALL UTILITY PLACES SHOWN BY CNA & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/17/2016 TO 10/27/2016.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VIRGINIA CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VIRGINIA CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VIRGINIA CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.

STREAM AND WETLAND NOTES

- WETLANDS ARE IDENTIFIED BY THE FOLLOWING DATA: (A) WETLANDS ARE LOCATED WITHIN THE BOUNDARIES OF THE PROJECT.
- WETLANDS ARE LOCATED WITHIN THE BOUNDARIES OF THE PROJECT.
- WETLANDS ARE LOCATED WITHIN THE BOUNDARIES OF THE PROJECT.
- WETLANDS ARE LOCATED WITHIN THE BOUNDARIES OF THE PROJECT.

COMPACTION SPECIFICATIONS

- PLACE ALL MATERIALS USING COMPACTOR EQUIPMENT WITH GREATER THAN 10-15 TON WEIGHT IN COMPACTED LIFT NOT EXCEEDING 12 INCHES (305 MM) MAXIMUM LAYER THICKNESS.
- COMPACTED MATERIAL SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VIRGINIA CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.
- ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VIRGINIA CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.

REFERENCES

- CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.
- CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.
- CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.
- CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.

REVISION RECORD

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	10/27/2016
2	REVISIONS	10/27/2016
3	REVISIONS	10/27/2016
4	REVISIONS	10/27/2016
5	REVISIONS	10/27/2016
6	REVISIONS	10/27/2016
7	REVISIONS	10/27/2016
8	REVISIONS	10/27/2016
9	REVISIONS	10/27/2016
10	REVISIONS	10/27/2016
11	REVISIONS	10/27/2016
12	REVISIONS	10/27/2016
13	REVISIONS	10/27/2016
14	REVISIONS	10/27/2016
15	REVISIONS	10/27/2016
16	REVISIONS	10/27/2016
17	REVISIONS	10/27/2016
18	REVISIONS	10/27/2016
19	REVISIONS	10/27/2016
20	REVISIONS	10/27/2016
21	REVISIONS	10/27/2016
22	REVISIONS	10/27/2016
23	REVISIONS	10/27/2016
24	REVISIONS	10/27/2016
25	REVISIONS	10/27/2016

NOTES

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- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE VIRGINIA CONSTRUCTION STANDARDS MANUAL, 2014 EDITION.

EDWARD KNUTH 14-12/27
ARNIE GOODNIGHT 14-12/25
DONALD HINES 14-12/30

ES 102
SCALE IN FEET
0 50

CHEVRON APPALACHIA, LLC
WASHINGTON DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)

HINES WELL SITE

Civil & Environmental Consultants, Inc.
4000 Tringham Lane, Suite 203 - Export, PA 15632
724-271-5200 800-689-9810



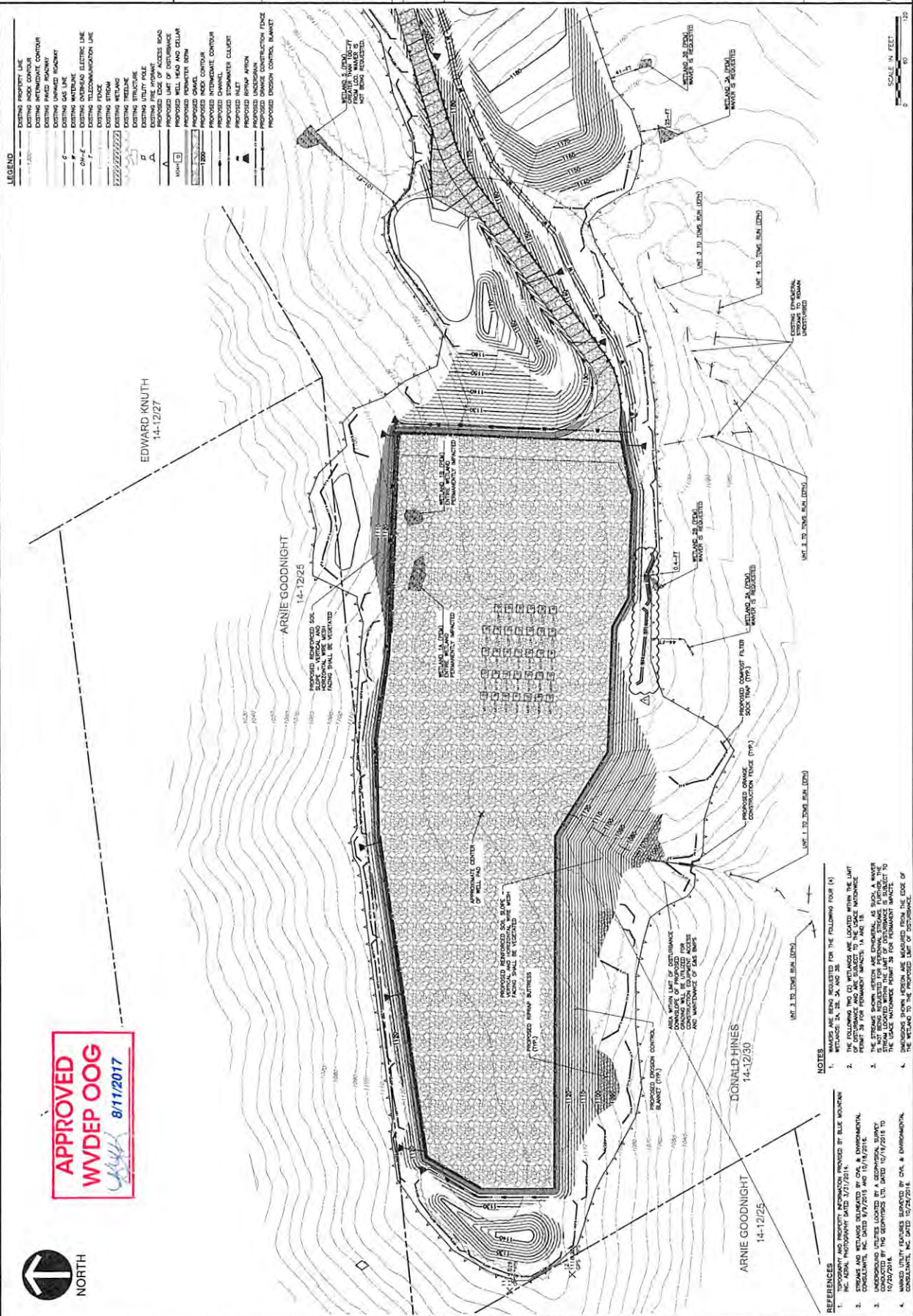
08/18/2017



APPROVED
WVDEP OOG
8/11/2017

- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING INDEX CONTOUR
 - EXISTING INTERIMMEDIATE CONTOUR
 - EXISTING PAVED ROADWAY
 - EXISTING UNPAVED ROADWAY
 - EXISTING DRAINAGE CHANNEL
 - EXISTING DRAINAGE DITCH
 - EXISTING WATERLINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND UTILITY LINE
 - EXISTING FENCE
 - EXISTING STREAM
 - EXISTING WETLAND
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - PROPOSED TRUCK TRAIL
 - PROPOSED TRUCK TRAIL OF ACCESS ROAD
 - PROPOSED LOT OF DISTURBANCE
 - PROPOSED WELL HEAD AND CELLAR
 - PROPOSED SHED
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERIMMEDIATE CONTOUR
 - PROPOSED STORMWATER COLLECTOR
 - PROPOSED INLET
 - PROPOSED BROW ARROW
 - PROPOSED DRAINAGE CONSTRUCTION FENCE
 - PROPOSED EROSION CONTROL BLANKET

Civil & Environmental Consultants, Inc.
4909 Triangle Lane, Suite 200 - Export, PA 15422
724-277-5299 408-899-9519
www.civil.com



REVISION RECORD

NO.	DATE	DESCRIPTION
1	07/20/2017	REVISED PER WDEP COMMENT

HINES WELL PAD
WASHINGTON DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

WETLAND WAIVER
REQUEST FIGURE

Project Number: 14-12/2017
Date: 07/20/2017
Issue Number: 02/02/2017
Checked By: JMT
Project Manager: LLC

FIG. 3

- NOTES**
1. ALL WETLANDS ARE SHOWN FOR THE FOLLOWING FOUR (4) WETLANDS: SA, SW, SA, AND SW.
 2. THE FOLLOWING TWO (2) WETLANDS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE MITIGATION PLAN.
 3. THE STREAMS SHOWN WETLAND ARE ENHANCED AS SUCH A WETLAND SHALL BE RESTORED TO ORIGINAL CONDITIONS WITHIN THE USACE MITIGATION PLAN.
 4. DIMENSIONS SHOWN REFER TO THE EDGE OF THE WETLANDS TO THE PROPOSED LIMIT OF DISTURBANCE.

- REFERENCES**
1. INC. AERIAL PHOTOGRAPHY DATED 3/7/2016.
 2. SWAMP AND WETLAND DELINEATION BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATES 7/27/2016 AND 10/16/2016.
 3. SWAMP AND WETLAND DELINEATION BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/16/2016 TO 10/20/2016.
 4. SWAMP AND WETLAND DELINEATION BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/20/2016.

SCALE IN FEET
0 60 120

08/18/2017