



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
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 MO1H
47-051-02092-00-00

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 MO1H
Farm Name: IRENE HAZLETT- LIFE
U.S. WELL NUMBER: 47-051-02092-00-00
Horizontal 6A New Drill
Date Issued: 11/30/2018

PERMIT CONDITIONS 4705102092

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

CONDITIONS

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

PERMIT CONDITIONS 4705102092

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.



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street
Charleston, WV 25304
(304) 926-0450 fax (304) 926-0452

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

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

TO: Chevron Appalachia, LLC
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 57th 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; ¹
- Wetland 3A – 0 linear feet;
- Wetland 3B – 53 linear feet; and
- Wetland 4 – 1 linear foot. ²

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 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

ATTACHMENT A

WETLAND AND PERENNIAL STREAM WAIVER REQUEST FORM

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.

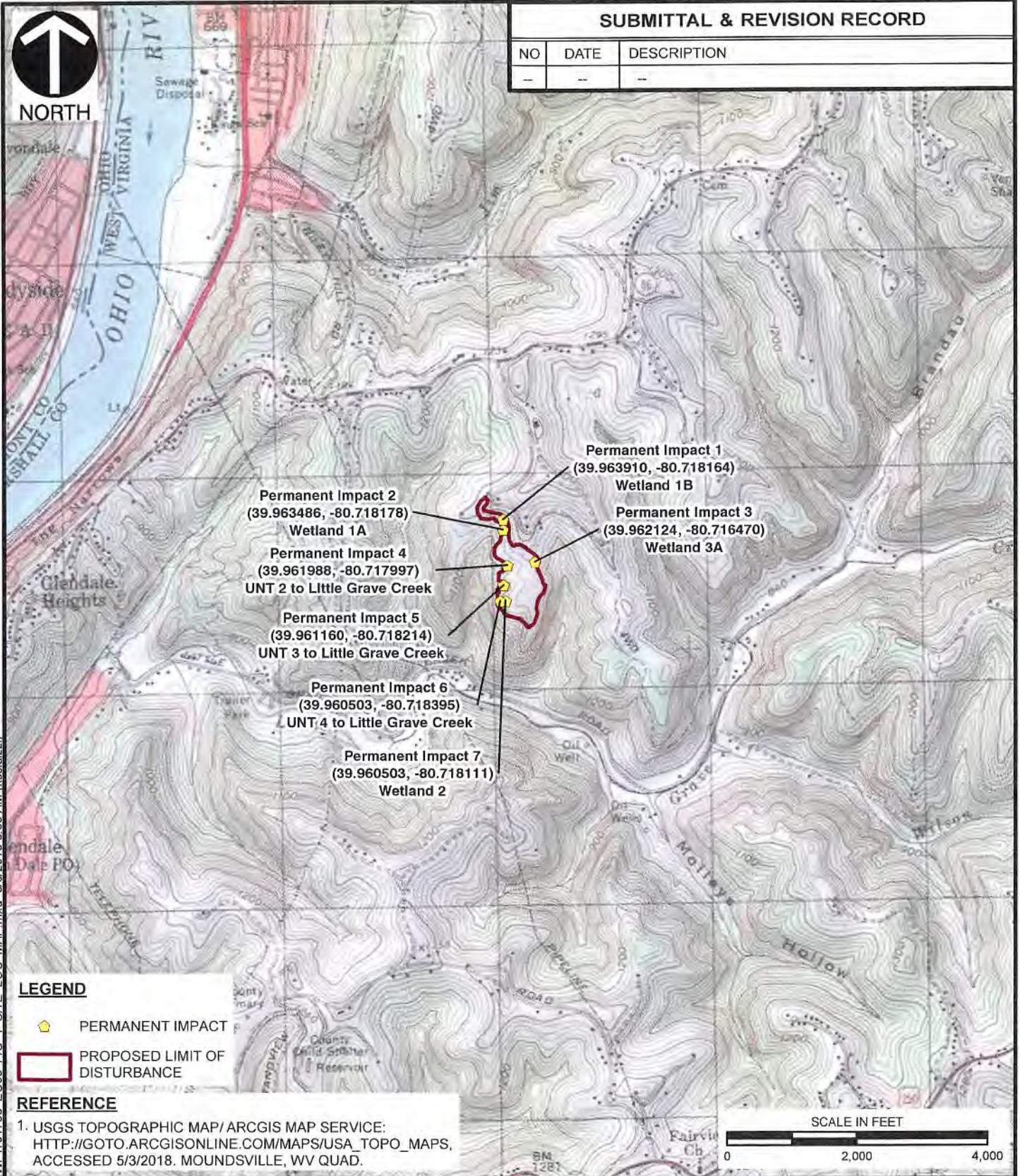
ATTACHMENT B

FIGURES



SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
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LEGEND

- PERMANENT IMPACT
- PROPOSED LIMIT OF DISTURBANCE

REFERENCE

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



Civil & Environmental Consultants, Inc.

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 724-327-5200 • 800-899-3610
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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:	1
DATE:	05/03/2018	SCALE:	1" = 2,000'	PROJECT NO:	164-755	* Hand signature on file	

P:\2016\164-755\GIS\Maps\EC05_NWP164755_EC05_FIG_1_SITE_LOC_MAP.mxd 5/3/2018 8:33 AM (kcolairz)



REVISION RECORD	
NO.	DATE
SUBMITTAL RECORD	
NO.	DATE

LEGEND

PERMANENT IMPACT	WETLAND OUTLINES BEYOND DELINEATION BOUNDARY
PROPOSED STREAM IMPACT	PROPOSED WETLAND IMPACT
EPHEMERAL STREAM	WETLAND - PEM
INTERMITTENT STREAM	WETLAND - R55
WW MID STREAM	PROPOSED LIMIT OF DISTURBANCE
	DELINEATION BOUNDARY
	INDEX CONTOUR

- REFERENCES**
1. USGS NATIONAL HYDROGRAPHY DATASET FOR WEST VIRGINIA, 2012
 2. WVGS CLEARING HOUSE, 10 CONTIGUOUS MOUNDSVILLE, WV QUAD, 2003
 3. ESH WORLD IMAGERY | AVIAC MAP SERVICE: HTTP://GOTO.AVIGONLINE.COM/AVIAC/ WORLD_IMAGERY. ACCESSED 09/06/2015. IMAGERY DATE: 2015.

NOTES

1. THE WETLAND AND STREAM DELINEATION WAS CONDUCTED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 2/6/2015.
2. CIVIL & ENVIRONMENTAL CONSULTANTS, INC. CONDUCTED THE WETLAND DELINEATION IN A MANNER CONSISTENT WITH THE CRITERIA CONTAINED IN THE 1987 U.S. ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987 MANUAL) AND THE 2012 REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, EASTERN MOUNTAINS AND SEISMIC REGION, VERSION 2.0 (2012 REGIONAL SUPPLEMENT), AND WITH THE LEVEL OF CARE AND QUALITY CRITERIA EXERCISED BY MEMBERS OF THE ENVIRONMENTAL CONSULTING PROFESSION PRACTICING CONTINUOUSLY UNDER SIMILAR CONDITIONS IN THE LOCALITY OF THE PROJECT. IT MUST BE RECOGNIZED THE WETLAND DELINEATION WAS BASED ON FIELD OBSERVATIONS AND CIVIL & ENVIRONMENTAL CONSULTANTS' PROFESSIONAL INTERPRETATION OF THE CRITERIA IN THE 1987 MANUAL AND THE 2012 REGIONAL SUPPLEMENT. WETLAND DETERMINATIONS MAY CHANGE SUBSEQUENT TO CIVIL & ENVIRONMENTAL CONSULTANTS' DELINEATION BASED ON CHANGES TO REGULATORY CRITERIA, CHANGES TO SURFACE, AND OTHER HUMAN ACTIVITIES AND/OR LAND DISTURBANCES.





Civil & Environmental Consultants, Inc.
 4000 Hartzell Lane, Suite 200 - Export, PA 15622
 PH: 724-327-3000 FAX: 724-327-3001
 www.cecinc.com

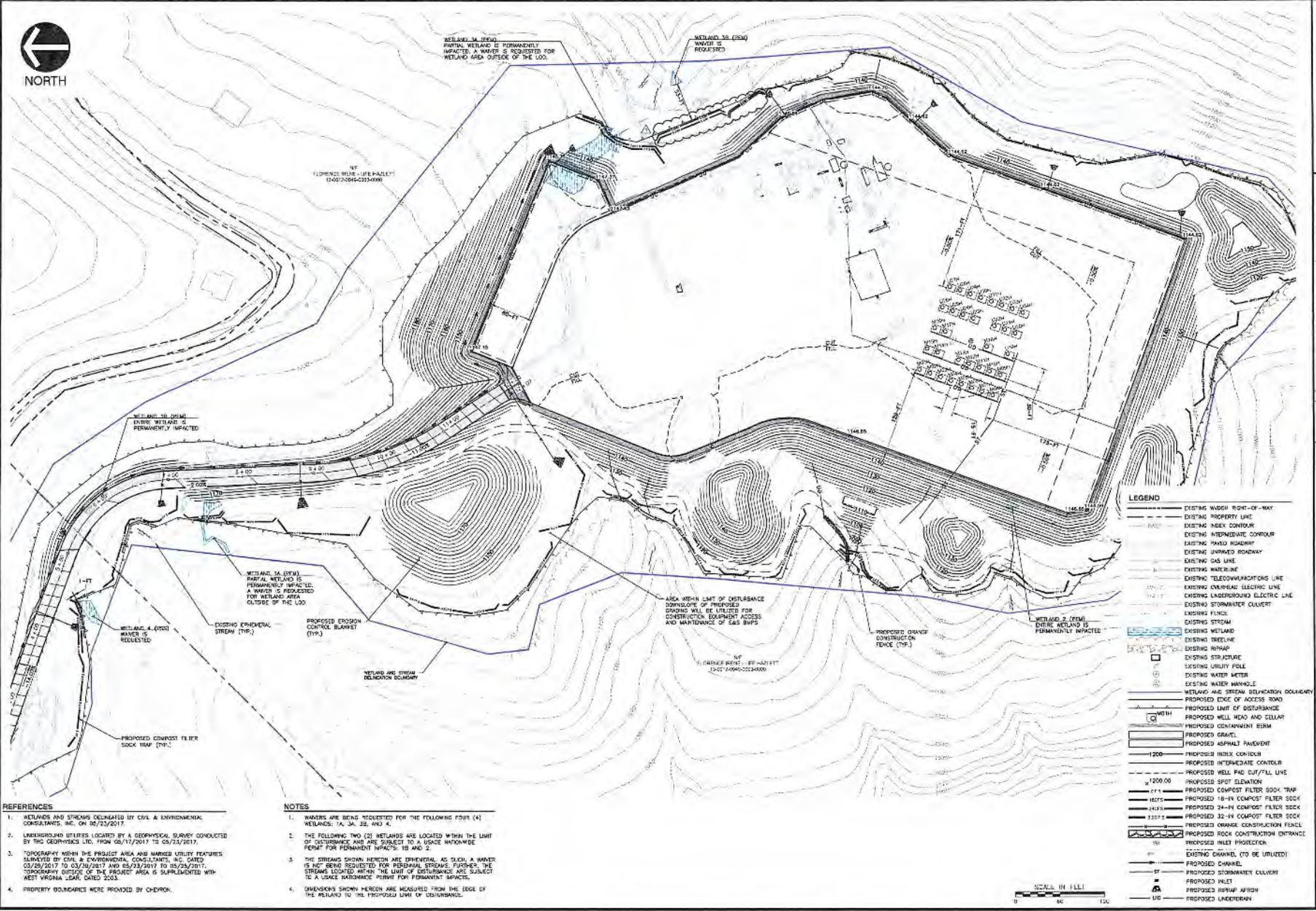
**CHEVRON APPALACHIA, LLC
 HAZLETT WELL PAD
 UNION DISTRICT,
 MARSHALL COUNTY, WEST VIRGINIA**

DESIGNED BY: KACD	CHECKED BY: SVP	APPROVED BY: PAK
DATE: 05/05/2015	SCALE: 1" = 200'	PROJECT NO.: 154-755

AQUATIC IMPACTS MAP

SHEET 1 OF 2

154-755-01-AQUATIC IMPACTS MAP - CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

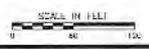


- REFERENCES**
1. WETLANDS AND STREAMS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON 07/12/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. FROM 08/17/2017 TO 09/13/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SUPPLIED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/28/2017 TO 03/29/2017 AND 03/23/2017 TO 03/26/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA USGS, DATED 2003.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

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

LEGEND

	EXISTING WADIH RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING PAVED ROADWAY
	EXISTING UNPAVED ROADWAY
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING STORMWATER CULVERT
	EXISTING FENCE
	EXISTING STREAM
	EXISTING WETLAND
	EXISTING TREE LINE
	EXISTING RIPRAP
	EXISTING STRUCTURE
	EXISTING UTILITY POLE
	EXISTING WATER METER
	EXISTING WATER MANHOLE
	WETLAND AND STREAM DELINEATION BOUNDARY
	PROPOSED EDGE OF ACCESS ROAD
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED WELL HEAD AND CELLAR
	PROPOSED CONTAINMENT BERM
	PROPOSED GRAVEL
	PROPOSED ASPHALT PAVEMENT
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED WELL PAD CUT/FILL LINE
	PROPOSED SPOT ELEVATION
	PROPOSED COMPOST FILTER SOCK TRAP
	PROPOSED 18-IN COMPOST FILTER SOCK
	PROPOSED 24-IN COMPOST FILTER SOCK
	PROPOSED 32-IN COMPOST FILTER SOCK
	PROPOSED ORANGE CONSTRUCTION FENCE
	PROPOSED ROCK CONSTRUCTION ENTRANCE
	PROPOSED INLET PROJECTION
	EXISTING CHANNEL (TO BE UTILIZED)
	PROPOSED CHANNEL
	PROPOSED STORMWATER CULVERT
	PROPOSED INLET
	PROPOSED RIPRAP APRON
	PROPOSED UNDERDRAIN



CEE
 Civil & Environmental Consultants, Inc.
 4000 Triangle Lane, Suite 200 - Export, PA 15622
 724-337-5200 300-890-9310
 www.ceeinc.com

REVISION RECORD

NO.	DATE	BY	DESC. OF REVISIONS
1	10/27/2017		
2			
3			
4			
5			
6			

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

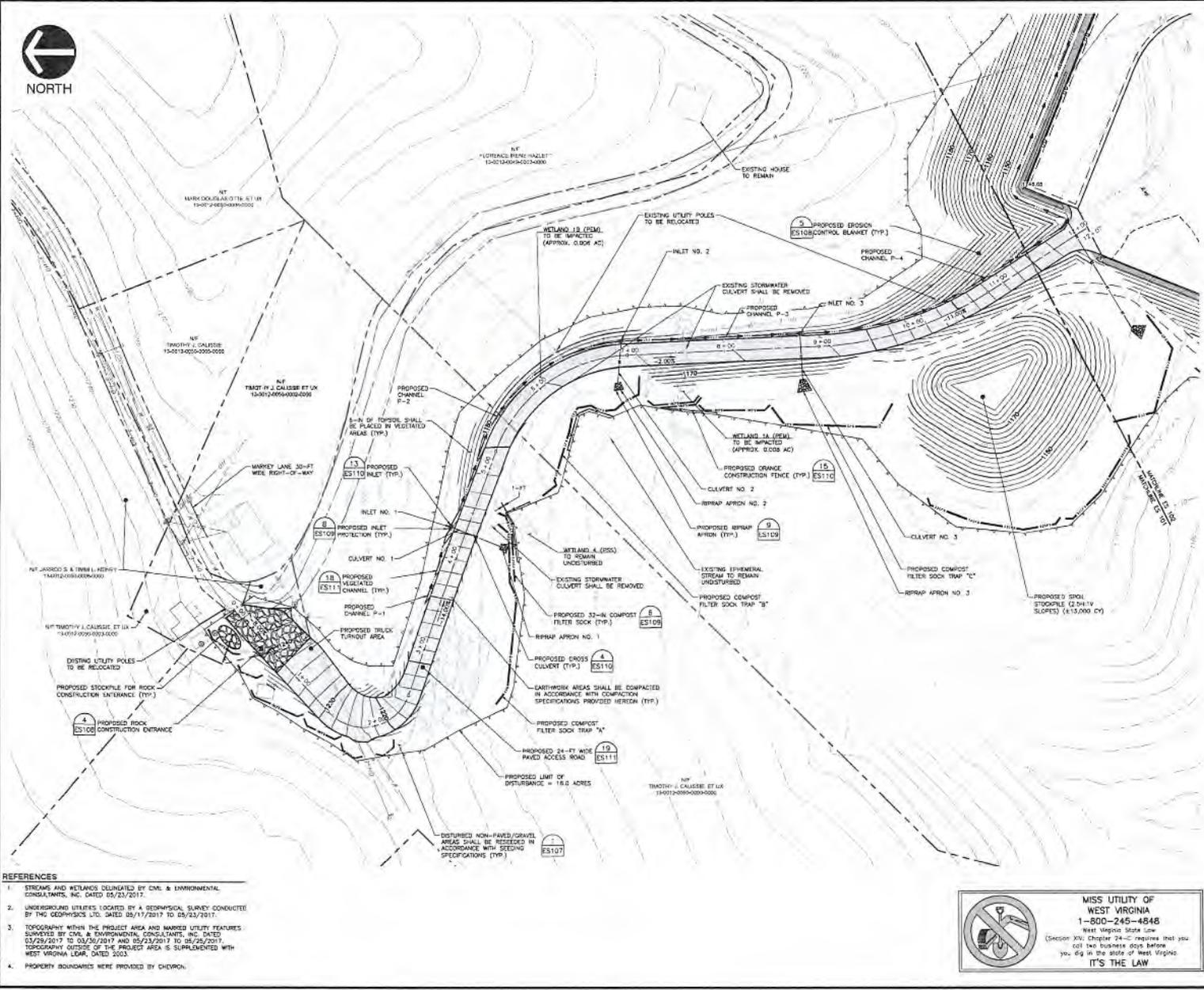
WETLAND WAIVER REQUEST FIGURE

Project Number: 156739
 Drawing Scale: 1"=50'
 Date Issued: 09/22/17
 Issue Number:
 Created By: RDB
 Checked By: GAO
 Project Manager: BAK

FIG. 3

ATTACHMENT C

EROSION AND SEDIMENT CONTROL PLAN



LEGEND

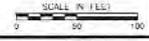
- EXISTING WADSWORTH RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING PAVED ROADWAY
- EXISTING UNPAVED ROADWAY
- EXISTING GAS LINE
- EXISTING WATERLINE
- EXISTING TELECOMMUNICATIONS LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORMWATER CULVERT
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING FENCE
- EXISTING TREELINE
- EXISTING BRRAP
- 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 CONFINEMENT BERM
- PROPOSED DRIVE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED WELL PAD CUT/FILL LINE
- PROPOSED SPOT ELEVATION
- PROPOSED COMPOST FILTER SOCK TRAP
- PROPOSED 18-IN COMPOST FILTER SOCK
- PROPOSED 24-IN COMPOST FILTER SOCK
- PROPOSED 32-IN COMPOST FILTER SOCK
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED INLET PROTECTION
- PROPOSED EROSION CONTROL BLANKET
- EXISTING CHANNEL (TO BE UTILIZED)
- PROPOSED CHANNEL
- PROPOSED STORMWATER CULVERT
- PROPOSED INLET
- PROPOSED BRRAP APRON
- PROPOSED UNDERDRAIN
- DETAIL NUMBER
- DRAWING DESIGNATION

- STREAM AND WETLAND NOTES**
1. WETLAND WAIVERS 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) EPHEMERAL STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE NATIONALITY PERMIT 30 FOR PERMANENT IMPACTS: WETLANDS 1A, 1B, 2, 3A AND STREAMS LAT 2, LAT 3, AND UNIT 4 TO LITTLE GRAVE CREEK.
 3. THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT. AS SUCH, A WAIVER IS NOT BEING REQUESTED FOR PERMANENT IMPACTS.
 4. DIMENSIONS SHOWN HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE FILL MATERIALS USING COMPACTION EQUIPMENT WITH GREATER THAN 10-TON WEIGHT IN COMPACTED LIFTS NOT EXCEEDING 15 INCHES THICK. USE A REDUCED LOSS LIFT THICKNESS OF 4 INCHES MAXIMUM IN AREAS WHERE STEEL-PLATE TAMPORS OR OTHER HAND-OPERATED COMPACTIONERS ARE BEING USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 12 INCHES IN STRUCTURAL FILL AREAS WHERE HEAVY, SELF-PROPELLED COMPACTIONERS ARE UTILIZED. A REDUCED MAXIMUM PARTICLE SIZE OF 3 INCHES SHOULD BE USED IN AREAS WHERE HAND-OPERATED COMPACTIONERS ARE USED. WASTE OVERSIZED PARTICLES (EXCEEDING THE MAXIMUM PARTICLE SIZE INDICATED ABOVE) OUTSIDE OF THE PROPOSED FILL AREAS OR IN DEEPER AREAS OF FILL OVERSIZED ROCK PARTICLES (I.E. MATERIALS EXCEEDING 8 INCHES) PLACED IN THE DEEPEST LIFTS OF FILL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 24 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 ±5 PERCENT OF THE OPTIMUM MOISTURE CONTENT. OPTIMUM MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A BEDROCK SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 05/17/2017 TO 05/23/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND NAMED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 03/30/2017 AND 05/23/2017 TO 05/26/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LEAD, DATED 2003.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY DEEDS.

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



CEL
 Civil & Environmental Consultants, Inc.
 4000 Haulgates Lane, Suite 200 • Newport, VA 23602
 757-257-0200 • 800-893-9310
 www.celva.com

REVISION RECORD

NO.	DATE	DESCRIPTION
1		
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HAZLET WELL PAD
 UNION DISTRICT
 MARSHALL COUNTY, WEST VIRGINIA
 PREPARED FOR
CHEVRON APPALACHIA, LLC
 700 CHERINGTON PARKWAY
 CORAOPOLIS, PA 15108

EROSION AND SEDIMENT CONTROL
 PLAN (1) OF 2
 Project Number: 18A256
 Drawing Scale: 1"=50'
 Date Issued: 01/20/18
 Issue Number:
 Drawn by: RBG
 Checked by: JSM
 Project Manager: SEBET

ES 101

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

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (If more than one, list each in a separate line):

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

Marion 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.

4705102092

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: 1H 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 X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No Yes

JM 8/26/18

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: 15,939

11) Proposed Horizontal Leg Length: 8,939

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

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

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AUG 3 2018

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

WV Department of
Environmental Protection

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	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	15,939'	15,939'	2,616' (500' below 9-5/8" shoe)
Tubing							
Liners							

Handwritten signature
8/26/18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	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:				RECEIVED Office of Oil and Gas
Sizes:				AUG 3 2018
Depths Set:				WV Department of Environmental Protection

Handwritten: 6/20/18

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% CaCl₂, and flake. The coal will contain class A cement, 3% CaCl₂, Salt, and flake. The intermediate will contain class A cement, 3% CaCl₂, 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.

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

4705 102092

Cement Additives

The Water String the blend will contain class A cement, 3% CaCl₂, and flake.

The intermediate will contain class A cement, 10% CaCl₂, 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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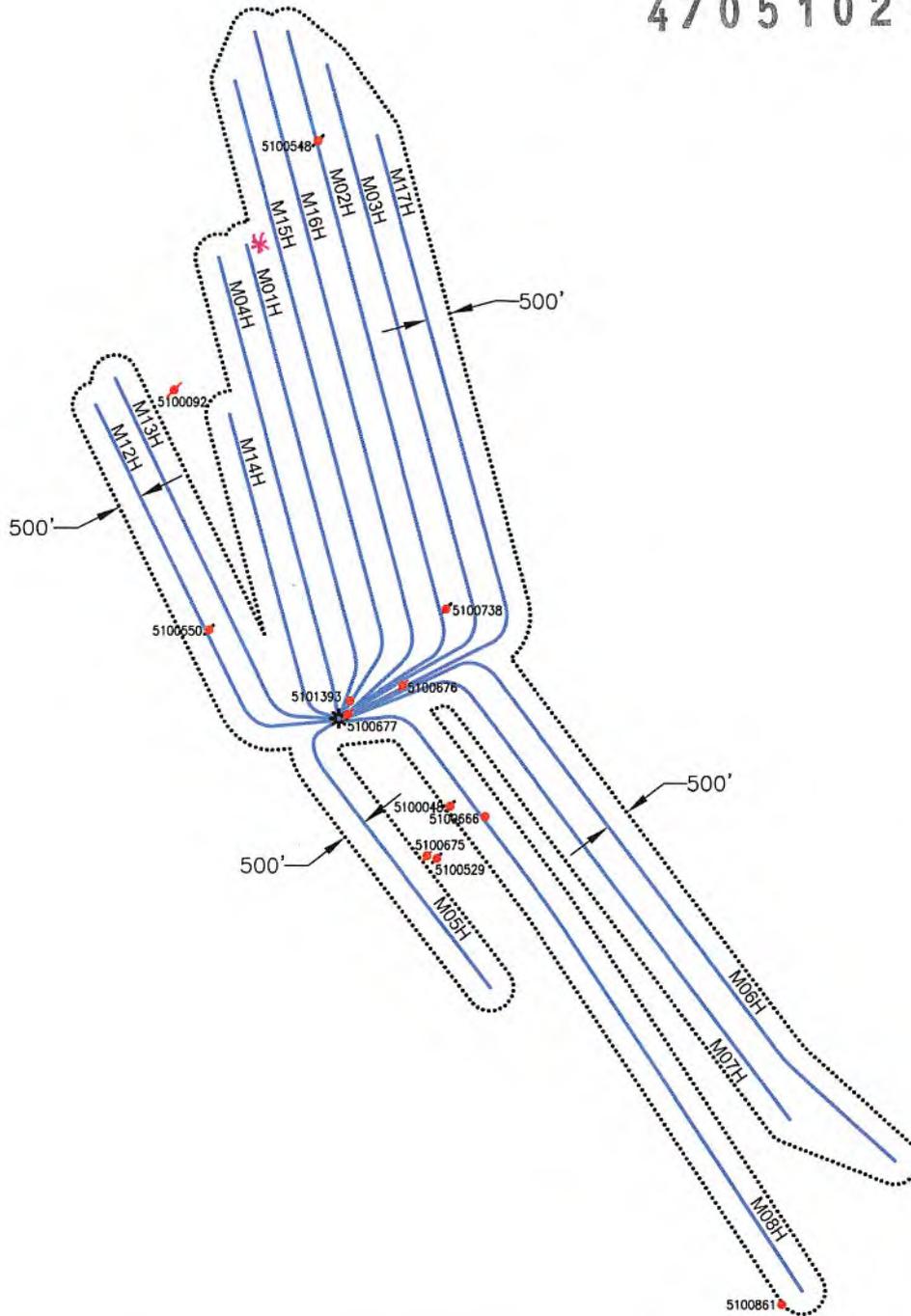
Hazlett M01H

Permit#		Union District, Marshall Co, WV				Ground Level Elev. (ft above SL):		1144		
6/5/2018 14:43						**All depths below reference GL**				
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	HOLE DEPTH (FT)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	FMC UH-S 13 5/8"					
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 jt 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 jt over coupling (1) installed 100 ft from surface Basket Placement 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	13-3/8" Casing	724	724			17.50	754	Intermediate Casing 9-5/8" 40# L-80IC BTC 0.393" 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		2,116	2,116			12.25	2,176	Production Casing 5-1/2" 20# P110EC DWC/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 9-5/8" shoe
Planned MW: 11.5ppg SBM - 12.5ppg SBM	Float Equip. (2) Jts of Csg Float Equip.	KOP Est. BHT deg. F 5-1/2" Casing	15,939	144 6,170			8.5 to 8.75	15,954	Production Tail Slurry (Class A, G, H)	

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 6/20/18

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WV Department of
Environmental Protection


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

4705102092

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
47-051-00550	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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Environmental Protection

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.

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

Jenny Hayes

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Environmental Protection

Subscribed and sworn before me this 27th day of June, 2018

Laura Savage

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 Melick*

Comments: _____

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AUG 3 2018
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Title: *Oil & Gas Inspector*

Date: *6/26/18*

Field Reviewed? () Yes () No



Chevron

**Appalachian LLC
WV Well Site Safety Plan
Pad: Hazlett Pad A
Well # M01H**

JN 7/9/18

**28 Timmi Lane
Glen Dale, WV 26038
Glen Dale District
Marshall County, WV
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 3 2018
WV Department of
Environmental Protection



WATER SUPPLY EXHIBIT 4705 + 02092 HAZLETT PAD A BATCH #2



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 12005000040000	O	OTTE HUBERT CHAS & JANE E	25-13 12003200010000	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 12005000070000	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 12003600000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 12004900010000	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
N	OTTE HUBERT C ET AL	25-13 12004300000000				AO	OTTE HUBERT C ET AL	25-13 12004300000000
O	HAZLETT IRENE - LIFE	25-13 12004700000000				AP	HAZLETT IRENE - LIFE	25-13 12004700000000
P	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000				AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000
Q	RHODES LISA & NORMAN L	25-13 12004800040000				AR	RHODES LISA & NORMAN L	25-13 12004800040000
R	YODER ELI A ET AL	25-14 10016000100000				AS	YODER ELI A ET AL	25-14 10016000100000
S	YODER ELI A ET AL	25-14 10016000200000				AT	YODER ELI A ET AL	25-14 10016000200000
T	NGUYEN LAMSON N ET UX	25-14 10016000300000				AU	NGUYEN LAMSON N ET UX	25-14 10016000300000
U	SPRINGER BARBARA K	25-14 10016000500000				AV	SPRINGER BARBARA K	25-14 10016000500000
V	LINZY LINDA A	25-14 10017000100000				AW	LINZY LINDA A	25-14 10017000100000
W	MARSHALL COUNTY PARK & REC	25-14 20008000000000				AX	MARSHALL COUNTY PARK & REC	25-14 20008000000000
X	MARSHALL COUNTY PARK & REC	25-14 30001000000000				AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
Y	OTTE HUBERT C ET AL	25-14 30002000000000				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: SERVICES, INC.
 Address: 301 COMMERCE PARK DR
CRANBERRY TOWNSHIP, PA 16066
 Phone: 800-267-2549

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

L:\Projects\Chevron\GIS\Unit Water Sources\Hazlett_Pad_A_V\Hazlett_Pad_A_V\WaterSupply\Hazlett_Pad_A_V\Hazlett_Pad_A_V\MapPlane Well Virginia North FIPS 4701 Feet



Water Supply Exhibit
Hazlett Pad A Batch #2

4705102092 

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	MCCCLINTOCK 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		

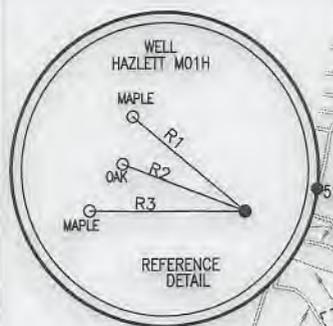
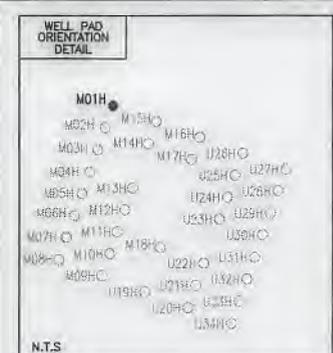
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*ELEVATIONS SHOWN ARE INTERPOLATED FROM LIDAR TOPO AND SUPPLY COORDINATES ARE FROM OTHERS.

BHL is located on topo map 4,279 feet south of Latitude: 40° 00' 00"
 SHL is located on topo map 14,261 feet south of Latitude: 40° 00' 00"

SEE PAGE 2 & 3 FOR SURFACE OWNERS AND LESSORS

BHL is located on topo map 4,717 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 2,558 feet west of Longitude: 80° 42' 30"



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

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
5. 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.
6. There are no existing buildings within 625' of proposed well.

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

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4423450.258
 E:524131.364
 NAD83, WV NORTH
 N:534404.708
 E:1627243.045

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4423880.44
 E:524219.03
 NAD83, WV NORTH
 N:535811.544
 E:1627554.324

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4426489.57
 E:523463.71
 NAD83, WV NORTH
 N:544414.948
 E:1625218.878

LINE	BEARING	DISTANCE
R1	N 50°15'06" W	152.03'
R2	N 69°01'08" W	136.58'
R3	N 89°46'28" W	162.54'
R4	N 43°36'17" W	917.52'
R5	S 34°45'32" W	1491.05'
R6	S 81°26'05" E	1154.70'

FILE #: HAZLETT M01H
 DRAWING #: HAZLETT M01H
 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



(+) 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 M01H
 API WELL #: 47 51 02092
 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: 37.577±

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: 15,938.45'±

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

HAZLETT

M01H

PAGE 2 OF 3

	SURFACE OWNER	DIST-TM/PAR
1	IRENE HAZLETT-LIFE	13-12/49
2	FLORENCE IRENE HAZLETT-LIFE	13-12/49.3
3	MARK DOUGLAS OTTE ET UX	13-12/50.4
4	TIMMI L. KIDNEY	13-12/50.6
5	SHEREE L. LEACH	13-12/50.7
6	THOMAS L. OTTE EST ET AL - LIFE	13-12/28
7	*HUBERT C. & JANE E. OTTE	13-12/32
8	MICHAEL P. OTTE	13-12/31
9	MICHAEL PAUL OTTE ET UX	13-12/30
10	SANDREA M. SCHANE	13-12/29
11	KERRY G. & CINDY J. FOSTER	13-11/62
12	WILLIAM E. HELMS ET UX	13-11/64
13	JAMES E. HELMS - LIFE	13-11/63
14	DONALD & DANIEL FISHER ET AL	13-11/10
15	MARTA JAN LOY	13-6/55.4
16	STEPHEN G. LOY	13-6/56
17	CITY OF MCMECHEN	13-6/56.1
18	*UNKNOWN	13-6/61
19	CITY OF MCMECHEN	13-6/60

	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	DONALD BOYD YOHO	13-12/49.3
	KELLY ANN MEASE	
	ZANE EDWARD NEILSEN	
	NANCY A. BAKER	
	LARRY JOHN MCCRAKEN	
	PATRICIA ANN MCCRACKEN	
	ROBERT JAY MCCRACKEN	
	FLORENCE HAZLETT ET AL	
C	MARK D. OTTE ET UX	13-12/50.4
D	*TIMMI L. KIDNEY	13-12/50.6
E	CHARLES L. LEACH JR.	13-12/50.7
	SHEREE LEONARD F/K/A SHEREE L. LEACH	
F	MICHAEL OTTE ET AL	13-12/28
	GLADYS ELIZABETH KEY	
G	*HUBERT C. OTTE ET UX	13-12/32
H	HUBERT AND JANE OTTE	13-12/31
J	MICHAEL PAUL OTTE ET UX	13-12/30
K	HUBERT AND JANE OTTE	13-12/29
	HUBERT C. OTTE ET UX	
L	JOHN R. YANEN	13-11/62
M	WILLIAM E. HELMS ET UX	13-11/64
N	FREDERICK L. BRAUTIGAN ET UX	13-11/63
P	HOMER J. HALL JR.	13-11/10
	CHARLENE HALL	
	CHERYL HOLMES	
	ROBERT SELLER	
	RUTH ETHEL SELLER	
	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	
Q	PAUL FRED CHAVANAK	13-6/55.4
	JOHN ROBERT CHAVANAK	
	MINNIE L. JONES	
R	STEPHEN G. LOY ET AL	13-6/56
	JOAN L. ALLEN	
	RAYMOND MONROE JR.	
	BRUCE H. JONES	
	AMY M. JENKINS	
	DIANE M. SHOFKOM	
	KELLI LYNN DITTY F/K/A STOVALL	
	RONALD SCOTT STOVALL	
	TABITHA CLARK	
	JANA MCMECHEN	
	BENSON BENJAMIN MCMECHEN	
	JANIE M. HIXSON	
	HARRY M. HIXSON	
	STACY GORE F/K/A HIXSON	
	SEAN E. MCMECHEN	
	WENDY GORDON	
	RICHARD SCOTT HINERMAN	
	KATHERINE HINERMAN KLUG F/K/A KATHERINE FLUTY HINERMAN	
	WILLIAM SCOTT HINERMAN	
	HANNAH HAYNE F/K/A MCMECHEN	
	ABIGAIL SANDERS GORDON	
	DEBORAH D. GUALTIERI	
	CORENE K. HENAGE	
	CRISTY K. KELLEHER	

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4423450.258
E:524131.364

NAD83, WV NORTH
 N:534404.708
 E:1627243.045

APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4423880.44
E:524219.03

NAD83, WV NORTH
 N:535811.544
 E:1627554.324

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4426489.57
E:523463.71

NAD83, WV NORTH
 N:544414.948
 E:1625218.878

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

MAY 09, 2018

HAZLETT

M01H

PAGE 3 OF 3

	LESSOR	DIST-TM/PAR
S	CITY OF MCMECHEN WEST VIRGINIA, A MUNICIPAL CORPORATION	13-6/56.1
	JOAN L. ALLEN	
	RAYMOND MONROE JR.	
	BRUCE H. JONES	
	AMY M. JENKINS	
	DIANE M. SHOFKOM	
	KELLI LYNN DITTY F/K/A STOVALL	
	RONALD SCOTT STOVAL	
	TABITHA CLARK	
	JANA MCMECHEN	
	BENSON BENJAMIN MCMECHEN	
	JANIE M. HIXSON	
	HARRY M. HIXSON	
	STACY GORE F/K/A HIXSON	
	SEAN E. MCMECHEN	
	WENDY GORDON	
	RICHARD SCOTT HINERMAN	
	KATHERINE HINERMAN KLUG F/K/A KATHERINE FLUTY HINERMAN	
	WILLIAM SCOTT HINERMAN	
	HANNAH HAYNE F/K/A MCMECHEN	
	ABIGAIL SANDERS GORDON	
	DEBORAH D. GUALTIERI	
	CORENE K. HENAGE	
	CRISTY K. KELLEHER	
T	*JOAN L. ALLEN	13-6/61
	*RAYMOND MONROE JR.	
	*BRUCE H. JONES	
	*AMY M. JENKINS	
	*DIANE M. SHOFKOM	
	*KELLI LYNN DITTY F/K/A STOVALL	
	*RONALD SCOTT STOVAL	
	*TABITHA CLARK	
	*JANA MCMECHEN	
	*BENSON BENJAMIN MCMECHEN	
	*JANIE M. HIXSON	
	*HARRY M. HIXSON	
	*STACY GORE F/K/A HIXSON	
	*SEAN E. MCMECHEN	
	*WENDY GORDON	
	*RICHARD SCOTT HINERMAN	
	*KATHERINE HINERMAN KLUG F/K/A KATHERINE FLUTY HINERMAN	
	*WILLIAM SCOTT HINERMAN	
	*HANNAH HAYNE F/K/A MCMECHEN	
	*ABIGAIL SANDERS GORDON	
	*DEBORAH D. GUALTIERI	
	*CORENE K. HENAGE	
	*CRISTY K. KELLEHER	
U	JOAN L. ALLEN	13-6/60
	RAYMOND MONROE JR.	
	BRUCE H. JONES	
	AMY M. JENKINS	
	DIANE M. SHOFKOM	
	KELLI LYNN DITTY F/K/A STOVALL	
	RONALD SCOTT STOVAL	
	TABITHA CLARK	
	JANA MCMECHEN	
	BENSON BENJAMIN MCMECHEN	
	JANIE M. HIXSON	
	HARRY M. HIXSON	
	STACY GORE F/K/A HIXSON	
	SEAN E. MCMECHEN	
	WENDY GORDON	
	RICHARD SCOTT HINERMAN	
	KATHERINE HINERMAN KLUG F/K/A KATHERINE FLUTY HINERMAN	
	WILLIAM SCOTT HINERMAN	
	HANNAH HAYNE F/K/A MCMECHEN	
	ABIGAIL SANDERS GORDON	
	DEBORAH D. GUALTIERI	
	CORENE K. HENAGE	
	CRISTY K. KELLEHER	

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
 N:4423450.258
 E:524131.364

NAD83, WV NORTH
 N:534404.708
 E:1627243.045

APPROX. LANDING POINT

UTM 17-NAD83(M)
 N:4423880.44
 E:524219.03

NAD83, WV NORTH
 N:535811.544
 E:1627554.324

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
 N:4426489.57
 E:523463.71

NAD83, WV NORTH
 N:544414.948
 E:1625218.878

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

MAY 09, 2018

WW-6A1
(5/13)

Operator's Well No. Hazlett M01H

**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:

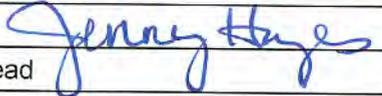
Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

**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

4705102092

Hazlett Unit #01H - MARC - BATCH 1 MLS - FINAL

QLS NO	% Owned	Plat 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	Nelsen, 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	-	-	-	-
934442	6.25%	2	13-0012-0049-0003-0000	Yoho, Donald Boyd	Chevron U.S.A. Inc.	0.18	854/74	-	-	-	-
934443	6.25%	2	13-0012-0049-0003-0000	Mease, Kelly Ann	Chevron U.S.A. Inc.	0.18	859/86	-	-	-	-
934444	12.50%	2	13-0012-0049-0003-0000	Nelsen, Zane Edward	Chevron U.S.A. Inc.	0.18	848/632	-	-	-	-
934837	12.50%	2	13-0012-0049-0003-0000	Baker, Nancy A.	Chevron U.S.A. Inc.	0.18	911/615	-	-	-	-
934842	4.17%	2	13-0012-0049-0003-0000	McCracken, Larry John	Chevron U.S.A. Inc.	0.18	848/581	-	-	-	-
934843	4.17%	2	13-0012-0049-0003-0000	McCracken, Patricia Ann	Chevron U.S.A. Inc.	0.18	848/586	-	-	-	-
934846	4.17%	2	13-0012-0049-0003-0000	McCracken, Robert Jay	Chevron U.S.A. Inc.	0.18	848/591	-	-	-	-
951834	50.00%	2	13-0012-0049-0003-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	948/149	-	-	-	-
867623	100.00%	3	13-0012-0050-0004-0000	Otte, Mark D. et ux	Chevron U.S.A. Inc.	0.1875	948/152	-	-	-	-
934990	100.00%	4	13-0012-0050-0006-0000	Kidney, Timmi L.	Chevron U.S.A. Inc.	0.18	848/496	-	-	-	-
946707	50.00%	5	13-0012-0050-0007-0000	Leach, Charles L. Jr.	TH Exploration, LLC	0.18	866/306	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
946758	50.00%	5	13-0012-0050-0007-0000	Leonard, Sheree f/k/a Sheree L. Leach	TH Exploration, LLC	0.18	867/578	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
936681	50.00%	6	13-0012-0028-0000-0000	Otte, Michael et al	Chevron U.S.A. Inc.	0.18	865/165	-	-	-	-
936807	50.00%	6	13-0012-0028-0000-0000	Key, Gladys Elizabeth	Chevron U.S.A. Inc.	0.18	863/565	-	-	-	-
951844	100.00%	7	13-0012-0032-0000-0000	Otte, Hubert C. et ux	Chevron U.S.A. Inc.	0.1875	939/127	-	-	-	-
866506	100.00%	8	13-0012-0031-0000-0000	Otte, Hubert And Jane	TriEnergy, Inc.	0.125	656/619	19/623 TriEnergy, Inc. to AB Resources LLC	24/319 AB Resources LLC to Chief Exploration & Development, LLC & Radler 2000 Limited Partnership.	25/105 Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources LLC to Chevron U.S.A. Inc.
951846	100.00%	9	13-0012-0030-0000-0000	Otte, Michael Paul et ux	Chevron U.S.A. Inc.	0.1875	935/151	-	-	-	-
866506	100.00%	10	13-0012-0029-0000-0000	Otte, Hubert And Jane	TriEnergy, Inc.	0.125	656/619	19/623 TriEnergy, Inc. to AB Resources LLC	24/319 AB Resources LLC to Chief Exploration & Development, LLC & Radler 2000 Limited Partnership.	25/105 Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources LLC to Chevron U.S.A. Inc.
951844	33.20%	10	13-0012-0029-0000-0000	Otte, Hubert C. et ux	Chevron U.S.A. Inc.	0.1875	939/127	-	-	-	-
935093	100.00%	11	13-0011-0062-0000-0000	Yanen, John R.	Chevron U.S.A. Inc.	0.18	852/372	-	-	-	-
921135	100.00%	12	13-0011-0064-0000-0000	Helms, William E. et ux	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	708/550	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.	-
921203	100.00%	13	13-0011-0063-0000-0000	Braultgan, Frederick L. et ux	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	716.571	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.	-

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Hazlett Unit #01H - MARC - BATCH 1 MLS - FINAL											
QLS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
921433	4.17%	14	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%	14	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%	14	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%	14	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%	14	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%	14	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.	
921439	1.56%	14	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%	14	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%	14	13-0011-0010-0000-0000	Barnard, 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%	14	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%	14	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.	

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Hazlett Unit #01H - MARC - BATCH 1 MLS - FINAL											
QLS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
921444	1.56%	14	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%	14	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%	14	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%	14	13-0011-0010-0000-0000	Gerevics, 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%	14	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%	14	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%	14	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%	14	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.	-
921452	6.25%	14	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%	14	13-0011-0010-0000-0000	Fisher, Merle F.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	747/132	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%	14	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.	-

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Hazlett Unit #01H - MARC - BATCH 1 MLS - FINAL											
QLS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
921455	6.25%	14	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%	14	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.	
949686	33.33%	15	13-0006-0055-0004-0000	Chavanak, Paul Fred	Chevron U.S.A. Inc.	0.17	911/606	-	-	-	-
949687	33.33%	15	13-0006-0055-0004-0000	Chavanak, John Robert	Chevron U.S.A. Inc.	0.17	911/600	-	-	-	-
949688	33.33%	15	13-0006-0055-0004-0000	Jones, Minnie L.	Chevron U.S.A. Inc.	0.17	911/603	-	-	-	-
950320	100.00%	16	13-0006-0056-0000-0000	Loy, Stephen G. et al	Chevron U.S.A. Inc.	0.17	912/436	-	-	-	-
Pending	16.67%	16	13-0006-0056-0000-0000	Allen, Joan L.	Chevron U.S.A. Inc.	0.15	967/456	-	-	-	-
Pending	8.33%	16	13-0006-0056-0000-0000	Monroe, Raymond Monroe Jr.	Chevron U.S.A. Inc.	0.15	959/568	-	-	-	-
Pending	8.33%	16	13-0006-0056-0000-0000	Jones, Bruce H.	Chevron U.S.A. Inc.	0.15	959/565	-	-	-	-
Pending	3.57%	16	13-0006-0056-0000-0000	Jenkins, Amy M.	Chevron U.S.A. Inc.	0.20	966/265	-	-	-	-
Pending	3.57%	16	13-0006-0056-0000-0000	Shofkom, Diane M.	Chevron U.S.A. Inc.	0.20	966/268	-	-	-	-
Pending	1.43%	16	13-0006-0056-0000-0000	Ditty, Kelli Lynn f/k/a Stovall	Chevron U.S.A. Inc.	0.20	966/283	-	-	-	-
Pending	1.43%	16	13-0006-0056-0000-0000	Stoval, Ronald Scott	Chevron U.S.A. Inc.	0.20	966/280	-	-	-	-
Pending	1.43%	16	13-0006-0056-0000-0000	Clark, Tabitha	Chevron U.S.A. Inc.	0.20	966/277	-	-	-	-
Pending	1.43%	16	13-0006-0056-0000-0000	McMechen, Jana	Chevron U.S.A. Inc.	0.20	966/326	-	-	-	-
Pending	1.43%	16	13-0006-0056-0000-0000	McMechen, Benson Benjamin	Chevron U.S.A. Inc.	0.20	966/302	-	-	-	-
Pending	7.14%	16	13-0006-0056-0000-0000	Hixson, Janie M.	Chevron U.S.A. Inc.	0.20	966/299	-	-	-	-
Pending	7.14%	16	13-0006-0056-0000-0000	Hixson, Harry M.	Chevron U.S.A. Inc.	0.20	966/286	-	-	-	-
Pending	7.14%	16	13-0006-0056-0000-0000	Gore, Stacy f/k/a Hixson	Chevron U.S.A. Inc.	0.20	966/311	-	-	-	-
Pending	7.14%	16	13-0006-0056-0000-0000	McMechen, Sean E.	Chevron U.S.A. Inc.	0.20	966/314	-	-	-	-
Pending	7.14%	16	13-0006-0056-0000-0000	Gordon, Wendy	Chevron U.S.A. Inc.	0.20	966/271	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Hinerman, Richard Scott	Chevron U.S.A. Inc.	0.20	966/317	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Klug, Katherine Hinerman f/k/a Katherine Fluty Hinerman	Chevron U.S.A. Inc.	0.20	966/230	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Hinerman, William Scott	Chevron U.S.A. Inc.	0.20	966/289	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Hayne, Hannah f/k/a McMechen	Chevron U.S.A. Inc.	0.20	966/262	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Gordon, Abigail Sanders	Chevron U.S.A. Inc.	0.20	966/323	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Gualtieri, Deborah O.	Chevron U.S.A. Inc.	0.20	966/274	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Henage, Corene K.	Chevron U.S.A. Inc.	0.20	966/305	-	-	-	-
Pending		16	13-0006-0056-0000-0000	Kelleher, Cristy K.	Chevron U.S.A. Inc.	0.20	966/308	-	-	-	-
921381	100.00%	17	13-0006-0056-0001-0000	City of McMechen West Virginia, a Municipal Corporation	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	737/16	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.	
Pending	16.67%	17	13-0006-0056-0001-0000	Allen, Joan L.	Chevron U.S.A. Inc.	0.15	967/456	-	-	-	-
Pending	8.33%	17	13-0006-0056-0001-0000	Monroe, Raymond Monroe Jr.	Chevron U.S.A. Inc.	0.15	959/568	-	-	-	-
Pending	8.33%	17	13-0006-0056-0001-0000	Jones, Bruce H.	Chevron U.S.A. Inc.	0.15	959/565	-	-	-	-
Pending	3.57%	17	13-0006-0056-0001-0000	Jenkins, Amy M.	Chevron U.S.A. Inc.	0.20	966/265	-	-	-	-
Pending	3.57%	17	13-0006-0056-0001-0000	Shofkom, Diane M.	Chevron U.S.A. Inc.	0.20	966/268	-	-	-	-
Pending	1.43%	17	13-0006-0056-0001-0000	Ditty, Kelli Lynn f/k/a Stovall	Chevron U.S.A. Inc.	0.20	966/283	-	-	-	-
Pending	1.43%	17	13-0006-0056-0001-0000	Stoval, Ronald Scott	Chevron U.S.A. Inc.	0.20	966/280	-	-	-	-
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Hazlett Unit #01H - MARC - BATCH 1 MLS - FINAL

QLS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
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Pending	7.14%	17	13-0006-0056-0001-0000	Hixson, Harry M.	Chevron U.S.A. Inc.	0.20	966/286	-	-	-	-
Pending	7.14%	17	13-0006-0056-0001-0000	Gore, Stacy f/k/a Hixson	Chevron U.S.A. Inc.	0.20	966/311	-	-	-	-
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Pending		17	13-0006-0056-0001-0000	Klug, Katherine Hinerman f/k/a Katherine Fluty Hinerman	Chevron U.S.A. Inc.	0.20	966/230	-	-	-	-
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Pending		17	13-0006-0056-0001-0000	Hayne, Hannah f/k/a McMechen	Chevron U.S.A. Inc.	0.20	966/262	-	-	-	-
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Pending	16.67%	18	13-0006-0061-0000-0000	Allen, Joan L.	Chevron U.S.A. Inc.	0.15	967/456	-	-	-	-
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Pending	1.43%	18	13-0006-0061-0000-0000	Clark, Tabitha	Chevron U.S.A. Inc.	0.20	966/277	-	-	-	-
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Hazlett Unit #01H - MARC - BATCH 1 MLS - FINAL											
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Mitchell G. Limbert
Land Representative, AMBU

June 4, 2018

West Virginia D.E.P.
Office of Oil & Gas
601 57th 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 L".

Mitchell G. Limbert
Land Representative

**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. M01H
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: _____
County: <u>Marshall</u>		Northing: _____
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 type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input 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		OOG OFFICE USE ONLY <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
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Required Attachments:

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

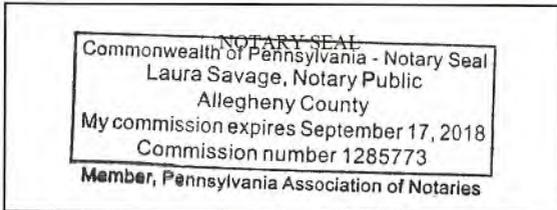
4705102092

Certification of Notice is hereby given:

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

Well Operator: Chevron Appalachia, LLC
By: Jenny Hayes
Its: Permitting Team Lead
Telephone: 412-865-1533

Address: 700 Cherrington Parkway
Coraopolis, PA 15108
Facsimile: 412-865-2403
Email: JZYK@chevron.com



Jenny Hayes 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

Oil and Gas Privacy Notice:

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

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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: 8/2/18
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

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

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

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

COAL OPERATOR
Name: _____
Address: _____

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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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 57th 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- _____ - _____
OPERATOR WELL NO. M01H
Well Pad Name: Hazlett

4705 + 02092

Notice is hereby given by:

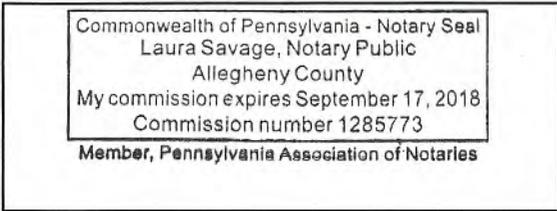
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: jzyk@chevron.com

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

Oil and Gas Privacy Notice:

Jenny Hays

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.



*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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Environmental Protection

Attachment to WW-6A

API No. 47- _____ - _____

OPERATOR WELL NO. M01H

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:

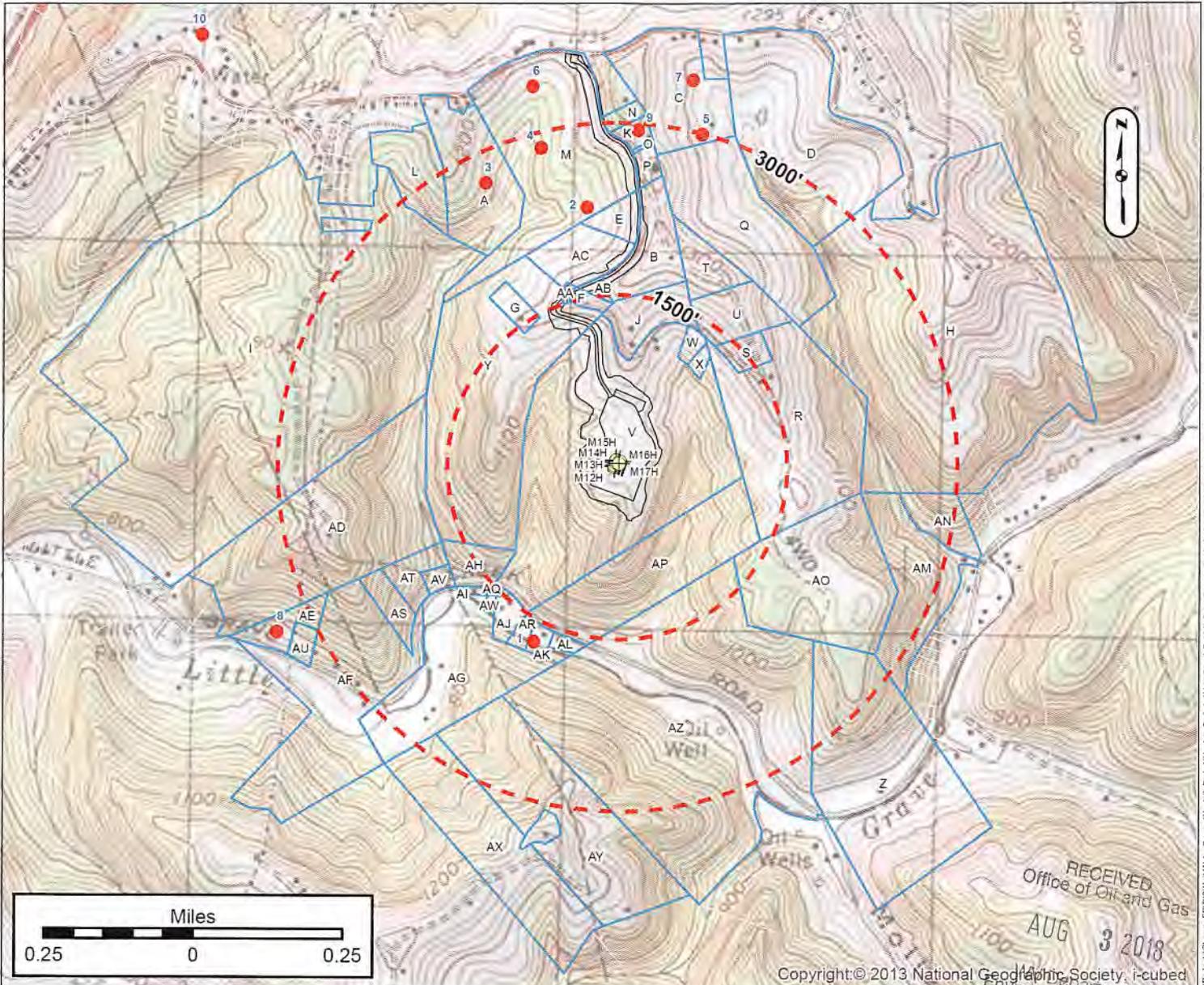
SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
 Name:
 Address:

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 Environmental Protection



WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #2

4705 + 02092



LOT OWNERS

Label	Owner	TM	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	AD	OTTE HUBERT C ET AL	25-13 12004300000000
B	OTTE MARK DOUGLAS ET UX	25-13 12005000040000	D	OTTE HUBERT CHAS & JANE E	25-13 12003200010000	AC	KIDNEY JARROD S & TIMMI L	25-13 12005000060000	AP	HAZLETT IRENE - LIFE	25-13 12004700000000
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	AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000
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 10016000020000	AR	RHODES LISA & NORMAN L	25-13 12004800040000
E	LEACH CHARLES L JR	25-13 12005000070000	R	GLENDALE CITY OF	25-13 12004400000000	AF	YODER ELI A ET AL	25-14 10016000030000	AS	YODER ELI A ET AL	25-14 10016000100000
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	AT	YODER ELI A ET AL	25-14 10016000200000
G	KIDNEY JARROD S & TIMMI L	25-13 12005000080000	T	HAZLETT IRENE - LIFE	25-13 12004600000000	AH	SPRINGER BARBARA K	25-13 12005000010000	AU	NGUYEN LAMSON N ET UX	25-14 10016000300000
H	KURELAC PATRICIA A	25-13 12003600000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 12004600010000	AI	VOELLINGER JOHN & LORI	25-13 12005000090000	AV	SPRINGER BARBARA K	25-14 10016000500000
I	REILLY JOHN WILLIAM III ET AL	25-13 12001400000000	V	HAZLETT IRENE - LIFE	25-13 12004900000000	AJ	LINZY LINDA A	25-13 12004800020000	AW	LINZY LINDA A	25-14 10017000100000
J	HAZLETT FLORENCE IRENE - LIFE	25-13 12004900030000	W	HAZLETT MICHAEL C - LIFE	25-13 12004900010000	AK	VICKERS MARY E EST	25-13 12004800000000	AX	MARSHALL COUNTY PARK & REC	25-14 20008000000000
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 12004800030000	AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
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	AZ	OTTE HUBERT C ET AL	25-14 30002000000000
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	Z	OTTE HUBERT C ET AL	25-14 80003000000000

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
GROUNDWATER & ENVIRONMENTAL
 Surveyor: SERVICES, INC.
 Address: 301 COMMERCE PARK DR
CRANBERRY TOWNSHIP, PA 16066
 Phone: 800-267-2549

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

L:\Project\Chevron\EP\GIS\Water\Source\Hazlett_Pad_A\Hazlett_Pad_A_WaterSupply\cubed_batch2.mxd - Scale 1:15,840 - 5/7/2018 9:59:47 AM - GSIwater - NAD 1983 StatePlane West Virginia North FIPS 4701 Feet

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 AUG 3 2018
 West Virginia Department of Environmental Protection

**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:** 8/2/18

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>524131.364</u>
County:	<u>Marshall</u>		Northing:	<u>4423450.258</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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 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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WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

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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:** 8/2/18

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: West Virginia UTM NAD 83 Easting: 524131.364
County: Marshall Northing: 4423450.258
District: Union Public Road Access: CR 10 Markey Lane
Quadrangle: Moundsville, WV 7.5' Generally used farm name: Hazlett
Watershed: Short Creek - Ohio River

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 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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Environmental Protection

Oil and Gas Privacy Notice:

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

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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:** 8/2/18

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:

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville, WV 7.5'
Watershed: Short Creek - Ohio River

UTM NAD 83 Easting: 524131.364
Northing: 4423450.258
Public Road Access: CR 10 Markey Road
Generally used farm name: Hazlett

This Notice Shall Include:

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

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

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

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Office of Oil and Gas
AUG 3 2018
WV Department of
Environmental Protection

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.

4705702092

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>524131.364</u>
County:	<u>Marshall</u>		Northing:	<u>4423450.258</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.

*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: Irene Hazlett
Print Name: Irene Hazlett
Date: 7-11-18

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

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 services. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as required to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will take reasonable steps to protect and securely store your personal information. If you have any questions about our use of your personal information, please contact our Chief Privacy Officer at depprivacyofficer@wv.gov.

4705102092

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

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VOLUNTARY STATEMENT OF NO OBJECTION

I, 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>524131.364</u>
County:	<u>Marshall</u>		Northing:	<u>4423450.258</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.

*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: Loretta K. Wallace
Print Name: Loretta K. Wallace
Date: June 24, 2018

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

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Office of Oil and Gas

AUG 3 2018

WV Department of
Environmental Protection

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.

WW-6AW
(1-12)

API NO. 47- _____ - _____
OPERATOR WELL NO. M01H
Well Pad Name Hazlett # 4705 02092

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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Comment and Waiver Provisions

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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: 524131.364
County: Marshall Northing: 4423450.258
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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CONSOL Energy</u></p> <p>By: <u>Casey V. Saunders</u></p> <p>Its: <u>Manager Coal/Gas Coordination</u></p> <p>Signature: <u>Casey V. Saunders</u></p> <p>Date: <u>02/23/2018</u></p> <p style="text-align: right;">RECEIVED Office of Oil and Gas AUG 3 2018 WV Department of Environmental Protection</p>
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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.



4705 + 02092

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

Jill M. Newman
Deputy Commissioner

June 13, 2018

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

Subject: DOH Permit for the Hazlett Pad A Well Site, Marshall County
Hazlett A Unit 1H

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

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Office of Oil and Gas

AUG 3 2018

WV Department of
Environmental Protection

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

4705 * 02092

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 3 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
CORAOPLIS, PA 15108

CONSULTANTS
CML & ENVIRONMENTAL CONSULTANTS, INC.
4000 TRIANGLE LANE, SUITE 200
EXPORT, PA 15632
PHONE: 724-327-5200
CML/SITE ENGINEER CONTACT: JOSHUA A. MAGARTEE
EMAIL ADDRESS: jmagartee@cmlinc.com
GEO-TECHNICAL ENGINEER CONTACT: AARON W. LAWACE
EMAIL ADDRESS: alawace@cmlinc.com

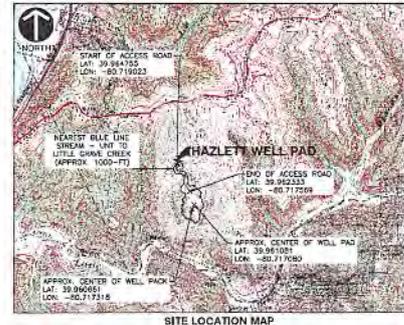
SITE COORDINATES AND WATERSHED
START OF ACCESS ROAD
LATITUDE: 39.954750° N, LONGITUDE: 80.719023° W
END OF ACCESS ROAD
LATITUDE: 39.952333° N, LONGITUDE: 80.717569° W
APPROXIMATE CENTER OF WELL PAD
LATITUDE: 39.951091° N, LONGITUDE: 80.717087° W
APPROXIMATE CENTER OF WELL PAD
LATITUDE: 39.950691° N, LONGITUDE: 80.717319° W
*BASED ON NAD 83, WEST VIRGINIA NORTH ZONE

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

STREAM AND WETLAND PERMANENT IMPACTS (SUBJECT TO USACE NATIONWIDE PERMIT 39)
UNIT 2 TO LITTLE GRAVE CREEK (EPH) = 72 LF
UNIT 3 TO LITTLE GRAVE CREEK (EPH) = 170 LF
UNIT 4 TO LITTLE GRAVE CREEK (EPH) = 56 LF
WETLAND 1A (PEM) = 0.008 AC
WETLAND 1B (PEM) = 0.009 AC
WETLAND 2 (PEM) = 0.002 AC
WETLAND 3A (PEM) = 0.076 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) = 53 LF FROM LOD
WETLAND 4 (PEM) = 1 LF FROM LOD

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CML & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 05/11/2017 TO 05/23/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CML & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/29/2017 TO 03/20/2017 AND 05/23/2017 TO 05/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LIDAR, DATED 2003.
 4. BACKGROUND AERIAL IMAGE FROM GOOGLE EARTH PRO, DATED 2015.
 5. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

Wellhead No.	Northing	Easting	Latitude (North)	Longitude (West)
M014	534094.0077	1527243.0453	39.950891	80.717459
M024	534300.5995	1527237.5509	39.950812	80.717477
M034	534326.4959	1527232.8565	39.950733	80.717494
M044	534352.3923	1527227.7621	39.950654	80.717512
M054	534378.2887	1527222.6677	39.950575	80.717529
M064	534404.1851	1527217.5733	39.950496	80.717547
M074	534430.0815	1527212.4789	39.950417	80.717564
M084	534455.9779	1527207.3845	39.950338	80.717582
M094	534481.8743	1527202.2901	39.950259	80.717600
M104	534507.7707	1527197.1957	39.950180	80.717617
M114	534533.6671	1527192.1013	39.950101	80.717635
M124	534559.5635	1527187.0069	39.950022	80.717652
M134	534585.4599	1527181.9125	39.949943	80.717670
M144	534611.3563	1527176.8181	39.949864	80.717687
M154	534637.2527	1527171.7237	39.949785	80.717705
M164	534663.1491	1527166.6293	39.949706	80.717722
M174	534689.0455	1527161.5349	39.949627	80.717740
M184	534714.9419	1527156.4405	39.949548	80.717757
M194	534740.8383	1527151.3461	39.949469	80.717775
M204	534766.7347	1527146.2517	39.949390	80.717792
M214	534792.6311	1527141.1573	39.949311	80.717810
M224	534818.5275	1527136.0629	39.949232	80.717827
M234	534844.4239	1527130.9685	39.949153	80.717845
M244	534870.3203	1527125.8741	39.949074	80.717862
M254	534896.2167	1527120.7797	39.949000	80.717880
M264	534922.1131	1527115.6853	39.948921	80.717897
M274	534948.0095	1527110.5909	39.948842	80.717915
M284	534973.9059	1527105.4965	39.948763	80.717932
M294	535000.0023	1527100.4021	39.948684	80.717950
M304	535026.0987	1527095.3077	39.948605	80.717967
M314	535052.1951	1527090.2133	39.948526	80.717985
M324	535078.2915	1527085.1189	39.948447	80.718002
M334	535104.3879	1527080.0245	39.948368	80.718020
M344	535130.4843	1527074.9301	39.948289	80.718037
M354	535156.5807	1527069.8357	39.948210	80.718055
M364	535182.6771	1527064.7413	39.948131	80.718072
M374	535208.7735	1527059.6469	39.948052	80.718090
M384	535234.8699	1527054.5525	39.947973	80.718107
M394	535260.9663	1527049.4581	39.947894	80.718125
M404	535287.0627	1527044.3637	39.947815	80.718142
M414	535313.1591	1527039.2693	39.947736	80.718160
M424	535339.2555	1527034.1749	39.947657	80.718177
M434	535365.3519	1527029.0805	39.947578	80.718195
M444	535391.4483	1527023.9861	39.947499	80.718212
M454	535417.5447	1527018.8917	39.947420	80.718230
M464	535443.6411	1527013.7973	39.947341	80.718247
M474	535469.7375	1527008.7029	39.947262	80.718265
M484	535495.8339	1527003.6085	39.947183	80.718282
M494	535521.9303	1527000.0000	39.947104	80.718300



REFERENCE
U.S.G.S. 7.5' TOPOGRAPHIC MAP, WOODSVILLE QUADRANGLE, 70-CH (DATE: 1984), PHOTOGRAPHIC: 1972 AND 1976.

SITE LIMITS OF DISTURBANCE (AC)	
WELL PAD	32.7
ACCESS ROAD	3.6
STOCKPILES	1.7
TOTAL AREA	38.0
WOODED AREA DISTURBED	2.7
LIMIT OF DISTURBANCE IMPACTS (NOW/FORMER LANDOWNERS) (AC)	
IMPACTS TO FLORENCE RENE HAZLETT (AC)	
WELL PAD	32.7
ACCESS ROAD	2.3
STOCKPILES	1.7
TOTAL AREA	36.7
WOODED AREA DISTURBED	2.4
IMPACTS TO TIMOTHY J. CAUSSE (AC) (MULTIPLE PARCELS)	
WELL PAD	0.0
ACCESS ROAD	0.2
STOCKPILES	0.2
TOTAL AREA	0.2
WOODED AREA DISTURBED	0.3
IMPACTS TO JARROLD L. TIMM RIDEWY (AC)	
WELL PAD	0.0
ACCESS ROAD	0.1
STOCKPILES	0.0
TOTAL AREA	0.1
WOODED AREA DISTURBED	0.0

DWG NO.	SHEET TITLE	INCLUDED	LAST REVISED
CS 000	COVER SHEET	X	11/01/2018
ES 000	EXISTING TOPOGRAPHIC PLAN	X	11/01/2018
ES 100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	X	11/01/2018
ES 101	EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)	X	11/01/2018
ES 102	EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)	X	11/01/2018
ES 103	STOCKPILE CROSS-SECTIONS	X	11/01/2018
ES 104	WELL PAD PLAN VIEW	X	11/01/2018
ES 105	WELL PAD CROSS-SECTIONS	X	11/01/2018
ES 106	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 6)	X	11/01/2018
ES 107	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 6)	X	11/01/2018
ES 108	EROSION AND SEDIMENT CONTROL DETAILS (3 OF 6)	X	11/01/2018
ES 109	EROSION AND SEDIMENT CONTROL DETAILS (4 OF 6)	X	11/01/2018
ES 110	EROSION AND SEDIMENT CONTROL DETAILS (5 OF 6)	X	11/01/2018
ES 111	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 6)	X	11/01/2018
ES 112	ACCESS ROAD PLAN AND PROFILE	X	11/01/2018
ES 113	ACCESS ROAD CROSS-SECTIONS (1 OF 2)	X	11/01/2018
ES 114	ACCESS ROAD CROSS-SECTIONS (2 OF 2)	X	11/01/2018
GE 500	GEO-TECHNICAL SUBSURFACE SUMMARY	X	11/01/2018
GE 501	GEO-TECHNICAL SITE PLAN WITH 2003 AERIAL	X	11/01/2018
GE 502	STOCKPILES	X	11/01/2018
GE 503	GEO-TECHNICAL SITE PLAN WITH 2003 AERIAL	X	11/01/2018
GE 504	CROSS SECTIONS	X	11/01/2018
GE 505	GEO-TECHNICAL TABLES AND NOTES	X	11/01/2018
GE 506	GEO-TECHNICAL DETAILS	X	11/01/2018
PC 600	WELL PAD	X	11/01/2018
PC 601	POST-CONSTRUCTION RECLAMATION PLAN	X	11/01/2018
PC 602	POST-CONSTRUCTION RECLAMATION DETAILS	X	11/01/2018

LEGEND

	EXISTING PROPERTY LINE		PROPOSED EDGE OF ACCESS ROAD		PROPOSED INDEX CONTOUR		EXISTING CHANNEL (TO BE UTILIZED)
	EXISTING INTERMEDIATE CONTOUR		PROPOSED LIMIT OF DISTURBANCE		PROPOSED INTERMEDIATE CONTOUR		PROPOSED STORMWATER CULVERT
	EXISTING PAVED ROADWAY		PROPOSED WELL HEAD AND CELLAR		PROPOSED WELL PAD CUT/FILL LINE		PROPOSED INLET
	EXISTING UNPAVED ROADWAY		PROPOSED CONTAINMENT BERM		PROPOSED SPOT ELEVATION		PROPOSED BYPASS APRON
	EXISTING WATERLINE		PROPOSED GRAVEL		PROPOSED ROCK CONSTRUCTION FENCE		PROPOSED UNDERDRAIN
	EXISTING TELECOMMUNICATIONS LINE		PROPOSED ASPHALT PAVEMENT		PROPOSED ROCK CONSTRUCTION ENTRANCE		PROPOSED INLET PROTECTION
	EXISTING OVERHEAD ELECTRIC LINE				PROPOSED EROSION CONTROL BLANKET		
	EXISTING UNDERGROUND ELECTRIC LINE						
	EXISTING STORMWATER CULVERT						
	EXISTING FENCE						
	EXISTING STREAM						
	EXISTING WETLAND						
	EXISTING TREE LINE						
	EXISTING STRUCTURE						
	EXISTING UTILITY POLE						
	EXISTING WATER METER						
	EXISTING WATER MANHOLE						
	EXISTING GAS WELL						

MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
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CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY
CORAOPLIS, PA 15108

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

COVER SHEET

Project Number: 14100
Drawing Scale: 1"=200'
Date Issued: 11/01/2018
Index Number:
Drawn By: JDS
Checked By: JAM
Project Manager: MJC

CS 000

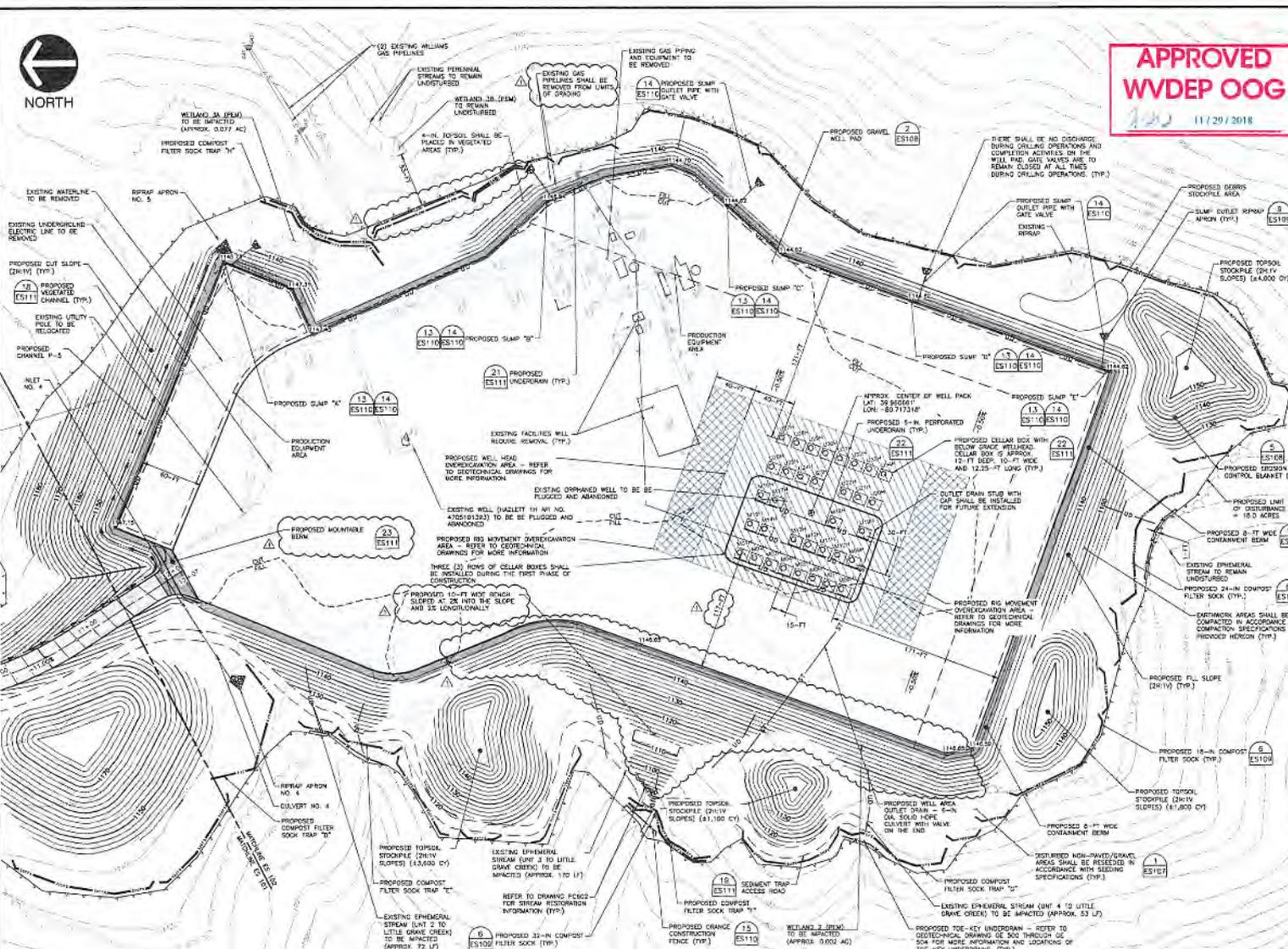


APPROVED WVDEP OOG
11/29/2018

- LEGEND**
- EXISTING WOOD RIGHT-OF-WAY
 - EXISTING PROPERTY LINE
 - EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING PAVED HIGHWAY
 - EXISTING UNPAVED HIGHWAY
 - 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 TREELINE
 - EXISTING REPAIR
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - EXISTING WATER METER
 - EXISTING WATER MANHOLE
 - EXISTING GAS WELL
 - EXISTING EDGE OF ACCESS ROAD
 - PROPOSED WELL HEAD AND CELLAR
 - PROPOSED CONTAINMENT BEAM
 - PROPOSED GRAVEL
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED WELL PAD CUT/FILL LINE
 - PROPOSED SPOT ELEVATION
 - PROPOSED 18-IN COMPOST FILTER SOCK
 - PROPOSED 24-IN COMPOST FILTER SOCK
 - PROPOSED 24-IN COMPOSITE FILTER SOCK
 - PROPOSED ORANGE CONSTRUCTION FENCE
 - PROPOSED ROCK CONSTRUCTION ENTRANCE
 - PROPOSED HULL PROTECTION
 - PROPOSED EROSION CONTROL BLANKET
 - EXISTING CHANNEL (TO BE UTILIZED)
 - PROPOSED CHANNEL
 - PROPOSED STORMWATER CULVERT
 - PROPOSED WELLET
 - PROPOSED REPAIR APRON
 - PROPOSED UNDERDRAIN
 - CIRCULAR NUMBER
 - DRAWING DESIGNATION

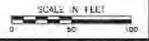
- STREAM AND WETLAND NOTES**
- WETLAND HAZARDS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE: WETLANDS 1A, 2A, 3A AND 4. NOTE: WETLANDS 1A AND 2A CROSS THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY AFFRATED.
 - THE FOLLOWING FOUR (4) WETLANDS AND (3) EPHEMERAL STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE NATIONAL DECISION PROCESS FOR PERMANENT IMPACTS: WETLANDS 1A, 2A, 3A AND 4. NOTE: WETLANDS 1A AND 2A ARE PARTIALLY PERMANENTLY AFFRATED.
 - THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT. AS SUCH, A WADSWORTH IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
 - CHANGING SOILS FROM AREAS LOCATED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
- PLACE SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH DRUMS 18 TO 24 INCHES IN DIAMETER. COMPACTION LIFTS NOT EXCEEDING 12 INCHES THICK. USE A REDUCED LOOSE LIFT THICKNESS OF 4 INCHES THICK FOR ALL AREAS WHERE STEEL-PLATE TRAMMERS OR OTHER HAND-OPERATED COMPACTIONERS ARE BEING USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 6 INCHES IN STRUCTURAL FILL AREAS WHERE HEAVY, SELF-PROPELLED COMPACTIONERS ARE UTILIZED. A REDUCED MAXIMUM PARTICLE SIZE OF 3 INCHES SHOULD BE USED IN AREAS WHERE HAND-OPERATED COMPACTIONERS ARE USED. WASTE DISTURBED MATERIALS (EXISTING FILL, MAXIMUM PARTICLE SIZE INDICATED ABOVE) OUTSIDE OF THE PROPOSED FILL AREAS FOR ALL DEEPER AREAS OF FILL. EXISTING FILL PARTICLES (I.E. MATERIALS EXCEEDING 6 INCHES) PLACED IN THE SOIL FILL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 24 INCHES. LIFTS SHOULD BE COMPACTIONED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
- COMPACT ALL PAD AND ROADWAY SUBBASES AND EACH LIFT OF FILL MATERIALS TO A MINIMUM OF 95 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 D698 (STANDARD PROCTOR).



- REFERENCES**
- STREAMS AND ATRIANES (DELIMITED BY CML & ENVIRONMENTAL CONSULTANTS, INC. DATED 06/23/2017).
 - UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 05/17/2017 TO 05/23/2017.
 - CONTOURS WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CML & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 03/30/2017 AND 05/23/2017 TO 06/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LIBRAR, CATED 2004.
 - PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

MISS UTILITY OF WEST VIRGINIA
1-800-245-4648
West Virginia State Law
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IT'S THE LAW



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HAZLETT WELL PAD
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MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR:
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DORAPOLIS, PA 15108

EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)

Project Number: 164.755
Drawing Scale: 1"=50'
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