



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 M03H
47-051-02094-00-00

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 M03H
Farm Name: IRENE HAZLETT - LIFE
U.S. WELL NUMBER: 47-051-02094-00-00
Horizontal 6A New Drill
Date Issued: 11/30/2018

PERMIT CONDITIONS 4705102094

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 4705102094

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:

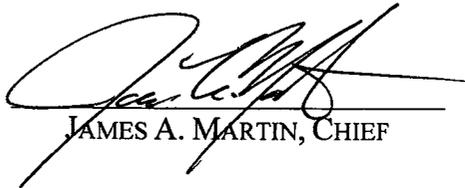
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment 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; ^h
- Wetland 3A – 0 linear feet;
- Wetland 3B – 53 linear feet; and
- Wetland 4 – 1 linear foot. ^x

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.

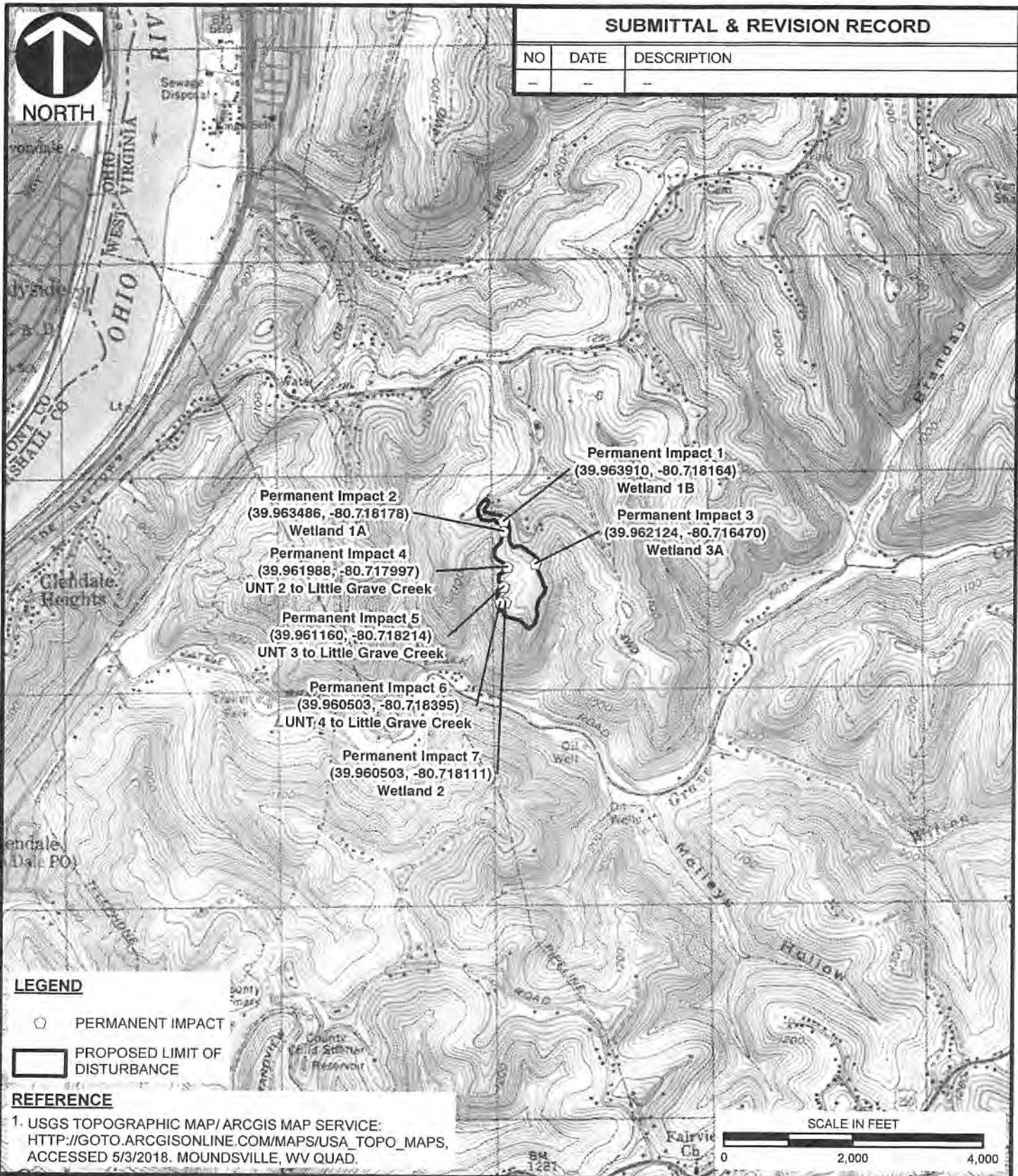
ATTACHMENT B

FIGURES



SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
-	-	-



LEGEND

- PERMANENT IMPACT
- ▭ PROPOSED LIMIT OF DISTURBANCE

REFERENCE

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



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 www.cecinc.com

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

SITE LOCATION MAP

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

P:\2018\164-755-GIS\Maps\EC05_NWP\164755_EC05_FIG_1_SITE_LOC_MAP.mxd 5/3/2018 8:33 AM (kcolajizi)



REVISION RECORD	
NO.	DATE
SUBMITTAL RECORD	
NO.	DATE



LEGEND

- PERMANENT STREAM IMPACT
- PROPOSED WETLAND IMPACT
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- W/AND STREAM
- WETLAND CONTINUES BEYOND DELINEATION BOUNDARY
- PROPOSED WETLAND IMPACT
- WETLAND - PSM
- WETLAND - PSS
- PROPOSED LIMIT OF DISTURBANCE
- DELINEATION BOUNDARY
- INDEX/CONTOUR

REFERENCES

- USGS NATIONAL HYDROGRAPHY DATASET FOR WEST VIRGINIA, 2012
- FGIS CLEARING HOUSE, WF CONTOURS, MORGANTHAU, WV QUAD, 2005
- ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: [HTTP://WWW.ARCGIS.COM/HOME/WWWORLD_IMAGERY](http://www.arcgis.com/home/world), ACCESSED 5/5/2016, IMAGERY DATE: 2015

NOTES

- THE WETLAND AND STREAM DELINEATION WAS CONDUCTED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON 05/23/2017.
- CIVIL & ENVIRONMENTAL CONSULTANTS, INC. CONDUCTED THE WETLAND DELINEATION IN A MANNER CONDUCTED 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 Piedmont Region, Version 2.0 (2012 REGIONAL SUPPLEMENT), AND WITH THE LEVEL OF CARE AND SKILL ORDINARILY EXERCISED BY MEMBERS OF THE ENVIRONMENTAL CONSULTING PROFESSION PRACTICING CONTEMPORANEOUSLY AND SIMILAR CONDITIONS IN THE LOCALITY OF THE PROJECT. IT MUST BE RECOGNIZED THAT 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 DRAINAGE, AND OTHER HUMAN ACTIVITIES AND/OR LAND DISTURBANCES.

SCALE IN FEET

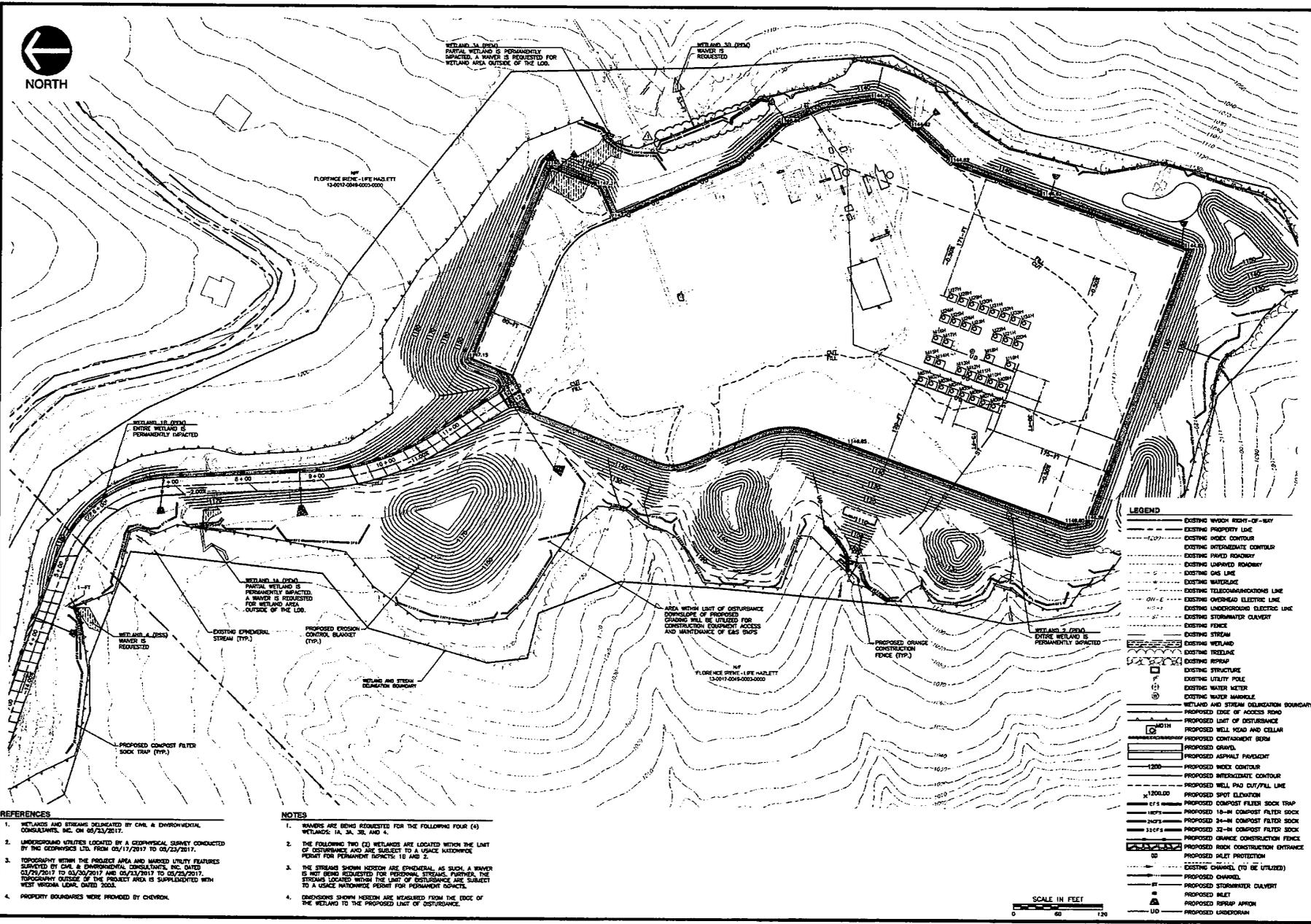
0 200 400 600 800

CEC
Civil & Environmental Consultants, Inc.
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**CHEVRON APPALACHIA, LLC
HAZLETT WELL PAD
UNION DISTRICT,
MARSHALL COUNTY, WEST VIRGINIA**

DESIGNED BY: KMC CHECKED BY: BWP APPROVED BY: PAR
DATE: 05/03/2018 SCALE: 1" = 200' PROJECT NO: 164-750
FIGURE NO: 2

AQUATIC IMPACTS MAP SHEET 1 OF 1

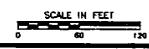


LEGEND

- EXISTING HIGHWAY RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING PAVED ROADWAY
- EXISTING UNPAVED ROADWAY
- EXISTING ONE LINE
- EXISTING WATERLAKE
- EXISTING TELECOMMUNICATIONS LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORMWATER CULVERT
- EXISTING FENCE
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING TIE/LAKE
- EXISTING RR/RAIL
- EXISTING STRUCTURE
- EXISTING UTILITY POLE
- EXISTING WATER METER
- EXISTING WATER MARCH/LE
- WETLAND AND STREAM DELINEATION BOUNDARY
- PROPOSED EDGE OF ACCESS ROAD
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED WELL HEAD AND CELLAR
- PROPOSED CONTAINMENT BERM
- PROPOSED BERM
- 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 BRIDGE CONSTRUCTION FENCE
- PROPOSED BRIDGE CONSTRUCTION ENTRANCE
- PROPOSED SILET PROTECTION
- EXISTING CHANNEL (TO BE UTILIZED)
- PROPOSED CHANNEL
- PROPOSED STORMWATER CULVERT
- PROPOSED SILET
- PROPOSED RR/RAIL APPROX
- PROPOSED UNDERDRAIN

- REFERENCES**
1. WETLANDS AND STREAMS DELINEATED BY CHEVRON ENVIRONMENTAL CONSULTANTS, INC. ON 05/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. FROM 05/17/2017 TO 05/25/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CHEVRON ENVIRONMENTAL CONSULTANTS, INC. DATED 05/05/2017 TO 05/20/2017 AND 05/23/2017 TO 05/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LEGAL DATED SOILS.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

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



CEE
 CHEVRON ENVIRONMENTAL CONSULTANTS, INC.
 4000 Triangle Lane, Suite 200 • Export, PA 15622
 724-377-2220 • 800-468-9410
 www.cee.com

REVISION RECORD

No.	Date	Description
1	05/23/17	ISSUE FOR PERMITS
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3		
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HAZZETT WELL PAD
 UNION DISTRICT
 COUNTY, WEST VIRGINIA
 PREPARED FOR:
CHEVRON APPALACHIA, LLC
 700 CHERINGTON PARKWAY
 SCARSDALE, PA 15086

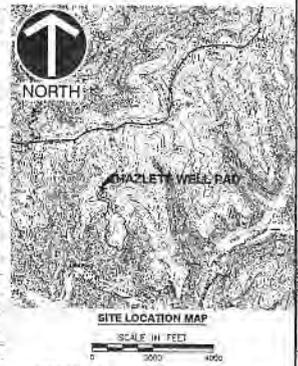
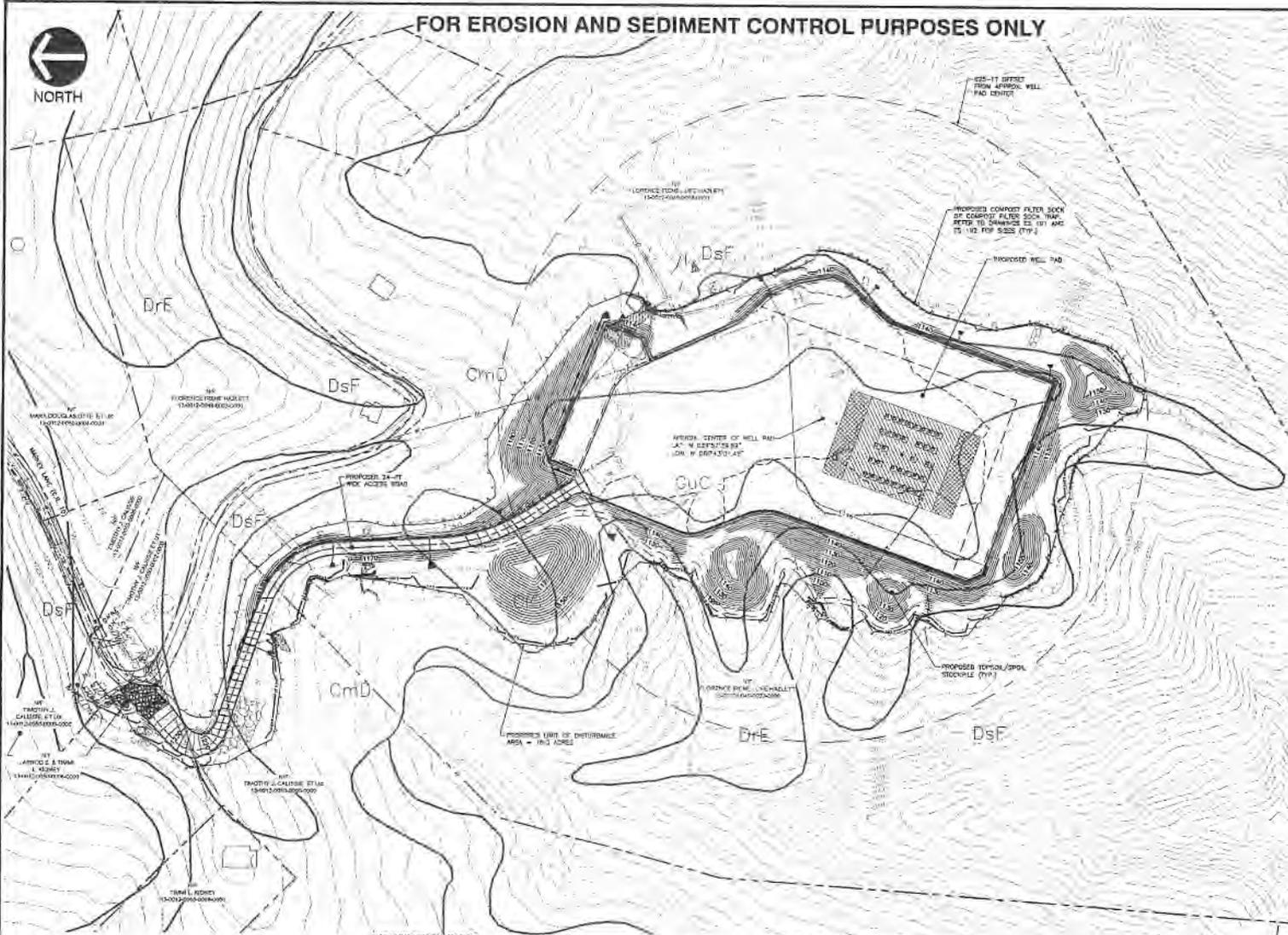
WETLAND WAIVER REQUEST FIGURE

Project Number:	154-735
Drawing Scale:	1"=100'
Date Issued:	05/23/17
Title Number:	
Drawn By:	RDB
Checked By:	WAG
Project Manager:	SAN

FIG. 3

ATTACHMENT C
EROSION AND SEDIMENT CONTROL PLAN

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



REFERENCE
U.S.S. 2.5 TOPOGRAPHIC MAP, MOUNDSVILLE, WEST VIRGINIA, DATED 1974.

- LEGEND**
- EXISTING WASH RIGHT-OF-WAY
 - EXISTING PROPERTY LINE
 - EXISTING HOOD CENTERLINE
 - EXISTING INTERSTATE CONTOUR
 - EXISTING PAVED ROADWAY
 - EXISTING UNPAVED ROADWAY
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING STORMWATER CULVERT
 - EXISTING FENCE
 - EXISTING STREAM
 - EXISTING WETLAND
 - EXISTING FILLING
 - EXISTING WEIR
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - EXISTING WATER METER
 - EXISTING WATER MANSHOLE
 - EXISTING GAS WELL
 - PROPOSED EDGE OF ACCESS ROAD
 - PROPOSED LIMIT OF DISTURBANCE
 - PROPOSED WELL HEAD AND CELLAR
 - PROPOSED CONFINEMENT BERM
 - PROPOSED GRAVEL
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED HOOD CENTERLINE
 - PROPOSED INTERMEDIATE CHANNEL
 - PROPOSED WELL PAD CENTERLINE
 - PROPOSED SPOT ELEVATION
 - PROPOSED COMPOST FILTER SOCK TRAP
 - PROPOSED 16-IN COMPOST FILTER SOCK
 - PROPOSED 24-IN COMPOST FILTER SOCK
 - PROPOSED 32-IN COMPOST FILTER SOCK
 - PROPOSED GRASS CONSTRUCTION FENCE
 - PROPOSED ROCK CONSTRUCTION ENTRANCE
 - PROPOSED SALT PROTECTION
 - EXISTING CHANNEL (TO BE UTILIZED)
 - PROPOSED CHANNEL
 - PROPOSED STORMWATER DIVERT
 - PROPOSED WEIR
 - PROPOSED WEIR APPROX
 - PROPOSED UNDERDRAIN
 - USDA SOIL BOUNDARY
 - SOIL BOUNDARY LABEL

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 08/22/2011.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 06/17/2011 TO 06/24/2011.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MAPPED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 09/25/2011 TO 09/26/2011 AND 09/27/2011 TO 09/28/2011 TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA, DATED 1974.
 4. PROPERTY BOUNDARIES NOT SURVEYED BY CHEVRON.

EARTHWORK SUMMARY

	QTY (CY)	1.000	2.000
WELL PAD	46,400	43,000	5,400 RLL
ACCESS ROAD	3,000	800	4,100 DUE
TOTAL	49,400	44,000	5,400 DUE
TERRAIN STOCKPILE REQUIRED	N/A	8,800	
10% IMP CONTINGENCY STOCKPILE REQUIRED	N/A	4,108	
TERRAIN STOCKPILE REMOVED	N/A	21,000	

EARTHWORK NOTES

1. EARTHWORK ANALYSIS IS PRELIMINARY AND FOR INFORMATION PURPOSES ONLY.
2. ACTUAL EARTHWORK WILL VARY BASED ON SITE CONDITIONS AND MATERIALS COSTS.
3. EARTHWORK ANALYSIS DOES NOT CONSIDER SOIL SHrink OF SWELL.
4. TRUCK SPILLS ARE NOT INCLUDED.

NOTE: NUMBERS LISTED ABOVE ARE APPROXIMATE AND HAVE BEEN ADJUSTED USING 8.5% OF TERRAIN, WHICH REMOVED 7.5% OF STOCK PLACEMENT ON THE 10% AND 4.2% OF STOCK PLACEMENT ON THE ACCESS ROAD. NO ADJUSTMENTS WERE MADE FOR SHrink OF SWELL.

MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
West Virginia State Law
West Virginia State Law
Chapter 20, Chapter 24-C requires that you call the Statewide Miss Service 1-800-245-4848 in the state of West Virginia.
IT'S THE LAW

CEE
Civil & Environmental Consultants, Inc.
4005 Hayslip Lane, Suite 200 - Logan, PA 15902
724-232-2300 FAX 724-232-2310



REVISION RECORD

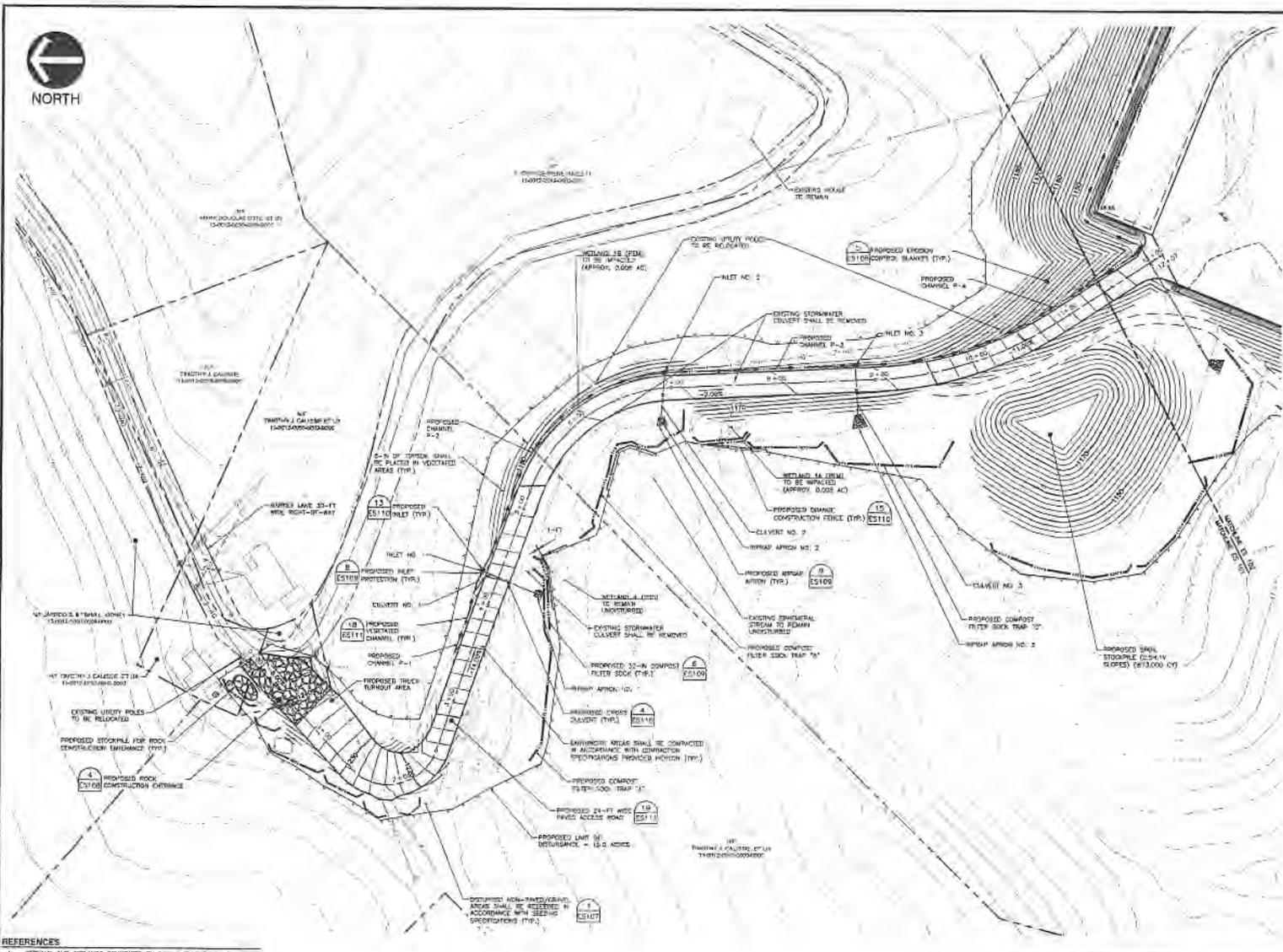
NO.	DATE	DESCRIPTION
1	08/22/2011	ISSUED FOR PERMIT
2	09/25/2011	REVISED FOR PERMIT
3	09/27/2011	REVISED FOR PERMIT
4	09/28/2011	REVISED FOR PERMIT
5	09/28/2011	REVISED FOR PERMIT
6	09/28/2011	REVISED FOR PERMIT
7	09/28/2011	REVISED FOR PERMIT
8	09/28/2011	REVISED FOR PERMIT
9	09/28/2011	REVISED FOR PERMIT
10	09/28/2011	REVISED FOR PERMIT

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

OVERALL EROSION AND SEDIMENTATION CONTROL PLAN

Project Number: 104-232
Drawing Scale: 1"=100'
Date Issued: 09/28/2011
Issue Number: _____
Drawn By: RJM
Checked By: JSM
Project Manager: 084277

ES 100



LEGEND

- CUTTING WIDTH RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING INDEG. CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING PAVED ROADWAY
- EXISTING UNPAVED ROADWAY
- EXISTING GAS LINE
- EXISTING WIRELINE
- EXISTING TELECOMMUNICATIONS LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORMWATER CULVERT
- EXISTING FENCE
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING TRESTLE
- EXISTING BRIDGE
- EXISTING STRUCTURE
- EXISTING UTILITY POLE
- EXISTING WATER METER
- EXISTING WATER MANHOLE
- EXISTING GAS WELL
- PROPOSED LIMIT OF ACCESS ROAD
- PROPOSED WEL HEAD AND CELLAR
- PROPOSED CONFINEMENT BOW
- PROPOSED CHANNEL
- PROPOSED ACTUAL PAVEMENT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED WELL PAD C/P/FILL LINE
- PROPOSED SPOT ELEVATION
- PROPOSED COMPOST FILTER SOCK TRAP
- PROPOSED 18-IN COMPOST FILTER SOCK
- PROPOSED 24-IN COMPOST FILTER SOCK
- PROPOSED 36-IN COMPOST FILTER SOCK
- PROPOSED GRADE CONSTRUCTION FENCE
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED INLET PROTECTION
- PROPOSED PROXIMITY CONTROL TO ADJACENT EXISTING CHANNEL (TO BE UTILIZED)
- PROPOSED CHANNEL
- PROPOSED STORMWATER CULVERT
- PROPOSED INLET
- PROPOSED SWAMP MARCH
- PROPOSED UNDERDRAIN
- RETAIL NUMBER
- DRAWING IDENTIFICATION

STREAM AND WETLAND NOTES

1. WETLAND WATERS ARE BEING REQUESTED FOR THE FOLLOWING FROM (A) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE; WETLANDS 1A, 1B, 2, 3, 4, AND 5; AND (B) WETLANDS 1A AND 3A CROSS THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY IMPACTED.
2. THE FOLLOWING FROM (C) WETLANDS ARE (3) UPSTREAM STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USAGE INTENSIFICATION FROM 30 FOOT PERMANENT IMPACTS; WETLAND 1A, 1B, 2, 3A, AND STREAMS UNIT 2, UNIT 3, AND UNIT 4 TO LITTLE DRIVE CROSS.
3. THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE UPSTREAM OF INTERMITTENT AS SUCH, A BRIDGE IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
4. BRIDGES SHOWN HEREON ARE MODIFIED FROM THE LEFT OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

COMPACTION SPECIFICATIONS

1. PLACE FILL MATERIAL USING COMPACTION EQUIPMENT WITH SPOKES THAT 10-FTIN HEIGHT IN COMPACTED LIFTS NOT EXCEEDING 15 INCHES THICK. USE A REDUCED LODGE LIFT THICKNESS OF 4 INCHES MAXIMUM AND USE HEAVY STEEL-PLATE TAMPERS 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 OVERLAYS PARTICLES EXCEEDING THE MAXIMUM PARTICLE SIZE INDICATED ABOVE OUTSIDE OF THE PROPOSED FILL AREAS OR IN DEEPER AREAS OF FULL-DENSIFIED ROCK PARTICLES (I.E. MATERIALS EXCEEDING 8 INCHES) PLACED IN THE DEEPER AREAS 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 DIRT AND ROADWAY SUBBASES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 100 PERCENT OF ITS MAXIMUM DRY DENSITY WITHIN ±3 PERCENT OF THE OPTIMAL MOISTURE CONTENT. SETTLE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (METHOD PROVISION).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/22/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOTECHNICAL SURVEY CONDUCTED BY THE SERVICES LTD. DATED 06/12/2017 TO 06/22/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED LOCALITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/22/2017 TO 06/22/2017 AND 06/23/2017 TO 07/27/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA CORP. DATED 2000.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY DEDRICH.

WEST UTILITY OF WEST VIRGINIA
1-800-245-4848
West Virginia State Law
(Section 20B Chapter 24-2 requires that you call the Business Desk before you file in the state of West Virginia.)
IT'S THE LAW



CHEV

Civil & Environmental Consultants, Inc.
4600 Fleming Lane, Suite 200 • Evansville, VA 26037
754-271-3200 • 800-468-2110

CHEVRON APPALACHIA, LLC
700 CHERINGTON PARKWAY
CORNINGSPUS, PA 15108

HAZLETT WELL PAD
UNION DISTRICT
BARBERSHALL COUNTY, WEST VIRGINIA

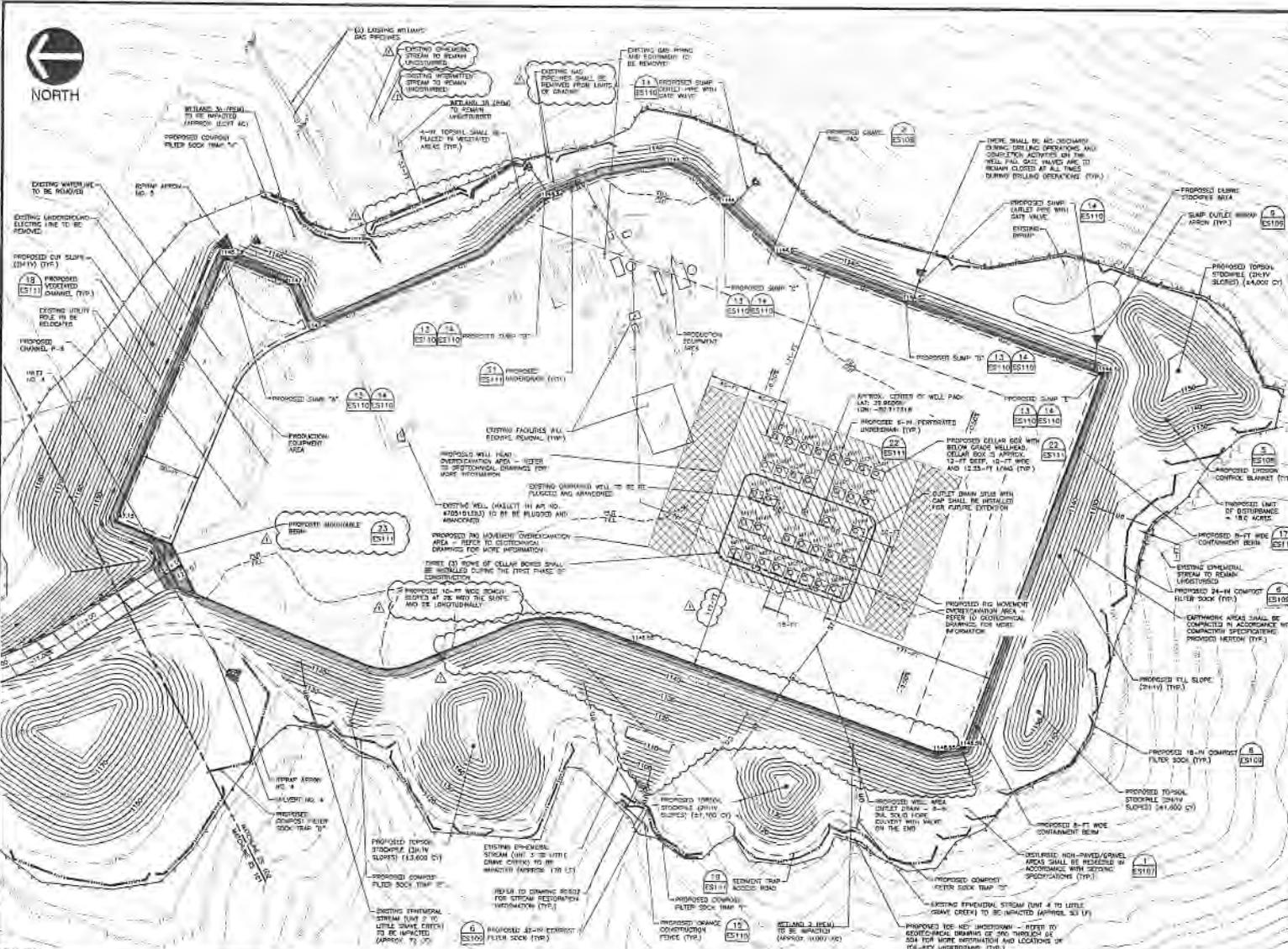
EROSION AND SEDIMENT CONTROL PLAN (1) OF 2)

Project Number	1502-25
Drawing Scale	1"=10'
Date Issued	5/27/2018
Index Number	
Drawn By	BOB
Checked By	JAM
Project Manager	DEBART

ES 101



NORTH



- LEGEND**
- EXISTING WADSWORTH RIGHT-OF-WAY
 - EXISTING HIGHWAY LINE
 - EXISTING WEDGE CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING POWER ROADWAY
 - EXISTING UNPAVED ROADWAY
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING HYDROPOWER COLLECTOR
 - EXISTING FENCE
 - EXISTING STREAM
 - EXISTING WETLAND
 - EXISTING WETLINE
 - EXISTING BRIDGE
 - 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 COLLAR
 - PROPOSED CONFINEMENT BERM
 - PROPOSED DRAINAGE
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED INLET 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 URANGE CONSTRUCTION FENCE
 - PROPOSED ROCK CONSTRUCTION FENCE
 - PROPOSED ROCK PROTECTION
 - PROPOSED STREAM EROSION BLANKET
 - EXISTING CHANNEL (TO BE FILLING)
 - PROPOSED CHANNEL
 - PROPOSED STORMWATER DIVERTER
 - PROPOSED INLET
 - PROPOSED OPENING APPROX
 - PROPOSED UNDERDRAIN
 - DETAIL NUMBER
 - DRAINING DESIGNATION

- STREAM AND WETLAND NOTES**
1. WETLAND HAZARDS ARE BEING REQUESTED FOR THE FOLLOWING STREAM (1) WETLAND THAT IS LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE; WETLAND 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 2K, 2L, 2M, 2N, 2O, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K, 3L, 3M, 3N, 3O, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4I, 4J, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4R, 4S, 4T, 4U, 4V, 4W, 4X, 4Y, 4Z.
 2. THE FOLLOWING OVER (4) WETLANDS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE WETLANDS REGULATORY PROGRAM. WETLAND 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 2K, 2L, 2M, 2N, 2O, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K, 3L, 3M, 3N, 3O, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4I, 4J, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4R, 4S, 4T, 4U, 4V, 4W, 4X, 4Y, 4Z.
 3. THE STREAMS SHOWN HEREIN OUTSIDE THE LIMIT OF DISTURBANCE ARE INCIDENTAL OR INTERMITTENT AS SUCH, A HAZARD IS NOT BEING PROTECTED FOR PERMANENT STREAMS.
 4. UNDERGROUND STREAMS HEREIN ARE ACQUIRED FROM THE DATA OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH GREATER THAN 10-TON WEIGHT IN COMPACTED LOTS NOT EXCEEDING 12 INCHES THICK. USE A REWORKED LOCAL LAY PROCEDURE OF 4 INCHES (MINIMUM) IN AREAS WHERE STEEL-PLATE TAMPERS OR OTHER HAND-OPERATED EQUIPMENT ARE BEING USED. MAXIMUM PARTICLE SIZE SHALL NOT EXCEED 3/8 INCHES IN STRUCTURAL FILL AREAS WHERE HEAVY SELF-PROPULSED COMPACTORS ARE UTILIZED. A REWORKED MAXIMUM PARTICLE SIZE OF 3/8 INCHES SHOULD BE USED IN AREAS WHERE HEAVY PARTICLE SIZES INDICATED ARE NOT EXCEEDING THE PROPOSED FILL JAMES OR IN REWORKED AREAS OF UNDESIGNED ROCK PARTICLES (I.E. MATERIALS EXISTING IN AREAS PLACED IN THE FILL). MATERIALS EXISTING IN AREAS PLACED IN LOTS NOT EXCEEDING 12 INCHES LOTS SHOULD BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
 2. COMPACT ALL END AND ROADWAY SUBSURFACES AND EACH LAYER OF FILL MATERIAL TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY TENSITY WITHIN 1.5 FEET OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DRY TENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D998 (STANDARD PRACTICE).

- REFERENCES**
1. STREAMS AND WETLANDS IDENTIFIED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICAL LTD. (1998) 05/11/2017 TO 05/22/2017.
 3. INFORMATION WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SUPPLIED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2017 TO 05/23/2017, AND 05/23/2017 TO 05/23/2017. INFORMATION OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH BEST AVAILABLE DATA DATED 2000.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

MISS UTILITY OF WEST VIRGINIA
 1-800-245-4848
 West Virginia State Law
 Section 20A Chapter 24-6 requires that you call the Utility before you dig in the State of West Virginia.
IT'S THE LAW



REVISION RECORD

NO.	DATE	BY	DESCRIPTION
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HAZLETT WELL PAD
 MARSHALL COUNTY, WEST VIRGINIA
 PREPARED FOR:
CHEVRON APPALACHIA, LLC
 10000 HIGHWAY 100
 CORAOPOLIS, PA 15108

EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)

Project Number: 184735
 Drawing Scale: 1"=20'
 Date Issued: 07/27/2017
 Issue Number:
 Drawn By: BOB
 Checked By: JAM
 Project Manager: MLO

ES 102

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.

Do not sign this form until you have read the instructions. Do not sign this form if you have not read the instructions. Do not sign this form if you have not read the instructions.

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the State-owned Property to be Worked on. (List all adjoining property owners, lessees, etc., whose property adjoins the State-owned property to be worked on.)

a. Address- See attached table.

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

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

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

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

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

Jenny Hayes
SIGNATURE OF APPLICANT

1-15-18
DATE

Mahony 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.

4705102094

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: 3H Well Pad Name: Hazlett

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

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

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

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

6) Existing Pad: Yes or No Yes *JW 5/29/18*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6150' below GL, Marcellus is 50' thick with a pore pressure gradient of 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,170'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20,021'

11) Proposed Horizontal Leg Length: 11,966'

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

13) Method to Determine Fresh Water Depths: Based on the deepest water well within 3 mile radius

14) Approximate Saltwater Depths: Potential for Brine in Burgoon @ 1696' below GL

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

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void in abandoned Glendale Mine @ 624' below GL

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17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No AUG 3 2018

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

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18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	30"	New			50'	50'	CTS
Fresh Water	20"	New	J-55	94	591'	591'	CTS
Coal	13-3/8"	New	J-55	54.5	724'	724'	CTS
Intermediate	9-5/8"	New	L-80	40	2,116'	2,116'	CTS
Production	5-1/2"	New	P-110	20	20,021'	20,021'	2,616' (500' below 9-5/8" shoe)
Tubing							
Liners							

JN 5/29/18

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

PACKERS

Kind:				RECEIVED Office of Oil and Gas
Sizes:				AUG 3 2018
Depths Set:				WV Department of Environmental Protection

47052020/94

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:

Frac with 400,000 lb. sand with 9,525 bbl fluid per stage; anticipated maximum pressure is 9,400 and anticipated max rate in BPM is 100

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

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

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.

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25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

Cement Additives

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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 M03H

Permit#		Ground Level Elev. (ft above SL):		1144					
Clay Twp, Marshall Co, WV		5/16/2018 7:46		**All depths below reference GL**					
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN FMC UH-S 13 5/8"	HOLE SIZE (IN)	HOLE DEPTH (FT)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)					
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 (bbbl/jt) 0.3553 Annulus (bbl/jt) 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 lb 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 fts over coupling	9-5/8" Casing	2,116	2,116		12.25	2,176	Intermediate Casing 9-5/8" 40# L-80IC BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5750 Collapse (psi) 3080 Yield (Jt Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to surface 30% Excess
	Surface - TOC (1) per every other jt TOC-Curve KOP (1) per jt of csg Curve KOP-TMD (1) per jt of csg 10' Marker Jt of Csg 100' above KOP	KOP				8.5 to 8.75		Production Casing 5-1/2" 20# P110EC DW/C-1S-Plus .351" Wall Coupling OD (in) 5.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14500 Collapse (psi) 12040 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry (Class A, G, H) Cement top approximately 500' below 9-5/8" shoe
Planned MV: 11.5ppg SBM - 12.5ppg SBM	Float Equip. (2) Jts of Csg Float Equip.	Est. BHT deg. F 5-1/2" Casing	20,022	6,170		8.500	20,037		Production Tail Slurry (Class A, G, H)

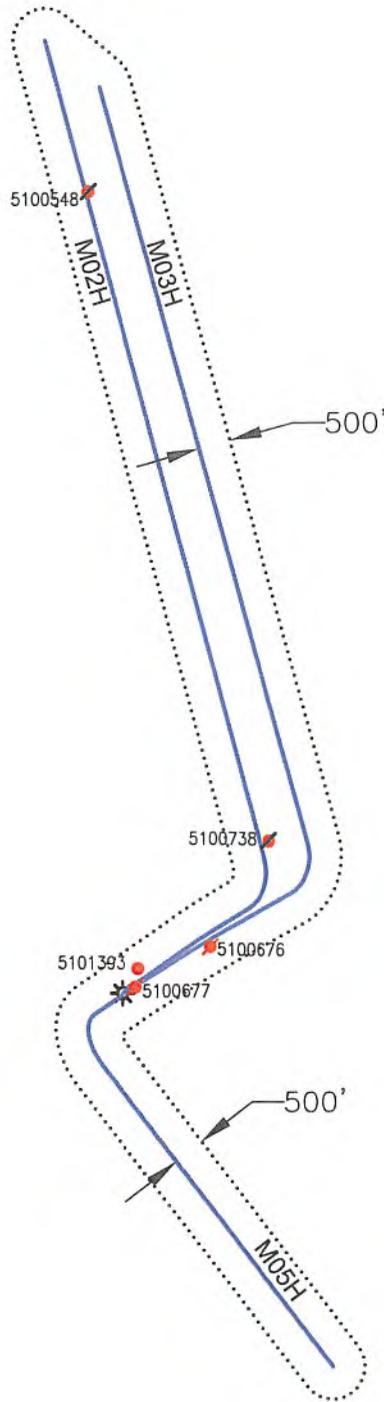
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Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

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

LEGEND

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

HAZLETT
AREA OF REVIEW MAP
MARSHALL COUNTY
UNION DISTRICT
WEST VIRGINIA

TOPO QUAD: MOUNDSVILLE, WV
SCALE: 1" = 3000'
DATE: MARCH 13, 2018

4705102094

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	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

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WW-9
(5/16)

API Number 47 - _____
Operator's Well No. Hazlett 3H

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

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Subscribed and sworn before me this 2nd day of August, 2018 Commonwealth of Pennsylvania
Allegheny County of Allegheny

Laura Savage

Notary Public
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

My commission expires September 17, 2018

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 Unshaban

Comments: _____

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Environmental Protection

Title: Oil & Gas Inspector

Date: 5/18/18

Field Reviewed?

() Yes

() No

4705 + 02094

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

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Chevron

**Appalachian LLC
WV Well Site Safety Plan
Pad: Hazlett Pad A
Well # M03H**

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

JN 7/19/18

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

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WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #1

4705 + 021034



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	KUBELAC PATRICIA A	25-13 12003600000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 12004600010000	AI	VOELLINGER JOHN & LORI	25-13 12005000090000
I	REILLY JOHN WILLIAM III ET AL	25-13 12001400000000	V	HAZLETT IRENE - LIFE	25-13 12004900000000	AJ	LINZY LINDA A	25-13 12004800020000
J	HAZLETT FLORENCE IRENE - LIFE	25-13 12004900030000	W	HAZLETT MICHAEL C - LIFE	25-13 12004900010000	AK	VICKERS MARY E EST	25-13 12004800000000
K	OTTE HUBERT CHAS & JANE E	25-13 12003200000000	X	HAZLETT MICHAEL C - LIFE	25-13 12004900020000	AL	VICKERS THOMAS D & JANET E	25-13 12004800010000
L	BURCH LESTER M ET UX	25-13 12002600000000	Y	CALISSIE TIMOTHY J ET UX	25-13 12005000000000	AM	ROBINSON GARY A	25-13 12004300010000
M	OTTE THOMAS L ET AL - LIFE	25-13 12002800000000	AA	CALISSIE TIMOTHY J ET UX	25-13 12005000030000	AN	RICHARDS CHRISTINE	25-13 12004200010000
						AO	OTTE HUBERT C ET AL	25-13 12004300000000
						AP	HAZLETT IRENE - LIFE	25-13 12004700000000
						AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000
						AR	RHODES LISA & NORMAN L	25-13 12004800040000
						AS	YODER ELI A ET AL	25-14 10016000100000
						AT	YODER ELI A ET AL	25-14 10016000200000
						AU	NGUYEN LAMSON N ET UX	25-14 10016000300000
						AV	SPRINGER BARBARA K	25-14 10016000500000
						AW	LINZY LINDA A	25-14 10017000010000
						AX	MARSHALL COUNTY PARK & REC	25-14 20008000000000
						AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
						AZ	OTTE HUBERT C ET AL	25-14 30002000000000
						BA	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
 Groundwater & Environmental Department of
 Surveyor: SERVICES, INC. Environmental Protection
 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.



Water Supply Exhibit
Hazlett Pad A Batch #1



4705102094

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

No.	SUPPLY COORDINATES	M01H	M02H	M03H	M04H	M05H	M06H	M07H	M08H
1	39°57'23.25240"N 80°43'11.50320"W	1,736	1,721	1,706	1,691	1,676	1,661	1,646	1,631
2	39°58'00.68520"N 80°43'06.23640"W	2,204	2,217	2,231	2,244	2,258	2,271	2,285	2,299
3	39°58'02.65440"N 80°43'17.77080"W	2,655	2,665	2,676	2,687	2,697	2,708	2,719	2,730
4	39°58'05.77200"N 80°43'11.60400"W	2,787	2,800	2,812	2,825	2,838	2,850	2,863	2,876
5	39°58'07.12560"N 80°42'53.30160"W	2,935	2,950	2,965	2,980	2,995	3,010	3,025	3,040
6	39°58'11.03880"N 80°43'12.64800"W	3,324	3,337	3,350	3,362	3,375	3,388	3,401	3,413
7	39°58'11.79480"N 80°42'54.45000"W	3,376	3,391	3,406	3,421	3,435	3,450	3,465	3,480
8	39°57'23.72400"N 80°43'40.66680"W	3,328	3,317	3,307	3,296	3,285	3,274	3,263	3,253
9	39°58'07.43880"N 80°43'00.60240"W	2,877	2,891	2,906	2,920	2,934	2,949	2,963	2,978
10	39°58'15.08160"N 80°43'50.22120"W	5,185	5,191	5,198	5,205	5,211	5,218	5,225	5,231

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

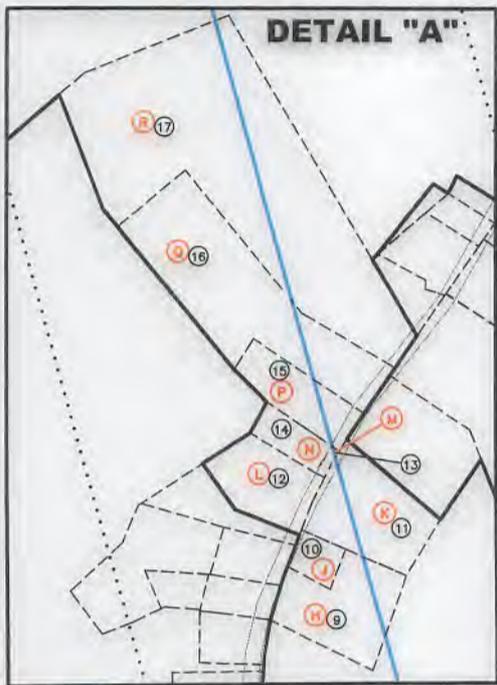
BHL is located on topo map 435 feet south of Latitude: 40° 00' 00" 
 SHL is located on topo map 14,289 feet south of Latitude: 40° 00' 00" 

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 FOR LESSORS

	SURFACE OWNER	DIST-TM/PAR
1	IRENE HAZLETT-LIFE	13-12/49
2	CITY OF GLENDALE	13-12/44
3	*TOWN OF GLEN DALE	13-12/45
4	PATRICIA A. KURELAC	13-12/36
5	NICHOLAS S., JR. & BARBARA A. RENZELLA	13-12/36.1
6	NICHOLAS S., JR. & BARBARA A. RENZELLA	13-12/38
7	BOBBI S. & LEVI LOGSDON	13-11/46
8	LEVI LOGSDON	13-11/46.1
9	JESSE HERNANDEZ & SERENA L. ROBINSON	13-11/56
10	*JESSE HERNANDEZ & SERENA L. ROBINSON	13-11/56.1
11	RONALD A. CLUTTER	13-11/55
12	VIRGINIA MAY ERNEST	13-11/15
13	JAMES ANDREW PASTORIUS	13-11/15.3
14	JAMES ANDREW PASTORIUS	13-11/15.1
15	VERNA L. MOORE	13-11/19
16	RICK KINKES	13-11/20
17	RICHARD L. KINKES	13-11/21
18	MARK D. OTTE ET UX	13-11/22
19	MINNIE L. JONES ET AL	13-6/55
20	EARL M. FISHER ET AL	13-6/53
21	MARK G. RICE ET UX	13-6/53.12
22	*DAVID E. & CHRISTY A. BARRY	13-6/53.3
23	CHERYL ANN HOLMES	13-6/53.13
24	JEFFERY & CRYSTAL COFFIELD	13-6/53.15
25	ALBERT F. KAZEMKA	13-6/69.2
26	THOMAS & PEGGY J. MINOR	13-6/69
27	DAWN & RONALD J. COFFIELD	13-6/6

BHL is located on topo map 3,053 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 2,568 feet west of Longitude: 80° 42' 30"



SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4423441.609
 E:524128.404
 NAD83, WV NORTH
 N:534376.491
 E:1627232.857

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4424164.53
 E:524994.68
 NAD83, WV NORTH
 N:536701.230
 E:1630115.238

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4427662.43
 E:523966.73
 NAD83, WV NORTH
 N:548236.116
 E:1626933.942



Blue Mountain Inc.

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

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

FILE #: HAZLETT M03H
 DRAWING #: HAZLETT M03H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

Signed: George D. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



PLACE SEAL HERE

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



DATE: MAY 09, 2018
 OPERATOR'S WELL #: HAZLETT M03H
 API WELL #: 47 51 02094
 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: 619.099±

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

(SPECIFY):
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,200'± TMD: 20,021.47'±

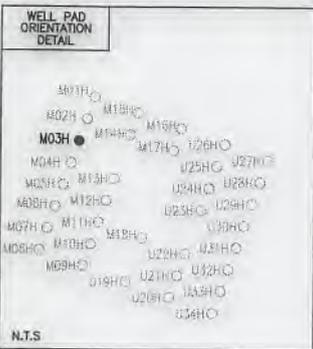
WELL OPERATOR: CHEVRON APPALACHIA, LLC DESIGNATED AGENT: KENNETH E. TAWNEY
 Address: 700 CHERRINGTON PARKWAY Address: 500 LEE STREET, EAST SUITE 1600
 City: CORAOPOLIS State: PA Zip Code: 15108 City: CHARLESTON State: WV Zip Code: 25301-3202

BHL is located on topo map 435 feet south of Latitude: BHL $40^{\circ}00'00''$
 SHL is located on topo map 14,289 feet south of Latitude: SHL $40^{\circ}00'00''$

LINE	BEARING	DISTANCE
R1	N 40°23'29" W	164.66'
R2	N 56°41'27" W	140.40'
R3	N 79°16'55" W	155.05'
R4	N 43°48'28" W	931.22'
R5	S 35°02'55" W	1461.28'
R6	S 82°54'51" E	1161.61'

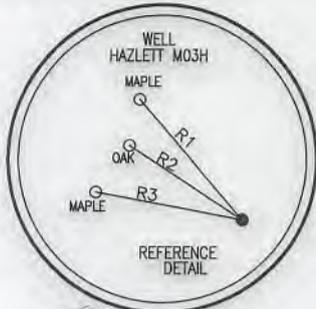
HAZLETT M03H PAGE 2 OF 3

BHL is located on topo map 3,053 feet west of Longitude: 80°42'30''
 SHL is located on topo map 2,568 feet west of Longitude: 80°42'30''



LEGEND

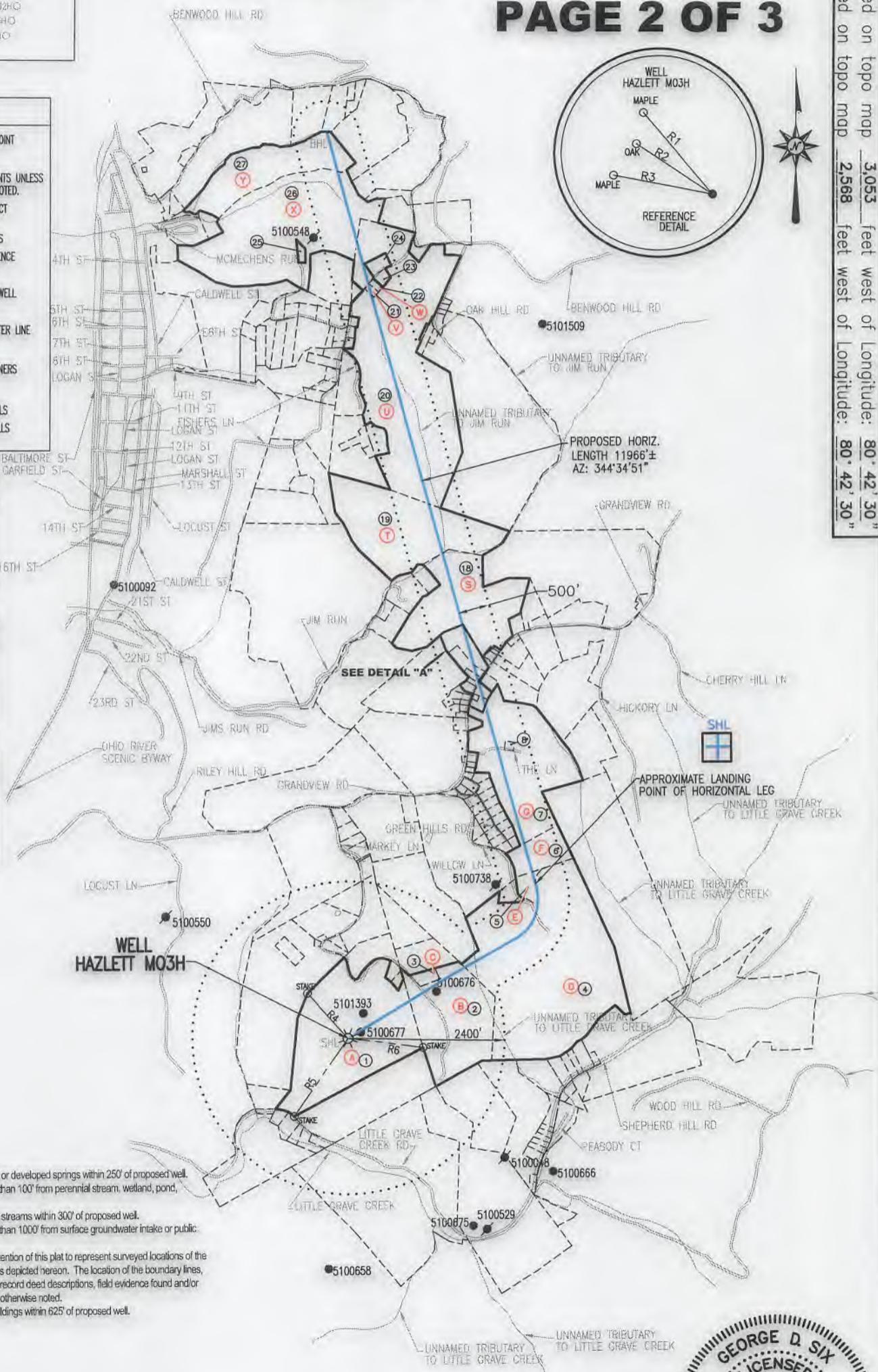
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS
 - EXISTING WELLS
 - PLUGGED WELLS



SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4423441.609
 E:524128.404
 NAD83, WV NORTH
 N:534376.491
 E:1627232.857

APPROX. LANDING POINT
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BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4427662.43
 E:523966.73
 NAD83, WV NORTH
 N:548236.116
 E:1626933.942



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

MAY 09, 2018



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

George D. Six

HAZLETT

M03H

PAGE 3 OF 3

	LESSOR	DIST-TM/PAR
A	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	13-12/49
B	JOHN CARL HAZLETT FLORENCE HAZLETT	13-12/44
C	JOHN CARL HAZLETT FLORENCE HAZLETT	13-12/45
D	PATRICIA A. KURELAC VIRGINIA E. KLAGES	13-12/36
E	VIRGINIA E. KLAGES NICHOLAS S. RENZELLA JR., ET UX	13-12/36.1
F	VIRGINIA E. KLAGES NICHOLAS S. RENZELLA JR., ET UX	13-12/38
G	ANDREW E. POWELL ET UX MARTIN E. FAHEY ET UX DONNA K. FAHEY ET UX JOHN M. FAHEY ET UX THOMAS M. FAHEY ET UX KRIS BECKER ET UX	13-11/46
H	MARY JO CRONIN	13-11/56
J	*MARY JO CRONIN	13-11/56.1
K	RONALD A. CLUTTER ET UX	13-11/55
L	JOHN E. BROSH ROBERT BROSH ELIZABETH J. MOORE SISTER LINDA KATHERINE SEVCIK LAWRENCE E. SEVICK ELAINE ROSE MANNING DIANE MARIE SEVCIK BRENDA SUE MUEGGENBORG CHRISTINE M. COOKE	13-11/15
M	JOHN E. BROSH ROBERT BROSH ELIZABETH J. MOORE SISTER LINDA KATHERINE SEVCIK LAWRENCE E. SEVICK ELAINE ROSE MANNING DIANE MARIE SEVCIK BRENDA SUE MUEGGENBORG CHRISTINE M. COOKE	13-11/15.3
N	JOHN E. BROSH ROBERT BROSH ELIZABETH J. MOORE SISTER LINDA KATHERINE SEVCIK LAWRENCE E. SEVICK ELAINE ROSE MANNING DIANE MARIE SEVCIK BRENDA SUE MUEGGENBORG CHRISTINE M. COOKE	13-11/15.1
P	CLAUDE S. MOORE ET UX	13-11/19
Q	RICK KINKES ET UX	13-11/20

	LESSOR	DIST-TM/PAR
R	RICHARD L. KINKES ET UX VICKIE L. HOSSMAN JEANNE A. CORFIELD	13-11/21
S	MARK D. OTTE ET UX	13-11/22
T	MINNIE L. JONES J. ROBERT CHAVANAK P. FRED CHAVANAK	13-6/55
U	CHERYL ANN HOLMES F/K/A CHERYL SHELLER EST OF RUTH SHELLER ROBERT SHELLER STEVEN FISHER MICHAEL FISHER EARL M. FISHER DANIEL M. FISHER CONNIE FISHER CHARLES M. FISHER BOUNTY MINERALS II ACQUISITION LLC	13-6/53
V	MARK G. RICE ET UX	13-6/53.12
W	*DAVID A. BARRY ET UX	13-6/53.3
X	WILLIAM FREDERICK FOX RONALD DAVID FOX ROGER DANIEL FOX CHARLES MARTIN FOX CLARENCE RICHARD FOX JIMMIE WILLIAMS ET UX PEGGY MINOR ET VIR MARY ANN HOSKINS MARY JO ROCKEY JOHN MICHAEL FOX JOAN L. WILLIAMS GEORGE WILLIAMS DONNA K. SHAW JACK S. WILLIAM ET UX PAULA CLATTERBUCK DAVID C. CLATTERBUCK JAMES R. FOX ROBERT R. FOX CHARLES FOX CARLA C. FOX JAMES FOX JADE SINCLAIR WORRELS MARCUS JAMES WORRELS	13-6/69
Y	RONALD J. COFFIELD ET UX	13-6/6

SURFACE HOLE LOCATION (SHL)
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N:4423441.609
E:524128.404
 NAD83, WV NORTH
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 NAD83, WV NORTH
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 E:1626933.942

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

MAY 09, 2018

**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
----------------------	-----------------------	-----------------------	---------	-----------

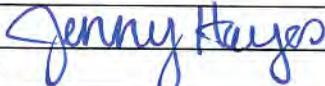
See Attached

**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

4705102094

Hazlett Unit #3H - MARC - BATCH 1 MLS - FINAL

QLS NO	% Owned	Plat ID	Parcel	Lessors	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4	Assignment #5	Assignment #6	Assignment #7	Assignment #8	Assignment #9
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	Massu, Kelly Ann	Chevron U.S.A. Inc.	0.18	859/85	-	-	-	-	-	-	-	-	-
934444	12.50%	1	13-0012-0049-0000-0000	Neilson, Zane Edward	Chevron U.S.A. Inc.	0.18	848/832	-	-	-	-	-	-	-	-	-
934837	12.50%	1	13-0012-0049-0000-0000	Baker, Nancy A.	Chevron U.S.A. Inc.	0.18	911/615	-	-	-	-	-	-	-	-	-
934841	4.17%	1	13-0012-0049-0000-0000	McCracken, Larry John	Chevron U.S.A. Inc.	0.18	848/581	-	-	-	-	-	-	-	-	-
934843	4.17%	1	13-0012-0049-0000-0000	McCracken, Patricia Ann	Chevron U.S.A. Inc.	0.18	848/586	-	-	-	-	-	-	-	-	-
934846	4.17%	1	13-0012-0049-0000-0000	McCracken, Robert Jay	Chevron U.S.A. Inc.	0.18	848/591	-	-	-	-	-	-	-	-	-
951834	50.00%	1	13-0012-0049-0000-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	949/19	-	-	-	-	-	-	-	-	-
									24/466	25/105						
				Hazlett, John Carl	TriEnergy Holdings, LLC	0.16	705/270	24/180 TriEnergy Holdings, LLC to NPAR, LLC	AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 Limited Partnership	Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/331 NPAR, LLC to Chevron U.S.A. Inc.					
867363	50.00%	2	13-0012-0044-0000-0000													
951832	50.00%	2	13-0012-0044-0000-0000	Hazlett, Florence	Chevron U.S.A. Inc.	0.1875	949/26	-	-	-	-	-	-	-	-	-
									24/466	25/105						
				Hazlett, John Carl	TriEnergy Holdings, LLC	0.16	705/270	24/180 TriEnergy Holdings, LLC to NPAR, LLC	AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 Limited Partnership	Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/331 NPAR, LLC to Chevron U.S.A. Inc.					
867363	50.00%	3	13-0012-0045-0000-0000													
951831	50.00%	3	13-0012-0045-0000-0000	Hazlett, Florence	Chevron U.S.A. Inc.	0.1875	949/26	-	-	-	-	-	-	-	-	-
									24/466	25/105						
				Kurelac, Patricia A.	TriEnergy Holdings, LLC	0.18	731/369	15/449 TriEnergy Holdings, LLC to NPAR, LLC	756/331 NPAR, LLC to Chevron U.S.A. Inc.							
868303	50.00%	4	13-0012-0036-0000-0000													
				Klages, Virginia E.	Chesapeake Appalachia L.L.C.	0.125	680/103	22/310 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.						
919702	50.00%	4	13-0012-0036-0000-0000													
				Klages, Virginia E.	Chesapeake Appalachia L.L.C.	0.125	714/182	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.						
920433	50.00%	5	13-0012-0036-0001-0000													
				Renzella, Nicholas S. Jr. et ux	Chesapeake Appalachia L.L.C.	0.125	716/523	14/704 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.						
951588	50.00%	5	13-0012-0036-0001-0000													
				Klages, Virginia E.	Chesapeake Appalachia L.L.C.	0.125	660/113	22/491 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.						
920430	50.00%	6	13-0012-0038-0000-0000													
951589	50.00%	6	13-0012-0038-0000-0000	Renzella, Nicholas S. Jr. et ux	Chevron U.S.A. Inc.	0.15	921/553	-	-	-	-	-	-	-	-	-
939802	10.00%	7	13-0011-0046-0000-0000	Powell, Andrew E. et ux	Chevron U.S.A. Inc.	0.18	871/308	-	-	-	-	-	-	-	-	-
939639	20.00%	7	13-0011-0046-0000-0000	Fahey, Martin E. et ux	Chevron U.S.A. Inc.	0.18	869/118	-	-	-	-	-	-	-	-	-
939640	20.00%	7	13-0011-0046-0000-0000	Fahey, Donna K.	Chevron U.S.A. Inc.	0.18	869/328	-	-	-	-	-	-	-	-	-
939643	20.00%	7	13-0011-0046-0000-0000	Fahey, John M. et ux	Chevron U.S.A. Inc.	0.18	869/125	-	-	-	-	-	-	-	-	-
939646	20.00%	7	13-0011-0046-0000-0000	Fahey, Thomas M. et ux	Chevron U.S.A. Inc.	0.18	869/146	-	-	-	-	-	-	-	-	-
939649	10.00%	7	13-0011-0046-0000-0000	Becker, Kris et ux	Chevron U.S.A. Inc.	0.18	869/139	-	-	-	-	-	-	-	-	-
951836	100.00%	8	13-0012-0046-0001-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	948/149	-	-	-	-	-	-	-	-	-
									29/325	30/427						
				Cronin, Mary Jo	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	707/461	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.						
921104	100.00%	9	13-0011-0056-0000-0000													
				Cronin, Mary Jo	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	707/461	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.						
921104	100.00%	10	13-0011-0056-0001-0000													
				Clutter, Ronald A. et ux	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	707/457	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.						
921103	100.00%	11	13-0011-0055-0000-0000													
				Brush, John E.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.17 Gas	707/503	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921126	12.50%	12	13-0011-0015-0000-0000													

RECEIVED
Office of Oil and Gas
NOV 27 2018
WV Department of
Environmental Protection

4705102094

Hazlett Unit #3H - MARC - BATCH 1 MLS - FINAL

QLS NO	% Owned	Plot ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4	Assignment #5	Assignment #6	Assignment #7	Assignment #8	Assignment #9
921127	12.50%	12	13-0011-0015-0000-0000	Brosh, Robert	Chesapeake Appalachia LLC.	0.125 Oil 0.17 Gas	707/507	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921128	62.50%	12	13-0011-0015-0000-0000	Moore, Elizabeth J.	Chesapeake Appalachia LLC.	0.125 Oil 0.17 Gas	718/466	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921129	2.08%	12	13-0011-0015-0000-0000	Sevcik, Sister Linda Katherine	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/91	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921130	2.08%	12	13-0011-0015-0000-0000	Sevcik, Lawrence E.	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/97	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921131	2.08%	12	13-0011-0015-0000-0000	Manning, Elaine Rose	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/103	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921132	2.08%	12	13-0011-0015-0000-0000	Sevcik, Diane Marie	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/109	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921133	2.08%	12	13-0011-0015-0000-0000	Mueggenborg, Brenda Sue	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	719/485	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921134	2.08%	12	13-0011-0015-0000-0000	Cooke, Christine M.	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	729/491	27/385 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.						
921126	12.50%	13	13-0011-0015-0003-0000	Brosh, John E.	Chesapeake Appalachia LLC.	0.125 Oil 0.17 Gas	707/503	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921127	12.50%	13	13-0011-0015-0003-0000	Brosh, Robert	Chesapeake Appalachia LLC.	0.125 Oil 0.17 Gas	707/507	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921128	62.50%	13	13-0011-0015-0003-0000	Moore, Elizabeth J.	Chesapeake Appalachia LLC.	0.125 Oil 0.17 Gas	718/466	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921129	2.08%	13	13-0011-0015-0003-0000	Sevcik, Sister Linda Katherine	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/91	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921130	2.08%	13	13-0011-0015-0003-0000	Sevcik, Lawrence E.	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/97	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921131	2.08%	13	13-0011-0015-0003-0000	Manning, Elaine Rose	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/103	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						
921132	2.08%	13	13-0011-0015-0003-0000	Sevcik, Diane Marie	Chesapeake Appalachia LLC.	0.125 Oil 0.18 Gas	730/109	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.						

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Hazlett Unit #3H - MARC - BATCH 1 MLS - FINAL

QLS NO	% Owned	Pit ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4	Assignment #5	Assignment #6	Assignment #7	Assignment #8	Assignment #9	
921133	2.08%	13	13-0011-0015-0003-0000	Mueggenborg, Brenda Sue	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	729/485	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921134	2.08%	13	13-0011-0015-0003-0000	Cooka, Christine M.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	729/491	27/386 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921126	12.50%	14	13-0011-0015-0001-0000	Brosh, John E.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.17 Gas	707/503	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921127	12.50%	14	13-0011-0015-0001-0000	Brosh, Robert	Chesapeake Appalachia L.L.C.	0.125 Oil 0.17 Gas	707/507	29/325 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921128	62.50%	14	13-0011-0015-0001-0000	Moore, Elizabeth J.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.17 Gas	718/466	24/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921129	2.08%	14	13-0011-0015-0001-0000	Sevcik, Sister Unda Katherine	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/91	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921130	2.08%	14	13-0011-0015-0001-0000	Sevcik, Lawrence E.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/97	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921131	2.08%	14	13-0011-0015-0001-0000	Manning, Elaine Rose	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/103	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921132	2.08%	14	13-0011-0015-0001-0000	Sevcik, Diane Marie	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	730/109	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921133	2.08%	14	13-0011-0015-0001-0000	Mueggenborg, Brenda Sue	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	729/485	26/42 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
921134	2.08%	14	13-0011-0015-0001-0000	Cooka, Christine M.	Chesapeake Appalachia L.L.C.	0.125 Oil 0.18 Gas	729/491	27/386 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	30/427 Statoil U.S.A. Onshore Properties, Inc. to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	
954798	50.00%	15	13-0011-0019-0000-0000	Moore, Claude S. et ux	TriEnergy Holdings, LLC	0.18	711/288	24/430 TriEnergy Holdings, LLC to NPAR, LLC	24/466 NPAR, LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	25/105 Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/332 NPAR, LLC to Chevron U.S.A. Inc.	30/494 Chevron U.S.A. Inc. to Statoil USA Onshore Properties, Inc.	30/532 Chevron U.S.A. Inc. to Chesapeake Appalachia, L.L.C.	33/110 Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	33/424 Statoil USA Onshore Properties, Inc. to SWN Exchange Titleholder, LLC	40/255 SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc.	
935260	935260	16	13-0011-0020-0000-0000	Kinkes, Rick et ux	Chevron U.S.A. Inc.	0.18	849/7	-	-	-	-	-	-	-	-	-	-
935257	33.33%	17	13-0011-0021-0000-0000	Kinkes, Richard L. et ux	Chevron U.S.A. Inc.	0.18	849/4	-	-	-	-	-	-	-	-	-	-
939491	33.33%	17	13-0011-0021-0000-0000	Hossmann, Vickie L.	Chevron U.S.A. Inc.	0.18	866/117	-	-	-	-	-	-	-	-	-	-
939498	33.33%	17	13-0011-0021-0000-0000	Curfield, Jeanne A.	Chevron U.S.A. Inc.	0.18	866/111	-	-	-	-	-	-	-	-	-	-
954797	100.00%	18	13-0011-0022-0000-0000	Otte, Mark D. et ux	TriEnergy Holdings, LLC	0.18	712/522	24/430 TriEnergy Holdings, LLC to NPAR, LLC	24/466 NPAR, LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	25/105 Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/332 NPAR, LLC to Chevron U.S.A. Inc.	29/258 Chevron U.S.A. Inc. to Chesapeake Appalachia, L.L.C.	29/264 Chevron U.S.A. Inc. to Statoil USA Onshore Properties, Inc.	33/110 Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	33/424 Statoil USA Onshore Properties, Inc. to SWN Exchange Titleholder, LLC	40/255 SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc.	
946623	33.33%	19	13-0005-0055-0000-0000	Jones, Minnie L.	TH Exploration, L.L.C.	0.18	882/517	35/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-	-
946844	33.33%	19	13-0005-0055-0000-0000	Chavannah, J. Robert	TH Exploration, L.L.C.	0.18	851/245	35/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-	-

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Hazlett Unit #3H - MARC - BATCH 1 MLS - FINAL

QLS NO	% Owned	Plot ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4	Assignment #5	Assignment #6	Assignment #7	Assignment #8	Assignment #9	
948868	13.33%	19	13-0006-0055-0000-0000	Chavanak, P. Fred	TH Exploration, L.L.C.	0.18	851/248	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	
946688	6.25%	20	13-0006-0053-0000-0000	Holmes, Cheryl Ann f/u/a Cheryl Sheller	TH Exploration, L.L.C.	0.18	885/345	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946698	12.50%	20	13-0006-0053-0000-0000	Est Of Ruth Sheller	TH Exploration, L.L.C.	0.18	882/588	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946699	6.25%	20	13-0006-0053-0000-0000	Sheller, Robert	TH Exploration, L.L.C.	0.18	882/585	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946730	2.67%	20	13-0006-0053-0000-0000	Fisher, Steven	TH Exploration, L.L.C.	0.18	882/579	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946792	2.67%	20	13-0006-0053-0000-0000	Fisher, Michael	TH Exploration, L.L.C.	0.18	882/576	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946796	14.32%	20	13-0006-0053-0000-0000	Fisher, Earl M.	TH Exploration, L.L.C.	0.18	882/573	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946798	15.00%	20	13-0006-0053-0000-0000	Fisher, Daniel M.	TH Exploration, L.L.C.	0.18	882/564	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946799	2.67%	20	13-0006-0053-0000-0000	Fisher, Connie	TH Exploration, L.L.C.	0.18	882/570	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
946800	2.67%	20	13-0006-0053-0000-0000	Fisher, Charles M.	TH Exploration, L.L.C.	0.18	882/567	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
952789	25.00%	20	13-0006-0053-0000-0000	Bounty Minerals II Acquisitions LLC	Chevron U.S.A. Inc.	0.2	942/533	-	-	-	-	-	-	-	-	-	-
934041	100.00%	21	13-0005-0053-0012-0000	Rice, Mark G. et ux	Chevron U.S.A. Inc.	0.18	838/506	-	-	-	-	-	-	-	-	-	-
951086	100.00%	22	13-0006-0053-0003-0000	Barry, David A et ux	Chevron U.S.A. Inc.	0.18	926/76	-	-	-	-	-	-	-	-	-	-
953166	100.00%	23	13-0006-0053-0013-0000	Holmes, Cheryl Ann	Chevron U.S.A. Inc.	0.15	931/284	-	-	-	-	-	-	-	-	-	-
Pending	100.00%	24	13-0006-0053-0015-0000	Coffield, Jeffrey et ux	Chevron U.S.A. Inc.	0.18	970/285	-	-	-	-	-	-	-	-	-	-
954143	100.00%	25	13-0006-0069-0002-0000	Rose, Sheene	Chevron U.S.A. Inc.	0.18	954/39	-	-	-	-	-	-	-	-	-	-
936512	3.13%	26	13-0006-0069-0000-0000	Fox, William Frederick	Chevron U.S.A. Inc.	0.18	864/226	-	-	-	-	-	-	-	-	-	-
936513	3.13%	26	13-0006-0069-0000-0000	Fox, Ronald David	Chevron U.S.A. Inc.	0.18	863/247	-	-	-	-	-	-	-	-	-	-
936514	3.13%	26	13-0006-0069-0000-0000	Fox, Roger Daniel	Chevron U.S.A. Inc.	0.18	863/233	-	-	-	-	-	-	-	-	-	-
936516	3.13%	26	13-0006-0069-0000-0000	Fox, Charles Martin	Chevron U.S.A. Inc.	0.18	863/240	-	-	-	-	-	-	-	-	-	-
936517	3.13%	26	13-0006-0069-0000-0000	Fox, Clarence Richard	Chevron U.S.A. Inc.	0.18	863/254	-	-	-	-	-	-	-	-	-	-
936910	6.25%	26	13-0006-0069-0000-0000	Williams, Jimmie et ux	Chevron U.S.A. Inc.	0.18	861/296	-	-	-	-	-	-	-	-	-	-
936911	3.13%	26	13-0006-0069-0000-0000	Minor, Peggy et vlr	Chevron U.S.A. Inc.	0.18	861/282	-	-	-	-	-	-	-	-	-	-
936912	12.50%	26	13-0006-0069-0000-0000	Hoskins, Mary Ann	Chevron U.S.A. Inc.	0.18	861/303	-	-	-	-	-	-	-	-	-	-
936913	6.25%	26	13-0006-0069-0000-0000	Rockay, Mary Jo	Chevron U.S.A. Inc.	0.18	916/29	-	-	-	-	-	-	-	-	-	-
936914	3.13%	26	13-0006-0069-0000-0000	Fox, John Michael	Chevron U.S.A. Inc.	0.18	867/69	-	-	-	-	-	-	-	-	-	-
936916	6.25%	26	13-0006-0069-0000-0000	Williams, Joan L.	Chevron U.S.A. Inc.	0.18	861/289	-	-	-	-	-	-	-	-	-	-
936917	12.50%	26	13-0006-0069-0000-0000	Williams, George	Chevron U.S.A. Inc.	0.18	861/1	-	-	-	-	-	-	-	-	-	-
936919	5.00%	26	13-0006-0069-0000-0000	Shaw, Denna K.	Chevron U.S.A. Inc.	0.18	860/591	-	-	-	-	-	-	-	-	-	-
936920	6.25%	26	13-0006-0069-0000-0000	Williams, Jack S. et ux	Chevron U.S.A. Inc.	0.18	861/310	-	-	-	-	-	-	-	-	-	-
937006	5.00%	26	13-0006-0069-0000-0000	Clatterback, Paula	Chevron U.S.A. Inc.	0.18	861/275	-	-	-	-	-	-	-	-	-	-
937297	3.13%	26	13-0006-0069-0000-0000	Clatterback, David C.	Chevron U.S.A. Inc.	0.18	863/152	-	-	-	-	-	-	-	-	-	-
940303	5.00%	26	13-0006-0069-0000-0000	Fox, James R.	Chevron U.S.A. Inc.	0.18	880/312	-	-	-	-	-	-	-	-	-	-
946696	5.00%	26	13-0006-0069-0000-0000	Fox, Robert R.	TH Exploration, L.L.C.	0.18	841/163	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-
953122	1.25%	26	13-0006-0069-0000-0000	Fox, Charles	Chevron U.S.A. Inc.	0.15	934/91	-	-	-	-	-	-	-	-	-	-
953123	1.25%	26	13-0006-0069-0000-0000	Fox, Carlo C.	Chevron U.S.A. Inc.	0.15	935/169	-	-	-	-	-	-	-	-	-	-
953124	1.25%	26	13-0006-0069-0000-0000	Fox, James	Chevron U.S.A. Inc.	0.15	934/456	-	-	-	-	-	-	-	-	-	-
953411	0.63%	26	13-0006-0069-0000-0000	Worrals, Jade Sinclair	Chevron U.S.A. Inc.	0.15	940/400	-	-	-	-	-	-	-	-	-	-
953412	0.63%	26	13-0006-0069-0000-0000	Worrals, Marcus James	Chevron U.S.A. Inc.	0.15	940/409	-	-	-	-	-	-	-	-	-	-
946804	100.00%	27	13-0006-0006-0000-0000	Coffield, Ronald J. et ux	TH Exploration, L.L.C.	0.18	844/334	TH Exploration, L.L.C. to Chevron U.S.A. Inc. 36/168	-	-	-	-	-	-	-	-	-

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Mitchell G. Limbert
Land Representative, AMBU

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March 21, 2018

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

RE: Hazlett 2H, 3H, 5H

To Whom It May Concern,

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

Sincerely,

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

Mitchell G. Limbert
Land Representative

4705 02094

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

Date of Notice Certification: 05/10/2018

API No. 47- _____
Operator's Well No. M03H
Well Pad Name: Hazlett

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>524128.404</u>
County: <u>Marshall</u>		Northing: <u>4423441.609</u>
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Lane</u>	
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hazlett</u>	
Watershed: <u>Short Creek - Ohio River</u>		

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

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

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

Certification of Notice is hereby given:

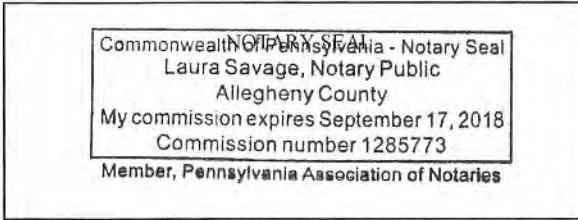
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THEREFORE, I Jenny Hayes, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the 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.

Jenny Hayes

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



Commonwealth of Pennsylvania
County of Allegheny
Subscribed and sworn before me this 2nd day of August, 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: 05/10/2018 **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

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

WV Department of Environmental Protection

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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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WV Department of
Environmental Protection

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. 03H _____
Well Pad Name: Hazlett _____

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Notice is hereby given by:

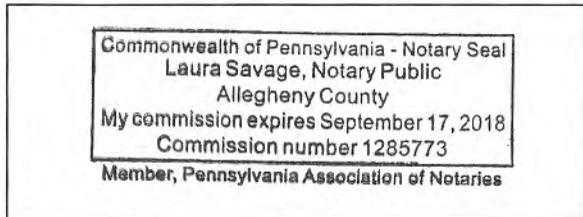
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: JZYK@chevron.com

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

Oil and Gas Privacy Notice:

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

Jenny Hayes



COMMONWEALTH OF PENNSYLVANIA
COUNTY OF ALLEGHENY

Subscribed and sworn before me this 9th day of May, 2018.

Laura Savage Notary Public

My Commission Expires September 17, 2018

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API No. 47- _____ - _____

OPERATOR WELL NO. M03H

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:

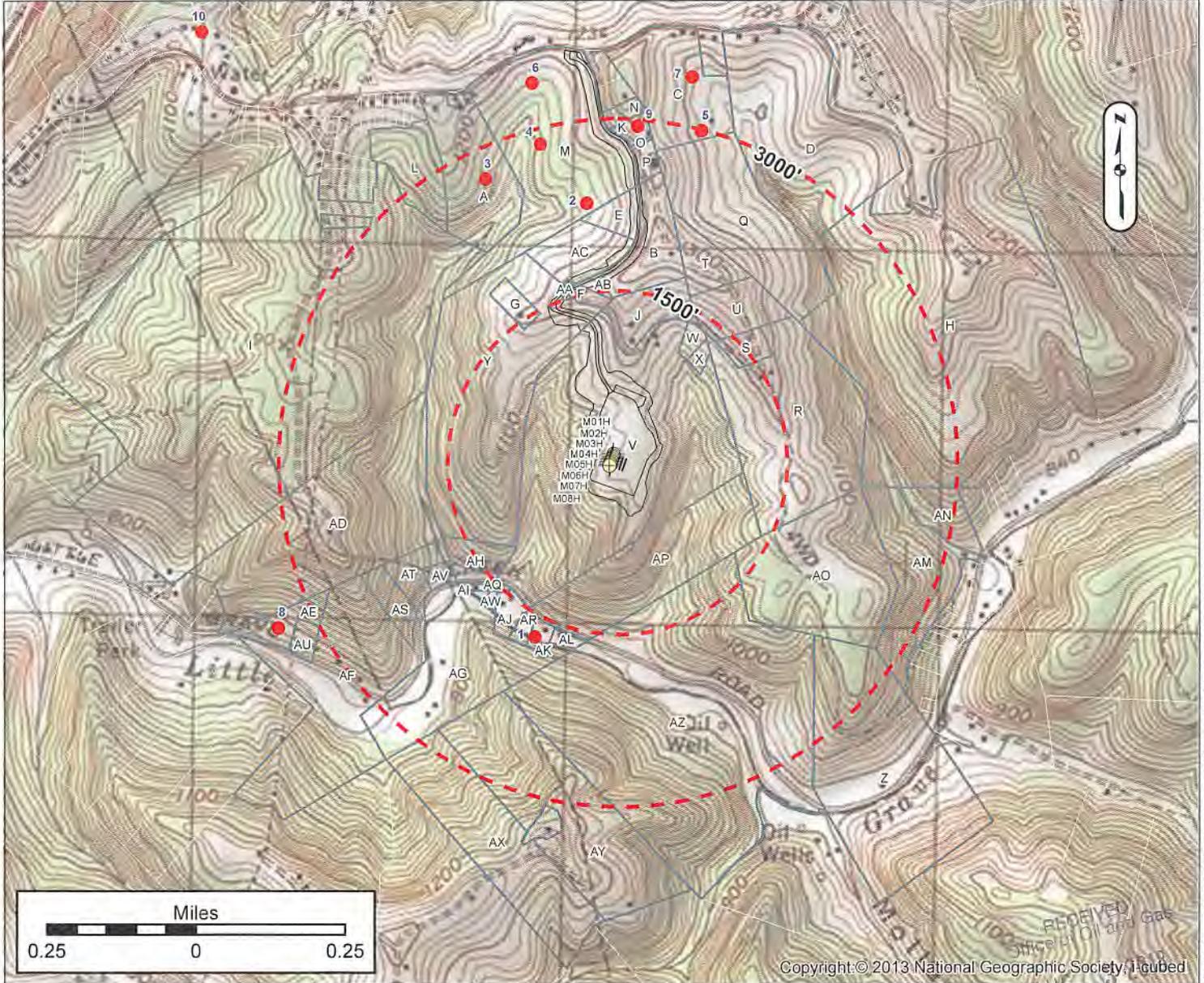
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WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #1



4705 02094



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 12005000090000	AD	OTTE HUBERT C ET AL	25-13 12004300000000
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	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 1001600040000	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 10016000000000	AS	YODER ELI A ET AL	25-14 1001600010000
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 1001600020000
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 1001600030000
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 1001600050000
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 1001700010000
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 3000800000000
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	AZ	MARSHALL COUNTY PARK & REC	25-14 3000100000000
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	AY	OTTE HUBERT C ET AL	25-14 3000200000000
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	AZ	OTTE HUBERT C ET AL	25-14 3000300000000

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.

4705 * 02094

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: 05/10/2018 **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>524128.404</u>
County:	<u>Marshall</u>		Northing:	<u>4423441.609</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: _____

RECEIVED
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.

**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: 05/10/2018 **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:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>524128.404</u>
County:	<u>Marshall</u>	Northing:	<u>4423441.609</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: _____

RECEIVED
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.

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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: 05/10/2018 **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: 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(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524128.404</u>
County:	<u>Marshall</u>		Northing:	<u>4423441.609</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(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

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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Office of Oil and Gas

AUG 3 2018

WV Department of
Environmental Protection

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, Loretta 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 ³, 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>524128.404</u>
County:	<u>Marshall</u>		Northing:	<u>4423441.609</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Mackey Lane</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Loretta K. Wallace</u></p> <p>Print Name: <u>Loretta K. Wallace</u></p> <p>Date: <u>June 4, 2018</u></p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p>
	<p>Signature: _____</p> <p>Date: _____</p>
	<p style="text-align: right;">RECEIVED Office of Oil and Gas</p>
	<p style="text-align: right;">AUG 3 2018</p>
	<p style="text-align: right;">WV Department of Environmental Protection</p>

Oil and Gas Privacy Notice:

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

WW-6AW
(1-12)

API NO. 47- _____ - _____
OPERATOR WELL NO. MO3H
Well Pad Name: Hazlett

4705 02094

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

State: West Virginia UTM NAD 83 Easting: 524128.404
County: Marshall Northing: 4423441.609
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>RECEIVED Office of Oil and Gas</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: <u>AUG 3 2018</u></p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>WV Department of Environmental Protection</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>

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 * 02094

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

June 13, 2018

Jill M. Newman
Deputy Commissioner

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

Subject: DOH Permit for the Hazlett Pad A Well Site, Marshall County
Hazlett A Unit 3H

Dear Mr. Martin,

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

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

Very Truly Yours,

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

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

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AUG 3 2018
WV Department of
Environmental Protection

4705 9 02094

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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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
CORAOPOLIS, PA 15108



CONSULTANTS
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
4000 TRIMBLE LANE, SUITE 200
DUPONT, PA 15432
PHONE: 724-327-5282

CIVIL/SITE ENGINEER CONTACT: JOSHUA A. HAGARDEE
EMAIL ADDRESS: jhagardee@cecinc.com

GEOTECHNICAL ENGINEER CONTACT: AARON W. LWAJEC
EMAIL ADDRESS: alwajec@cecinc.com

SITE COORDINATES AND WATERSHED

START OF ACCESS ROAD
LATITUDE: 39.924755° N, LONGITUDE: 80.719023° W

END OF ACCESS ROAD
LATITUDE: 39.923233° N, LONGITUDE: 80.717589° W

APPROXIMATE CENTER OF WELL PAD
LATITUDE: 39.924109° N, LONGITUDE: 80.717080° W

APPROXIMATE CENTER OF WELL PAD
LATITUDE: 39.925659° N, LONGITUDE: 80.717318° W

*BASED ON H&D 83, WEST VIRGINIA NORTH ZONE

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

STREAM AND WETLAND PERMANENT IMPACTS
(SUBJECT TO USACE NATIONWIDE PERMIT 38)

UNIT 2 TO LITTLE GRAVE CREEK (EPH) = 73 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) = 0.308 AC
WETLAND 2 (PEM) = 0.002 AC
WETLAND 3A (PEM) = 0.076 AC

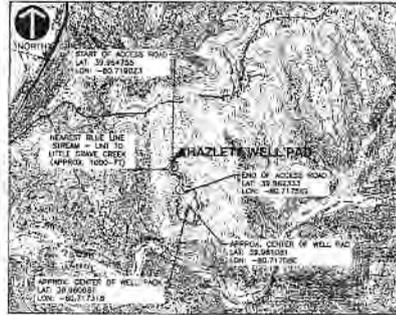
WETLANDS WITHIN 100 LF OF THE LIMIT OF DISTURBANCE (SUBJECT TO WETLAND WAIVER REQUEST)

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. STREAM AND WETLAND Delineated by CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 02/21/2017.
2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LAB. DATED 05/11/2017 TO 05/23/2017.
3. TOPOGRAPHY WITHIN THE PROJECT AREA AND ADJACENT UTILITY FEATURES. PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/22/2017 TO 02/20/2017 AND 02/21/2017 TO 05/29/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH NEAREST AVAILABLE DATA (2003).
4. AERIAL PHOTOGRAPHY FROM GOOGLE EARTH PRO. DATED 2014.
5. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

Method No.	Northing	Eastng	Latitude (North)	Longitude (West)
M034	334404.7077	362733.2653	39.926261	80.717437
M035	334490.8165	362723.2509	39.926212	80.717427
M036	334578.4569	362713.2365	39.926173	80.717416
M037	334662.2425	362703.2221	39.926134	80.717405
M038	334748.2742	362693.2077	39.926095	80.717394
M039	334834.3457	362683.1933	39.926056	80.717383
M040	334920.4572	362673.1789	39.926017	80.717372
M041	335006.6087	362663.1645	39.925978	80.717361
M042	335092.8002	362653.1501	39.925939	80.717350
M043	335179.0317	362643.1357	39.925900	80.717339
M044	335265.3032	362633.1213	39.925861	80.717328
M045	335351.6147	362623.1069	39.925822	80.717317
M046	335437.9662	362613.0925	39.925783	80.717306
M047	335524.3577	362603.0781	39.925744	80.717295
M048	335610.7892	362593.0637	39.925705	80.717284
M049	335697.2607	362583.0493	39.925666	80.717273
M050	335783.6722	362573.0349	39.925627	80.717262
M051	335870.1237	362563.0205	39.925588	80.717251
M052	335956.5152	362553.0061	39.925549	80.717240
M053	336042.9467	362542.9917	39.925510	80.717229
M054	336129.4182	362532.9773	39.925471	80.717218
M055	336215.9297	362522.9629	39.925432	80.717207
M056	336302.4812	362512.9485	39.925393	80.717196
M057	336389.0727	362502.9341	39.925354	80.717185
M058	336475.6042	362492.9197	39.925315	80.717174
M059	336562.1757	362482.9053	39.925276	80.717163
M060	336648.6872	362472.8909	39.925237	80.717152
M061	336735.2387	362462.8765	39.925198	80.717141
M062	336821.7302	362452.8621	39.925159	80.717130
M063	336908.2617	362442.8477	39.925120	80.717119
M064	336994.7332	362432.8333	39.925081	80.717108



REFERENCE
U.S.G.S. 7.5' TOPOGRAPHIC MAP, MARSHALL COUNTY, WEST VIRGINIA, 25-DIGIT, NW-10, QUAD 1500, PHOTOGRAPHIC, 1972 AND 1978.

SITE LIMITS OF DISTURBANCE (AC)	
WELL PAD	21.7
ACCESS ROAD	8.6
STOCKPILES	1.7
TOTAL AREA	32.0
WOODCROSS AREA DISTURBED	7.7

LIMIT OF DISTURBANCE IMPACTS (ROW/FORMER LAND USES) (AC)	
IMPACTS TO FURIGERIE (RENE HAZLETT) (AC)	
WELL PAD	12.7
ACCESS ROAD	2.3
STOCKPILES	1.7
TOTAL AREA	16.7
WOODCROSS AREA DISTURBED	2.4

IMPACTS TO TIMOTHY J. CAGLIARI (AC) (MULTIPLE PARCELS)	
WELL PAD	0.0
ACCESS ROAD	1.2
STOCKPILES	0.0
TOTAL AREA	1.2
WOODCROSS AREA DISTURBED	0.0

IMPACTS TO JARRID L. & TIMMI KENNY (AC)	
WELL PAD	0.0
ACCESS ROAD	0.0
STOCKPILES	0.0
TOTAL AREA	0.0
WOODCROSS AREA DISTURBED	0.0

DWG. NO.	SHEET TITLE	INCLUDED	LAST REVISED
CS 000	COVER SHEET	X	12/01/2018
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	12/01/2018
ES 104	WELL PAD PLAN VIEW	X	12/01/2018
ES 105	WELL PAD CROSS-SECTIONS	X	12/01/2018
ES 106	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 6)	X	12/01/2018
ES 107	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 6)	X	12/01/2018
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	12/01/2018
ES 111	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 6)	X	12/01/2018
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 100	GEOTECHNICAL SUBSURFACE SUMMARY	X	11/01/2018
GE 101	GEOTECHNICAL SITE PLAN WITH 2003 AERIAL	X	11/01/2018
GE 102	GEOTECHNICAL SITE PLAN WITH 2014 AERIAL	X	11/01/2018
GE 103	GEOTECHNICAL SITE PLAN WITH 2018 AERIAL	X	11/01/2018
GE 104	CROSS-SECTIONS	X	11/01/2018
GE 105	GEOTECHNICAL TABLES AND NOTES	X	11/01/2018
GE 106	GEOTECHNICAL DETAILS	X	11/01/2018
PC 100	SITE PLAN WITH AERIAL	X	11/01/2018
PC 101	POST-CONSTRUCTION RECLAMATION PLAN	X	11/01/2018
PC 102	POST-CONSTRUCTION RECLAMATION DETAILS	X	11/01/2018

LEGEND

<ul style="list-style-type: none"> EXISTING PROPERTY LINE EXISTING WELLS CONTROL EXISTING INTERMEDIATE CONDUIT EXISTING POWER ROW/MAN EXISTING UNIMANED ROW/MAN EXISTING GAS LINE EXISTING WATERLINE EXISTING TELECOMMUNICATIONS LINE EXISTING HIGH-VOLTAGE ELECTRIC LINE EXISTING UNDERGROUND ELECTRIC LINE EXISTING UNDERGROUND ELECTRIC LINE EXISTING STORMWATER COLLECTOR EXISTING FENCE EXISTING STREAM EXISTING WETLAND EXISTING TRAIL/ROAD EXISTING BRIDGE EXISTING STRUCTURE EXISTING UTILITY POLE EXISTING WATER METER EXISTING WATER MANHOLE EXISTING GAS WELL 	<ul style="list-style-type: none"> PROPOSED EDGE OF ACCESS ROAD PROPOSED LIMIT OF DISTURBANCE PROPOSED WELL HEAD AND COLLAR PROPOSED CONCRETE/STEEL BOX PROPOSED DRIVE PROPOSED ASPHALT PAVEMENT 	<ul style="list-style-type: none"> PROPOSED HIGH EXISTING PROPOSED INTERMEDIATE CONDUIT PROPOSED WELL PAD CUT/FILL VOLUME PROPOSED SIGN ELEVATION 	<ul style="list-style-type: none"> PROPOSED DUMPST FILTER SOCK TRAP PROPOSED 18-IN DUMPST FILTER SOCK PROPOSED 24-IN DUMPST FILTER SOCK PROPOSED 32-IN DUMPST FILTER SOCK PROPOSED CHANGE CONSTRUCTION PRACTICE PROPOSED ROCK CONSTRUCTION CHANGE PROPOSED WAT PROTECTION PROPOSED EROSION CONTROL BLANKET 	<ul style="list-style-type: none"> EXISTING DRIVEWAY (TO BE DELETED) PROPOSED DRIVEWAY PROPOSED STORMWATER DRAINAGE PROPOSED WELLS PROPOSED WATER METER PROPOSED UNDERGROUND
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MISS UTILITY OF WEST VIRGINIA
1-800-245-AS46
West Virginia State Law
Section 20-2-2: "Whenever a utility is located on a public highway, it shall be located on the right side of the highway."
IT'S THE LAW

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

COVER SHEET

Project Number: 180220
Drawing Scale: 1"=500'
Date Issued: 12/27/2018
Issue Number:
Drawn By: JSH
Checked By: JSH
Project Manager: JSH

CS 000

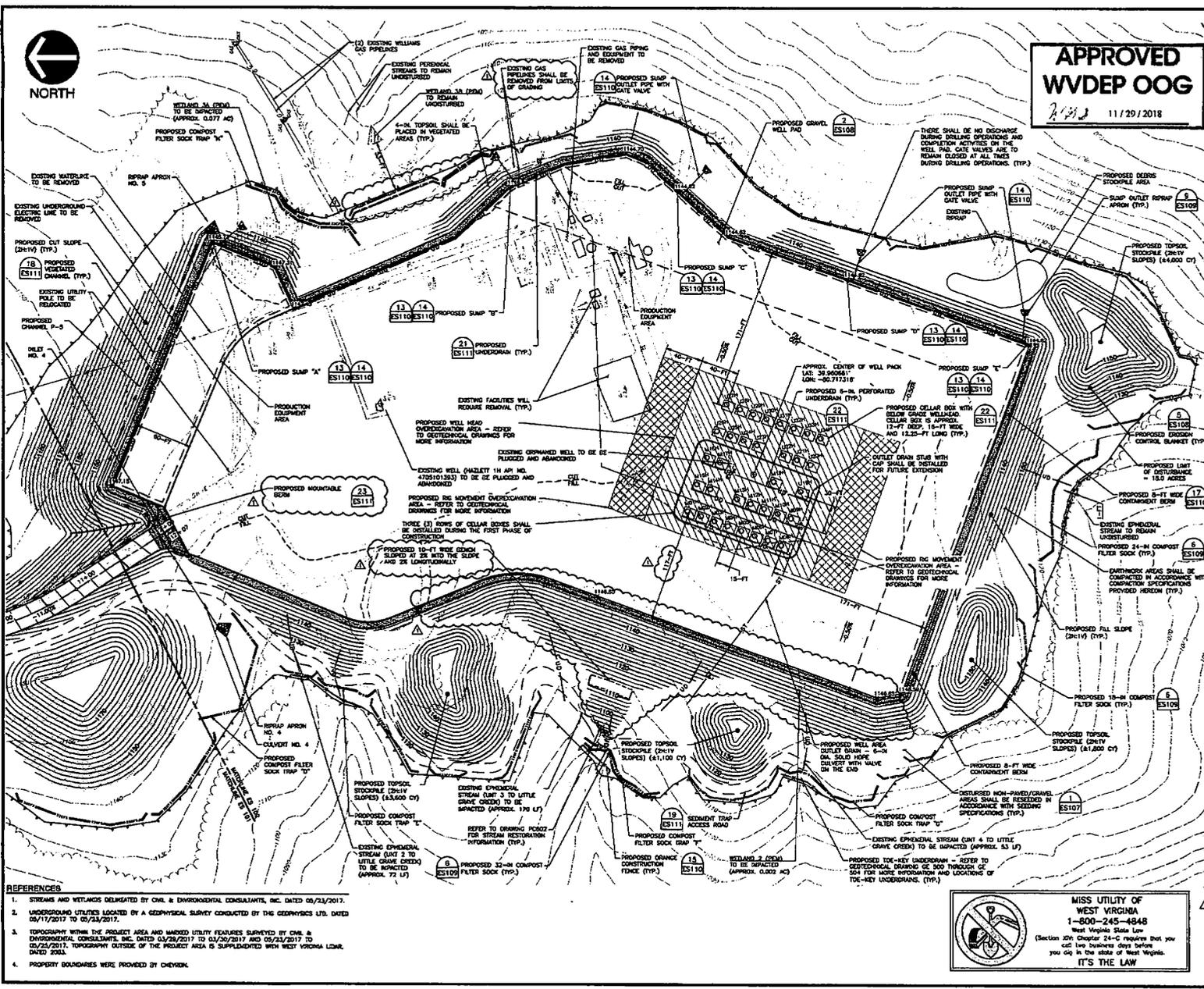


APPROVED
WVDEP OOG
11/29/2018

- LEGEND**
- EXISTING WOOD RIGHT-OF-WAY
 - EXISTING PROPERTY LINE
 - EXISTING BACK CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING PAVED ROADWAY
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING UNDERWATER CABLEWAY
 - EXISTING FENCE
 - EXISTING STREAM
 - EXISTING WETLAND
 - EXISTING TREELINE
 - EXISTING RRWAY
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - EXISTING WATER METER
 - EXISTING WATER MANHOLE
 - EXISTING GAS WELL
 - PROPOSED DOCK OF ACCESS ROAD
 - PROPOSED LIMIT OF DISTURBANCE
 - 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
 - 11" BRUSHWOOD COMPOST FILTER SOCK TRAP
 - 18" COMPOST FILTER SOCK
 - 24" COMPOST FILTER SOCK
 - 32" COMPOST FILTER SOCK
 - PROPOSED BRIDGE CONSTRUCTION ENTRANCE
 - PROPOSED ROCK PROTECTION
 - PROPOSED GRASS CONTROL BLANKET
 - EXISTING CHANNEL (TO BE UTILIZED)
 - PROPOSED UNDERDRAIN
 - PROPOSED STORMWATER CHAUVY
 - PROPOSED RRWAY APRON
 - PROPOSED UNDERDRAIN
 - DETAIL HUBBER
 - DRAWING DESCRIPTION

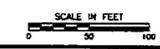
- STREAM AND WETLAND NOTES**
1. WETLAND WARRIORS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100'-FT OF THE LIMIT OF DISTURBANCE. WETLANDS 1A, 2A, 3A, AND 4. WETLANDS 1A AND 2A CROSS THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY BARRICADED.
 2. THE FOLLOWING FOUR (4) WETLANDS AND (3) EPHEMERAL STREAMS LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE WATERFOWL PROTECT 35 FOR PERMANENT EFFECTS. WETLAND 1A, 1B, 2, 3A, AND STREAMS UNIT 2, UNIT 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 BARRED IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
 4. UNDERDRAINS SHOWN HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH GREATER THAN 10-TON WEIGHT IN COMPACTED LIFTS NOT EXCEEDING 12 INCHES THICK. USE A PROVED LOOSE LIFT THICKNESS OF 4 INCHES (MAXIMUM) IN AREAS WHERE STRIP-PLATE TAMPERS OR OTHER HAND-OPERATED COMPACTORS ARE BEING USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 8 INCHES IN STRUCTURAL FILL AREAS WHERE HEAVY, SELF-PROPELLED COMPACTORS ARE UTILIZED. A PROVED MAXIMUM PARTICLE SIZE OF 3 INCHES SHOULD BE USED IN AREAS WHERE HAND-OPERATED COMPACTORS ARE USED. WASTE OVERSIZED PARTICLES (EXCEEDING THE MAXIMUM PARTICLE SIZE INDICATED ABOVE) OUTSIDE OF THE PROPOSED FILL AREAS OR IN DEEPER AREAS OF FILL OVERSIZED ROCK PARTICLES AND OTHER MATERIALS EXCEEDING 8 INCHES PLACED IN THE DEEPEST LIFTS OF FILL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 24 INCHES THICK SHOULD BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
 2. COMPACT ALL PAD AND ROADWAY SUBBASES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY ROUGHNESS OR 93 PERCENT OF THE OPTIMUM MOISTURE CONTENT. EXTENDING MAXIMUM DRY ROUGHNESS AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).



- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY ONE & ENVIRONMENTAL CONSULTANTS, INC. DATED 09/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 09/17/2017 TO 09/23/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY ONE & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/28/2017 TO 03/30/2017 AND 05/23/2017 TO 05/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LGM, DATED 2008.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

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



REVISION RECORD

NO.	DATE	DESCRIPTION
1	11/29/2018	ISSUE FOR OOG COMMENTED AND DATED
2		
3		
4		
5		
6		
7		
8		
9		
10		

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

EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)

Project Number: 164-756
Drawing Scale: 1"=50'
Date Issued: 01/20/2018
Index Number:
Drawn By: BSB
Checked By: JLM
Project Manager: BLS

ES 102