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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, November 30, 2018  
WELL WORK PERMIT  
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC  
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HAZLETT M16H  
47-051-02111-00-00

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: HAZLETT M16H  
Farm Name: IRENE HAZLETT - LIFE  
U.S. WELL NUMBER: 47-051-02111-00-00  
Horizontal 6A New Drill  
Date Issued: 11/30/2018

**PERMIT CONDITIONS 4705102111**

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.

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**CONDITIONS**

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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 4705102111

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](mailto:DEPOOGNotify@wv.gov).



west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> 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  
P.O. Box 611  
Moon Township, PA 15108

DATE: November 27, 2018  
ORDER NO.: 2018-W-12

**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 "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 Appalachia, LLC is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 611, Moon Township, Pennsylvania.
3. On August 3, 2018, Chevron Appalachia, LLC submitted well work permit applications identified as API#s 47-051-02092, 47-051-02093, 47-051-02094, 47-051-02095, 47-051-02096, 47-051-02097, 47-051-02099 and 47-051-02100. Then on August 7, 2018 Chevron Appalachia, LLC submitted well work permit applications identified as API#s 47-051-02107, 47-051-02108, 47-051-02109, 47-051-02110, 47-051-02111 and 47-051-02112. The proposed wells are to be located on the Hazlett Pad in Union District of Marshall County, West Virginia.
4. On August 3, 2018, Chevron Appalachia, LLC requested a waiver for Wetlands 1A, 3A, 3B and 4 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 47-051-02092, 47-051-02093, 47-051-02094, 47-051-02095, 47-051-02096, 47-051-02097, 47-051-02099, 47-051-02100, 47-051-02107, 47-051-02108, 47-051-02109, 47-051-02110, 47-051-02111 and 47-051-02112. Wetlands 1A and 4 will be excluded from this waiver because they are more than 100' from the LOD of the pad.

## 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 3A and 3B from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-02092, 47-051-02093, 47-051-02094, 47-051-02095, 47-051-02096, 47-051-02097, 47-051-02099, 47-051-02100, 47-051-02107, 47-051-02108, 47-051-02109, 47-051-02110, 47-051-02111 and 47-051-02112. The Office of Oil and Gas hereby **ORDERS** that Chevron Appalachia, LLC shall meet the following site construction and operational requirements for the Hazlett Well Pad:

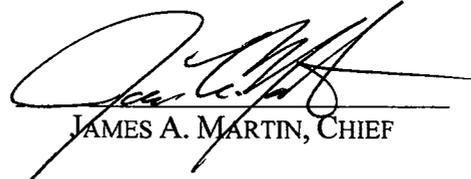
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland 3A shall have both a compost filter sock trap and a layer of thirty two-inch (32”) compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Wetland 3B shall have two layers of eighteen-inch (18”) compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- 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 27th day of November, 2018.

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





May 3, 2018

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

Dear Reviewer:

Subject: Wetland Waiver Request  
Chevron Appalachia, LLC  
Hazlett Well Pad Project  
Union District, Marshall County, West Virginia  
CEC Project 164-755

## 1.0 INTRODUCTION

On behalf of Chevron Appalachia, LLC (Chevron), Civil & Environmental Consultants, Inc. (CEC) is submitting a Wetland Waiver Request 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 three palustrine emergent wetlands and one palustrine scrub-shrub wetland for their proposed Hazlett Well Pad Project located in Union District, Marshall County, West Virginia.

Chevron is proposing to expand an existing natural gas well pad and widen the associated existing access road. The total limit of disturbance (LOD) for the project is approximately 18 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 May 23, 2017. 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 Hazlett Well Pad Project is located off Grandview Road/WV-86 in Union District, Marshall County, West Virginia, east of the city of Glen Dale, as shown on the Site Location Map. The project's proposed LOD is located within 100 feet of three palustrine emergent wetlands and one palustrine scrub-shrub wetland, as shown on the Aquatic Impacts Map. The approximate distance of each wetland to the nearest boundary of the LOD is as follows:

- Wetland 1A – 0 linear feet; <sup>k</sup>
- Wetland 3A – 0 linear feet;
- Wetland 3B – 53 linear feet; and
- Wetland 4 – 1 linear foot. <sup>✓</sup>

No perennial streams are located within 100 feet of the project LOD. A waiver is not being requested for the Wetlands 1B and 2 which are located entirely within the LOD. Chevron is requesting authorization from the U.S. Army Corps of Engineers (USACE) for impacts to these wetlands, impacts to the portions of Wetlands 1A and 3A within the LOD, and for impacts to three ephemeral unnamed tributaries to Little Grave Creek. A copy of the Application for Department of the Army Permit 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 well pad and access road would not be expanded and no immediate environmental impacts would occur. Natural 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.*

Due to the size of the proposed well pad, the steep topography of the surrounding area, and the location of the subsurface coal boundary, the current location of the proposed Hazlett Well Pad is the primary location desired by Chevron. Further, this project expands an existing well pad and access road. Siting the proposed well pad at an alternative location will likely result in additional earth and vegetation disturbance. 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. Two of the wetlands are located on the southwest side of the access road and two of the wetlands are located on the eastern side of the well pad. If the access road was shifted northeast, it would result in significantly more earth disturbance due to the steep topography. Similarly, if the well pad was shifted west to avoid the two wetlands, additional permanent stream impacts would occur on the western side of the pad.

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.*

The proposed Hazlett Well Site design represents the alternative which reduces permanent impacts to the greatest degree practicable. Shifting the proposed well pad east or west would create higher fill slopes and result in more 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 Hazlett 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;
- 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
- One ephemeral stream (UNT 3 to Little Grave Creek) located within the LOD will be realigned and restored to approximate original dimensions downgradient of the proposed fill slope toe-key outlet drain 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 Waiver Request. Please contact Mallory Owens at 724-327-5200 or [mowens@cecinc.com](mailto:mowens@cecinc.com) if you have any questions or require additional information.

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC



Sarah V. Parker  
Assistant Project Manager



Mallory A. Owens, M.S.  
Project Manager

SVP:MAO/jg/hm  
Enclosures

cc: Jenny Hayes, Chevron Appalachia, LLC (PDF only)

L-164755.May3/P

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**ATTACHMENT A**

**WETLAND AND PERENNIAL STREAM WAIVER REQUEST FORM**

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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: Hazlett Well Pad

County, District, Quadrangle of Well Location: Marshall County, Union 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.

11/3/14

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.

11/3/14

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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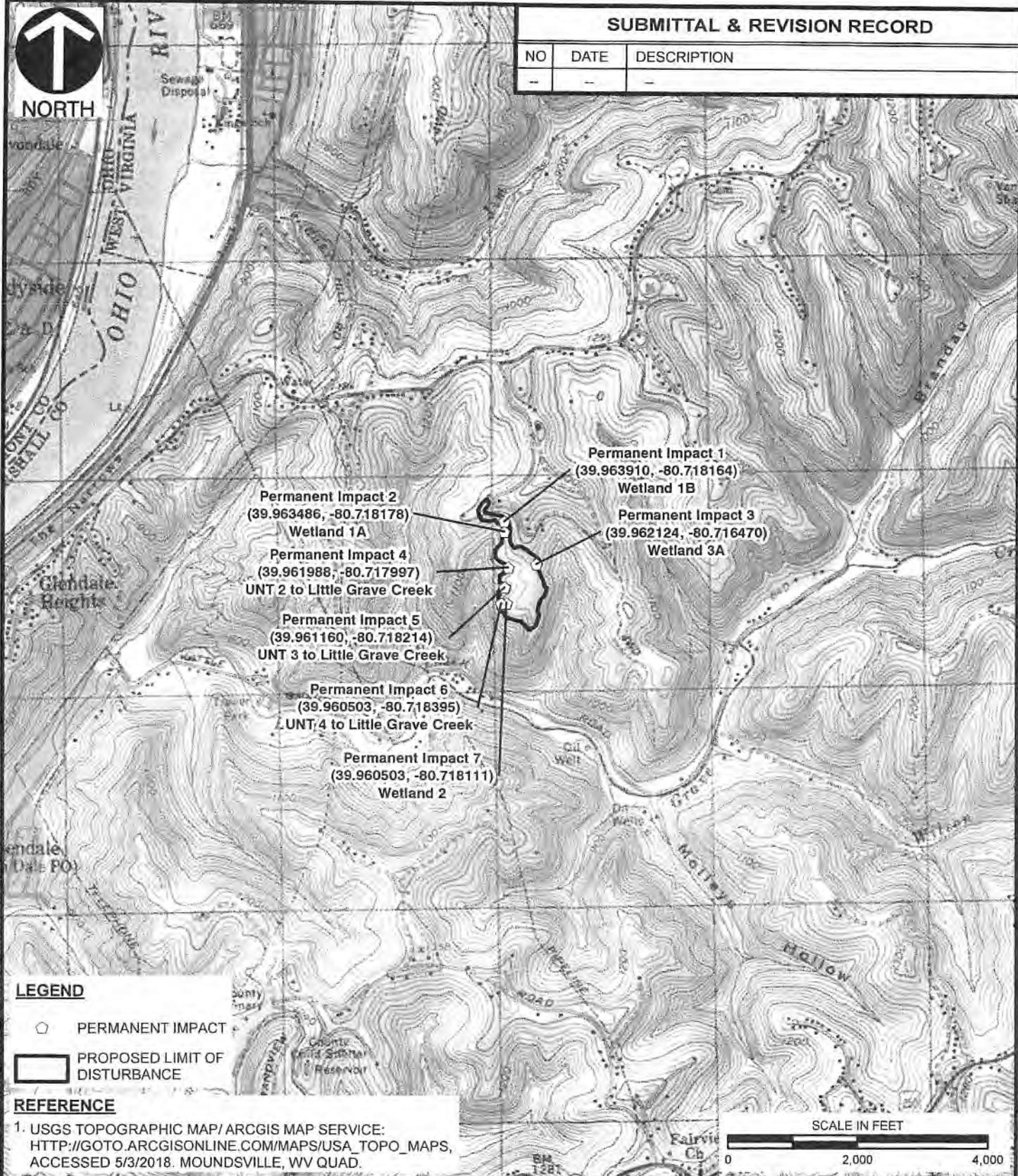
**ATTACHMENT B**

**FIGURES**

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SUBMITTAL & REVISION RECORD		
NO	DATE	DESCRIPTION
-	-	-

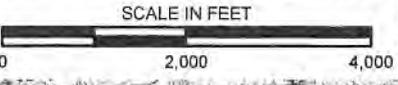


**LEGEND**

- ◊ PERMANENT IMPACT
- ▭ PROPOSED LIMIT OF DISTURBANCE

**REFERENCE**

1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:  
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA\\_TOPO\\_MAPS](http://gto.arcgis.com/maps/usa_topo_maps),  
 ACCESSED 5/3/2018. MOUNDSVILLE, WV QUAD.



P:\2016\164-755-GIS\MapInfo\EC05\_NWP\164-755\_EC05\_FIG\_1\_SITE\_LOC\_MAP.mxd 5/3/2018 8:33 AM (kcolairz)



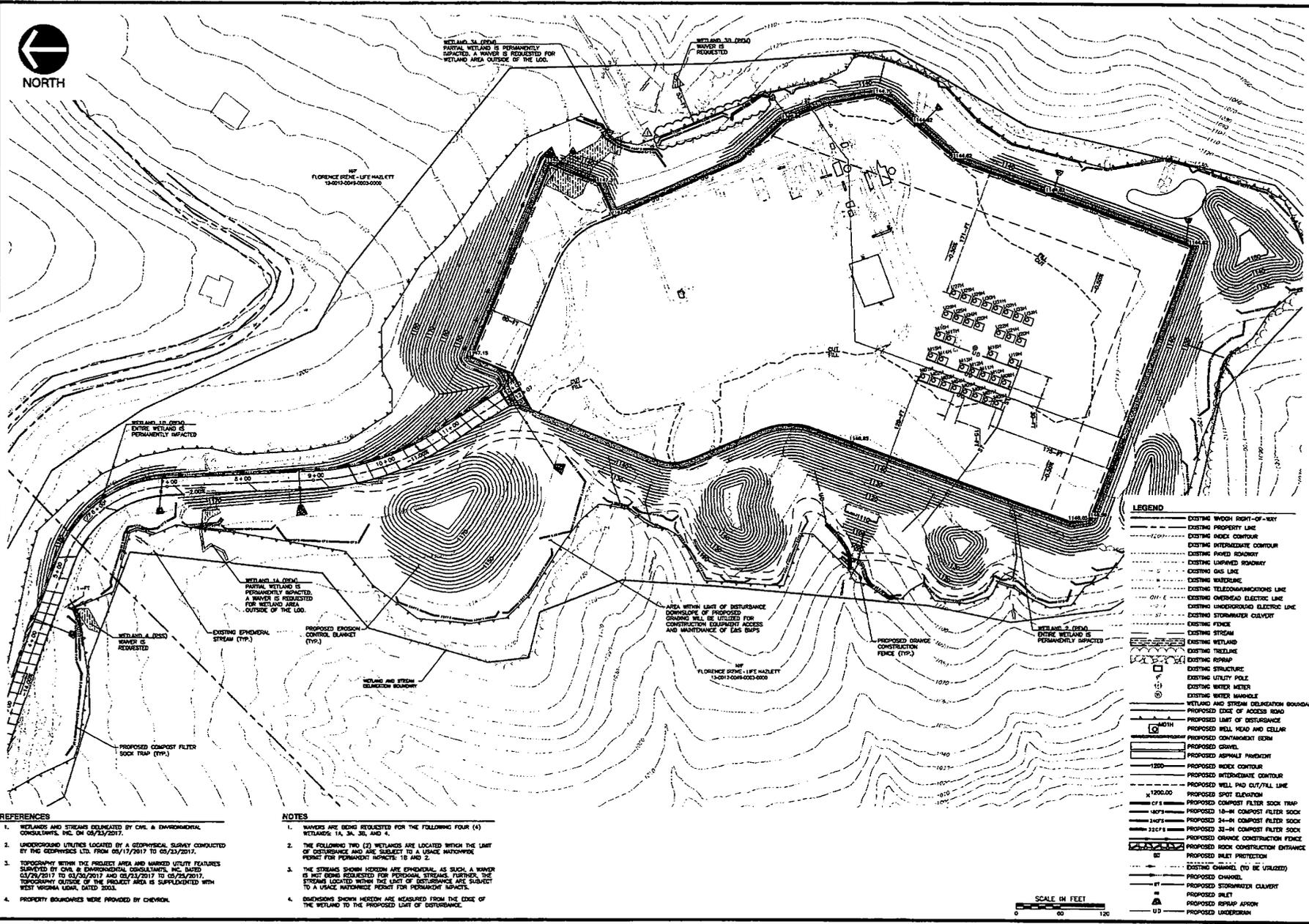
**Civil & Environmental Consultants, Inc.**  
 4000 Triangle Lane, Suite 200 - Export, PA 15632  
 724-327-5200 • 800-899-3610  
[www.cecinc.com](http://www.cecinc.com)

CHEVRON APPALACHIA, LLC  
 HAZLETT WELL PAD  
 UNION DISTRICT,  
 MARSHALL COUNTY, WEST VIRGINIA

**SITE LOCATION MAP**

DRAWN BY:	KMC	CHECKED BY:	SVP	APPROVED BY:	PAK*	FIGURE NO:	<b>1</b>
DATE:	05/03/2018	SCALE:	1" = 2,000'	PROJECT NO:	164-755	* Hand signature on file	



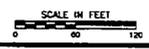


**LEGEND**

- EXISTING WOOD RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING PAVED ROADWAY
- EXISTING UNPAVED ROADWAY
- EXISTING GAS LINE
- EXISTING WATERLINE
- EXISTING TELECOMMUNICATIONS LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORMWATER CULVERT
- EXISTING FENCE
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING TRUCKLANE
- EXISTING RRRAIP
- EXISTING STRUCTURE
- EXISTING UTILITY POLE
- EXISTING WATER METER
- EXISTING WATER MANHOLE
- WETLAND AND STREAM DELINEATION BOUNDARY
- PROPOSED EDGE OF ROADSIDE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED WELL HEAD AND CELLAR
- PROPOSED COMPARTMENT BEEM
- PROPOSED CHAMBER
- PROPOSED ASPHALT PREVENT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED WELL PAD OUT/FILL LINE
- PROPOSED SPOT ELEVATION
- PROPOSED COMPOST FILTER SOCK TRAP
- PROPOSED 18-IN COMPOST FILTER SOCK
- PROPOSED 24-IN COMPOST FILTER SOCK
- PROPOSED 36-IN COMPOST FILTER SOCK
- PROPOSED DRENCH CONSTRUCTION FENCE
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED INLET PROTECTION
- EXISTING CHANNEL (TO BE UTILIZED)
- PROPOSED CHANNEL
- PROPOSED STORMWATER CULVERT
- PROPOSED INLET
- PROPOSED RRRAIP APPROX
- PROPOSED UNDERDRAIN

- REFERENCES**
1. WETLANDS AND STREAMS DELINEATED BY CHEV & ENVIRONMENTAL CONSULTANTS, INC. ON 08/23/2017.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. FROM 08/17/2017 TO 08/23/2017.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND ADJACENT UTILITY FEATURES SURVEYED BY CHEV & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/26/2017 TO 03/28/2017 AND 08/23/2017 TO 08/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LOGS, DATED 2003.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

- NOTES**
1. WAIVERS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS: 1A, 3A, 3B, AND 4.
  2. THE FOLLOWING TWO (2) WETLANDS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO A USAGE INADVERTISE PERMIT FOR PERMANENT IMPACTS: 1B AND 2.
  3. THE STREAMS SHOWN HEREON ARE EPHEMERAL. AS SUCH, A WAIVER IS NOT BEING REQUESTED FOR PERMANENT IMPACTS. HOWEVER, THE STREAMS LOCATED WITHIN THE LIMIT OF DISTURBANCE ARE SUBJECT TO A USAGE INADVERTISE PERMIT FOR PERMANENT IMPACTS.
  4. SURROUNDING SHOWS HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.



**REVISION RECORD**

Date	By	Description

**HAZLETT WELL PAD**  
 UNION DISTRICT  
 MARSHALL COUNTY, WEST VIRGINIA  
 PREPARED FOR  
**CHEVRON APPALACHIA, LLC**  
 700 CHERINGTON PARKWAY  
 CORAOPOLIS, PA 15108

**WETLAND WAIVER REQUEST FIGURE**

Project Number:	15A-755
Drawing Scale:	1"=50'
Date Issued:	02/20/18
Index Number:	
Drawn By:	ESD
Checked By:	SLB
Project Manager:	PLK

**FIG. 3**

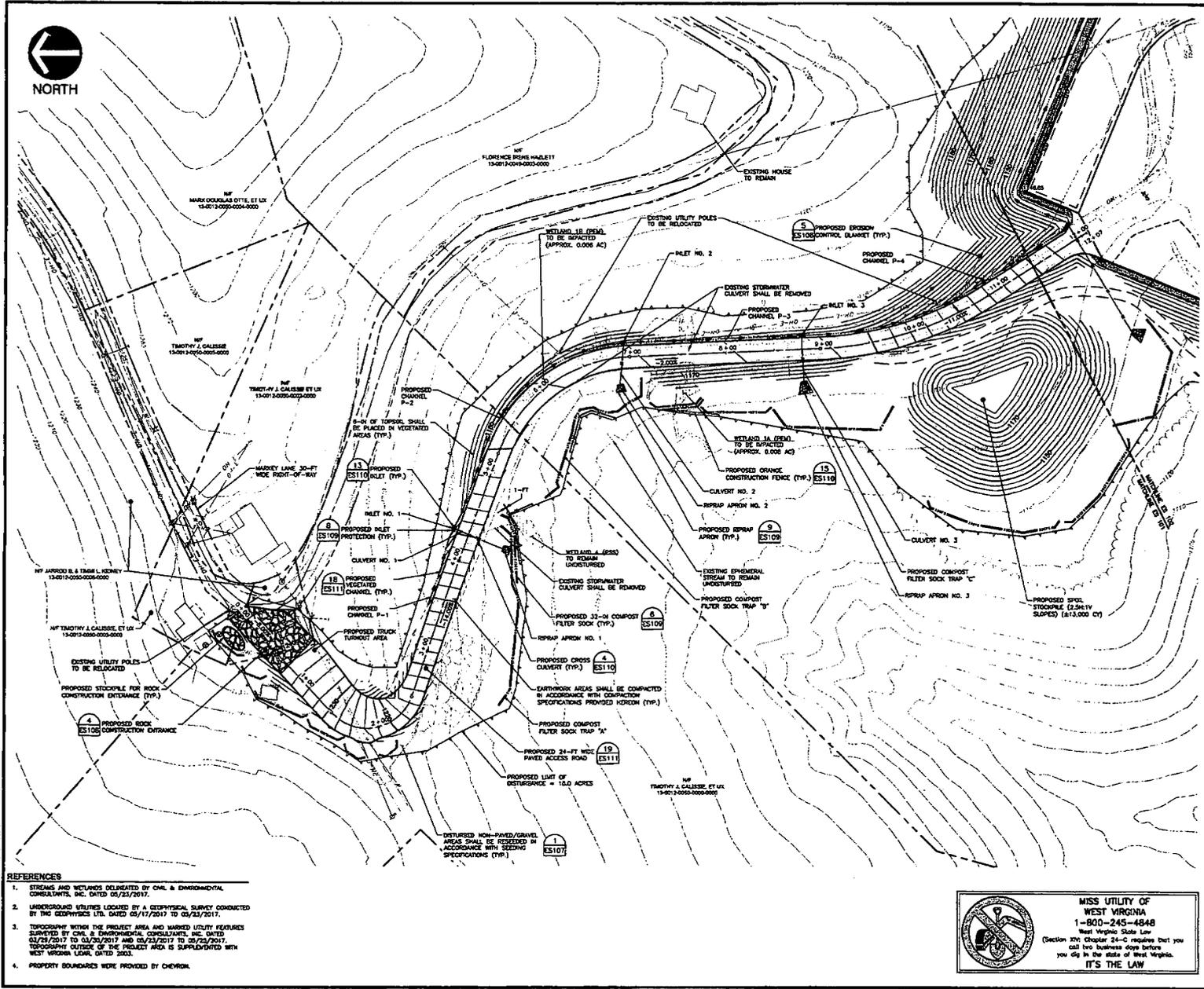
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**ATTACHMENT C**

**EROSION AND SEDIMENT CONTROL PLAN**

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**LEGEND**

---	EXISTING WOODY RIGHT-OF-WAY
---	EXISTING PROPERTY LINE
---	EXISTING ROCK CONTOUR
---	EXISTING INTERMEDIATE CONTOUR
---	EXISTING PAVED ROADWAY
---	EXISTING UNPAVED ROADWAY
---	EXISTING GAS LINE
---	EXISTING WATERLINE
---	EXISTING TELECOMMUNICATIONS LINE
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING STORMWATER CULVERT
---	EXISTING FENCE
---	EXISTING STREAM
---	EXISTING WETLAND
---	EXISTING TREE/LAKE
---	EXISTING RIPRAP
---	EXISTING STRUCTURE
---	EXISTING UTILITY POLE
---	EXISTING WATER METER
---	EXISTING WATER MANHOLE
---	EXISTING GAS WELL
---	PROPOSED SIDE OF ACCESS ROAD
---	PROPOSED WILL HEAD AND COLLAR
---	PROPOSED CONTOURMENT BERM
---	PROPOSED CURB
---	PROPOSED ASPHALT PAVEMENT
---	PROPOSED INTERMEDIATE CONTOUR
---	PROPOSED WELL PAD C/P/FULL LINE
---	PROPOSED SPOT ELEVATION
---	PROPOSED 18-IN COMPOST FILTER SOCK TRAP
---	PROPOSED 24-IN COMPOST FILTER SOCK TRAP
---	PROPOSED 30-IN COMPOST FILTER SOCK TRAP
---	PROPOSED ORANGE CONSTRUCTION FENCE
---	PROPOSED ROCK CONSTRUCTION ENTRANCE
---	PROPOSED INLET PROTECTION
---	PROPOSED EPHEMERAL CONTOUR BLANKET (TYP.)
---	EXISTING CHANNEL (TO BE UTILIZED)
---	PROPOSED CHANNEL
---	PROPOSED STORMWATER CULVERT
---	PROPOSED INLET
---	PROPOSED RIPRAP APRON
---	PROPOSED UNDERDRAIN
---	DETAIL MANHOLE
---	DRAINING OCCASION

- STREAM AND WETLAND NOTES**
1. WETLAND BARRIERS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100'-FT OF THE LIMIT OF DISTURBANCE: WETLANDS 1A, 3A, 3C, AND 4. WETLANDS 1A AND 3A CROSS THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY IMPACTED.
  2. THE FOLLOWING FOUR (4) WETLANDS AND (3) EPHEMERAL STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE WATERWORKS PERMIT 30 PER FUNDAMENTAL RIGHTS: WETLAND 1A, 1B, 3, 3C AND STREAMS CRT 2, CRT 3, AND CRT 4 TO LITTLE CREEK CHECK.
  3. THE STREAMS SHOWN HEREIN OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT, AS SUCH, A BARRIER IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
  4. FOUNDATIONS SHOWN HEREIN ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE FILL MATERIALS USING COMPACTION EQUIPMENT WITH DEPTH OF 10-INCHES HEIGHT BY COMPACTED LIFTS NOT EXCEEDING 18 INCHES THICK. USE A REINFORCED LOOSE LIFT THICKNESS OF 4 INCHES. WETLAND AREAS WITHIN STEEL-PLATE TRAMPS OR OTHER HAND-OPERATED COMPACTORS ARE BEING USED. WETLAND PATTERNS SHOULD NOT EXCEED 18 INCHES IN STRUCTURAL FILL AREAS WHERE HEAVY SELF-PROPELLED COMPACTORS ARE UTILIZED. A REINFORCED WETLAND PATTERNS SIZE OF 3 INCHES SHOULD BE USED IN AREAS WITH HEAVY-OPERATED COMPACTORS ARE USED. WASTE OVERSIZED PARTICLES EXCEEDING THE WETLAND PATTERNS SIZE SHOULD BE REMOVED OUTSIDE OF THE PROPOSED FILL AREAS OR IN DEEPER AREAS OF FILL. WETLAND PATTERNS (I.E. MATERIALS EXCEEDING 6 INCHES) PLACED IN THE DEEPEST LIMITS OF FILL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 18 INCHES. LIFTS SHOULD BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
  2. COMPACT ALL PAD AND ROADWAY SUBGRADES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 100 PERCENT OF ITS MAXIMUM DRY DENSITY WITHIN ±3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D938 (STANDARD PRACTICE).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2017.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 05/17/2017 TO 05/23/2017.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SUPPLIED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 04/20/2017 AND 05/23/2017 TO 05/23/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPERIMPOSED WITH WEST VIRGINIA LOCAL DATUM 2003.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

**MISS UTILITY OF WEST VIRGINIA**  
 1-800-245-4848  
 West Virginia State Law  
 (Section 20c Chapter 24-C requires that you call two business days before you dig in the state of West Virginia.)  
**IT'S THE LAW**

SCALE IN FEET  
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**REVISION RECORD**

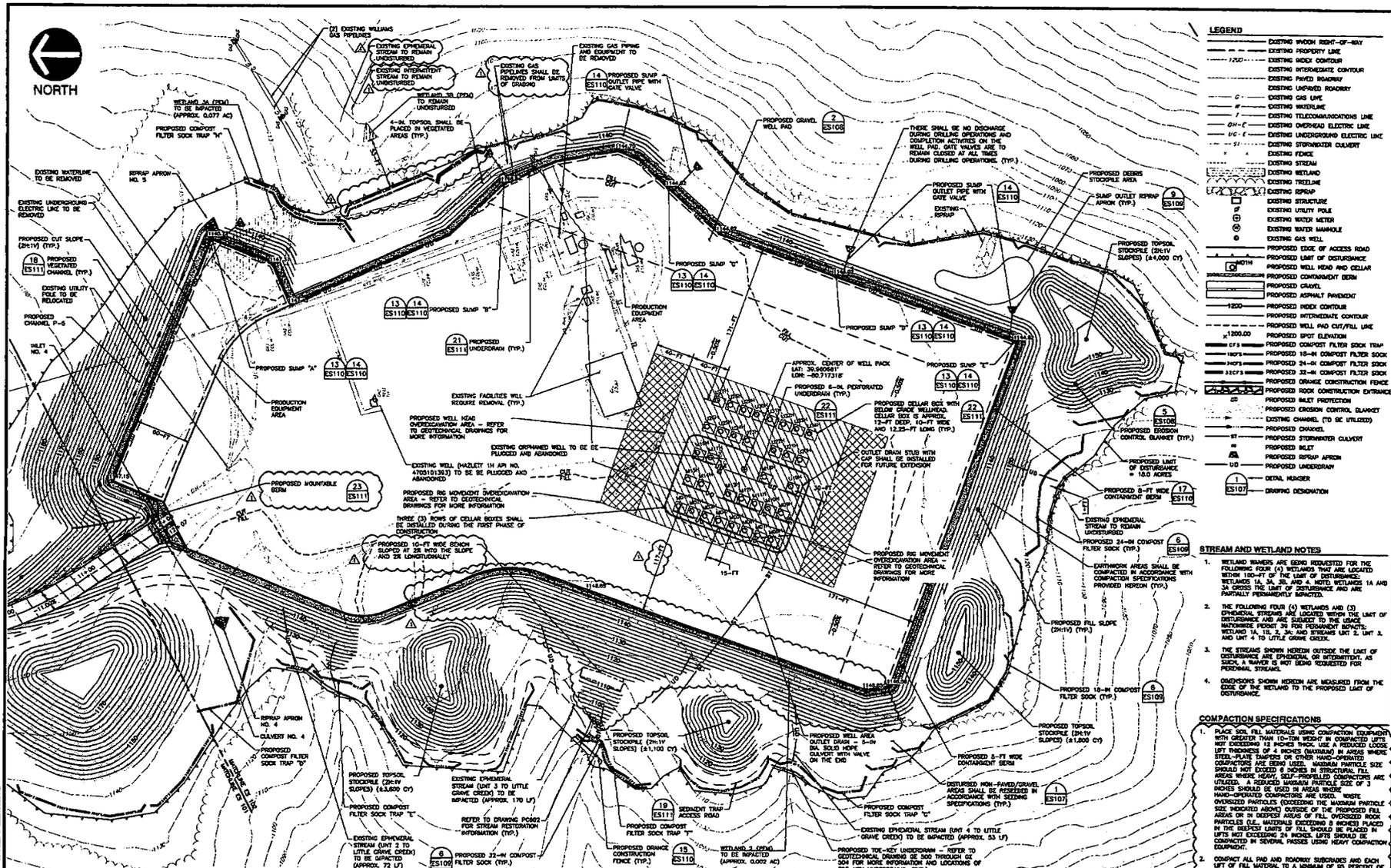
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**HAZLETT WELL PAD**  
 UNION DISTRICT  
 MARSHALL COUNTY, WEST VIRGINIA  
 PREPARED FOR:  
**CHEVRON APALACHIA, LLC**  
 700 CHERINGTON PARKWAY  
 CORAOPOLIS, PA 15108

**EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)**

Project Number: 184725  
 Drawing Scale: E-350  
 Date Issued: 11/21/17  
 Index Number:  
 Drawn By: ESB  
 Checked By: JAM  
 Project Manager: DRAFT

**ES 101**



- LEGEND**
- EXISTING HIGHWAY RIGHT-OF-WAY
  - EXISTING PROPERTY LINE
  - 100' EXISTING BOUNDARY
  - EXISTING INTERMEDIATE CONTOUR
  - EXISTING PAVED HIGHWAY
  - EXISTING UNPAVED ROADWAY
  - EXISTING GAS LINE
  - EXISTING WATERLINE
  - EXISTING TELECOMMUNICATIONS LINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING UNDERGROUND ELECTRIC LINE
  - EXISTING STORMWATER CULVERT
  - EXISTING FENCE
  - EXISTING STREAM
  - EXISTING WETLAND
  - EXISTING TRAIL
  - EXISTING BRUSH
  - EXISTING STRUCTURE
  - EXISTING UTILITY POLE
  - EXISTING WATER METER
  - EXISTING WATER MANHOLE
  - EXISTING GAS WELL
  - PROPOSED EDGE OF ACCESS ROAD
  - PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED WELL HEAD AND CELLAR
  - PROPOSED GRAVEL
  - PROPOSED ASPHALT PAVEMENT
  - PROPOSED INDEX CONTOUR
  - PROPOSED WELLS AND CHUTE/FILL LINE
  - 100' PROPOSED SPOT ELEVATION
  - PROPOSED COMPOST FILTER SOCK TRAP
  - 100' PROPOSED 15-IN COMPOST FILTER SOCK
  - 200' PROPOSED 24-IN COMPOST FILTER SOCK
  - 300' PROPOSED 32-IN COMPOST FILTER SOCK
  - 400' PROPOSED DRAINAGE CONSTRUCTION FENCE
  - PROPOSED ROOM CONSTRUCTION ENTRANCE
  - PROPOSED BUILT PROTECTION
  - PROPOSED EROSION CONTROL, BLANKET
  - EXISTING CHANNEL (TO BE UTILIZED)
  - PROPOSED CHANNEL
  - PROPOSED STORMWATER CULVERT
  - PROPOSED BUILT PROTECTION
  - PROPOSED BUSHY APPROX
  - PROPOSED UNDERDRAIN
  - DETAIL HEADER
  - DRAWING DESIGNATION

- STREAM AND WETLAND NOTES**
1. WETLAND BOUNDARIES ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE AUTOMATIC PERMIT REVIEW FOR PERMANENT IMPACTS: WETLANDS 1A, 1B, 2, 3A, AND STREAMS UNIT 2, UNIT 3, AND UNIT 4 TO LITTLE CREEK.
  2. THE FOLLOWING FOUR (4) WETLANDS AND (3) EPHEMERAL STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE AUTOMATIC PERMIT REVIEW FOR PERMANENT IMPACTS: WETLANDS 1A, 1B, 2, 3A, AND STREAMS UNIT 2, UNIT 3, AND UNIT 4 TO LITTLE CREEK.
  3. THE STREAMS SHOWN HEREIN OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT. AS SUCH, A PERMIT IS NOT BEING REQUESTED FOR PERMANENT IMPACTS.
  4. CONCRETE SHOWN HEREIN ARE NEARLY FROM THE EDGE OF THE ROADWAY TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH WEIGHTS OF 10-125 LBS. OR HEAVIER. COMPACTED LAYER THICKNESS SHALL NOT EXCEED 12 INCHES THICK. USE A REDUCED LOOSE LIFT THICKNESS OF 6 INCHES THICK FOR ALL GRANULAR MATERIALS. STEEL-PLATE TAMPORS OR OTHER HAND-OPERATED COMPACTION DEVICES ARE PROHIBITED. PARTICULATE SIZE SHOULD NOT EXCEED 8 INCHES IN STRUCTURAL AREAS AND 12 INCHES IN NON-STRUCTURAL AREAS. SELF-PERFORATED CONCRETE AREAS SHALL BE COMPACTED WITH A HEAVY-DUTY HAND-OPERATED COMPACTION DEVICE. WASTE OVERSIZED PARTICLES (EXCEEDING THE MAXIMUM PARTICLE SIZE INDICATED ABOVE) OUTSIDE OF THE PROPOSED FILL AREAS OR IN DEEPER AREAS OF FILL SHOULD BE PLACED IN LOTS NOT EXCEEDING 16 INCHES LAYER THICKNESS AND BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
  2. COMPACT ALL FILL AND ROUGHEN SUBGRADE AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY DENSITY WITHIN 4.5 FEET OF THE TOP OF THE GRANULAR MATERIAL. DETERMINE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CME & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/23/2017.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICAL LTD. DATED 03/17/2017 TO 03/23/2017.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CME & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/23/2017 TO 03/30/2017 AND 03/23/2017 TO 03/29/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LOCAL DATED 2011.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

**MISS UTILITY OF WEST VIRGINIA**  
 1-800-245-4648  
 West Virginia Safe Law  
 (Section 37A Chapter 24-C requires that you call two business days before you dig in the state of West Virginia.)  
**IT'S THE LAW**

SCALE IN FEET  
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**CME & Environmental Consultants, Inc.**  
 4000 Highgate Lane, Suite 300 - Exeter, PA 17026  
 717-327-0200 - 800-490-9810  
 www.cmeinc.com



**REVISION RECORD**

NO.	DATE	BY	DESCRIPTION
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**HAZLETT WELL PAD**  
 UNION DISTRICT  
 MARSHALL COUNTY, WEST VIRGINIA  
 PREPARED FOR:  
**CHEVRON APPALACHIA, LLC**  
 700 CHEVRON PARKWAY  
 CORAOPOLIS, PA 15108

**EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)**  
 Project Number: 164-735  
 Drawing Scale: 1"=50'  
 Date Issued: 01/20/18  
 Index Number:  
 Drawn By: SBB  
 Checked By: JAS  
 Project Manager: JAS

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**ATTACHMENT D**

**APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT**

---



17. DIRECTIONS TO THE SITE

From I-70 W, continue onto I-470 W, following signs for Columbus. Take Exit 1 for US 250 S/WV-2 S toward Moundsville. Drive 0.5 mile, turn left, and use the right 2 lanes to merge onto US-250 S/WV-2 S via the ramp to Moundsville. Drive 5.1 miles, and turn left onto 21st Street and then right onto Marshall Street. Marshall Street turns slightly left and becomes 23rd Street and then Riley Hill Road. Drive approximately 1 mile, and turn left onto WV-86 N/Grandview Road. Drive 0.5 mile, and turn right onto Markey Lane/CR-10.

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

Chevron Appalachia, LLC is proposing to expand an existing natural gas well pad site and widen the associated existing access road. The proposed limit of disturbance (LOD) is approximately 26 acres. The proposed project area includes an existing well pad and access road, residential areas, upland hay field, and wooded hillslopes. The project will require fill to be placed in 0.101 acre of palustrine emergent (PEM) wetlands and 288 linear feet of ephemeral streams.

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 for shale operations.

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 three unnamed tributaries (UNTs) to Little Grave Creek and four palustrine emergent (PEM) wetlands. These permanent impacts are associated with grading activities for expansion of the well pad and access road. Underdrains are being installed beneath the proposed fill slopes to maintain stream flow.

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
390 CY of earthen material into wetlands	80 CY of earthen material into streams	N/A

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

Acres 0.101 acre of PEM wetlands  
or  
Linear Feet 288 linear feet of ephemeral streams

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 while still meeting the project's purpose and need. Grading was minimized to avoid impacts to UNTs 1, 5, 6, and 7 to Little Grave Creek and Wetlands 3B and 4. Orange construction fencing will be installed around the downstream portions of UNTs 1, 2, 3, and 6 to Little Grave Creek to avoid additional impacts.

24. County, Parish, or the Work and City Government: (If YES, PLEASE DESCRIBE THE COMPLETED WORK)

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Acreage to be Drilled or Worked on:

a. Address- See attached table.

City - State Zip -

b. Address-

City - State Zip -

c. Address-

City - State Zip -

d. Address-

City - State Zip -

e. Address-

City - State Zip -

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

AGENCY	TYPE APPROVAL	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
WVDNR OLS	Right of Entry	Not yet assigned	December 2017	Pending	
WVDEP	Horizontal 6A Well P	Not yet assigned	Pending	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

*Jenny Hayes*  
SIGNATURE OF APPLICANT

1-15-18  
DATE

*Mark A. Owens*  
SIGNATURE OF AGENT

1/15/18  
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.

4705102111

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 Union Moundsville, WV  
Operator ID County District Quadrangle

2) Operator's Well Number: 16H Well Pad Name: Hazlett

3) Farm Name/Surface Owner: Hazlett Public Road Access: CR 10 Markey Lane

4) Elevation, current ground: 1148' Elevation, proposed post-construction: 1144'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal  \_\_\_\_\_

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 6150', 50' thick; pore pressure gradient 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,170'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20,739

11) Proposed Horizontal Leg Length: 13,054

12) Approximate Fresh Water Strata Depths: 541' below GL

13) Method to Determine Fresh Water Depths: Deepest known water well w/in 3 mi radius

14) Approximate Saltwater Depths: Potential Brine @ 1754 ft and 2066 ft below GL

15) Approximate Coal Seam Depths: Pittsburgh Coal top @ 624 ft below GL

16) Approximate Depth to Possible Void (coal mine, karst, other): 624 ft below GL

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

WV Department of  
Environmental Protection

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

4705 + 02111

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	30"	New			50'	50'	CTS
Fresh Water	20"	New	J-55	94	591'	591'	CTS
Coal	13-3/8"	New	J-55	54.5	724'	724'	CTS
Intermediate	9-5/8"	New	L-80	40	2,116'	2,116'	CTS
Production	5-1/2"	New	P-110	20	20,739'	20,739'	2,616' (500' below 9-5/8" shoe)
Tubing							
Liners							

*ju*  
6/28/18

<b>TYPE</b>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	30"	36"					
Fresh Water	20"	26"	0.438"	2,110		Class A	1.2
Coal	13-3/8"	17-1/2"	0.38"	2,730	400	Class A	1.19
Intermediate	9-5/8"	12-3/8" to 12-1/4"	0.395"	5,750	500	Class A	1.19
Production	5-1/2"	8-1/2" to 8-3/4"	0.361"	14,360	2050	Class A, G, or H	1.25
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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WV Department of  
Environmental Protection

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 6,170'. Drill horizontal leg.

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

9525 bbl fluid - 400,000 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): 25.6

22) Area to be disturbed for well pad only, less access road (acres): 15

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts; Production String: (1) centralizer every jt from TMD to planned TOC & (1) every other joint from planned TOC to surface.

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

For the Water String the blend will contain class A cement, 3% CaCl<sub>2</sub>, and flake. The coal will contain class A cement, 3% CaCl<sub>2</sub>, Salt, and flake. The intermediate will contain class A cement, 3% CaCl<sub>2</sub>, Salt, 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.

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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.

WV Department of  
Environmental Protection

\*Note: Attach additional sheets as needed.

4705 + 02111

**Cement Additives**

The Water String the blend will contain class A cement, 3% CaCl<sub>2</sub>, and flake.

The intermediate will contain class A cement, 10% CaCl<sub>2</sub>, Salt, 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.

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Office of Oil and Gas

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WV Department of  
Environmental Protection

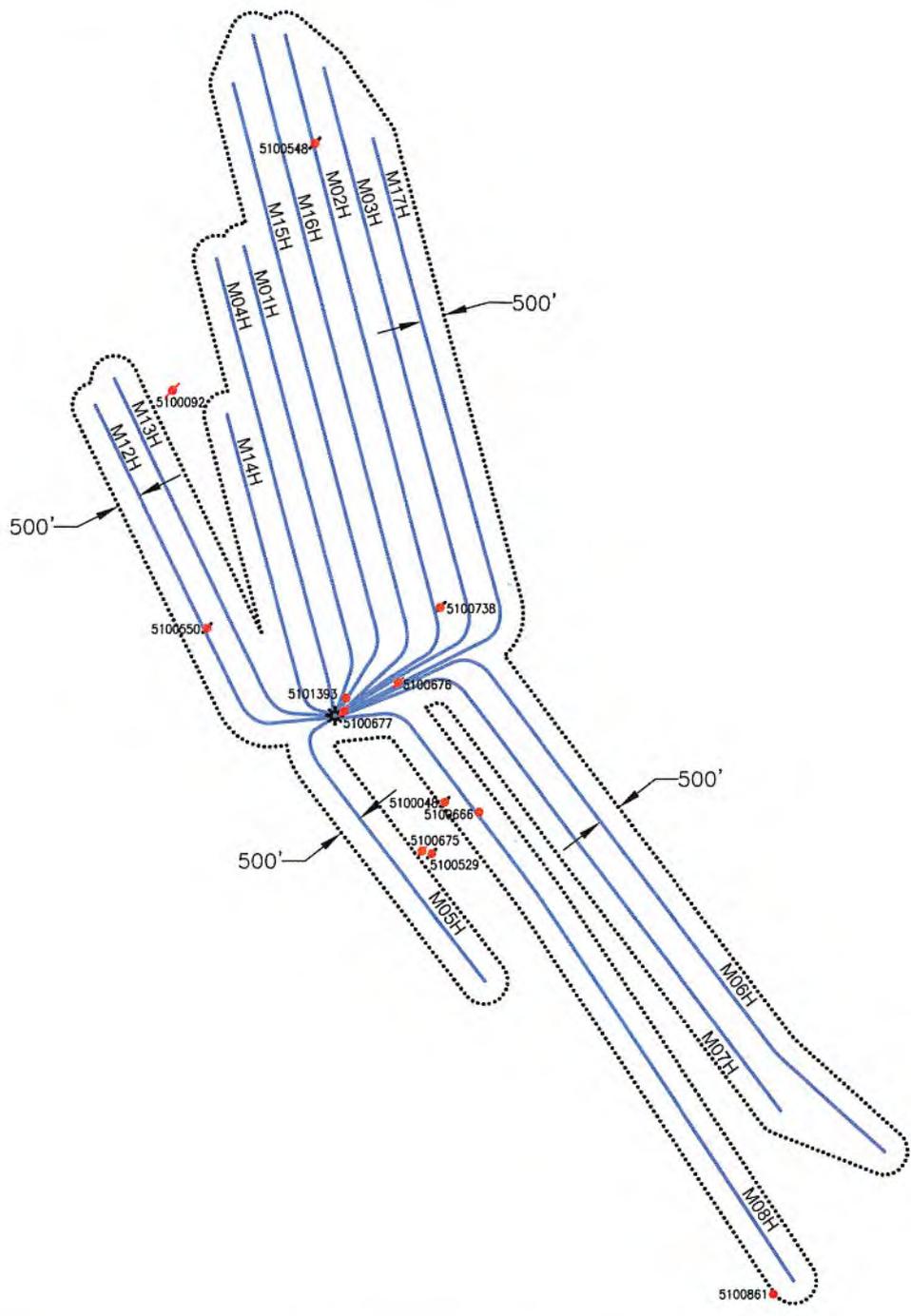
4705.02111

# Hazlett M16H

Permit#		Union District, Marshall Co, WV		6/5/2018 14:23		Ground Level Elev. (ft above SL):		1144									
DRILLING FLUID / BIT TYPE / TFA		CENTRALIZER PROGRAM		CASING SIZE / FORMATION		DEPTH		WELLHEAD DESIGN		HOLE SIZE		HOLE DEPTH		CASING SPECS		CEMENT PROGRAM	
						MD (FT) TVD (FT)		FMC UH-S 13 5/8"		INCH		FEET					
Core Barrel / Auger		2 Bowspring per Jt		30" Conductor		50 50		INC AZM		36 50		Conductor 30" 118.2# X-42 29.25 Minimum 40 ft from GL or at least 10 ft into bedrock		Grout to Surface			
Air DRL with Mist and additives / 26" Hammer		Bow Spring: (1) on shoe track w/ stop collar & (1) per J over coupling to surface		20" Casing		591 591				26 621		Surface Casing 20" 94# J-55 BTC 0.438" Wall Coupling OD (in) 21.000 ID (in) 19.124 Drift ID (in) 18.937 Burst (psi) 2110 Collapse (psi) 520 Yield (Jt Strength 1,000 lbs) 1402 Capacity (bb/ft) 0.3553 Annulus (bb/ft) 0.2681		Surface Blend (Class A) Cement to surface 30% Excess			
Air DRL with Mist and additives		Bow Spring: (1) on shoe track w/ stop collar & (1) per J over coupling  (1) installed 100 ft from surface <b>Basket Placement</b> Secured w/ (2) lock rings above and (1) below		Basket Placement Top of Coal Deepest Coal		724 724				17.50 754		Coal String 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) 2730 Collapse (psi) 1130 Yield (Jt Strength 1,000 lbs) 853		Intermediate I Blend (Class A) Cement grout to surface Shoe Job Vol. (50% Excess) Grout Job Vol. (100% Excess)			
Air DRL with Mist and additives		Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 Jts over coupling		9-5/8" Casing		2,116 2,116				12.25 2,176		Intermediate Casing 9-5/8" 40# L-80IC BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5750 Collapse (psi) 3080 Yield (Jt Strength 1,000 lbs) 916		Intermediate II Blend (Class A) Cement to surface 30% Excess			
		Surface - TOC (1) per every other Jt  TOC-Curve KOP (1) per Jt of csg  Curve KOP-TMD (1) per Jt of csg  10' Marker Jt of Csg 100' above KOP		KOP						8.5 to 8.75		Production Casing 5-1/2" 20# P110EC DW/C-IS-Plus .361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14360 Collapse (psi) 12090 Yield (Jt Strength 1,000 lbs) 729		Production Lead Slurry (Class A, G, H) Cement top approximately 500' below 5-5/8" shoe			
Planned MW: 11.5ppg SBM - 12.5ppg SBM		Float Equip. (2) Jts of Csg Float Equip.		Est. BHT deg F 5-1/2" Casing		20,799 6,170				8.500 20,754							

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*John*  
8/26/18



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

**PREPARED FOR:**  
CHEVRON APPALACHIA, LLC  
700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108

**LEGEND**

- WELL LOCATION
- ACTIVE WELL
- PLUGGED WELL
- ABANDON WELL

**HAZLETT**  
**AREA OF REVIEW MAP**  
**MARSHALL COUNTY**  
**UNION DISTRICT**  
**WEST VIRGINIA**

TOPO QUAD: MOUNDSVILLE, WV

SCALE: 1" = 4000'

DATE: MAY 4, 2018

4705102111

Well ID	Prior Operator/On Record	Operator - DEP	Status	Latitude	Longitude	Vertical ID	Producing Formation	Producing Zones/NOT Perforated
47-051-00548	PACE, PREBLE & BOWER INC.	PACE, PREBLE & BOWER INC.	PLUGGED	39.994422	-80.719818	UNKNOWN	BEREA SANDSTONE	UNKNOWN
47-051-00738	MID-CON PETROLEUM CO., INC	MID-CON PETROLEUM CO., INC	PLUGGED	39.967281	-80.709460	1100'	COW RUN SANDSTONE	UNKNOWN
47-051-01393	CHIEF OIL & GAS LLC	CHEVRON APPALACHIA LLC	ACTIVE	39.961821	-80.716665	6250'	MARCELLUS SHALE	UNKNOWN
47-051-00677	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.961040	-80.716806	3100'	GORDON SANDSTONE	UNKNOWN
47-051-00676	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.962782	-80.712662	3100'	GORDON SANDSTONE	UNKNOWN
47-051-00092	RUDDER OIL & GAS	CONLEY & ASSOC	ABANDONED	39.979762	-80.730517	UNKNOWN	UNKNOWN	UNKNOWN
47-051-00650	PACE, PREBLE & BOWER INC.	PACE, PREBLE & BOWER INC.	PLUGGED	39.965829	-80.727542	2512'	BIG INJUN	UNKNOWN
47-051-00048	WASMUTH - CALLAHAN GAS CO.	WASMUTH - CALLAHAN GAS CO.	PLUGGED	39.955803	-80.708895	1626'	BIG INJUN	UNKNOWN
47-051-00666	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.955223	-80.706218	2700'	GORDON SANDSTONE	UNKNOWN
47-051-00675	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.952901	-80.710590	2700'	GORDON SANDSTONE	UNKNOWN
47-051-00529	PACE-BOWER CONSTRUCTION	PACE-BOWER CONSTRUCTION	PLUGGED	39.952756	-80.709837	1624'	BIG INJUN	UNKNOWN
47-051-00861	CNX GAS COMPANY, LLC	CNX GAS COMPANY, LLC	ACTIVE	39.927045	-80.682911	378'	PITTSBURGH	UNKNOWN

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WW-9  
(5/16)

API Number 47 - 4705-02111  
Operator's Well No. Hazlet 160

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) Short Creek - Ohio River 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 Pit 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 & Oil based from 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) N/A

-Landfill or offsite name/permit number? Short Creek Landfill/SWF-1034/WV0109517 and Arden Landfill/#100172

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.

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Company Official Signature Jenny Hayes AUG 7 2018  
Company Official (Typed Name) Jenny Hayes  
Company Official Title Permitting Team Lead WV Department of Environmental Protection

Subscribed and sworn before me this 27th day of June, 2018 Commonwealth of Pennsylvania  
Laura Savage County of Allegheny  
Notary Public

My commission expires September 17, 2018

Commonwealth of Pennsylvania - Notary Seal  
Laura Savage, Notary Public  
Allegheny County  
My commission expires September 17, 2018  
Commission number 1285773  
Member, Pennsylvania Association of Notaries

Proposed Revegetation Treatment: Acres Disturbed 15.4 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: *Jim Anderson*

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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WV Department of  
Environmental Protection

Title: Oil & Gas Inspector

Date: 8/26/18

Field Reviewed?  Yes  No

SEED MIXTURE				
Temporary			Permanent	
Seed Type		Lbs/Acre	Seed Type	Lbs/Acre
Annual Ryegrass	or	50	Hayfield, Pastureland, & Cropland	
Winter Wheat		75	Orchard Grass	80
			Timothy	80
			Birdsfoot – Trefoil	20
			Ladino Clover	20

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Environmental Protection

4705102111



**Chevron**

**Appalachian LLC**  
**WV Well Site Safety Plan**  
**Pad: Hazlett Pad A**  
**Well # M16H**

**28 Timmi Lane**  
**Glen Dale, WV 26038**  
**Glen Dale District**  
**Marshall County, WV**

*JW 7/9/18*

**Access Point – [39.964486°N, 80.719328°W]**  
**Well Site – [39.961756°N, 80.717081°W]**  
**Marshall County, West Virginia**

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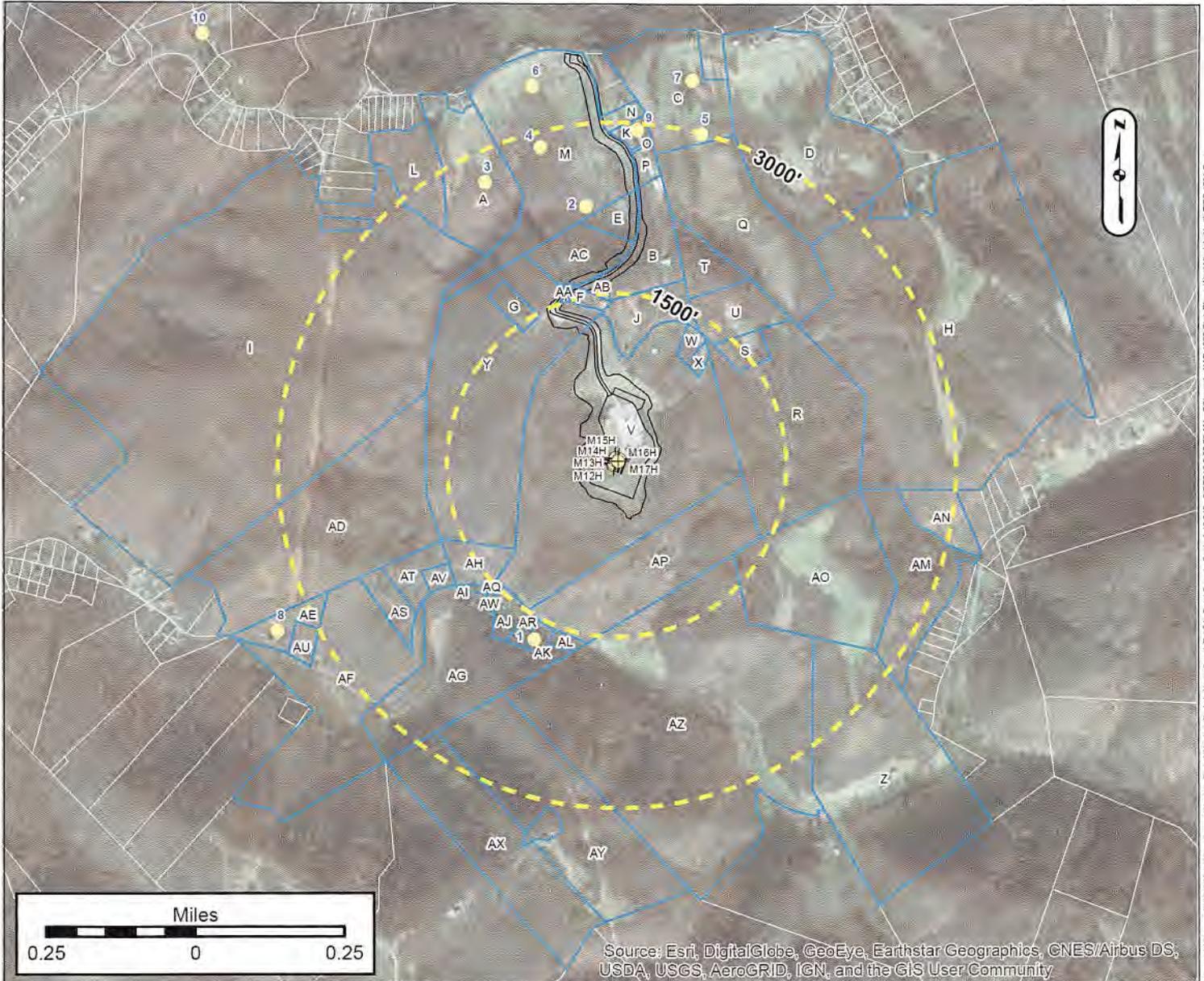
AUG 7 2018

WV Department of  
Environmental Protection



# WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #2

4705 02111



## LOT OWNERS

Label	Owner	TM	Label	Owner	TM	Label	Owner	TM
A	KEY GLADYS E - LIFE	25-13 12002700000000	N	OTTE MICHAEL P	25-13 12003100000000	AB	CALISSIE TIMOTHY J	25-13 12005000050000
B	OTTE MARK DOUGLAS ET UX	25-13 12005900040000	O	OTTE HUBERT CHAS & JANE E	25-13 12003300010000	AC	KIDNEY JARROD S & TIMMI L	25-13 12005000060000
C	OTTE MICHAEL P & DENISE A	25-13 12003500010000	P	OTTE MARK D	25-13 12003300000000	AD	MAST LEVI E ET AL	25-13 12005100000000
D	ANGEL ADAM S JR	25-13 11006100000000	Q	OTTE MARK D & KELLY J	25-13 12003500000000	AE	MCCLINTOCK LARRY L & ALICIA S	25-14 10016000400000
E	LEACH CHARLES L JR	25-13 12005000020000	R	GLENDALE CITY OF	25-13 12004400000000	AF	YODER ELI A ET AL	25-14 10016000000000
F	CALISSIE TIMOTHY J ET UX	25-13 12005000020000	S	GLEN DALE TOWN OF	25-13 12004500000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000
G	KIDNEY JARROD S & TIMMI L	25-13 12005000080000	T	HAZLETT IRENE - LIFE	25-13 12004600000000	AH	SPRINGER BARBARA K	25-13 12005000010000
H	KURELAC PATRICIA A	25-13 12003500000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 12004600010000	AI	VOELLINGER JOHN & LORI	25-13 12005000090000
I	REILLY JOHN WILLIAM III ET AL	25-13 12001400000000	V	HAZLETT IRENE - LIFE	25-13 12004900000000	AJ	LINZY LINDA A	25-13 12004800020000
J	HAZLETT FLORENCE IRENE - LIFE	25-13 12004900030000	W	HAZLETT MICHAEL C - LIFE	25-13 12004900010000	AK	VICKERS MARY E EST	25-13 12004800000000
K	OTTE HUBERT CHAS & JANE E	25-13 12003200000000	X	HAZLETT MICHAEL C - LIFE	25-13 12004900020000	AL	VICKERS THOMAS D & JANET E	25-13 12004800010000
L	BURCH LESTER M ET UX	25-13 12002600000000	Y	CALISSIE TIMOTHY J ET UX	25-13 12005000000000	AM	ROBINSON GARY A	25-13 12004300010000
M	OTTE THOMAS L ET AL - LIFE	25-13 12002800000000	AA	CALISSIE TIMOTHY J ET UX	25-13 12005000030000	AN	RICHARDS CHRISTINE	25-13 12004200010000
						AO	OTTE HUBERT C ET AL	25-13 12004300000000
						AP	HAZLETT IRENE - LIFE	25-13 12004700000000
						AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000
						AR	RHODES LISA & NORMAN L	25-13 12004800040000
						AS	YODER ELI A ET AL	25-14 10016000100000
						AT	YODER ELI A ET AL	25-14 10016000200000
						AU	NGUYEN LAMSON N ET UX	25-14 10016000300000
						AV	SPRINGER BARBARA K	25-14 10016000500000
						AW	LINZY LINDA A	25-14 10017000100000
						AX	MARSHALL COUNTY PARK & REC	25-14 20008000000000
						AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
						AZ	OTTE HUBERT C ET AL	25-14 30002000000000
						Z	OTTE HUBERT C ET AL	25-14 30003000000000

Surface Owner: IRENE HAZLETT  
 Oil/Gas Owner: IRENE HAZLETT  
 Well Operator: CHEVRON APPALACHIA, LLC  
 Address: 700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108  
 Phone: 724-564-3700

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

Office of Oil and Gas

AUG 7 2018

WV Department of Environmental Protection

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 BOUNDARY SURVEY. PROPERTY LINES AND OWNER INFORMATION WERE OBTAINED FROM DEEDS, TAX RECORDS, AERIAL PHOTOGRAPHY, GIS, AND FIELD SURVEYED EVIDENCE.



Water Supply Exhibit  
Hazlett Pad A Batch #2

4705 02111

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	VICKERS THOMAS D & JANET E	Creek	766	1526 LITTLE GRAVE CREEK DRIVE	304-845-4568
2	OTTE, MICHAEL; OTTE, MARK; OTTE, HUBERT & JANE; KEY, GLADYS	Spring	1,167	224 MARKEY HILL LANE	304-232-0478
3	KEY GLADYS E - LIFE	Spring	1,179	1875 GLEN DALE HIGHTS ROAD	304-312-1408
4	OTTE, MICHAEL; OTTE, MARK; OTTE, HUBERT & JANE; KEY, GLADYS	Spring	1,169	224 MARKEY HILL LANE	304-232-0478
5	OTTE MICHAEL P & DENISE A	Spring	1,192	26 JOHN DEERE DRIVE	304-312-9337
6	OTTE, MICHAEL; OTTE, MARK; OTTE, HUBERT & JANE; KEY, GLADYS	Spring	1,173	224 MARKEY HILL LANE	304-232-0478
7	OTTE MICHAEL P & DENISE A	Spring	1,199	26 JOHN DEERE DRIVE	304-312-9337
8	MCCLINTOCK LARRY L & ALICIA S	Well	718	1456 LITTLE GRAVE CK DRIVE	304-810-0571
9	OTTE MICHAEL P	Well	1,349	26 JOHN DEERE DRIVE	304-312-9337
10	REILLY JOHN WILLIAM III ET AL	Well	1,160	80 RED FARM LANE	304-233-7824

No.	SUPPLY COORDINATES	M12H	M13H	M14H	M15H	M16H	M17H		
1	39°57'23.25240"N 80°43'11.50320"W	1,677	1,693	1,723	1,738	1,740	1,725		
2	39°58'00.68520"N 80°43'06.23640"W	2,271	2,258	2,230	2,217	2,231	2,245		
3	39°58'02.65440"N 80°43'17.77080"W	2,719	2,708	2,687	2,676	2,698	2,709		
4	39°58'05.77200"N 80°43'11.60400"W	2,854	2,842	2,816	2,804	2,821	2,834		
5	39°58'07.12560"N 80°42'53.30160"W	2,998	2,983	2,953	2,938	2,941	2,956		
6	39°58'11.03880"N 80°43'12.64800"W	3,392	3,379	3,353	3,341	3,357	3,370		
7	39°58'11.79480"N 80°42'54.45000"W	3,440	3,425	3,395	3,380	3,385	3,400		
8	39°57'23.72400"N 80°43'40.66680"W	3,305	3,316	3,338	3,349	3,370	3,359		
9	39°58'07.43880"N 80°43'00.60240"W	2,943	2,928	2,899	2,885	2,894	2,908		
10	39°58'15.08160"N 80°43'50.22120"W	5,238	5,232	5,219	5,212	5,240	5,246		

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

SURFACE HOLE LOCATION (SHL)  
**UTM 17-NAD83(M)**  
 N:4423444.34  
 E:524148.65  
 NAD83, WV NORTH  
 N:534384.329  
 E:1627299.459

BHL is located on topo map 14,933 feet south of Latitude: 40° 02' 30"  
 SHL is located on topo map 14,281 feet south of Latitude: 40° 00' 00"

**SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL**

**SEE PAGE 3 FOR LESSORS**

APPROX. LANDING POINT  
**UTM 17-NAD83(M)**  
 N:4424045.22  
 E:524586.68  
 NAD83, WV NORTH  
 N:536332.095  
 E:1628769.811

BOTTOM HOLE LOCATION (BHL)  
**UTM 17-NAD83(M)**  
 N:4427868.34  
 E:523489.75  
 NAD83, WV NORTH  
 N:548938.000  
 E:1625380.000

	SURFACE OWNER	DIST-TM/PAR
1	IRENE HAZLETT - LIFE	13-12/49
2	CITY OF GLENDALE	13-12/44
3	TOWN OF GLEN DALE	13-12/45
4	FLORENCE IRENE HAZLETT - LIFE	13-12/46.1
5	MARK D. & KELLY J. OTTE	13-12/35
6	ALLISON & MICHAEL CARMAN	13-11/61
7	*RICHARD T. CLEGG	13-12/34
8	*KERRY G. & CINDY J. FOSTER	13-11/62
9	BOBBI S. LOGSDON	13-11/61.1
10	BOBBI S. LOGSDON	13-11/15.5
11	MARSHALL LAND LLC	13-11/9
12	JAMES E. HELMS - LIFE	13-11/14
13	DONALD & DANIEL FISHER ET AL	13-11/10
14	MINNIE L. JONES ET AL	13-6/55
15	*JOSEPH E. HENDERSON	13-6/54
16	PAUL FRED CHAVANAK ET UX	13-6/55.7
17	ROBERT A. & RANDI J. CHAVANAK	13-6/55.6
18	CHAS F. GILLINGHAM EST - LIFE	13-6/55.3
19	NANCY LEE LOY	13-6/55.9
20	ROGER DANIEL FOX ET UX	13-6/73.9
21	RONALD DAVID FOX, ET UX	13-6/73.10
22	FRANCES Y. & KIMBERLY F. CLAYTON	13-6/68
23	BRENT W. & JAMIE J. FOSTER	13-6/73.1
24	JACK S. WILLIAMS JR., ET UX	13-6/73.7
25	JACK WILLIAMS ET UX	13-6/74
26	ALBERT F. KAZEMKA	13-6/69.2
27	THOMAS & PEGGY J. MINOR	13-6/69
28	DAWN & RONALD J. COFFIELD	13-6/6
29	CITY OF BENWOOD	13-6/5
30	CONSOLIDATION COAL COMPANY	13-6/4

BHL is located on topo map 4,616 feet west of Longitude: 80° 42' 30"  
 SHL is located on topo map 2,501 feet west of Longitude: 80° 42' 30"

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



FILE #: HAZLETT M16H  
 DRAWING #: HAZLETT M16H  
 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: *George D. Six*  
 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: MAY 09, 2018  
 OPERATOR'S WELL #: HAZLETT M16H  
 API WELL #: 47 51 02111  
 STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1148.00'

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

SURFACE OWNER: IRENE HAZLETT-LIFE ACREAGE: 77.24±

OIL & GAS ROYALTY OWNER: DONALD BOYD YOHO, KELLY ANN MEASE, ZANE EDWARD NEILSEN, NANCY A. BAKER, LARRY JOHN MCCrackEN, PATRICIA ANN MCCrackEN, ROBERT JAY MCCrackEN, FLORENCE HAZLETT ET AL ACREAGE: 708.954±

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: 6,200'± TMD: 20,738.99'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY  
 Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600  
 City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

**SURFACE HOLE LOCATION (SHL)**

**UTM 17-NAD83(M)**  
 N:4423444.34  
 E:524148.65

**NAD83, WV NORTH**  
 N:534384.329  
 E:1627299.459

**APPROX. LANDING POINT**

**UTM 17-NAD83(M)**  
 N:4424045.22  
 E:524586.68

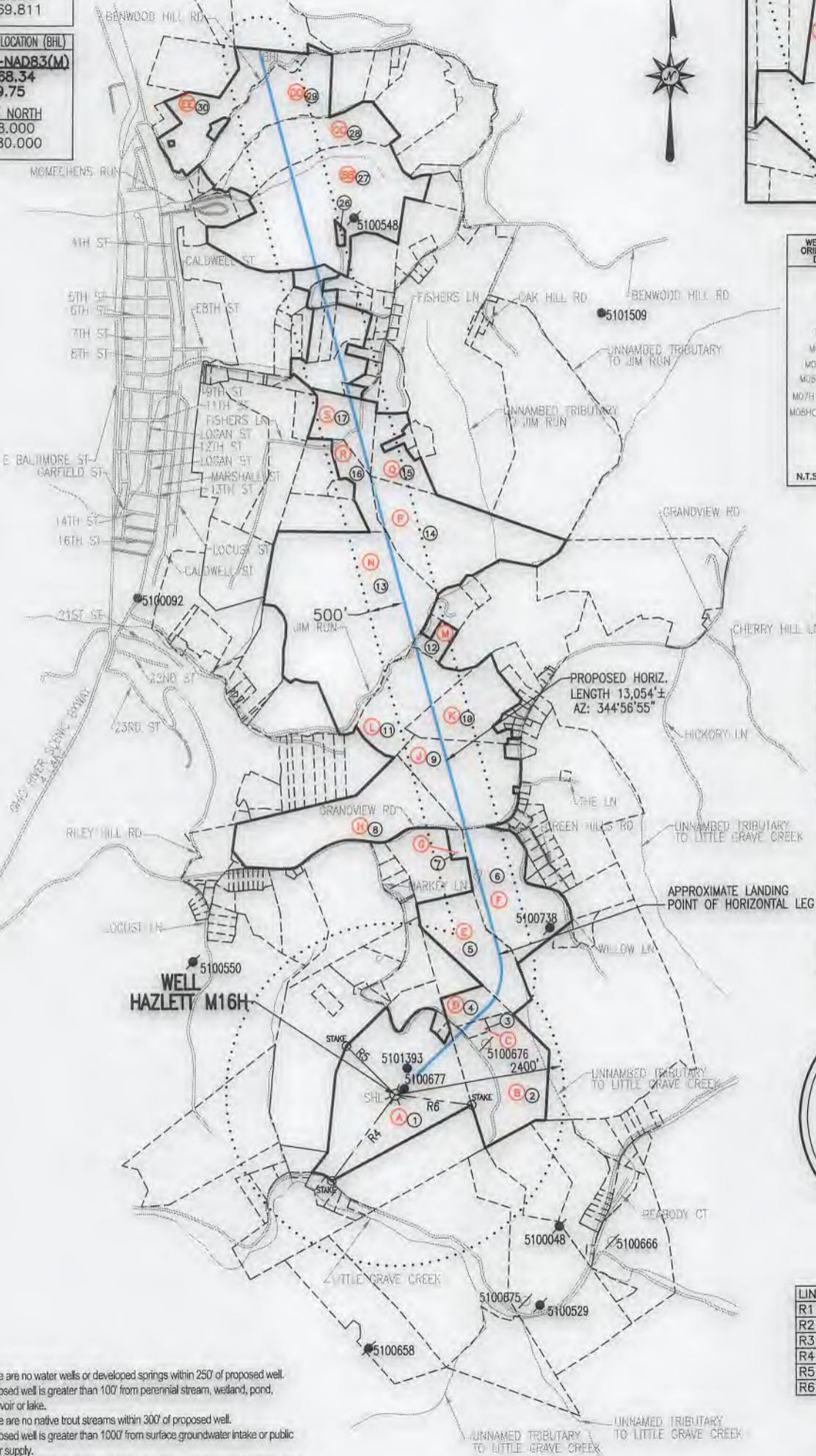
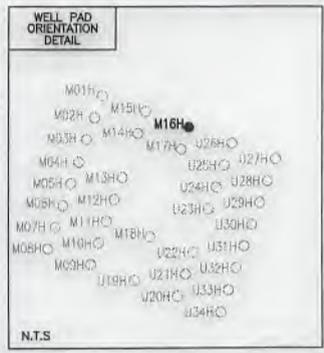
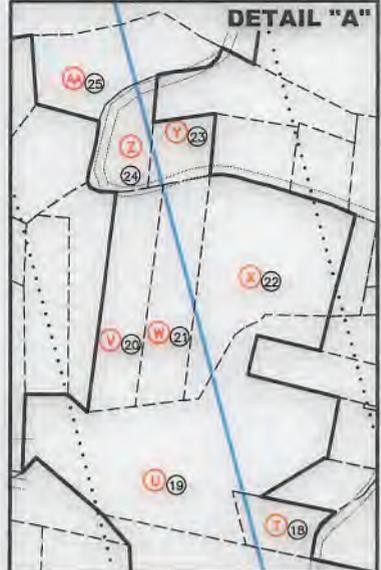
**NAD83, WV NORTH**  
 N:536332.095  
 E:1628769.811

**BOTTOM HOLE LOCATION (BHL)**

**UTM 17-NAD83(M)**  
 N:4427868.34  
 E:523489.75

**NAD83, WV NORTH**  
 N:548938.000  
 E:1625380.000

# HAZLETT M16H PAGE 2 OF 3

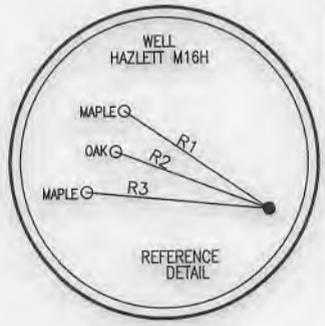


**LEGEND**

- 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

**GAS WELLS**

- EXISTING WELLS
- PLUGGED WELLS
- ABANDON WELLS

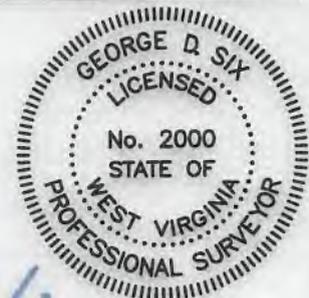


LINE	BEARING	DISTANCE
R1	N 55°51'16" W	209.40'
R2	N 69°22'33" W	196.53'
R3	N 84°31'54" W	219.95'
R4	N 36°57'39" E	1507.63'
R5	S 45°05'54" E	971.47'
R6	S 82°02'45" E	1095.96'

- 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.

**MAY 09, 2018**

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



*George D. Six*

# HAZLETT

## M16H

### PAGE 3 OF 3

	LESSOR	DIST-TM/PAR
A	DONALD BOYD YOHO	13-12/49
	KELLY ANN MEASE	
	ZANE EDWARD NEILSEN	
	NANCY A. BAKER	
	LARRY JOHN MCCrackEN	
	PATRICIA ANN MCCrackEN	
	ROBERT JAY MCCrackEN	
	FLORENCE HAZLETT ET AL	
B	JOHN CARL HAZLETT	13-12/44
	FLORENCE HAZLETT	
C	JOHN CARL HAZLETT	13-12/45
	FLORENCE HAZLETT	
D	FLORENCE HAZLETT ET AL	13-12/46.1
	MARGARET L. MCCULLLEY	
E	DORIS E. DEFIBAUGH	13-12/35
	MICHAEL OTTE ET AL	
	FLANICK BERARDI SR., ET AL	
	CLARA M. ROBINSON	
F	ADAM S. ANGEL III	13-11/61
	ALLISON CARMAN	
	AARON ANGEL	
G	*GARY K. GAMBLE ET UX	13-12/34
H	*JOHN R. YANEN	13-11/62
J	JIM PEGG	13-11/61.1
	DAN PEGG	
	RICHARD L. PEGG	
	JUDITH ANN PEGG	
	WAYNE PEGG	
	KAY MARLENE COATES	
	SHARON LOUISE BEARCE	
	WILLIAM J. PEGG	
	BOBBI S. LOGSDON	
K	JOHN E. BROSH	13-11/15.5
	ROBERT BROSH	
	ELIZABETH J. MOORE	
	SISTER LINDA KATHERINE SEVCIK	
	LAWRENCE E. SEVCIK	
	ELAINE ROSE MANNING	
	DIANE MARIE SEVCIK	
	BRENDA SUE MUEGGENBORG	
CHRISTINE M. COOKE		
L	JANE FAHRION	13-11/9
	DEBORAH LEE MCMECHEN HOCK	
	SUSAN REID SPENCER	
	MARTHA JEAN WELDON LIBERTO	
	CAROLYN ANN WELDON SHOWER	
	JOHN MERRITT WELDON	
	RICHARD LINKOUS	
	HOPE H. MCMECHEN	
	LYNNE FRANKLIN	
	KATHY CALDWELL	
MAXINE OCASEK		
M	JAMES E. HELMS	13-11/14
N	HOMER J. HALL JR.	13-11/10
	CHARLENE HALL	
	CHERYL HOLMES	
	ROBERT SHELLER	
	RUTH ETHEL SHELLER	
	DONALD FISHER	
	EARL M. FISHER	
	BARBARA K. STEPHENSON	
	MARGARET L. BARNARD	
	MICHAEL FISHER	
	BETTY L. HUFFMAN	
	JUDITH MARIE SAYRE	
	KATHY LOUISE WHITACRE	
	PATRICIA JEAN KINNISON	
	DENISE LYNN GEREVICS	
	ANTHONY R. COHAN	
	GEORGE FISHER	
	DANIEL FISHER	
	STEVEN FISHER	
CLAIRE W. NEWLIN		
MERLE F. FISHER		
CHARLES FISHER		
WILLIAM BARON WHEELER		
CONNIE FISHER		
P	MINNIE L. JONES	13-6/55
	ROBERT J. CHAVANAK	
	P. FRED CHAVANAK	

	LESSOR	DIST-TM/PAR
Q	JOSEPH E. HENDERSON	13-6/54
R	PAUL FRED CHAVANK ET UX	13-6/55.7
S	ROBERT CHAVANAK ET AL	13-6/55.6
T	CHARLES F. GILLINGHAM	13-6/55.3
U	STEPHEN G. LOY ET AL	13-6/55.9
V	ROGER DANIEL FOS ET UX	13-6/73.9
W	RONALD DAVID FOX ET UX	13-6/73.10
X	FRANCES Y. RIGGLE ET UX	13-6/68
Y	BRENT W. FOSTER ET UX	13-6/73.1
Z	JACK S. WILLIAMS JR., ET UX	13-6/73.7
AA	WILLIAM FREDERICK FOX	13-6/74
	RONALD DAVID FOX	
	ROGER DANIEL FOX	
	CHARLES MARTIN FOX	
	CLARENCE RICHARD FOX	
	JIMMIE WILLIAMS ET UX	
	PEGGY MINOR ET VIR	
	MARY ANN HOSKINS	
	MARY JO ROCKEY	
	JOHN MICHAEL FOX	
	JOAN L. WILLIAMS	
	GEORGE WILLIAMS	
	DONNA K. SHAW	
	JACK S. WILLIAMS ET UX	
	PAULA CLATTERBUCK	
	DAVID C. CLATTERBUCK	
	JAMES R. FOX	
	ROBERT R. FOX	
	CHARLES FOX	
	CARLA C. FOX	
	JAMES FOX	
	JADE SINCLAIR WORRELS	
MARCUS JAMES WORRELS		
BB	WILLIAM FREDERICK FOX	13-6/69
	RONALD DAVID FOX	
	ROGER DANIEL FOX	
	CHARLES MARTIN FOX	
	CLARENCE RICHARD FOX	
	JIMMIE WILLIAMS ET UX	
	MARY ANN HOSKINS	
	MARY JO ROCKEY	
	JOHN MICHAEL FOX	
	JOAN L. WILLIAMS	
	GEORGE WILLIAMS	
	DONNA K. SHAW	
	JACK S. WILLIAMS ET UX	
	PAULA CLATTERBUCK	
	DAVID C. CLATTERBUCK	
	JAMES R. FOX	
	ROBERT R. FOX	
	CHARLES D. MINOR ET UX	
	CHARLES FOX	
CARLA C. FOX		
JAMES FOX		
JADE SINCLAIR WORRELS		
MARCUS JAMES WORRELS		
CC	RONALD J. COFFIELD ET UX	13-6/6
DD	CITY OF BENWOOD	13-6/5
EE	DANIEL R. WILLIAMS ET UX	13-6/4

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4423444.34
E:524148.65
NAD83, WV NORTH
N:534384.329
E:1627299.459

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4424045.22
E:524586.68
NAD83, WV NORTH
N:536332.095
E:1628769.811

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4427868.34
E:523489.75
NAD83, WV NORTH
N:548938.000
E:1625380.000

MAY 09, 2018

WW-6A1  
(5/13)

Operator's Well No. Hazlett M16H

**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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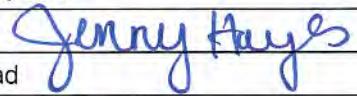
See Attached

**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.

Well Operator: Chevron Appalachia, LLC  
 By: Jenny Hayes   
 Its: Permitting Team Lead

Hazlett Unit #16H - MARC - BATCH 2 MLS - FINAL

QLS NO	% Owned	Plet ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
934442	6.25%	1	13-0012-0049-0000-0000	Yoho, Donald Boyd	Chevron U.S.A. Inc.	0.18	854/74	-	-	-	-
934443	6.25%	1	13-0012-0049-0000-0000	Mease, Kelly Ann	Chevron U.S.A. Inc.	0.18	859/86	-	-	-	-
934444	12.50%	1	13-0012-0049-0000-0000	Neilson, Zane Edward	Chevron U.S.A. Inc.	0.18	848/632	-	-	-	-
934837	12.50%	1	13-0012-0049-0000-0000	Baker, Nancy A.	Chevron U.S.A. Inc.	0.18	911/615	-	-	-	-
934842	4.17%	1	13-0012-0049-0000-0000	McCracken, Larry John	Chevron U.S.A. Inc.	0.18	848/581	-	-	-	-
934843	4.17%	1	13-0012-0049-0000-0000	McCracken, Patricia Ann	Chevron U.S.A. Inc.	0.18	848/586	-	-	-	-
934846	4.17%	1	13-0012-0049-0000-0000	McCracken, Robert Jay	Chevron U.S.A. Inc.	0.18	848/591	-	-	-	-
951834	50.00%	1	13-0012-0049-0000-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	949/19	-	-	-	-
									24/466	25/105	
				Hazlett, John Carl	TriEnergy Holdings, LLC	0.16	705/270	24/180 TriEnergy Holdings, LLC to NPAR, LLC	AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/332 NPAR, LLC to Chevron U.S.A. Inc.
867363	50.00%	2	13-0012-0044-0000-0000								
951832	50.00%	2	13-0012-0044-0000-0000	Hazlett, Florence	Chevron U.S.A. Inc.	0.1875	949/26	-	-	-	-
									24/466	25/105	
				Hazlett, John Carl	TriEnergy Holdings, LLC	0.16	705/270	24/180 TriEnergy Holdings, LLC to NPAR, LLC	AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/332 NPAR, LLC to Chevron U.S.A. Inc.
867363	50.00%	3	13-0012-0045-0000-0000								
951832	50.00%	3	13-0012-0045-0000-0000	Hazlett, Florence	Chevron U.S.A. Inc.	0.1875	949/26	-	-	-	-
951836	100.00%	4	13-0012-0046-0001-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	948/149	-	-	-	-
									23/479	30/427	30/461
920899	8.33%	5	13-0012-0035-0000-0000	McCulley, Margaret L.	Chesapeake Appalachia L.L.C.	0.14	695/76	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	
									23/479	30/427	30/461
920900	8.33%	5	13-0012-0035-0000-0000	Defbaugh, Doris E.	Chesapeake Appalachia L.L.C.	0.14	695/78	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	
936683	50.00%	5	13-0012-0035-0000-0000	Otto, Michael et al	Chevron U.S.A. Inc.	0.18	865/168	-	-	-	-
936889	25.00%	5	13-0012-0035-0000-0000	Berardi, Flanick Sr. et al	Chevron U.S.A. Inc.	0.18	859/11	-	-	-	-
937851	8.33%	5	13-0012-0035-0000-0000	Robinson, Clara M.	Chevron U.S.A. Inc.	0.18	865/88	-	-	-	-
936738	33.33%	6	13-0011-0061-0000-0000	Angel, Adam S. III	Chevron U.S.A. Inc.	0.18	866/148	-	-	-	-
938739	33.33%	6	13-0011-0061-0000-0000	Carman, Allison	Chevron U.S.A. Inc.	0.18	866/151	-	-	-	-
939084	33.33%	6	13-0011-0061-0000-0000	Angel, Aaron	Chevron U.S.A. Inc.	0.18	868/69	-	-	-	-
									24/204	30/427	30/461
921195	100.00%	7	13-0012-0034-0000-0000	Gamble, Gary K et ux	Chesapeake Appalachia L.L.C.	0.125 Oil	717/530	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	
935093	100.00%	8	13-0011-0062-0000-0000	Yanen, John R.	Chevron U.S.A. Inc.	0.18 Gas	852/372	-	-	-	-
									24/204	30/427	30/461
				Pegg, Jim	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	714/379	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	
921184	1.25%	9	13-0011-0061-0001-0000								
									24/204	30/427	30/461
				Pegg, Dan	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	717/330	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	
921185	1.25%	9	13-0011-0061-0001-0000								
									24/204	30/427	30/461
				Pegg, Richard L.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	714/383	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	
921186	1.25%	9	13-0011-0061-0001-0000								

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Office of Oil and Gas  
NOV 27 2018

WV Department of  
Environmental Protection

4705102111

Hazlett Unit #16H - MARC - BATCH 2 MLS - FINAL

QLS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
921187	1.25%	9	13-0011-0061-0001-0000	Pegg, Judith Ann	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	717/334	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921188	1.25%	9	13-0011-0061-0001-0000	Pegg, Wayne	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	716/547	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921189	2.08%	9	13-0011-0061-0001-0000	Coates, Kay Marlene	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	718/166	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921190	2.08%	9	13-0011-0061-0001-0000	Bearce, Sharon Louise	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	717/338	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921191	2.08%	9	13-0011-0061-0001-0000	Pegg, William J.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	718/207	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
950319	87.50%	9	13-0011-0061-0001-0000	Logsdon, Bobbi S.	Chevron U.S.A. Inc.	0.17	912/478	-	-	-	-
921126	12.50%	10	13-0011-0015-0005-0000	Brosh, John E.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.17 Gas	707/503	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921127	12.50%	10	13-0011-0015-0005-0000	Brosh, Robert	Chesapeake Appalachia L.L.C.	0.125 Oil 0.17 Gas	707/507	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921128	62.50%	10	13-0011-0015-0005-0000	Moore, Elizabeth J.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.17 Gas	718/466	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921129	2.08%	10	13-0011-0015-0005-0000	Sevcik, Sister Undo Katherine	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/91	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921130	2.08%	10	13-0011-0015-0005-0000	Sevcik, Lawrence E.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/97	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921131	2.08%	10	13-0011-0015-0005-0000	Manning, Elaine Rose	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/103	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921132	2.06%	10	13-0011-0015-0005-0000	Sevcik, Olane Marie	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/109	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921133	2.08%	10	13-0011-0015-0005-0000	Mueggenberg, Brenda Sue	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	729/485	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-

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NOV 27 2018  
WV Department of  
Environmental Protection

4705102111

Hazlett Unit #16H - MARC - BATCH 2 MLS - FINAL

QIS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
921134	2.08%	10	13-0011-0015-0005-0000	Cooke, Christina M.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	729/491	27/386 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921344	5.21%	11	13-0011-0009-0000-0000	Fahion, Jane	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/515	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921345	3.47%	11	13-0011-0009-0000-0000	Hock, Deborah Lee Mcmechen	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/520	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921346	3.47%	11	13-0011-0009-0000-0000	Spencer, Susan Reid	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/525	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
949654	12.50%	11	13-0011-0009-0000-0000	Liberto, Martha Jean Weldon	Chevron U.S.A. Inc.	0.16	911/594	-	-	-	-
949657	12.50%	11	13-0011-0009-0000-0000	Shower, Carolyn Ann Weldon	Chevron U.S.A. Inc.	0.16	911/591	-	-	-	-
949663	12.50%	11	13-0011-0009-0000-0000	Weldon, John Merritt	Chevron U.S.A. Inc.	0.16	911/497	-	-	-	-
950326	5.21%	11	13-0011-0009-0000-0000	Unkous, Richard	Chevron U.S.A. Inc.	0.16	912/427	-	-	-	-
951598	20.83%	11	13-0011-0009-0000-0000	McMechen, Hope H.	Chevron U.S.A. Inc.	0.15	921/613	-	-	-	-
952168	10.42%	11	13-0011-0009-0000-0000	Franklin, Lynne	Chevron U.S.A. Inc.	0.16	928/174	-	-	-	-
952636	3.47%	11	13-0011-0009-0000-0000	Caldwell, Kathy	Chevron U.S.A. Inc.	0.15	932/265	-	-	-	-
953694	10.42%	11	13-0011-0009-0000-0000	Ocasak, Maxine	Chevron U.S.A. Inc.	0.16	932/241	-	-	-	-
921101	100.00%	12	13-0011-0014-0000-0000	Helms, James E.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	707/449	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921433	4.17%	13	13-0011-0010-0000-0000	Hall, Homer J. Jr.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/410	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921434	4.17%	13	13-0011-0010-0000-0000	Hall, Charlene	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/421	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921435	0.78%	13	13-0011-0010-0000-0000	Holmes, Cheryl	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/429	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921436	0.78%	13	13-0011-0010-0000-0000	Sheller, Robert	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/437	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921437	1.56%	13	13-0011-0010-0000-0000	Sheller, Ruth Ethel	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/445	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921438	15.63%	13	13-0011-0010-0000-0000	Fisher, Donald	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/453	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-

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QIS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
921439	1.56%	13	13-0011-0010-0000-0000	Fisher, Earl M,	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/461	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921440	4.17%	13	13-0011-0010-0000-0000	Stephenson, Barbara K.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/469	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921441	6.25%	13	13-0011-0010-0000-0000	Bernard, Margaret L.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/477	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921442	0.39%	13	13-0011-0010-0000-0000	Fisher, Michael	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/572	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921443	6.25%	13	13-0011-0010-0000-0000	Huffman, Betty L.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/580	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921444	1.56%	13	13-0011-0010-0000-0000	Sayre, Judith Marie	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/588	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921445	1.56%	13	13-0011-0010-0000-0000	Whitacre, Kathy Louise	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/596	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921446	1.56%	13	13-0011-0010-0000-0000	Kinnison, Patricia Jean	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/604	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921447	1.56%	13	13-0011-0010-0000-0000	Genevics, Denise Lynn	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	744/612	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921448	6.25%	13	13-0011-0010-0000-0000	Cohan, Anthony R.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	745/604	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921449	6.25%	13	13-0011-0010-0000-0000	Fisher, George	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	745/613	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921450	15.63%	13	13-0011-0010-0000-0000	Fisher, Daniel	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	745/621	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.
921451	0.39%	13	13-0011-0010-0000-0000	Fisher, Steven	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	746/508	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	.

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Hazlett Unit #16H - MARC - BATCH 2 MLS - FINAL

QIS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
921452	6.25%	13	13-0011-0010-0000-0000	Newlin, Claire W.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	746/516	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921453	6.25%	13	13-0011-0010-0000-0000	Fisher, Merle F.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	747/332	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921454	0.39%	13	13-0011-0010-0000-0000	Fisher, Charles	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	747/443	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921455	6.25%	13	13-0011-0010-0000-0000	Wheeler, William Baron	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	749/470	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921456	0.39%	13	13-0011-0010-0000-0000	Fisher, Connie	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	749/478	27/50 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
946823	33.33%	14	13-0006-0055-0000-0000	Jones, Minnie L.	TH Exploration, L.L.C.	0.18	882/517	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
946844	33.33%	14	13-0006-0055-0000-0000	Chavanak, J. Robert	TH Exploration, L.L.C.	0.18	851/245	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
946868	33.33%	14	13-0006-0055-0000-0000	Chavanak, P. Fred	TH Exploration, L.L.C.	0.18	851/248	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
946802	100.00%	15	13-0006-0054-0000-0000	Henderson, Joseph E.	TH Exploration, L.L.C.	0.18	851/255	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
950318	100.00%	16	13-0006-0055-0007-0000	Chavanak, Paul Fred et ux	Chevron U.S.A. Inc.	0.17	912/430	-	-	-	-
946880	100.00%	17	13-0006-0055-0006-0000	Chavanak, Robert et al	TH Exploration, L.L.C.	0.18	851/51	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
921208	100.00%	18	13-0006-0055-0003-0000	Gillingham, Charles F.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	718/492	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
950322	100.00%	19	13-0006-0055-0009-0000	Loy, Stephen G. et al	Chevron U.S.A. Inc.	0.17	912/424	-	-	-	-
921194	100.00%	20	13-0006-0073-0009-0000	Fox, Roger Daniel et ux	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	717/342	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
921209	100.00%	21	13-0006-0073-0010-0000	Fox, Ronald David et ux	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	718/227	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-
934577	100.00%	22	13-0006-0068-0000-0000	Riggle, Frances Y. et ux	Chevron U.S.A. Inc.	0.18	847/98	-	-	-	-
934728	100.00%	23	13-0006-0073-0001-0000	Foster, Brent W. et ux	Chevron U.S.A. Inc.	0.18	847/476	-	-	-	-
934821	100.00%	24	13-0006-0073-0007-0000	Williams, Jack S. Jr. et ux	Chevron U.S.A. Inc.	0.18	848/489	-	-	-	-
936512	3.13%	25	13-0006-0074-0000-0000	Fox, William Frederick	Chevron U.S.A. Inc.	0.18	863/226	-	-	-	-
936513	3.13%	25	13-0006-0074-0000-0000	Fox, Ronald David	Chevron U.S.A. Inc.	0.18	863/247	-	-	-	-
936514	3.13%	25	13-0006-0074-0000-0000	Fox, Roger Daniel	Chevron U.S.A. Inc.	0.18	863/233	-	-	-	-
936516	3.13%	25	13-0006-0074-0000-0000	Fox, Charles Martin	Chevron U.S.A. Inc.	0.18	863/240	-	-	-	-
936517	3.13%	25	13-0006-0074-0000-0000	Fox, Clarence Richard	Chevron U.S.A. Inc.	0.18	863/254	-	-	-	-

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Hazlett Unit #16H - MARC - BATCH 2 MLS - FINAL

QLS NO	% Owned	Plot ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
936910	6.25%	25	13-0006-0074-0000-0000	Williams, Jimmie Et Ux	Chevron U.S.A. Inc.	0.18	861/296	-	-	-	-
936911	3.13%	25	13-0006-0074-0000-0000	Minor, Peggy Et Vir	Chevron U.S.A. Inc.	0.18	861/282	-	-	-	-
936912	12.50%	25	13-0006-0074-0000-0000	Hoskins, Mary Ann	Chevron U.S.A. Inc.	0.18	861/303	-	-	-	-
936913	6.25%	25	13-0006-0074-0000-0000	Rockey, Mary Jo	Chevron U.S.A. Inc.	0.18	916/29	-	-	-	-
936914	3.13%	25	13-0006-0074-0000-0000	Fox, John Michael	Chevron U.S.A. Inc.	0.18	867/69	-	-	-	-
936916	6.25%	25	13-0006-0074-0000-0000	Williams, Joan L.	Chevron U.S.A. Inc.	0.18	861/289	-	-	-	-
936917	12.50%	25	13-0006-0074-0000-0000	Williams, George	Chevron U.S.A. Inc.	0.18	861/1	-	-	-	-
936919	5.00%	25	13-0006-0074-0000-0000	Shaw, Donna K.	Chevron U.S.A. Inc.	0.18	860/591	-	-	-	-
936920	6.25%	25	13-0006-0074-0000-0000	Williams, Jack S. Et Ux	Chevron U.S.A. Inc.	0.18	861/310	-	-	-	-
937006	5.00%	25	13-0006-0074-0000-0000	Clatterback, Paula	Chevron U.S.A. Inc.	0.18	861/275	-	-	-	-
937297	3.13%	25	13-0006-0074-0000-0000	Clatterback, David C.	Chevron U.S.A. Inc.	0.18	863/152	-	-	-	-
940303	5.00%	25	13-0006-0074-0000-0000	Fox, James R.	Chevron U.S.A. Inc.	0.18	880/312	-	-	-	-
				Fox, Robert R.	TH Exploration, L.L.C.	0.18	841/163	36/168	TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-
946696	5.00%	25	13-0006-0074-0000-0000								
953122	1.25%	25	13-0006-0074-0000-0000	Fox, Charles	Chevron U.S.A. Inc.	0.15	934/91	-	-	-	-
953123	1.25%	25	13-0006-0074-0000-0000	Fox, Carla C.	Chevron U.S.A. Inc.	0.15	935/169	-	-	-	-
953124	1.25%	25	13-0006-0074-0000-0000	Fox, James	Chevron U.S.A. Inc.	0.15	934/456	-	-	-	-
953411	0.63%	25	13-0006-0074-0000-0000	Warrels, Jade Sinclair	Chevron U.S.A. Inc.	0.15	940/400	-	-	-	-
953412	0.63%	25	13-0006-0074-0000-0000	Warrels, Marcus James	Chevron U.S.A. Inc.	0.15	940/409	-	-	-	-
954143	100.00%	26	13-0006-0069-0002-0000	Rose, Sheena	Chevron U.S.A. Inc.	0.18	954/39	-	-	-	-
936512	3.13%	27	13-0006-0069-0000-0000	Fox, William Frederick	Chevron U.S.A. Inc.	0.18	863/226	-	-	-	-
936513	3.13%	27	13-0006-0069-0000-0000	Fox, Ronald David	Chevron U.S.A. Inc.	0.18	863/247	-	-	-	-
936514	3.13%	27	13-0006-0069-0000-0000	Fox, Roger Daniel	Chevron U.S.A. Inc.	0.18	863/233	-	-	-	-
936516	3.13%	27	13-0006-0069-0000-0000	Fox, Charles Martin	Chevron U.S.A. Inc.	0.18	863/240	-	-	-	-
936517	3.13%	27	13-0006-0069-0000-0000	Fox, Clarence Richard	Chevron U.S.A. Inc.	0.18	863/254	-	-	-	-
936910	6.25%	27	13-0006-0069-0000-0000	Williams, Jimmie et ux	Chevron U.S.A. Inc.	0.18	861/296	-	-	-	-
936912	12.50%	27	13-0006-0069-0000-0000	Hoskins, Mary Ann	Chevron U.S.A. Inc.	0.18	861/303	-	-	-	-
936913	6.25%	27	13-0006-0069-0000-0000	Rockey, Mary Jo	Chevron U.S.A. Inc.	0.18	916/29	-	-	-	-
936914	3.13%	27	13-0006-0069-0000-0000	Fox, John Michael	Chevron U.S.A. Inc.	0.18	867/69	-	-	-	-
936916	6.25%	27	13-0006-0069-0000-0000	Williams, Joan L.	Chevron U.S.A. Inc.	0.18	861/289	-	-	-	-
936917	12.50%	27	13-0006-0069-0000-0000	Williams, George	Chevron U.S.A. Inc.	0.18	861/1	-	-	-	-
936919	5.00%	27	13-0006-0069-0000-0000	Shaw, Donna K.	Chevron U.S.A. Inc.	0.18	860/591	-	-	-	-
936920	6.25%	27	13-0006-0069-0000-0000	Williams, Jack S. et ux	Chevron U.S.A. Inc.	0.18	861/310	-	-	-	-
937006	5.00%	27	13-0006-0069-0000-0000	Clatterback, Paula	Chevron U.S.A. Inc.	0.18	861/275	-	-	-	-
937297	3.13%	27	13-0006-0069-0000-0000	Clatterback, David C.	Chevron U.S.A. Inc.	0.18	863/152	-	-	-	-
940303	5.00%	27	13-0006-0069-0000-0000	Fox, James R.	Chevron U.S.A. Inc.	0.18	880/312	-	-	-	-
				Fox, Robert R.	TH Exploration, L.L.C.	0.18	841/163	36/168	TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-
946696	5.00%	27	13-0006-0069-0000-0000								
951139	3.13%	27	13-0006-0069-0000-0000	Minor, Charles D. et ux	Chevron U.S.A. Inc.	0.16	917/51	-	-	-	-
953122	1.25%	27	13-0006-0069-0000-0000	Fox, Charles	Chevron U.S.A. Inc.	0.15	934/91	-	-	-	-
953123	1.25%	27	13-0006-0069-0000-0000	Fox, Carla C.	Chevron U.S.A. Inc.	0.15	935/169	-	-	-	-
953124	1.25%	27	13-0006-0069-0000-0000	Fox, James	Chevron U.S.A. Inc.	0.15	934/456	-	-	-	-
953411	0.63%	27	13-0006-0069-0000-0000	Warrels, Jade Sinclair	Chevron U.S.A. Inc.	0.15	940/400	-	-	-	-
953412	0.63%	27	13-0006-0069-0000-0000	Warrels, Marcus James	Chevron U.S.A. Inc.	0.15	940/409	-	-	-	-
				Coffield, Ronald J. et ux	TH Exploration, L.L.C.	0.18	844/334	36/168	TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-
946689	100.00%	29	13-0006-0005-0000-0000	City of Benwood	TH Exploration, L.L.C.	0.18	859/475	36/168	TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-
				Williams, Daniel R. et ux	TH Exploration, L.L.C.	0.18	767/492	40/152	TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-
TH	100.00%	30	13-0006-0004-0000-0000								

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4705 + 02111

**Mitchell G. Limbert**  
Land Representative, AMBU

June 4, 2018

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

RE: Hazlett 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 12H, 13H, 14H, 15H, 16H, 17H

To Whom It May Concern,

This letter is to confirm that Chevron U.S.A., Inc. has the rights to access minerals under any road along the above referenced laterals. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "M G Limbert".

Mitchell G. Limbert  
Land Representative

4705102111

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

Date of Notice Certification: 06/07/2018

API No. 47- \_\_\_\_\_  
Operator's Well No. M16H  
Well Pad Name: Hazlett

**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>524148.660</u>
County: <u>Marshall</u>		Northing: <u>4423444.337</u>
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Lane</u>	
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hazlett</u>	
Watershed: <u>Short Creek - Ohio River</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.

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:  *PLEASE CHECK ALL THAT APPLY  <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED  <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  <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION  <input checked="" type="checkbox"/> 5. PUBLIC NOTICE  <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<b>OOG OFFICE USE ONLY</b>  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED  <input checked="" type="checkbox"/> RECEIVED  <input checked="" type="checkbox"/> RECEIVED  <input checked="" type="checkbox"/> RECEIVED
RECEIVED Office of Oil and Gas  AUG 7 2018  WV Department of Environmental Protection		

**Required Attachments:**

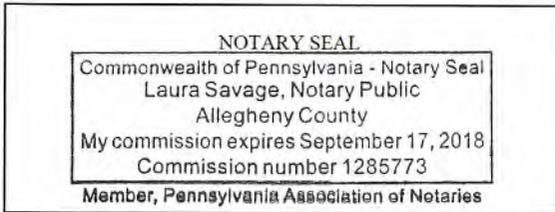
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed 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.

**Certification of Notice is hereby given:**

4705 \* 02111

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:	<u>Chevron Appalachia, LLC</u>	Address:	<u>700 Cherrington Parkway</u>
By:	<u>Jenny Hayes</u>		<u>Coraopolis, PA 15108</u>
Its:	<u>Permitting Team Lead</u>	Facsimile:	<u>412-865-2403</u>
Telephone:	<u>412-865-1533</u>	Email:	<u>JZYK@chevron.com</u>



Jenny Hayes COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF ALLEGHENY  
 Subscribed and sworn before me this 7<sup>th</sup> day of June 2018.  
Laura Savage Notary Public  
 My Commission Expires September 17, 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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**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:** 6/7/18 **Date Permit Application Filed:** 8/6/18  
**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: Florence Irene Hazlett (Life Estate Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 26038  
Name: Michael C. Hazlett (Remainder Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 26038

COAL OWNER OR LESSEE  
Name: Consol Mining Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attached  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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**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 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**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 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. (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 as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. 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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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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.**

**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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WW-6A  
(8-13)

API NO. 47- 47-05 \* 02111  
OPERATOR WELL NO. M16H  
Well Pad Name: Hazlett

**Notice is hereby given by:**

Well Operator: Chevron Appalachia, LLC  
Telephone: 412-865-1533  
Email: jzyk@chevron.com

Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Facsimile: 412-865-2403

**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](mailto:depprivacyofficer@wv.gov).

*Jerry Hays*

Commonwealth of Pennsylvania - Notary Seal  
Laura Savage, Notary Public  
Allegheny County  
My commission expires September 17, 2018  
Commission number 1285773  
Member, Pennsylvania Association of Notaries

*Commonwealth of Pennsylvania  
County of Allegheny*

Subscribed and sworn before me this 7th day of June, 2018.

Laura Savage Notary Public

My Commission Expires September 17, 2018

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Attachment to WW-6A

API No. 47- \_\_\_\_\_ - \_\_\_\_\_

OPERATOR WELL NO. M16H

Well Pad Name: Hazlett

- SURFACE OWNER**  
Name: Loretta Kay Wallace (Remainder Interest)  
Address: 1485 Missy Court  
Hamilton, OH 45013
- COAL OWNER OR LESSEE**  
Name: Consol Mining Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317
- COAL OPERATOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Thomas D & Janet E. Vickers  
Address: 1526 Little Grave Creek Drive  
Glen Dale, WV 26038
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:

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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:** 06/07/2018 **Date Permit Application Filed:** 8/6/18

**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: Florence Irene Hazlett (Life Estate Interest)  
Address: 1078 Markey Hill Lane  
Glen Dale, WV 26038

Name: Michael C. Hazlett (Remainder Interest)  
Address: 1078 Markey Hill Lane  
Glen Dale, WV 26038

**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>524148.660</u>
County:	<u>Marshall</u>		Northing:	<u>4423444.337</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Chevron Appalachia, LLC  
Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Telephone: 412-865-2504  
Email: slaird@chevron.com  
Facsimile: 412-865-2403

Authorized Representative: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Email: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

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Office of Oil and Gas  
AUG 7 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection

4705 \* 02111

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:** 06/07/2018 **Date Permit Application Filed:** 8/10/18

**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: Loretta Kay Wallace (Remainder Interest)  
Address: 1485 Missy Court  
Hamilton, OH 45013

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>524148.660</u>
County:	<u>Marshall</u>	Northing:	<u>4423444.337</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>
Watershed:	<u>Short Creek - Ohio River</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Chevron Appalachia, LLC  
Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Telephone: 412-865-2504  
Email: slaird@chevron.com  
Facsimile: 412-865-2403

Authorized Representative: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Email: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

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AUG 7 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection

**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:** 06/07/2018      **Date Permit Application Filed:** 8/6/18

**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:** Florence Irene Hazlett (Life Estate Interest)  
**Address:** 648 Markey Hill Lane  
Glen Dale, WV 26038

**Name:** Michael C. Hazlett (Remainder Interest)  
**Address:** 648 Markey Hill Lane  
Glen Dale, WV 26038

**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:

<b>State:</b> <u>West Virginia</u>	<b>UTM NAD 83 Easting:</b> <u>524148.660</u>
<b>County:</b> <u>Marshall</u>	<b>Northing:</b> <u>4423444.337</u>
<b>District:</b> <u>Union</u>	<b>Public Road Access:</b> <u>CR 10 Markey Road</u>
<b>Quadrangle:</b> <u>Moundsville, WV 7.5'</u>	<b>Generally used farm name:</b> <u>Hazlett</u>
<b>Watershed:</b> <u>Short Creek - Ohio River</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Operator:** Chevron Appalachia, LLC  
**Telephone:** 412-865-2504  
**Email:** slaird@chevron.com

**Address:** 700 Cherrington Parkway  
Coraopolis, PA 15108  
**Facsimile:** 412-865-2403

**RECEIVED**  
**Office of Oil and Gas**  
**AUG 7 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 its 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](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection

**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:** 08/07/2018      **Date Permit Application Filed:** 8/6/18

**4705 · 02111**

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

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <b>CERTIFIED MAIL</b><br>RETURN RECEIPT REQUESTED | <input type="checkbox"/> <b>HAND DELIVERY</b> |
|---|---|

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: <u>Loretta Kay Wallace (Remainder Interest)</u>	Name: _____
Address: <u>1485 Missy Court</u> <u>Hamilton, OH 45013</u>	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>524148.660</u>	
County: <u>Marshall</u>		Northing: <u>4423444.337</u>	
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Road</u>		
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hazlett</u>		
Watershed: <u>Short Creek - Ohio River</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Chevron Appalachia, LLC

Telephone: 412-865-2504

Email: slaird@chevron.com

Address: 700 Cherrington Parkway  
Coraopolis, PA 15108

Facsimile: 412-865-2403

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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, \_\_\_\_\_, 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>524148.660</u>
County:	<u>Marshall</u>		Northing:	<u>4423444.337</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek/Ohio River</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 checked="" 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 type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: <u>Erene Hazlett</u></p> <p>Print Name: <u>Erene Hazlett</u></p> <p>Date: <u>7-11-18</u></p> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
	<p>RECEIVED Office of Oil and Gas</p> <p>AUG 7 2018</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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
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**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, Loretta K Wallace 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>524148.660</u>
County:	<u>Marshall</u>		Northing:	<u>4423444.337</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek/Ohio River</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 type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: <u>Loretta K Wallace</u></p> <p>Print Name: <u>Loretta K Wallace</u></p> <p>Date: <u>June 24, 2018</u></p> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
	<p style="text-align: right;">RECEIVED Office of Oil and Gas</p> <p style="text-align: right;">AUG 7 2018</p> <p style="text-align: right;">WV Department of Environmental Protection</p>

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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**

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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: West Virginia UTM NAD 83 Easting: 524148.660  
County: Marshall Northing: 4423444.337  
District: Union Public Road Access: \_\_\_\_\_  
Quadrangle: \_\_\_\_\_ 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.

\*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: CONSOL Energy  
By: Casey V. Saunders  
Its: Manager Coal/Gas Coordination

Signature: Casey V. Saunders  
Date: 02/23/2018

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AUG 7 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

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

June 13, 2018

Jill M. Newman  
 Deputy Commissioner

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

Subject: DOH Permit for the Hazlett Pad A Well Site, Marshall County  
 Hazlett A Unit 16H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2018-0433 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 10 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

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AUG 7 2018

WV Department of  
 Environmental Protection

4705102111

**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

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Office of Oil and Gas

AUG 7 2018

WV Department of  
Environmental Protection

# HAZLETT WELL PAD EROSION AND SEDIMENT CONTROL PLAN

MARKEY LANE (C.R.-10)

UNION DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

PREPARED FOR:

## CHEVRON APPALACHIA, LLC

700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108

APPROVED  
WVDEP OOG

11/29/2016

**CONSULTANTS**  
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
4400 TRANGLE LANE, SUITE 200  
EXPORT, PA 15632  
PHONE: 724-327-8200

CIVIL/SITE ENGINEER CONTACT: JOSHUA A. MADARCEE  
EMAIL ADDRESS: jmadarcee@cecinc.com

GEOTECHNICAL ENGINEER CONTACT: AARON W. LAWRENCE  
EMAIL ADDRESS: alawrence@cecinc.com

**SITE COORDINATES AND WATERSHED**

START OF ACCESS ROAD  
LATITUDE: 39.954795° N, LONGITUDE: 80.719223° W

END OF ACCESS ROAD  
LATITUDE: 39.962233° N, LONGITUDE: 80.717299° W

APPROXIMATE CENTER OF WELL PAD  
LATITUDE: 39.951091° N, LONGITUDE: 80.717092° W

APPROXIMATE CENTER OF WELL BACK  
LATITUDE: 39.959691° N, LONGITUDE: 80.717335° W

\*BASED ON MNC B3, WEST VIRGINIA NORTH ZONE

WATERSHED NAME: UPPER OHIO SOUTH  
RECEIVING STREAM: UNNAMED TRIBUTARY TO LITTLE GRAVE  
CREEK

**STREAM AND WETLAND PERMANENT IMPACTS  
(SUBJECT TO USACENATIONWIDE PERMIT 3)**

UNIT 1 TO LITTLE GRAVE CREEK (EPH) = 73 LF

UNIT 3 TO LITTLE GRAVE CREEK (EPH) = 170 LF

UNIT 4 TO LITTLE GRAVE CREEK (EPH) = 58 LF

WETLAND 1A (PEM) = 0.00E AC

WETLAND 1B (PEM) = 0.00E AC

WETLAND 2 (PEM) = 0.00E AC

WETLAND 3A (PEM) = 0.07E AC

**WETLANDS WITHIN 100 LF OF THE LIMIT OF  
DISTURBANCE (SUBJECT TO WETLAND WAIVER REQUEST)**

WETLAND 1A (PEM) = 0 FT FROM LOD

WETLAND 3A (PEM) = 0 LF FROM LOD

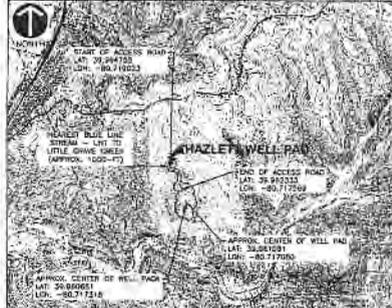
WETLAND 3B (PEM) = 3.3 LF FROM LOD

WETLAND 4 (PSS) = 1 LF FROM LOD

**REFERENCES**

1. STREAM AND WETLAND REMOTE BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2011.
2. UNDERGROUND UTILITIES LOCATED BY A GEOTECHNICAL SURVEY CONDUCTED BY THE GEOTECHNICAL SURVEY, INC. DATED 05/23/2011.
3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARSHED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2011 TO 05/25/2011. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS CORRELATED WITH WEST VIRGINIA LOCAL MAPS 2000.
4. UNDERGROUND UTILITIES FROM 000000 EARTH 2000, DATED 2016.
5. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

Wellpad No.	Facility	Easting	Northing	Latitude (North)	Longitude (West)
M014	54408.1077	1427784.2493	2494035.1	80.717456	80.717456
M018	134303.5261	1627317.5200	2494035.1	80.717477	80.717477
M039	134976.1302	1629232.4360	2494035.1	80.717464	80.717464
M046	134964.2845	1627232.7424	2494035.1	80.717474	80.717474
M059	134304.2741	1627232.6971	2494035.1	80.717474	80.717474
M068	134134.6557	1627317.5755	2494035.1	80.717457	80.717457
M204	134810.0578	1627314.4768	2494035.1	80.717454	80.717454
M209	134810.0589	1627317.3845	2494035.1	80.717452	80.717452
M210	134795.1401	1627232.8003	2494035.1	80.717461	80.717461
M218	134300.8485	1627316.9557	2494035.1	80.717463	80.717463
M219	134313.9708	1627316.5201	2494035.1	80.717446	80.717446
M220	134316.0453	1627316.8445	2494035.1	80.717428	80.717428
M224	13435.6193	1629235.3794	2494035.1	80.717417	80.717417
M231	134800.4105	1627232.4971	2494035.1	80.717475	80.717475
M239	144394.6181	1627232.2621	2494035.1	80.717458	80.717458
M240	144394.6181	1627232.7000	2494035.1	80.717457	80.717457
M274	134479.2337	1627234.3845	2494035.1	80.717275	80.717275
M278	134313.7981	1627274.2069	2494035.1	80.717345	80.717345
M288	134435.3718	1627316.8131	2494035.1	80.717380	80.717380
M294	134245.8425	1627316.2344	2494035.1	80.717278	80.717278
M295	134269.4169	1627316.1291	2494035.1	80.717283	80.717283
M296	134269.4169	1627316.2344	2494035.1	80.717284	80.717284
M297	134269.4169	1627316.4125	2494035.1	80.717320	80.717320
M298	134269.4169	1627316.5906	2494035.1	80.717361	80.717361
M299	134269.4169	1627316.7687	2494035.1	80.717402	80.717402
M300	134269.4169	1627316.9468	2494035.1	80.717443	80.717443
M301	134269.4169	1627317.1249	2494035.1	80.717484	80.717484
M302	134269.4169	1627317.3030	2494035.1	80.717525	80.717525
M303	134269.4169	1627317.4811	2494035.1	80.717566	80.717566
M304	134269.4169	1627317.6592	2494035.1	80.717607	80.717607
M305	134269.4169	1627317.8373	2494035.1	80.717648	80.717648
M306	134269.4169	1627318.0154	2494035.1	80.717689	80.717689
M307	134269.4169	1627318.1935	2494035.1	80.717730	80.717730
M308	134269.4169	1627318.3716	2494035.1	80.717771	80.717771
M309	134269.4169	1627318.5497	2494035.1	80.717812	80.717812
M310	134269.4169	1627318.7278	2494035.1	80.717853	80.717853
M311	134269.4169	1627318.9059	2494035.1	80.717894	80.717894
M312	134269.4169	1627319.0840	2494035.1	80.717935	80.717935
M313	134269.4169	1627319.2621	2494035.1	80.717976	80.717976
M314	134269.4169	1627319.4402	2494035.1	80.718017	80.718017
M315	134269.4169	1627319.6183	2494035.1	80.718058	80.718058
M316	134269.4169	1627319.7964	2494035.1	80.718099	80.718099
M317	134269.4169	1627319.9745	2494035.1	80.718140	80.718140
M318	134269.4169	1627320.1526	2494035.1	80.718181	80.718181
M319	134269.4169	1627320.3307	2494035.1	80.718222	80.718222
M320	134269.4169	1627320.5088	2494035.1	80.718263	80.718263
M321	134269.4169	1627320.6869	2494035.1	80.718304	80.718304
M322	134269.4169	1627320.8650	2494035.1	80.718345	80.718345
M323	134269.4169	1627321.0431	2494035.1	80.718386	80.718386



**REFERENCE**

U.S.G.S. 1:50,000 TOPOGRAPHIC MAP, MORGANTOWN, WV. USGS 1:50,000 TOPOGRAPHIC MAP, MORGANTOWN, WV. USGS 1:50,000 TOPOGRAPHIC MAP, MORGANTOWN, WV. USGS 1:50,000 TOPOGRAPHIC MAP, MORGANTOWN, WV.

SITE LIMITS OF DISTURBANCE (AC)	
WELL PAD	22.7
ACCESS ROAD	3.6
STOCKPILES	1.7
TOTAL AREA	18.0
WOODED AREA DISTURBED	2.7
LIMIT OF DISTURBANCE IMPACTS (NOW/FUTURE LANDOWNERS) (AC)	
IMPACTS TO FLORENCE (WHEE HAZLETT) (AC)	
WELL PAD	22.7
ACCESS ROAD	3.3
STOCKPILES	1.7
TOTAL AREA	16.8
WOODED AREA DISTURBED	2.4
IMPACTS TO TIMOTHY J. CAUSEE (AC)	
WELL PAD	0.0
ACCESS ROAD	1.3
STOCKPILES	0.0
TOTAL AREA	1.3
WOODED AREA DISTURBED	0.1
IMPACTS TO JARROLD & RIMM KIDNEY (AC)	
WELL PAD	0.0
ACCESS ROAD	0.0
STOCKPILES	0.0
TOTAL AREA	0.0
WOODED AREA DISTURBED	0.0

DWG NO.	SHEET TITLE	INCLUDED	LAST REVISED
CS 000	COVER SHEET	X	11/02/2016
13 190	EXISTING TOPOGRAPHIC PLAN	X	11/02/2016
13 100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	X	11/02/2016
13 101	EROSION AND SEDIMENT CONTROL PLAN (1 OF 3)	X	11/02/2016
13 102	EROSION AND SEDIMENT CONTROL PLAN (2 OF 3)	X	11/02/2016
13 103	EROSION AND SEDIMENT CONTROL PLAN (3 OF 3)	X	11/02/2016
13 104	STOCKPILE CROSS-SECTIONS	X	11/02/2016
13 105	WELL PAD PLAN VIEW	X	11/02/2016
13 106	WELL PAD CROSS-SECTIONS	X	11/02/2016
13 107	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 6)	X	11/02/2016
13 108	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 6)	X	11/02/2016
13 109	EROSION AND SEDIMENT CONTROL DETAILS (3 OF 6)	X	11/02/2016
13 110	EROSION AND SEDIMENT CONTROL DETAILS (4 OF 6)	X	11/02/2016
13 111	EROSION AND SEDIMENT CONTROL DETAILS (5 OF 6)	X	11/02/2016
13 112	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 6)	X	11/02/2016
13 113	ACCESS ROAD CROSS-SECTIONS (1 OF 2)	X	11/02/2016
13 114	ACCESS ROAD CROSS-SECTIONS (2 OF 2)	X	11/02/2016
13 115	GEOTECHNICAL SUBSURFACE SUMMARY	X	11/02/2016
13 116	GEOTECHNICAL SITE PLAN WITH 200' BUFFER	X	11/02/2016
13 117	GEOTECHNICAL SITE PLAN WITH 200' BUFFER	X	11/02/2016
13 118	GEOTECHNICAL SITE PLAN WITH 200' BUFFER	X	11/02/2016
13 119	CROSS SECTIONS	X	11/02/2016
13 120	GEOTECHNICAL TABLES AND NOTES	X	11/02/2016
13 121	GEOTECHNICAL DETAILS	X	11/02/2016
13 122	POST-CONSTRUCTION RECLAMATION PLAN	X	11/02/2016
13 123	POST-CONSTRUCTION RECLAMATION DETAILS	X	11/02/2016



REVISION RECORD	NO.	DATE	BY	DESCRIPTION
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			

**HAZLETT WELL PAD**  
UNION DISTRICT  
MARSHALL COUNTY, WEST VIRGINIA  
PREPARED FOR:  
**CHEVRON APPALACHIA, LLC**  
700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108

COVER SHEET

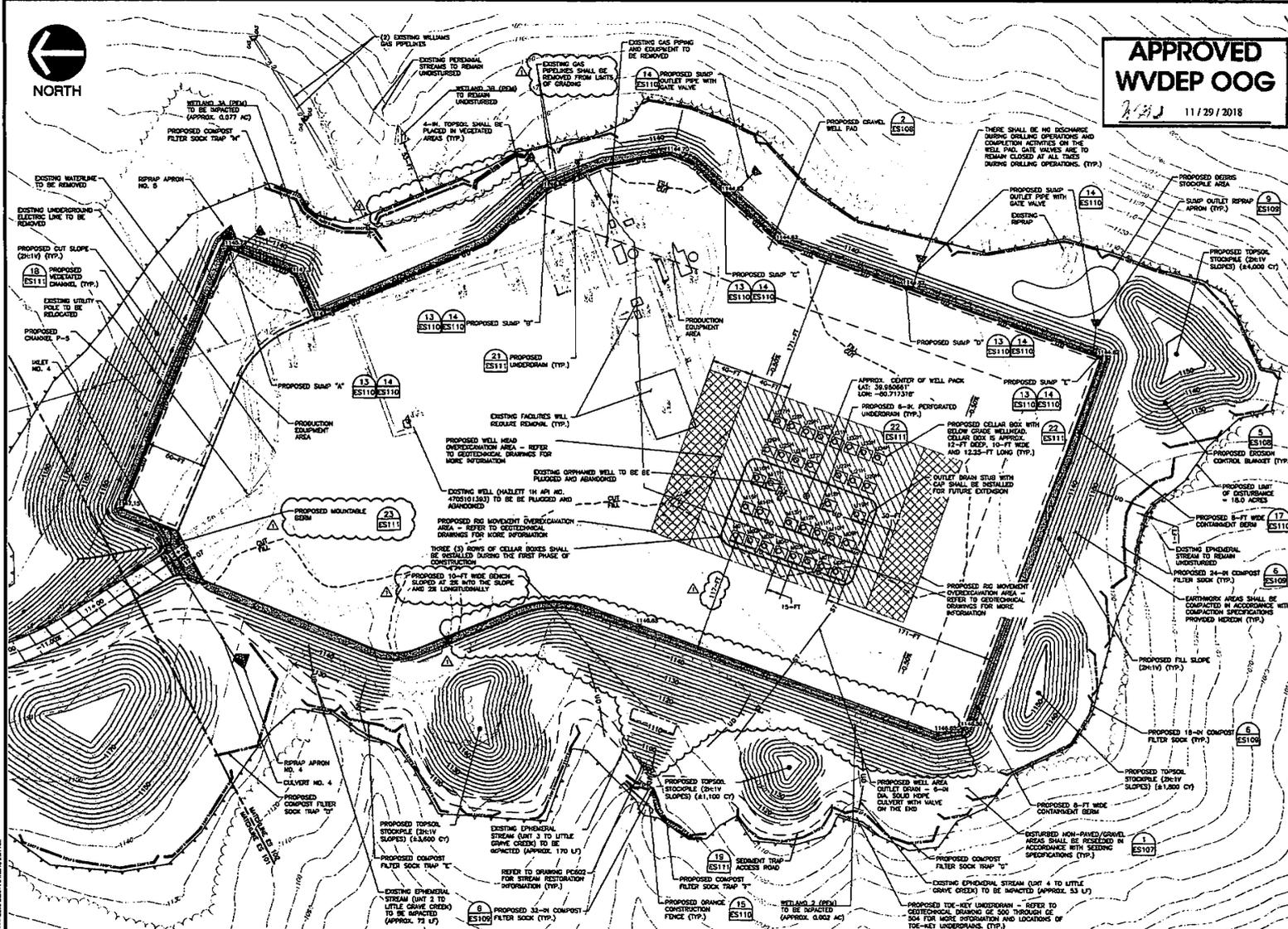
Issued Version: 11/02/2016  
Drawing Scale: 1"=500'  
Date Plotted: 11/29/2016  
Title: HAZLETT WELL PAD  
Author: JAM  
Checked: AWL  
Plotted: JAM

MISS UTILITY OF WEST VIRGINIA  
1-800-245-4848  
West Virginia State Line  
Should Not Cross State Line Without  
You Are In The State At That Point  
IT'S THE LAW

CS 000



**APPROVED**  
**WVDEP OOG**  
11/29/2018



- LEGEND**
- EXISTING BROAD RIGHT-OF-WAY
  - EXISTING PROPERTY LINE
  - EXISTING BENCH CONTOUR
  - EXISTING INTERMEDIATE CONTOUR
  - EXISTING PAVED ROADWAY
  - EXISTING UNPAVED ROADWAY
  - EXISTING GAS LINE
  - EXISTING WATERLINE
  - EXISTING TELECOMMUNICATIONS LINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING UNDERGROUND ELECTRIC LINE
  - EXISTING STORMWATER GULLY
  - EXISTING FENCE
  - EXISTING STREAM
  - EXISTING WETLAND
  - EXISTING TREELINE
  - EXISTING REPAIR
  - EXISTING STRUCTURE
  - EXISTING UTILITY POLE
  - EXISTING WATER METER
  - EXISTING WATER MANHOLE
  - EXISTING GAS WELL
  - PROPOSED EDGE OF ACCESS ROAD
  - PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED WELL HEAD AND CELLAR
  - PROPOSED BERM
  - PROPOSED ASPHALT PAVEMENT
  - PROPOSED INDEX CONTOUR
  - PROPOSED INTERMEDIATE CONTOUR
  - PROPOSED WELL PAD CUT/FILL LINE
  - PROPOSED SPOT ELEVATION
  - PROPOSED COMPOST FILTER SOCK TEMP
  - PROPOSED 15-IN COMPOST FILTER SOCK
  - PROPOSED 24-IN COMPOST FILTER SOCK
  - PROPOSED 36-IN COMPOST FILTER SOCK
  - PROPOSED ORANGE CONSTRUCTION FENCE
  - PROPOSED ROCK CONSTRUCTION ENTRANCE
  - PROPOSED DIRT PROTECTION
  - PROPOSED DITCH/CHANNEL BLANKET
  - EXISTING CHANNEL (TO BE UTILIZED)
  - PROPOSED CHANNEL
  - PROPOSED STORMWATER CULVERT
  - PROPOSED DIRT
  - PROPOSED REPAIR APRON
  - PROPOSED UNDERDRAIN
  - PROPOSED 8-FT WIDE CONTAINMENT BERM
  - PROPOSED 18-FT WIDE CONTAINMENT BERM
  - DETAIL REFERENCE
  - DRAWING DESCRIPTION

- STREAM AND WETLAND NOTES**
1. WETLAND BANDERS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE. WETLANDS 1A, 2A, 3A, AND 4. WETLANDS 1A AND 2A CROSS THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY IMPACTED.
  2. THE FOLLOWING FOUR (4) WETLANDS AND (3) CHANNELS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE MATHEMATICAL POINT 30 FOR FRESHWATER EFFECTS. WETLAND 1A, 1B, 2, 3A AND STREAMS 2, 2, 3, AND 4 ARE 1/2 TO 1/4 ACRES.
  3. THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT AS SUCH, A BARRIERS IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
  4. DAMAGERS SHOWN HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH ROLLERS OR TAMPERS TO THE PROPOSED LIMITS NOT EXCEEDING 12 INCHES THICK. USE A REDUCED SOIL LIFT THICKNESS OF 4 INCHES (MAXIMUM) IN AREAS WHERE STEEP SLOPES OR OTHER OBSTACLES PREVENT THE USE OF STANDARD ROLLERS OR TAMPERS. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 2 INCHES IN STRUCTURAL FILL AREAS WHERE HEAVY, SELF-PROPELLED COMPACTORS ARE USED. A REDUCED MAXIMUM PARTICLE SIZE OF 3 INCHES SHOULD BE USED IN AREAS WHERE HAND-OPERATED COMPACTORS ARE USED. WASTE OVERSIZED PARTICLES (EXCEEDING THE MAXIMUM PARTICLE SIZE INDICATED) SHOULD BE REMOVED FROM THE PROPOSED FILL AREAS OR IN DEEPER AREAS OF FILL OVERSIZED ROCK PARTICLES (I.E. MATERIALS EXCEEDING 6 INCHES) SHOULD BE PLACED IN LIFTS NOT EXCEEDING 24 INCHES. LIFTS SHOULD BE COMPACTED IN SEVEN PASSES USING HEAVY COMPACTION EQUIPMENT.
  2. COMPACT ALL PAD AND DRAINAGE SUBSIDIES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY WITHIN 13 INCHES OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D998 (STANDARD PROCTOR).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CH2M & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2017.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 05/17/2017 TO 05/25/2017.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CH2M & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 03/30/2017 AND 05/23/2017 TO 05/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LD48, DATED 2003.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVON.

**MISS UTILITY OF WEST VIRGINIA**  
1-800-245-4848  
West Virginia State Law  
(Section 21V, Chapter 24-C requires that you call two business days before you dig in the state of West Virginia.)  
**IT'S THE LAW**

**HAZLETT WELL PAD**  
UNION DISTRICT  
MARSHALL COUNTY, WEST VIRGINIA

**CHEVON APPALACHIA, LLC**  
700 BRINGTON PARKWAY  
CORAOPOLIS, PA 15108

**EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)**

Project Number: 184-756  
Drawing Scale: 1"=50'  
Date Issued: 07/27/18  
Index Number:  
Drawn By: BJS  
Checked By: JLM  
Project Manager: BJS

**ES 102**