



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 M17H
47-051-02112-00-00

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 M17H
Farm Name: IRENE HAZLETT - LIFE
U.S. WELL NUMBER: 47-051-02112-00-00
Horizontal 6A New Drill
Date Issued: 11/30/2018

PERMIT CONDITIONS

4705102112

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.

API Number: _____

PERMIT CONDITIONS

4705102112

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:

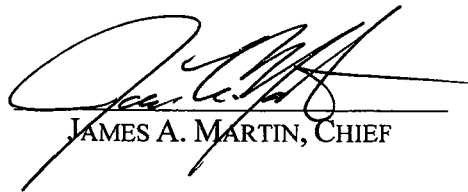
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment 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.

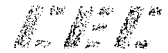
IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:

A handwritten signature in black ink, appearing to read 'J. A. Martin', written over a horizontal line.

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; ^λ
- Wetland 3A – 0 linear feet;
- Wetland 3B – 53 linear feet; and
- Wetland 4 – 1 linear foot. ^λ

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.

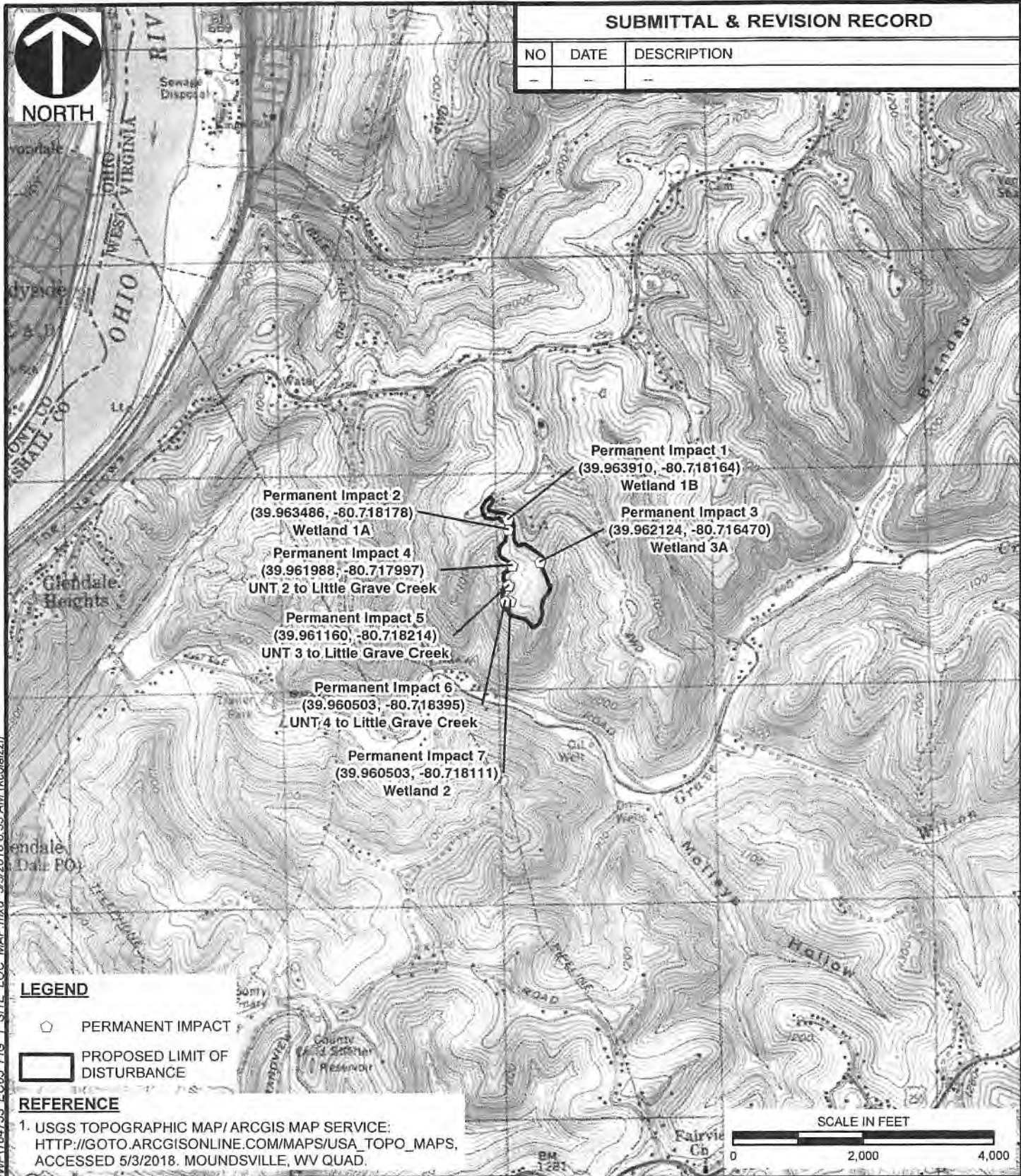
Please refer to Section 2.0, Question 4 of the letter.

ATTACHMENT B

FIGURES

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
-	-	-



- Permanent Impact 1
(39.963910, -80.718164)
Wetland 1B
- Permanent Impact 2
(39.963486, -80.718178)
Wetland 1A
- Permanent Impact 3
(39.962124, -80.716470)
Wetland 3A
- Permanent Impact 4
(39.961988, -80.717997)
UNT 2 to Little Grave Creek
- Permanent Impact 5
(39.961160, -80.718214)
UNT 3 to Little Grave Creek
- Permanent Impact 6
(39.960503, -80.718395)
UNT 4 to Little Grave Creek
- Permanent Impact 7
(39.960503, -80.718111)
Wetland 2

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. MOUNDVILLE, WV QUAD.



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

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

SITE LOCATION MAP

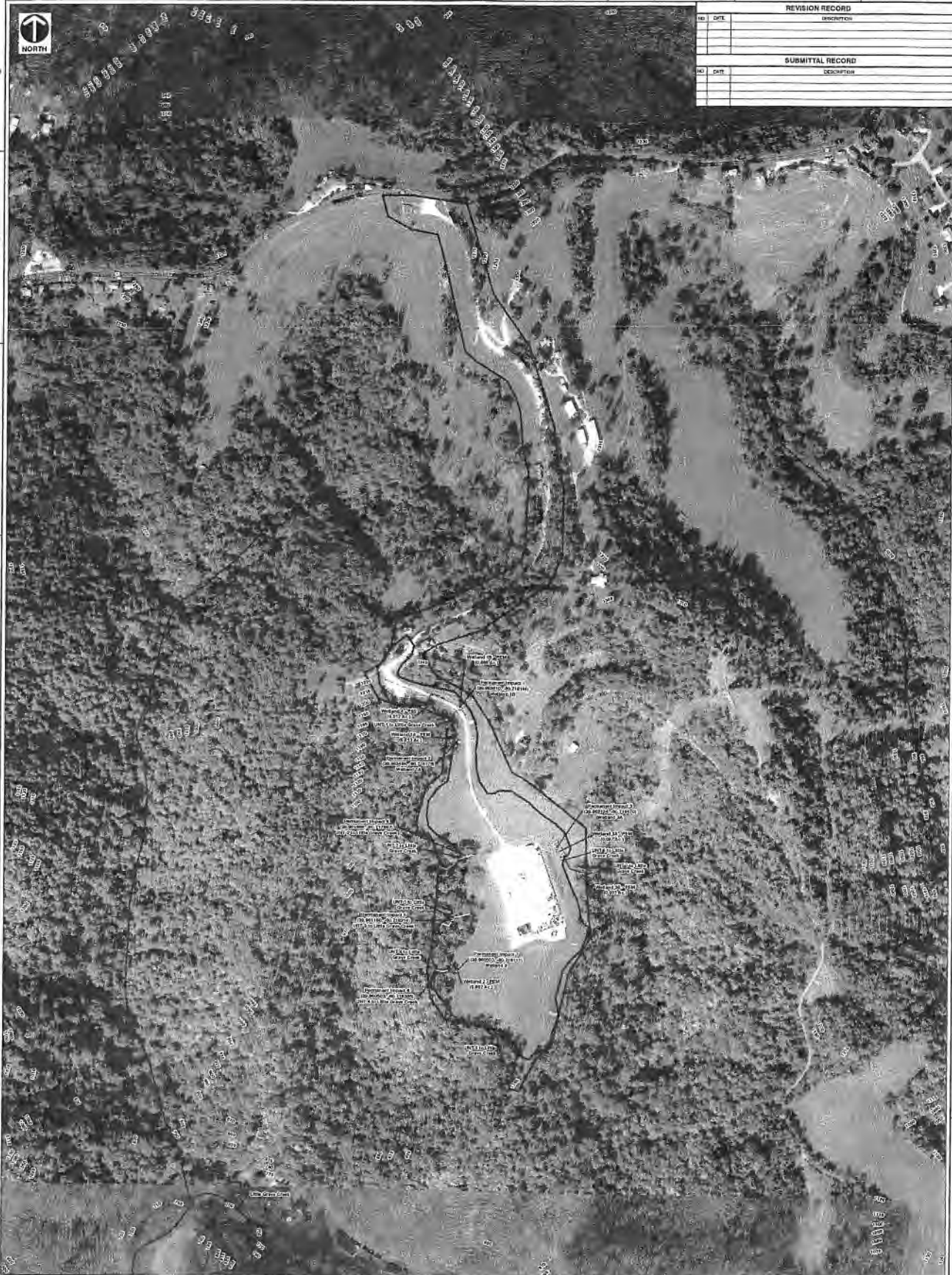
DRAWN BY:	KMC	CHECKED BY:	SVP	APPROVED BY:	PAK*	FIGURE NO:	1
DATE:	05/03/2018	SCALE:	1" = 2,000'	PROJECT NO:	164-755	* Hand signature on file	

P:\2016\164-755-GIS\Maps\EC05_NWMP\164755_EC05_FIG_1_SITE_LOC_MAP.mxd 5/3/2018 8:33 AM (kcolarzi)



REVISION RECORD	
NO.	DATE

SUBMITTAL RECORD	
NO.	DATE




LEGEND

	PERMANENT IMPACT
	PROPOSED STREAM IMPACT
	EPHEMERAL STREAM
	INTERMITTENT STREAM
	WW HHD STREAM
	WETLAND - PEM
	WETLAND - PWS
	PROPOSED LIMIT OF DISTURBANCE
	DELINEATION BOUNDARY
	10-FOOT CONTOUR

- REFERENCES**
1. USGS NATIONAL HYDROGRAPHIC DATASET FOR WEST VIRGINIA, 2015
 2. WVGS CLEARING HOUSE, 10' CONTOURS, MOUNDEVILLE, WV (2/14/16, 2/28/16)
 3. ESRI WORLD IMAGERY (ARCOS MAP SERVICE: http://101.100.10.100/arcgis/online.com/maps/world_basemap), ACCESSIBLE 8/10/16, IMAGERY DATE: 2015.

NOTES

1. THE WETLAND AND STREAM DELINEATION WAS CONDUCTED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON 08/02/2017.
2. CIVIL & ENVIRONMENTAL CONSULTANTS, INC. CONDUCTED THE WETLAND DELINEATION IN A MANNER CONSISTENT WITH THE CRITERIA CONTAINED IN THE 1987 U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL (1987 MANUAL) AND THE 2012 REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL - EASTERN MOUNTAINS AND PRELUDE REGION, VERSION 2 (2012 REGIONAL SUPPLEMENT), AND WITH THE LEVEL OF CARE AND SKILL PRIMARILY EXERCISED BY MEMBERS OF THE ENVIRONMENTAL CONSULTING PROFESSION PRACTICING CONTEMPORARILY UNDER SIMILAR CONDITIONS IN THE LOCALITY OF THE PROJECT. IT MUST BE RECOGNIZED THE WETLAND DELINEATION WAS BASED ON FIELD OBSERVATIONS AND CIVIL & ENVIRONMENTAL CONSULTANTS' PROFESSIONAL INTERPRETATION OF THE CRITERIA IN THE 1987 MANUAL AND THE 2012 REGIONAL SUPPLEMENT OF THE CRITERIA. SUBSEQUENT TO CIVIL & ENVIRONMENTAL CONSULTANTS' DELINEATION BASED ON CHANGES TO REGULATORY CRITERIA, CHANGES TO DRAINAGE, AND OTHER HUMAN ACTIVITIES AND/OR LAND DISTURBANCES.

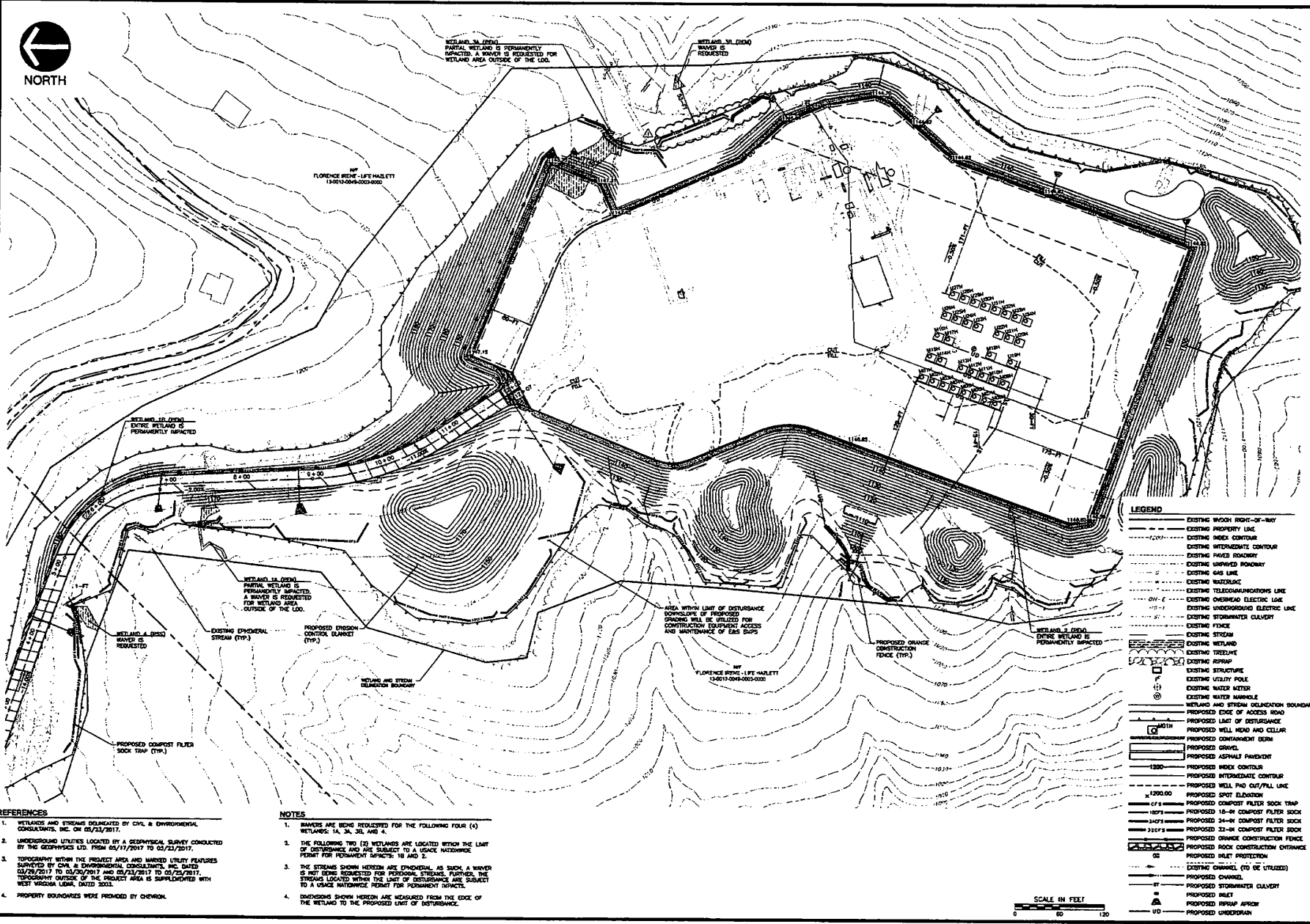


Civil & Environmental Consultants, Inc.
 4001 Thornhill Lane, Suite 200, Export, PA 15622
 Ph: 724-207-8200 • 800-899-3619
www.cecinc.com

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

DATE: 05-03-2018	DRAWN BY: RYAN	SCALE: 1" = 200'	PROJECT NO: 168-275
AQUATIC IMPACTS MAP			2

C:\Users\jgibson\Documents\proj\168-275\168-275_050318\168-275_050318.dwg



WETLAND 1A (2004)
PARTIAL WETLAND IS PERMANENTLY IMPACTED. A WAIVER IS REQUESTED FOR WETLAND AREA OUTSIDE OF THE LOD.

WETLAND 1B (2004)
WAIVER IS REQUESTED.

WETLAND 1C (2004)
PARTIAL WETLAND IS PERMANENTLY IMPACTED. A WAIVER IS REQUESTED FOR WETLAND AREA OUTSIDE OF THE LOD.

WETLAND 1A (2004)
PARTIAL WETLAND IS PERMANENTLY IMPACTED. A WAIVER IS REQUESTED FOR WETLAND AREA OUTSIDE OF THE LOD.

WETLAND 1B (2004)
ENTIRE WETLAND IS PERMANENTLY IMPACTED.

WETLAND 1C (2004)
WAIVER IS REQUESTED.

WETLAND AND STREAM DELINEATION BOUNDARY

AREA WITHIN LIMIT OF DISTURBANCE DOWNSLOPE OF PROPOSED GRADING WILL BE UTILIZED FOR CONSTRUCTION EQUIPMENT ACCESS AND MAINTENANCE OF EAS DIPS

PROPOSED ORANGE CONSTRUCTION FENCE (TYP.)

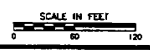
WETLAND 1B (2004)
ENTIRE WETLAND IS PERMANENTLY IMPACTED.

- REFERENCES**
1. WETLANDS AND STREAMS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON 05/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSIC LID. FROM 05/17/2017 TO 05/23/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2017 TO 05/23/2017 AND 05/23/2017 TO 05/23/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LEGAL, DATED 2011.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEYRON.

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

LEGEND

---	EXISTING WOOD RIGHT-OF-WAY
---	EXISTING PROPERTY LINE
---	EXISTING INDEX CONTOUR
---	EXISTING INTERMEDIATE CONTOUR
---	EXISTING PAVED ROADWAY
---	EXISTING UNPAVED ROADWAY
---	EXISTING GAS LINE
---	EXISTING MEDICAL GAS LINE
---	EXISTING TELECOMMUNICATIONS LINE
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING STEAM/WATER CAULDRY
---	EXISTING FENCE
---	EXISTING STREAM
---	EXISTING WETLAND
---	EXISTING TRENCH
---	EXISTING RIPRAP
---	EXISTING STRUCTURE
---	EXISTING UTILITY POLE
---	EXISTING WATER METER
---	EXISTING WATER MANHOLE
---	WETLAND AND STREAM DELINEATION BOUNDARY
---	PROPOSED EDGE OF ACCESS ROAD
---	PROPOSED LIMIT OF DISTURBANCE
---	PROPOSED WELL HEAD AND CELLAR
---	PROPOSED CONTAINMENT BERM
---	PROPOSED GRADING
---	PROPOSED ASPHALT PAVEMENT
---	PROPOSED INDEX CONTOUR
---	PROPOSED INTERMEDIATE CONTOUR
---	PROPOSED SPOT ELEVATION
---	PROPOSED COMPOST FILTER SOCK TRAP
---	PROPOSED 18-IN COMPOST FILTER SOCK
---	PROPOSED 24-IN COMPOST FILTER SOCK
---	PROPOSED 33-IN COMPOST FILTER SOCK
---	PROPOSED ORANGE CONSTRUCTION FENCE
---	PROPOSED ROCK CONSTRUCTION OUTRIGGE
---	PROPOSED INLET PROTECTION
---	PROPOSED CHANNEL (TO BE UTILIZED)
---	PROPOSED CHANNEL
---	PROPOSED STORMWATER CAULDRY
---	PROPOSED INLET
---	PROPOSED RIPRAP APRON
---	PROPOSED CHECKDRAIN



CEE
Civil & Environmental Consultants, Inc.
4000 Through Lane, Suite 200 - Sparks, PA 15858
Phone: 814-438-8870
Fax: 814-438-8870

REVISION RECORD

DATE	NO.	DESCRIPTION

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

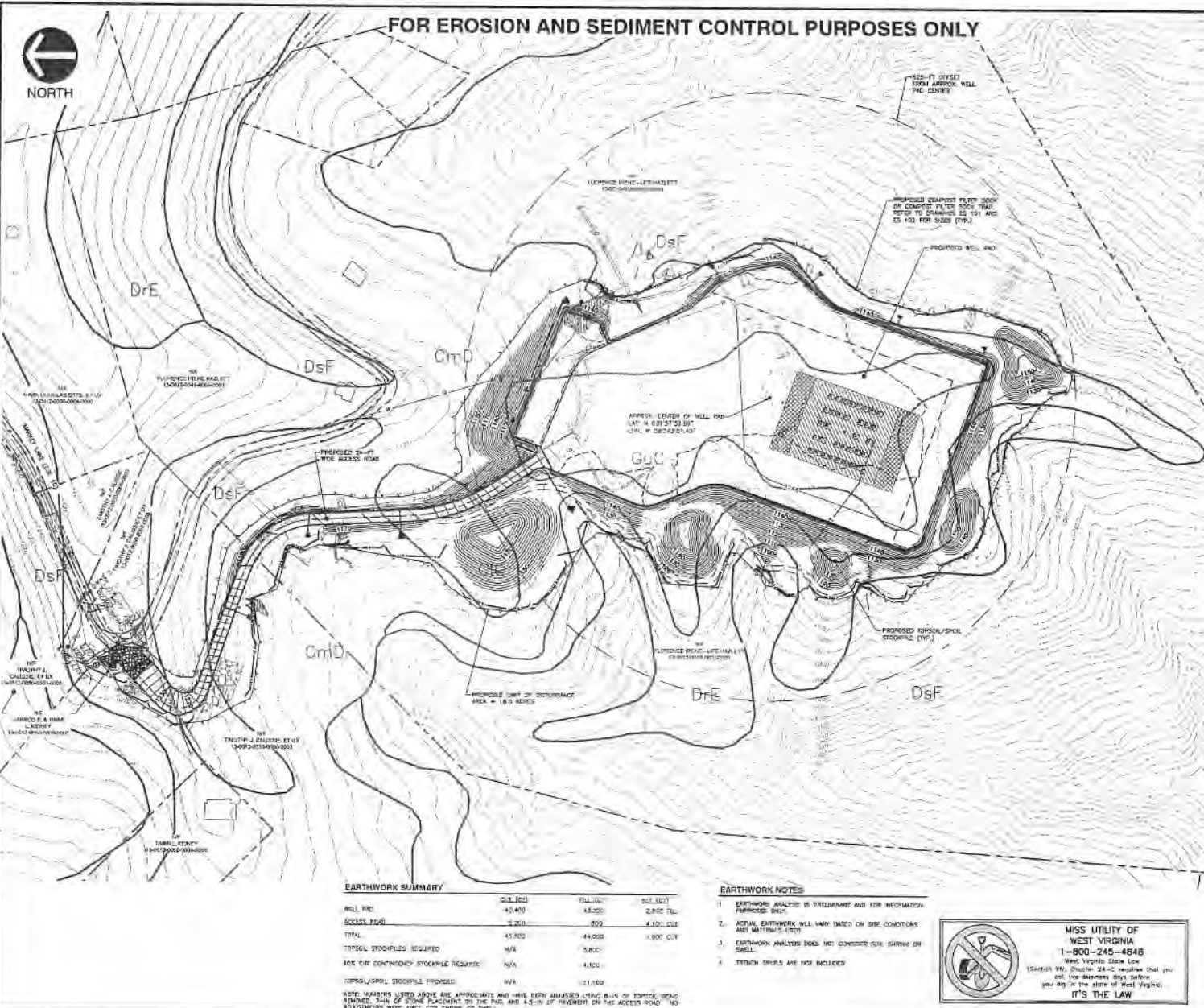
WETLAND WAIVER REQUEST FIGURE

Project Number: 154-755
Drawing Scale: 1"=50'
Date Issued: 02/20/18
Index Number:
Drawn By: BDB
Checked By: BAO
Project Manager: BAK

FIG. 3

ATTACHMENT C
EROSION AND SEDIMENT CONTROL PLAN

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



SCALE IN FEET
0 200 400

REFERENCE
U.S.C.S. 7.5' TOPOGRAPHIC MAP, MONROEVILLE QUADRANGLE, W.V.-OH DATED 1976

- LEGEND**
- EXISTING WASH RIGHT-OF-WAY
 - EXISTING PROPERTY LINE
 - EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING PAVED ROADWAY
 - EXISTING UNPAVED ROADWAY
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING STORMWATER CULVERT
 - EXISTING STREAM
 - EXISTING WETLAND
 - EXISTING TREE LINE
 - EXISTING FENCE
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - EXISTING WATER METER
 - EXISTING WATER MANHOLE
 - EXISTING GAS WELL
 - PROPOSED EDGE OF ACCESS ROAD
 - PROPOSED LIMIT OF DISTURBANCE
 - PROPOSED WELL HEAD AND CELLAR
 - PROPOSED CONCRETE RETAIN WALL
 - PROPOSED GRAVEL
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED WELL PAD CITY/STATE LINE
 - PROPOSED SPOT ELEVATION
 - PROPOSED COMPOST FILTER SOCK TRAP
 - PROPOSED 18-IN COMPOST FILTER SOCK
 - PROPOSED 24-IN COMPOST FILTER SOCK
 - PROPOSED 30-IN COMPOST FILTER SOCK
 - PROPOSED CHANGE CONSTRUCTION ENTRANCE
 - PROPOSED ROCK CONSTRUCTION ENTRANCE
 - PROPOSED WELD PROTECTION
 - EXISTING CHANNEL (TO BE UTILIZED)
 - PROPOSED CHANNEL
 - PROPOSED STORMWATER CULVERT
 - PROPOSED INLET
 - PROPOSED BRUSH APRON
 - PROPOSED LANDSCAPE
 - USDA SOIL BOUNDARY
 - SOIL BOUNDARY LABEL

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY DIAL & ENVIRONMENTAL CONSULTANTS, INC. DATED 07/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 05/17/2017 TO 05/21/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY DIAL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 03/30/2017 AND 05/23/2017 TO 05/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LEGAL, DATED 2003.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

EARTHWORK SUMMARY

	QTY (LBS)	WILLIAM	SILT (CY)
WELL PAD	45,400	43,000	2,400 TIL
ACCESS ROAD	5,200	500	4,700 CUB
TOTAL	45,700	44,000	7,100 CUB
TOPSOIL STOCKPILES REQUIRED	N/A	5,800	
FOR OUR GOVERNMENT STOCKPILE REQUIRE	N/A	4,100	
TOPSOIL/SPILL STOCKPILE PROVIDED	N/A	21,000	

NOTE: NUMBERS LISTED ABOVE ARE APPROXIMATE AND HAVE BEEN ADJUSTED USING 8-IN OF TOPSOIL BEING REMOVED, 7-IN OF STONE PLACEMENT TO THE PAD AND 4-IN OF TOPSOIL ON THE ACCESS ROAD AND ADJUSTMENTS WERE MADE FOR TRUCK OR SWELL.

- EARTHWORK NOTES**
1. EARTHWORK ANALYSIS IS ENTIREMENT AND FOR INFORMATION PURPOSES ONLY.
 2. ACTUAL EARTHWORK WILL VARY BASED ON SITE CONDITIONS AND MATERIALS USED.
 3. EARTHWORK ANALYSIS DOES NOT CONSIDER SOIL SWELL OR TRUCK SPILLS.
 4. TRUCK SPILLS ARE NOT INCLUDED.

MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
West Virginia State Law
Section 20, Chapter 24-C requires that you call for services 30 days before you dig in the state of West Virginia.
IT'S THE LAW

SCALE IN FEET
0 100 200

CEE
Civil & Environmental Consultants, Inc.
4001 Huddlestone Lane, Suite 201 • Eugene, OR 97402
731.377.0200 • 800.488.8413
www.ceeinc.com



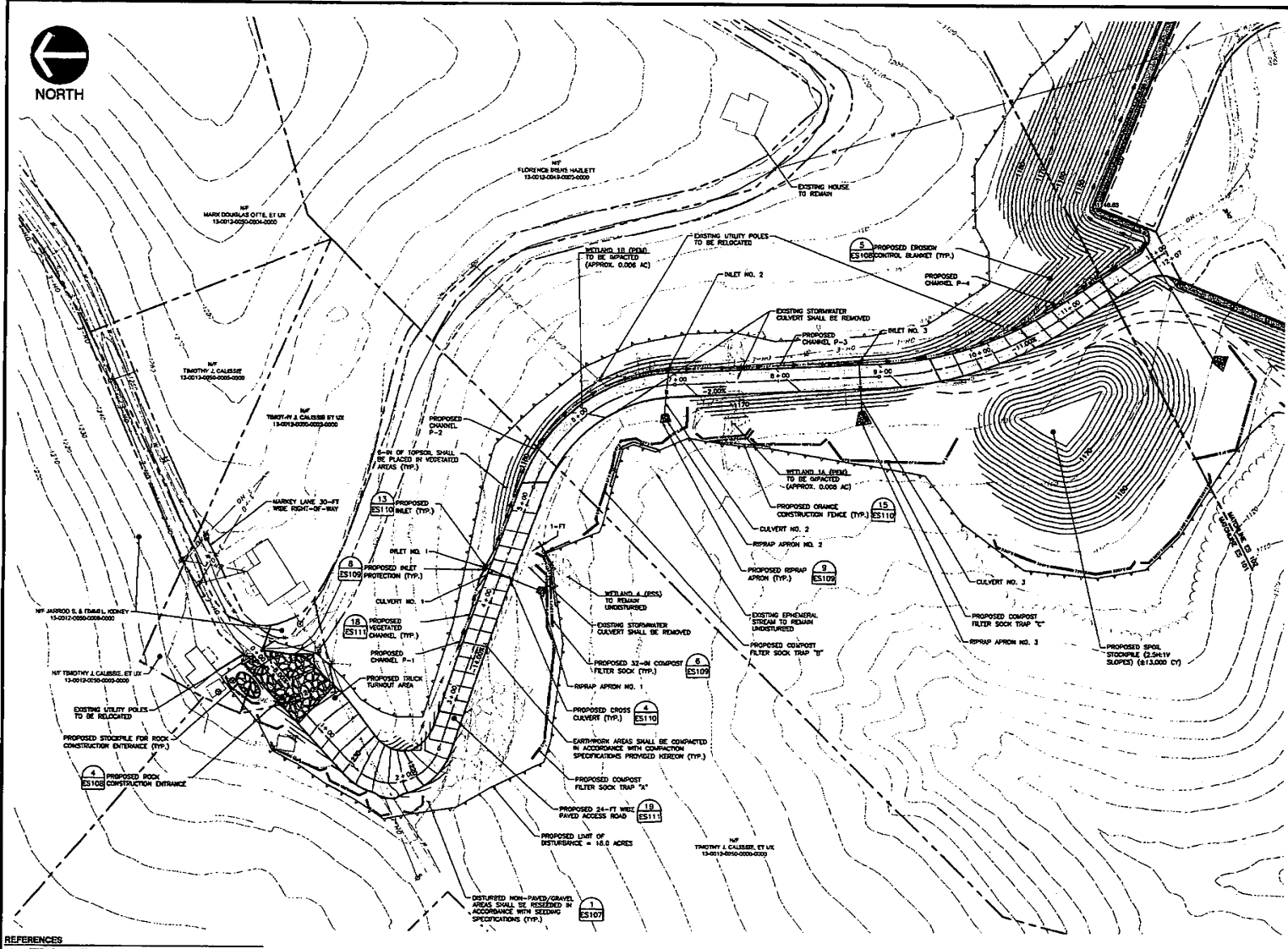
REVISION RECORD

NO.	DATE	DESCRIPTION
1	05/23/2017	ISSUED FOR PERMIT
2	05/23/2017	ISSUED FOR PERMIT
3	05/23/2017	ISSUED FOR PERMIT
4	05/23/2017	ISSUED FOR PERMIT
5	05/23/2017	ISSUED FOR PERMIT
6	05/23/2017	ISSUED FOR PERMIT
7	05/23/2017	ISSUED FOR PERMIT
8	05/23/2017	ISSUED FOR PERMIT
9	05/23/2017	ISSUED FOR PERMIT
10	05/23/2017	ISSUED FOR PERMIT

HAZLETT WELL PAD
MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR:
CHEVRON APPALACHIA, LLC
700 MARKET STREET, SUITE 200
CORAOPOLIS, PA 15063

OVERALL EROSION AND SEDIMENTATION CONTROL PLAN
Project Number: 164-755
Drawing Scale: 1"=100'
Date Issued: 05/23/2017
Issue Number:
Drawn By: JAC
Checked By: JAM
Project Manager: CRAFT

ES 100



LEGEND

	EXISTING 1000 FOOT RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING PAVED ROADWAY
	EXISTING UNPAVED ROADWAY
	EXISTING GAS LINE
	EXISTING WATERLINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING STORMWATER CULVERT
	EXISTING FENCE
	EXISTING STREAM
	EXISTING WETLAND
	EXISTING TREE LINE
	EXISTING RIPRAP
	EXISTING STRUCTURE
	EXISTING UTILITY POLE
	EXISTING WATER METER
	EXISTING WATER MANHOLE
	EXISTING GAS WELL
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED WELL HEAD AND CELLAR
	PROPOSED COMPARTMENT BERM
	PROPOSED GRAVEL
	PROPOSED ASPHALT PAVEMENT
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED WELL PAD CUT/FILL LINE
	PROPOSED SPOT ELEVATION
	PROPOSED COMPACT FILTER SOCK TRAP
	PROPOSED 18-IN COMPACT FILTER SOCK
	PROPOSED 24-IN COMPACT FILTER SOCK
	PROPOSED 36-IN COMPACT FILTER SOCK
	PROPOSED ORANGE CONSTRUCTION FENCE
	PROPOSED ROCK CONSTRUCTION ENTRANCE
	PROPOSED INLET PROTECTION
	PROPOSED EROSION CONTROL BLANKET
	EXISTING CHANNEL (TO BE UNLINED)
	PROPOSED CHANNEL
	PROPOSED STORMWATER CULVERT
	PROPOSED INLET
	PROPOSED RIPRAP APRON
	PROPOSED UNDERPASS
	DETAIL LOCATION
	DRAINAGE DESIGNATION

STREAM AND WETLAND NOTES

1. WETLAND NUMBERS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE. WETLANDS 1A, 1B, 2A, AND 2B ARE PARTIALLY PERMANENTLY DISTURBED.
2. THE FOLLOWING FOUR (4) WETLANDS AND (2) EPHEMERAL STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE MITIGATION PROJECT 20 FOR PERMANENT IMPACTS. WETLAND 1A, 1B, 2A, AND 2B AND STREAMS 1A AND 2A CROSS THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY DISTURBED.
3. THE STREAMS SHOWN HEREIN OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT AS SUCH. A NUMBER IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
4. DIMENSIONS SHOWN HEREIN ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

COMPACTION SPECIFICATIONS

1. ALL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY WITHIN 1.5 FEET OF THE SURFACE OF ALL FINISHED AREAS. THE COMPACTED SOIL SHALL BE TESTED IN ACCORDANCE WITH ASTM D1557. THE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 14 DAYS OF THE DATE OF TESTING. THE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 14 DAYS OF THE DATE OF TESTING. THE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 14 DAYS OF THE DATE OF TESTING.
2. COMPACT ALL PAD AND ROADWAY SUBGRADES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 100 PERCENT OF ITS MAXIMUM DRY DENSITY WITHIN 1.5 FEET OF THE OPTIMUM MOISTURE CONTENT. INTERMEDIATE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CML & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2017.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICAL LTD. DATED 05/17/2017 TO 05/23/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND IMMEDIATE ADJACENT AREAS SURVEYED BY CML & ENVIRONMENTAL CONSULTANTS, INC. DATED 02/29/2017 TO 03/29/2017 AND 03/23/2017 TO 03/27/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LAMM, DATED 2003.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.



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



CEL
 Civil & Environmental Consultants, Inc.
 4000 Tenthon Lane, Suite 300 - Export, PA 15622
 724-237-3300 - 800-699-9010
 www.celinc.com



REVISION RECORD

Date	By	Description
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT
08/21/2018	ES	ISSUE FOR PERMIT

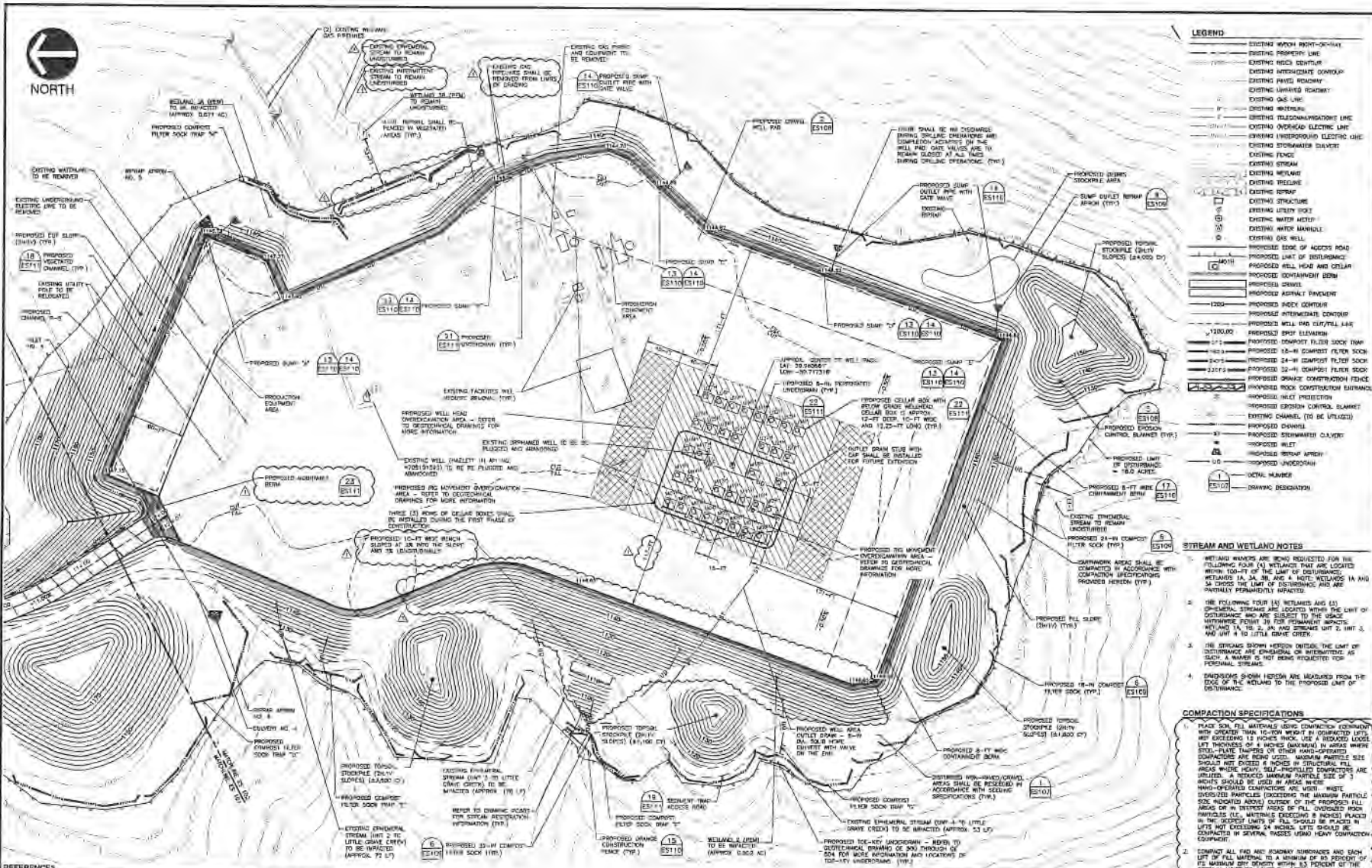
HAZZETT WELL PAD
 HAZEN & SLICKER
 MARSHALL COUNTY, WEST VIRGINIA
 PREPARED FOR:
CHEVRON APPALACHIA, LLC
 700 CHERINGTON PARKWAY
 CORAOPOLIS, PA 15108

EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)

Project Number: 164-775
 Drawing Scale: 1"=40'
 Date Issued: 07/20/18
 Index Number: ES-101
 Drawn By: JES
 Checked By: JAM
 Project Manager: DRAFT

ES 101

Map & Annotations for this project were prepared by the author of this drawing. The author is not responsible for any errors or omissions on this drawing. The author is not responsible for any errors or omissions on this drawing. The author is not responsible for any errors or omissions on this drawing.



LEGEND

[Symbol]	EXISTING HIGHWAY RIGHT-OF-WAY
[Symbol]	EXISTING POWERLINE
[Symbol]	EXISTING HOCS CENTERLINE
[Symbol]	EXISTING INTERSTATE CORRIDOR
[Symbol]	EXISTING PAVED ROADWAY
[Symbol]	EXISTING UNPAVED ROADWAY
[Symbol]	EXISTING GAS LINE
[Symbol]	EXISTING WATERLINE
[Symbol]	EXISTING TELECOMMUNICATIONS LINE
[Symbol]	EXISTING OVERHEAD ELECTRIC LINE
[Symbol]	EXISTING UNDERGROUND ELECTRIC CABLE
[Symbol]	EXISTING STORAGE TANK
[Symbol]	EXISTING FENCE
[Symbol]	EXISTING STREAM
[Symbol]	EXISTING WETLAND
[Symbol]	EXISTING DRAINAGE
[Symbol]	EXISTING REPAIR
[Symbol]	EXISTING STRUCTURE
[Symbol]	EXISTING UTILITY POLE
[Symbol]	EXISTING WATER METER
[Symbol]	EXISTING WATER MANHOLE
[Symbol]	EXISTING GAS WELL
[Symbol]	PROPOSED EDGE OF ACCESS ROAD
[Symbol]	PROPOSED LIMIT OF RESTORANCE
[Symbol]	PROPOSED WELL HEAD AND CELLAR
[Symbol]	PROPOSED CONTAINMENT BERM
[Symbol]	PROPOSED DRIVEWAY
[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED ROCK CONSTRUCTION
[Symbol]	PROPOSED INTERSTATE CORRIDOR
[Symbol]	PROPOSED WELL PAD CURTAIN WALL
[Symbol]	PROPOSED BRIT LUMBER
[Symbol]	PROPOSED COMPACT FLESH SOCK MAT
[Symbol]	PROPOSED 18-IN COMPACT FLESH SOCK
[Symbol]	PROPOSED 24-IN COMPACT FLESH SOCK
[Symbol]	PROPOSED 32-IN COMPACT FLESH SOCK
[Symbol]	PROPOSED ORANGE CONSTRUCTION FENCE
[Symbol]	PROPOSED ROCK CONSTRUCTION EMBANKMENT
[Symbol]	PROPOSED INLET PROTECTION
[Symbol]	PROPOSED EROSION CONTROL BLANKET
[Symbol]	EXISTING CHANNEL (TO BE FILLING)
[Symbol]	PROPOSED CHANNEL
[Symbol]	PROPOSED STORMWATER CULVERT
[Symbol]	PROPOSED INLET
[Symbol]	PROPOSED STORM WATER ATTENUATION
[Symbol]	PROPOSED UNDERPASS
[Symbol]	DETAIL NUMBER
[Symbol]	DRAWING DESIGNATION

- STREAM AND WETLAND NOTES**
1. WETLAND MATRICES ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE. WETLAND 1A, 1A, 2B, AND 4. NOTE: WETLANDS 1A AND 2B CHOOSE THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY IMPACTED.
 2. THE FOLLOWING FOUR (4) WETLANDS ARE (A) SPERMATOPHYTES ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE WETLANDS POLICY OR FOR PERMANENT IMPACTS. WETLAND 1A, 1A, 2B, AND 2B CHOOSE THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY IMPACTED.
 3. THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE CHANNELS OR INTERMITTENT AS SUCH A NUMBER IS NOT BEING PROVIDED FOR PERMANENT STREAMS.
 4. EMBANKMENTS SHOWN HEREON ARE REQUESTED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. FILL SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH GREATER THAN 10-TON WEIGHT IS COMPACTED UNTIL THE EXCEEDING 12 INCHES THICK. USE A REDUCED LOADS PER INCHES OF 4 INCHES EQUIPMENT IS USED WHEN STEEL-PLATE TAMPERS OR OTHER HAND-OPERATED COMPACTION ARE USED. HEAVY, SELF-PROPELLED EQUIPMENT ARE SHOULD NOT EXCEED 6 INCHES IN STRUCTURAL FILL AREAS UNLESS HEAVY, SELF-PROPELLED EQUIPMENT ARE UTILIZED. A REDUCED MAXIMUM PARTICLE SIZE OF 3/8 INCHES SHOULD BE USED IN AREAS WHERE HAND-OPERATED COMPACTION ARE USED. WASTE DISTRIBUED MATERIALS (EXCEPTING THE MAXIMUM PARTICLE SIZE INDICATED ABOVE) OUTSIDE OF THE PROPOSED FILL AREAS OF 10 FEET OR MORE OF FILL DISTRIBUED FROM PARTICLES OF 1/2 INCHES EXCEEDING 8 INCHES SHOULD BE PLACED IN THE DEEPEST LIMITS OF FILL SHOULD BE PLACED IN LOTS NOT EXCEEDING 6 INCHES. LOTS SHOULD BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
 2. COMPACT ALL PAD AND ROADWAY SURROUNDS AND EACH LOT OF FILL MATERIAL TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY DENSITY WITHIN 1.5 FEET OF THE BOTTOM MATURE CONTACT. STRUCTURE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D998 (STANDARD PROCTOR).

- REFERENCES**
1. STREAMS AND WETLANDS DEMARCATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/22/2017.
 2. UNCONFINED UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICAL LTD. DATED 02/11/2017 TO 05/23/2017.
 3. TOPOGRAPHY WITHIN THE PROJECT AREA AND AIRBORNE UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/28/2017 TO 03/30/2017 AND 03/23/2017 TO 03/25/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LOCAL DATUM 2005.
 4. PROPERTY BOUNDARIES WERE PROVIDED BY CLIENT.

MISS UTILITY OF WEST VIRGINIA
 1-800-245-4848
 West Virginia State Law
 (Section 30C Chapter 24-C requires that you call the location given before you dig in the state of West Virginia)
IT'S THE LAW

SCALE IN FEET
 0 20 40 60 80 100

REVISION RECORD

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

HAZLETT WELL PAD
 DISTRICT OF MARTINSBURG COUNTY, WEST VIRGINIA
 PREPARED FOR: **CHEVRON APPALACHIA, LLC**
 700 CHERINGTON PARKWAY
 COVINGTON, LA 70045

EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)

Project Number: 184725
 Drawing Scale: 1"=50'
 Date Issued: 01/20/18
 Issue Number:
 Drawn By: RJB
 Checked By: JMJ
 Project Manager: KJB

ES 102

ATTACHMENT D

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

U.S. ARMY CORPS OF ENGINEERS
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
 33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -
OMB No. 0710-0003
Expires: 30-SEPTEMBER-2015

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

PRIVACY ACT STATEMENT

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

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

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

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Jenny Middle - Last - Hayes Company - Chevron Appalachia, LLC E-mail Address - jhayes@chevron.com			8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Mallory Middle - A. Last - Owens Company - Civil & Environmental Consultants, Inc. E-mail Address - mowens@cecinc.com		
6. APPLICANT'S ADDRESS: Address- 700 Cherrington Parkway City - Coraopolis State - PA Zip - 15108 Country -US			9. AGENT'S ADDRESS: Address- 4000 Triangle Lane, Suite 200 City - Export State - PA Zip - 15632 Country -US		
7. APPLICANT'S PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax 412-865-1533			10. AGENTS PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax 724-327-5200 724-327-5280		

STATEMENT OF AUTHORIZATION

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


 SIGNATURE OF APPLICANT 1-15-18
 DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Hazlett Well Pad			
13. NAME OF WATERBODY, IF KNOWN (if applicable) Refer to Waters Impact Summary Table in Attachment A		14. PROJECT STREET ADDRESS (if applicable) Address Markey Lane / CR-10	
15. LOCATION OF PROJECT Latitude: +N 39.970510 Longitude: -W -80.718898		City - Glen Dale State- WV Zip- 26038	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) State Tax Parcel ID Municipality Section - Township - Union District Range - Marshall County			

17. DIRECTIONS TO THE SITE

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

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

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

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

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

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

20. Reason(s) for Discharge

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

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

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
390 CY of earthen material into wetlands	80 CY of earthen material into streams	N/A

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

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

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

Chevron analyzed numerous on-site configurations for the siting of the facility, and the proposed site plan represents the layout which minimizes impacts to the furthest extent while still meeting the project's purpose and need. Grading was minimized to avoid impacts to UNTs 1, 5, 6, and 7 to Little Grave Creek and Wetlands 3B and 4. Orange construction fencing will be installed around the downstream portions of UNTs 1, 2, 3, and 6 to Little Grave Creek to avoid additional impacts.

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

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody or Watercourse to be Regulated.

a. Address- See attached plans.

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

Malroy 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 disguise 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.

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: 17H 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

John
6/26/18

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

8) Proposed Total Vertical Depth: 6,170'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,691

11) Proposed Horizontal Leg Length: 10,313

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

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

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

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

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

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

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

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Depth: _____

Seam: _____

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Owner: _____

18) **CASING AND TUBING PROGRAM**

TYPE	<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	18,691'	18,691'	2,616' (500' below 9-5/8" shoe)
Tubing							
Liners							

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,170'. Drill horizontal leg.

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

9525 bbl fluid - 400,000 lbm sand/stage - 9,400 anticipated max psi - 100 bpm anticipated max rate

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 25.6

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

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Cement Additives

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

The intermediate will contain class A cement, 10% CaCl₂, Salt, and flake.

The Production cement will have a lead and tail cement.

The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder.

The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

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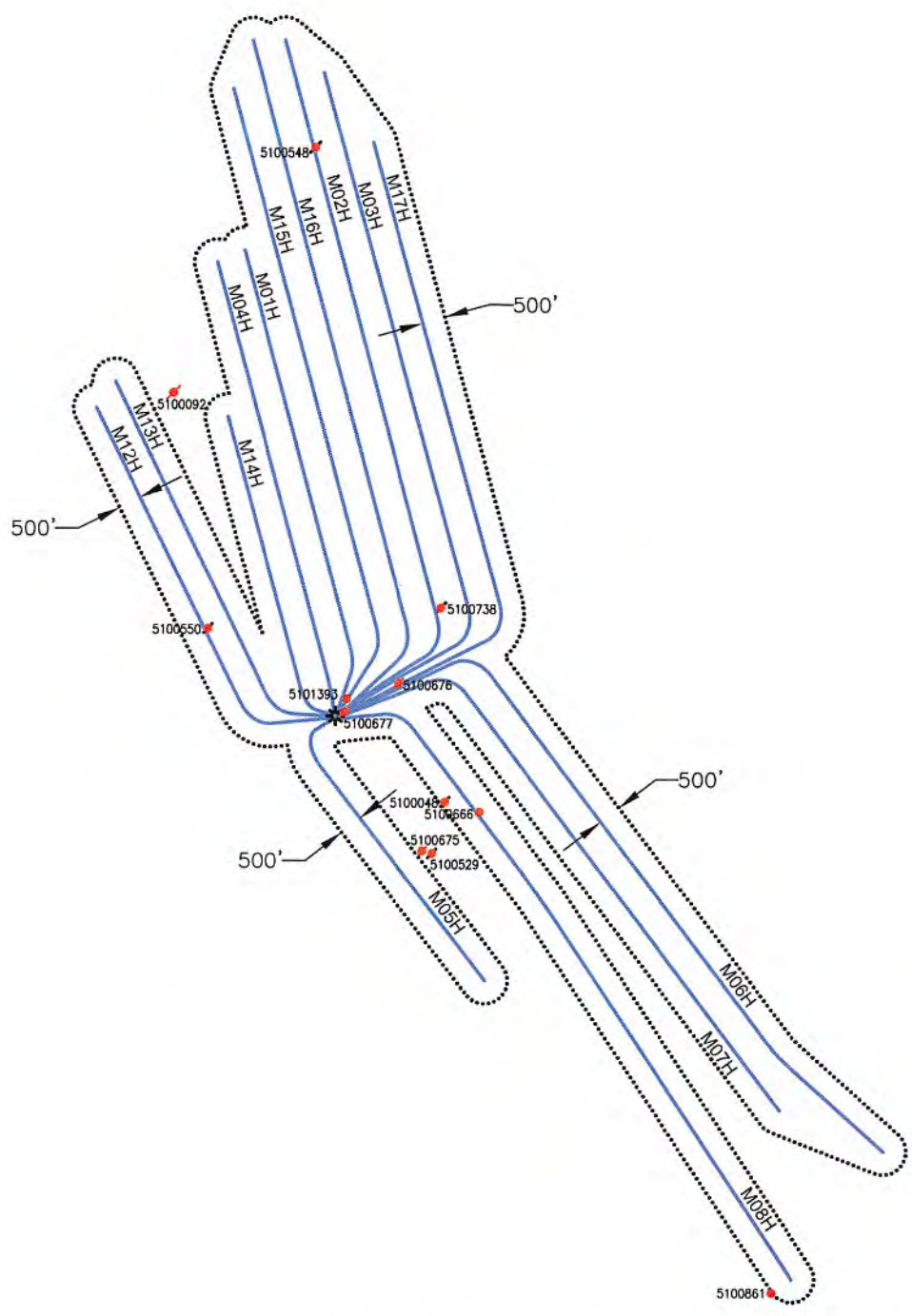
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Hazlett M17H

Permit#		Union District, Marshall Co. WV		6/5/2018 14:21		Ground Level Elev. (ft above SL):		1144			
DRILLING FLUID / BIT TYPE / TFA		CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH (FT)		WELLHEAD DESIGN FMC UH-S 13 5/8"		HOLE SIZE (IN)	HOLE DEPTH (FT)	CASING SPECS	CEMENT PROGRAM
				MD	TVD	INC	AZM				
Core Barrel / Auger		2 Revspring per ft	30" Conductor	50	50			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 ft 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 (bbl/ft) 0.3553 Annulus (bbl/ft) 0.2681	Surface Blend (Class A) Cement to surface 30% Excess
Air DRL with Mist and additives		Bow Spring: (1) on shoe track w/ stop collar & (1) per ft over coupling (1) installed 100 ft from surface Basket Placement Secured w/ (2) lock rings above and (1) below	Basket Placement Top of Coal Deepest Coal	724	724			17.50	754	Coal String 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14,375 ID (in) 12,615 Drift ID (in) 12,459 Burst (psi) 2730 Collapse (psi) 1130 Yield (Jt Strength 1,000 lbs) 853	Intermediate I Blend (Class A) Cement grout to surface Shoe Job Vol. (50% Excess) Grout Job Vol. (100% Excess)
Air DRL with Mist and additives		Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 ft 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
Planned MW: 11.5ppg SBM - 12.5ppg SBM		Surface - TOC (1) per every other ft TOC-Curve KOP (1) per ft of csg Curve KOP-TMD (1) per ft of csg 10' Marker Jt of Csg 100' above KOP	KOP	18,691	144			8.5 to 8.75		Production Casing 5-1/2" 20# P110EC DW/C/IS-Plus 361" Wall Coupling OD (in) 6,300 ID (in) 4,778 Drift ID (in) 4,653 Burst (psi) 14360 Collapse (psi) 12090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry (Class A, G, H) Cement top approximately 500' below 9-5/8" shoe
Float Equip. (2) Jts of Csg Float Equip.		Est. BHT deg. F	5-1/2" Casing	18,691	6,170			8.500	18,706		

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Production Tail Slurry
(Class A, G, H)
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Handwritten signature and date: Jm 6/26/18



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

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

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

HAZLETT
AREA OF REVIEW MAP
MARSHALL COUNTY
UNION DISTRICT
WEST VIRGINIA
 TOPO QUAD: MOUNDSVILLE, WV
 SCALE: 1" = 4000'
 DATE: MAY 4, 2018

Well ID	Prior Operator On Record	Operator - DEP	Status	Latit
47-051-00548	PACE, PREBLE & BOWER INC.	PACE, PREBLE & BOWER INC.	PLUGGED	39.9
47-051-00738	MID-CON PETROLEUM CO., INC	MID-CON PETROLEUM CO., INC	PLUGGED	39.9
47-051-01393	CHIEF OIL & GAS LLC	CHEVRON APPALACHIA LLC	ACTIVE	39.9
47-051-00677	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.9
47-051-00676	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.9
47-051-00092	RUDDER OIL & GAS	CONLEY & ASSOC	ABANDONED	39.9
47-051-00550	PACE, PREBLE & BOWER INC.	PACE, PREBLE & BOWER INC.	PLUGGED	39.9
47-051-00048	WASMUTH - CALLAHAN GAS CO.	WASMUTH - CALLAHAN GAS CO.	PLUGGED	39.9
47-051-00666	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.9
47-051-00675	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.9
47-051-00529	PACE-BOWER CONSTRUCTION	PACE-BOWER CONSTRUCTION	PLUGGED	39.9
47-051-00861	CNX GAS COMPANY, LLC	CNX GAS COMPANY, LLC	ACTIVE	39.9

4705102112

Well ID	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
44422	-80.719818	UNKNOWN	BEREA SANDSTONE	UNKNOWN
7281	-80.709460	1100'	COW RUN SANDSTONE	UNKNOWN
1821	-80.716665	6250'	MARCELLUS SHALE	UNKNOWN
1040	-80.716806	3100'	GORDON SANDSTONE	UNKNOWN
2782	-80.712662	3100'	GORDON SANDSTONE	UNKNOWN
3762	-80.730517	UNKNOWN	UNKNOWN	UNKNOWN
5829	-80.727542	2512'	BIG INJUN	UNKNOWN
5803	-80.708895	1626	BIG INJUN	UNKNOWN
5223	-80.706218	2700'	GORDON SANDSTONE	UNKNOWN
2901	-80.710590	2700'	GORDON SANDSTONE	UNKNOWN
2756	-80.709837	1624'	BIG INJUN	UNKNOWN
7045	-80.682911	378'	PITTSBURGH	UNKNOWN

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WW-9
(5/16)

API Number 47 - _____ - _____
Operator's Well No. Hazlett 17H

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

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Short Creek - Ohio River Quadrangle Moundsville, WV 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

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

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

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

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

Company Official Signature _____

Company Official (Typed Name) Jenny Hayes

Company Official Title Permitting Team Lead

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

Notary Public

My commission expires September 17, 2018

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

Proposed Revegetation Treatment: Acres Disturbed 15.4 Prevegetation pH Per soils testing report

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

Fertilizer type 10-20-20

Fertilizer amount 300 lbs/acre

Mulch 3, 5 for winter stabilization Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

See Attached

See Attached

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jim Wilbur*

Comments: _____

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Title: Oil + Gas Inspector

Date: 8/26/18

Field Reviewed? Yes No

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

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Chevron

**Appalachian LLC
WV Well Site Safety Plan
Pad: Hazlett Pad A
Well # M17H**

**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 #2



LOT OWNERS

Label	Owner	TM	Label	Owner	TM	Label	Owner	TM
A	KEY GLADYS E - LIFE	25-13 12002700000000	N	OTTE MICHAEL P	25-13 12009100000000	AB	CALISSIE TIMOTHY J	25-13 12005000000000
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 12003800010000	P	OTTE MARK D	25-13 12003300000000	AD	MAST LEVI E ET AL	25-13 12005100000000
D	ANGEL ADAM S JR	25-13 11006100020000	Q	OTTE MARK D & KELLY J	25-13 12003500000000	AE	MCCLINTOCK LARRY L & ALICIA S	25-14 10016000040000
E	LEACH CHARLES L JR	25-13 120050000370000	R	GLENDALE CITY OF	25-19 12004400090000	AF	YODER ELI A ET AL	25-14 10016000000000
F	CALISSIE TIMOTHY J ET UX	25-13 12005000020000	S	GLEN DALE TOWN OF	25-13 12004500000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000
G	KIDNEY JARROD S & TIMMI L	25-13 12005000080000	T	HAZLETT IRENE - LIFE	25-13 12004600000000	AH	SPRINGER BARBARA K	25-13 12005000010000
H	KURELAC PATRICIA A	25-13 12003800000000	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
N	OTTE MICHAEL P	25-13 12009100000000						
AD	OTTE MICHAEL P	25-13 12009100000000						
AE	OTTE MICHAEL P	25-13 12009100000000						
AF	OTTE MICHAEL P	25-13 12009100000000						
AG	OTTE MICHAEL P	25-13 12009100000000						
AH	OTTE MICHAEL P	25-13 12009100000000						
AI	OTTE MICHAEL P	25-13 12009100000000						
AJ	OTTE MICHAEL P	25-13 12009100000000						
AK	OTTE MICHAEL P	25-13 12009100000000						
AL	OTTE MICHAEL P	25-13 12009100000000						
AM	OTTE MICHAEL P	25-13 12009100000000						
AN	OTTE MICHAEL P	25-13 12009100000000						
AO	OTTE MICHAEL P	25-13 12009100000000						
AP	OTTE MICHAEL P	25-13 12009100000000						
AQ	OTTE MICHAEL P	25-13 12009100000000						
AR	OTTE MICHAEL P	25-13 12009100000000						
AS	OTTE MICHAEL P	25-13 12009100000000						
AT	OTTE MICHAEL P	25-13 12009100000000						
AU	OTTE MICHAEL P	25-13 12009100000000						
AV	OTTE MICHAEL P	25-13 12009100000000						
AW	OTTE MICHAEL P	25-13 12009100000000						
AX	OTTE MICHAEL P	25-13 12009100000000						
AY	OTTE MICHAEL P	25-13 12009100000000						
AZ	OTTE MICHAEL P	25-13 12009100000000						
BA	OTTE MICHAEL P	25-13 12009100000000						
BB	OTTE MICHAEL P	25-13 12009100000000						
BC	OTTE MICHAEL P	25-13 12009100000000						
BD	OTTE MICHAEL P	25-13 12009100000000						
BE	OTTE MICHAEL P	25-13 12009100000000						
BF	OTTE MICHAEL P	25-13 12009100000000						
BG	OTTE MICHAEL P	25-13 12009100000000						
BH	OTTE MICHAEL P	25-13 12009100000000						
BI	OTTE MICHAEL P	25-13 12009100000000						
BJ	OTTE MICHAEL P	25-13 12009100000000						
BK	OTTE MICHAEL P	25-13 12009100000000						
BL	OTTE MICHAEL P	25-13 12009100000000						
BM	OTTE MICHAEL P	25-13 12009100000000						
BN	OTTE MICHAEL P	25-13 12009100000000						
BO	OTTE MICHAEL P	25-13 12009100000000						
BP	OTTE MICHAEL P	25-13 12009100000000						
BQ	OTTE MICHAEL P	25-13 12009100000000						
BR	OTTE MICHAEL P	25-13 12009100000000						
BS	OTTE MICHAEL P	25-13 12009100000000						
BT	OTTE MICHAEL P	25-13 12009100000000						
BU	OTTE MICHAEL P	25-13 12009100000000						
BV	OTTE MICHAEL P	25-13 12009100000000						
BW	OTTE MICHAEL P	25-13 12009100000000						
BX	OTTE MICHAEL P	25-13 12009100000000						
BY	OTTE MICHAEL P	25-13 12009100000000						
BZ	OTTE MICHAEL P	25-13 12009100000000						
CA	OTTE MICHAEL P	25-13 12009100000000						
CB	OTTE MICHAEL P	25-13 12009100000000						
CC	OTTE MICHAEL P	25-13 12009100000000						
CD	OTTE MICHAEL P	25-13 12009100000000						
CE	OTTE MICHAEL P	25-13 12009100000000						
CF	OTTE MICHAEL P	25-13 12009100000000						
CG	OTTE MICHAEL P	25-13 12009100000000						
CH	OTTE MICHAEL P	25-13 12009100000000						
CI	OTTE MICHAEL P	25-13 12009100000000						
CJ	OTTE MICHAEL P	25-13 12009100000000						
CK	OTTE MICHAEL P	25-13 12009100000000						
CL	OTTE MICHAEL P	25-13 12009100000000						
CM	OTTE MICHAEL P	25-13 12009100000000						
CN	OTTE MICHAEL P	25-13 12009100000000						
CO	OTTE MICHAEL P	25-13 12009100000000						
CP	OTTE MICHAEL P	25-13 12009100000000						
CQ	OTTE MICHAEL P	25-13 12009100000000						
CR	OTTE MICHAEL P	25-13 12009100000000						
CS	OTTE MICHAEL P	25-13 12009100000000						
CT	OTTE MICHAEL P	25-13 12009100000000						
CU	OTTE MICHAEL P	25-13 12009100000000						
CV	OTTE MICHAEL P	25-13 12009100000000						
CW	OTTE MICHAEL P	25-13 12009100000000						
CX	OTTE MICHAEL P	25-13 12009100000000						
CY	OTTE MICHAEL P	25-13 12009100000000						
CZ	OTTE MICHAEL P	25-13 12009100000000						

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 Office of Oil and Gas

Township: GLEN DALE, WV AUG 7 2018

Surveyor: SERVICES, INC. WV Department of 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 #2

4705 02112
GEM

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	MCCLEINTOCK LARRY L & ALICIA S	Well	718	1456 LITTLE GRAVE CK DRIVE	304-810-0571
9	OTTE MICHAEL P	Well	1,349	26 JOHN DEERE DRIVE	304-312-9337
10	REILLY JOHN WILLIAM III ET AL	Well	1,160	80 RED FARM LANE	304-233-7824

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

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

BHL is located on topo map 1,914 feet south of Latitude: 40° 00' 00"
 SHL is located on topo map 14,295 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	PATRICIA A. KURELAC	13-12/36
4	MICHAEL S. CATO ET UX	13-12/39
5	NICHOLAS S., JR. & BARBARA A. RENZELLA	13-12/38
6	BOBBI S. & LEVI LOGSDON	13-11/46
7	LEVI LOGSDON	13-11/46.1
8	GERALD C. CLUTTER ET UX	13-11/53
9	KEVIN L. & CHRISTINE M. KING	13-11/50
10	KATHLEEN B. JABLINSKE	13-11/50.1
11	LOIS I. DRUSCHEL	13-11/51
12	MARK D. OTTE ET UX	13-11/22
13	*WILLIAM J. AND KATHLEEN B. HAWK	13-11/22.2
14	JAMES J. STEPHENS & DANIEL JAMES	13-11/25
15	MINNIE L. JONES ET AL	13-6/55
16	ERIC R. & LORIE A. LIPINSKI	13-6/51
17	EARL M. FISHER ET AL	13-6/53
18	*KYRIAKI MELISSINOS EST	13-6B/33
19	ARMOND RAY VANSYOC JR.	13-6B/32
20	ARMOND RAY VANSYOC JR.	13-6/53.2
21	DAVID E. & CHRISTY A. BARRY	13-6/53.3
22	CHERYL ANN HOLMES	13-6/53.13
23	MARK G. RICE ET UX	13-6/53.12
24	JEFFERY & CRYSTAL COFFIELD	13-6/53.15

BHL is located on topo map 1,957 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 2,506 feet west of Longitude: 80° 42' 30"

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4423440.03
 E:524147.17
 NAD83, WV NORTH
 N:534370.268
 E:1627294.362

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4424200.94
 E:525199.10
 NAD83, WV NORTH
 N:536809.502
 E:1630788.033

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4427212.73
 E:524302.17
 NAD83, WV NORTH
 N:546742.000
 E:1628010.000



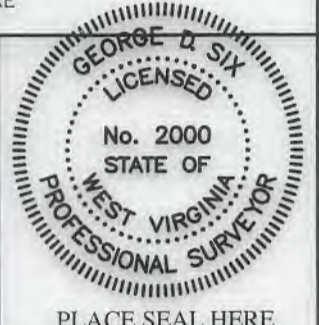
Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

FILE #: HAZLETT M17H
 DRAWING #: HAZLETT M17H
 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 M17H
 API WELL #: 47 51 02112
 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: MOUNDVILLE, 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: 743.779±

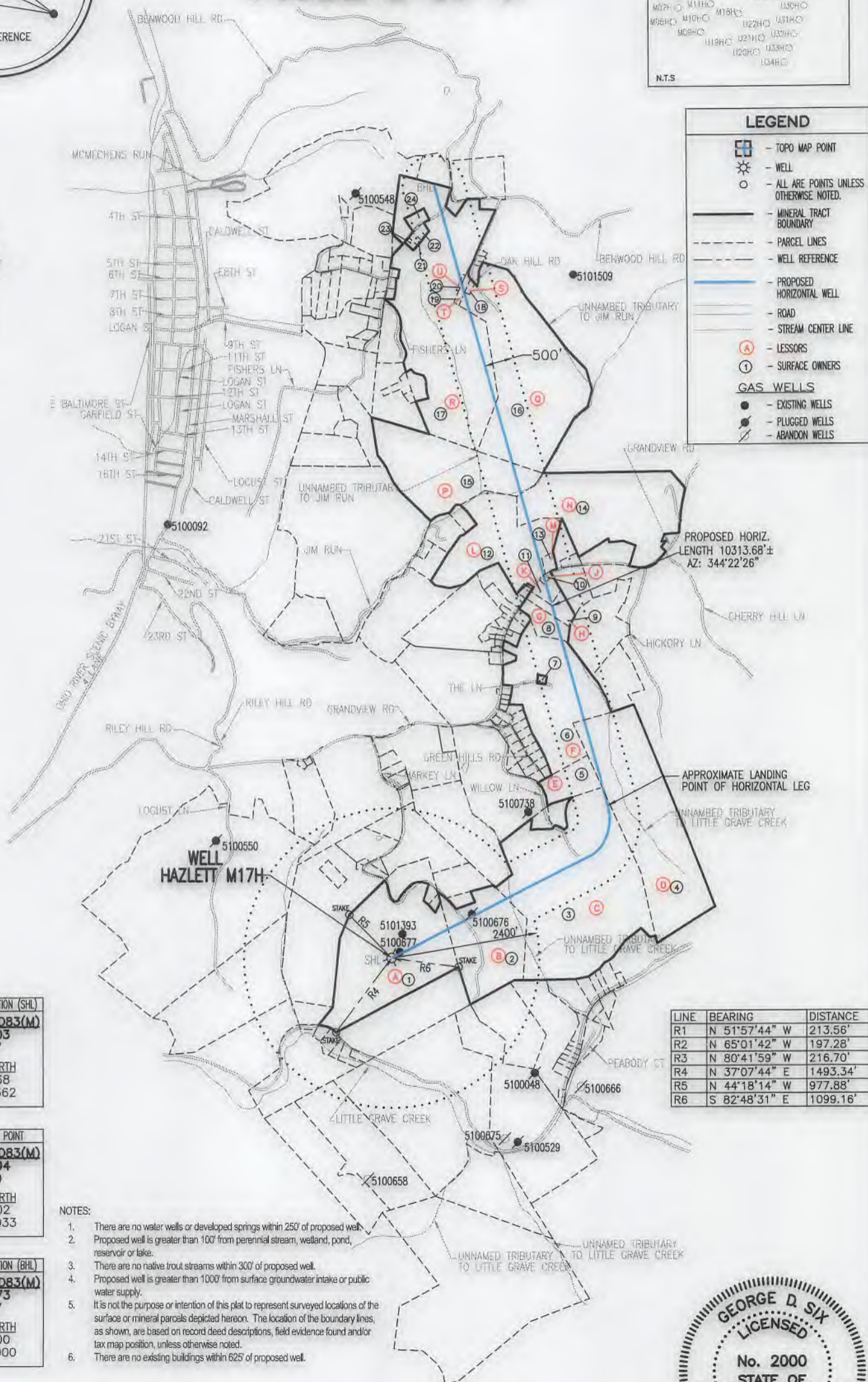
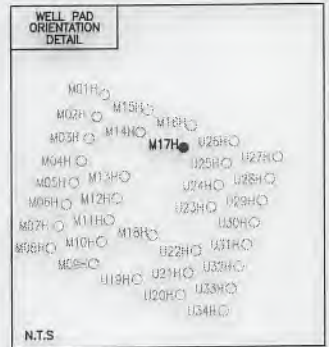
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

(SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,200'± TMD: 18,690.87'±

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

HAZLETT M17H PAGE 2 OF 3



LEGEND

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

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS
- ABANDON WELLS

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4423440.03
E:524147.17

NAD83, WV NORTH
N:534370.268
E:1627294.362

APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4424200.94
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NAD83, WV NORTH
N:536809.502
E:1630788.033

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4427212.73
E:524302.17

NAD83, WV NORTH
N:546742.000
E:1628010.000

LINE	BEARING	DISTANCE
R1	N 51°57'44" W	213.56'
R2	N 65°01'42" W	197.28'
R3	N 80°41'59" W	216.70'
R4	N 37°07'44" E	1493.34'
R5	N 44°18'14" W	977.88'
R6	S 82°48'31" E	1099.16'

- 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

George D. Six

HAZLETT

M17H

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	PATRICIA A. KURELAC VIRGINIA E. KLAGES	13-12/36
D	MICHAEL S. CATO ET UX GENEVIEVE G. MINKEMEYER BY AIF MARTHA RAPP GARNELL BUTLER ET AL CHARLOU HUNGERFORD MANETTE L. STEELE	13-12/39
E	VIRGINIA E. KLAGES NICHOLAS S. RENZELLA JR., ET UX	13-12/38
F	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
G	WILLIAM M. VARGO RICHARD H. VARGO VALERIE KINSLEY SHELLY VARGO DAVID WAYNE VARGO TROY MICHAEL VARGO	13-11/53
H	KEVIN L. KING ET UX	13-11/50
J	WILLIAM HAWK ET UX	13-11/50.1
K	DAVID A. DICKEY THOMAS DICKEY ET UX SUE ELLEN BAILES	13-11/51
L	MARK D. OTTE ET UX	13-11/22
M	*WILLIAM HAWK ET UX	13-11/22.2
N	JAMES J. STEPHENS ET AL	13-11/25
P	MINNIE L. JONES	13-6/55
Q	JUDY PENICK ET VIR ELEANOR CROSS ROBIN BURKHART JEFFREY A. BORCHART CHARLES E. BORCHART JR.	13-6/51
R	CHERYL ANN HOLMES F/K/A CHERYL SELLER EST OF RUTH SELLER ROBERT SELLER STEVEN FISHER MICHAEL FISHER EARL M. FISHER DANIEL M. FISHER CONNIE FISHER CHARLES M. FISHER BOUNTY MINERALS II ACQUISITION LLC	13-6/53
S	*JUDY PENICK ET VIR *ROBIN BURKHART *ELEANOR CROSS *CHARLES BORCHART *JEFFREY A. BORCHART	13-6B/33
T	JUDY PENICK ET VIR ROBIN BURKHART ELEANOR CROSS CHARLES BORCHART JEFFREY A. BORCHART	13-6B/32
U	ARMOND RAY VANSYOC	13-6/53.2

SURFACE HOLE LOCATION (SHL)
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NAD83, WV NORTH
N:546742.000
E:1628010.000

MAY 09, 2018

WW-6A1
(5/13)

Operator's Well No. Hazlett M17H

**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 *Jenny Hayes*
 Its: Permitting Team Lead

4705102112

Hazlett Unit #17H - MARC - BATCH 2 MLS - FINAL

QLS NO	% Owned	Plat 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
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	Messe, Kelly Ann	Chevron U.S.A. Inc.	0.18	859/86	-	-	-	-	-	-	-	-	-
934444	12.50%	1	13-0012-0049-0000-0000	Nelissen, 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	843/581	-	-	-	-	-	-	-	-	-
934843	4.17%	1	13-0012-0049-0000-0000	McCracken, Patricia Ann	Chevron U.S.A. Inc.	0.18	843/586	-	-	-	-	-	-	-	-	-
934846	4.17%	1	13-0012-0049-0000-0000	McCracken, Robert Jay	Chevron U.S.A. Inc.	0.18	843/591	-	-	-	-	-	-	-	-	-
951834	50.00%	1	13-0012-0049-0000-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	949/19	-	-	-	-	-	-	-	-	-
				Hazlett, John Carl	TriEnergy Holdings, LLC	0.16	705/170	24/180 TriEnergy Holdings, LLC to NPAR, LLC	24/466 AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 Limited Partnership	25/105 Chief Exploration & Development LLC et al & Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/332 NPAR, LLC to Chevron U.S.A. Inc.	-	-	-	-	-
867383	50.00%	2	13-0012-0044-0000-0000	Hazlett, Florence	Chevron U.S.A. Inc.	0.1875	949/26	-	-	-	-	-	-	-	-	-
951832	50.00%	2	13-0012-0044-0000-0000	Hazlett, Florence	Chevron U.S.A. Inc.	0.1875	949/26	-	-	-	-	-	-	-	-	-
868303	50.00%	3	13-0012-0036-0000-0000	Kurelac, Patricia A.	TriEnergy Holdings, LLC	0.18	732/389	25/449 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	-	-	-	-	-	-	-
919702	50.00%	3	13-0012-0036-0000-0000	Klages, Virginia E.	Chesapeake Appalachia L.L.C.	0.125	680/103	23/310 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.	-	-	-	-	-	-
920539	33.33%	4	13-0012-0039-0000-0000	Celo, Michael S. et ux	Chesapeake Appalachia L.L.C.	0.125	689/21	22/361 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.	-	-	-	-	-	-
920540	16.67%	4	13-0012-0039-0000-0000	Minkemeyer, Genevieve G. By AIF Martha Resp	Chesapeake Appalachia L.L.C.	0.125 Oil 0.1875 Gas	720/325	25/582 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.	-	-	-	-	-	-
920543	16.67%	4	13-0012-0039-0000-0000	Bulter, Gernall et al	Chesapeake Appalachia L.L.C.	0.18	750/403	19/325 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.	-	-	-	-	-	-
954034	16.67%	4	13-0012-0039-0000-0000	Hungerford, Charlou	TH Exploration, L.L.C.	0.17	907/179	40/152 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-
954040	16.67%	4	13-0012-0039-0000-0000	Steele, Manetta L.	TH Exploration, L.L.C.	0.17	907/177	40/152 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-
920430	50.00%	5	13-0012-0038-0000-0000	Klages, Virginia E.	Chesapeake Appalachia L.L.C.	0.125	680/113	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.	-	-	-	-	-	-
951589	50.00%	5	13-0012-0038-0000-0000	Renzella, Nicholas S, Jr. et ux	Chevron U.S.A. Inc.	0.18	921/553	-	-	-	-	-	-	-	-	-
939602	10.00%	6	13-0011-0046-0000-0000	Powell, Andrew E. et ux	Chevron U.S.A. Inc.	0.18	871/308	-	-	-	-	-	-	-	-	-
939639	20.00%	6	13-0011-0046-0000-0000	Fahay, Martin E. et ux	Chevron U.S.A. Inc.	0.18	889/118	-	-	-	-	-	-	-	-	-
939640	10.00%	6	13-0011-0046-0000-0000	Fahay, Donna K.	Chevron U.S.A. Inc.	0.18	889/328	-	-	-	-	-	-	-	-	-
939843	20.00%	6	13-0011-0046-0000-0000	Fahay, John M. et ux	Chevron U.S.A. Inc.	0.18	889/125	-	-	-	-	-	-	-	-	-
939846	20.00%	6	13-0011-0046-0000-0000	Fahay, Thomas M. et ux	Chevron U.S.A. Inc.	0.18	889/146	-	-	-	-	-	-	-	-	-
939849	10.00%	6	13-0011-0046-0000-0000	Becker, Kris et ux	Chevron U.S.A. Inc.	0.18	889/139	-	-	-	-	-	-	-	-	-
939602	10.00%	7	13-0011-0046-0001-0000	Powell, Andrew E. et ux	Chevron U.S.A. Inc.	0.18	871/308	-	-	-	-	-	-	-	-	-
939639	20.00%	7	13-0011-0046-0001-0000	Fahay, Martin E. et ux	Chevron U.S.A. Inc.	0.18	889/118	-	-	-	-	-	-	-	-	-
939640	10.00%	7	13-0011-0046-0001-0000	Fahay, Donna K.	Chevron U.S.A. Inc.	0.18	889/328	-	-	-	-	-	-	-	-	-
939843	20.00%	7	13-0011-0046-0001-0000	Fahay, John M. et ux	Chevron U.S.A. Inc.	0.18	889/125	-	-	-	-	-	-	-	-	-
939846	20.00%	7	13-0011-0046-0001-0000	Fahay, Thomas M. et ux	Chevron U.S.A. Inc.	0.18	889/146	-	-	-	-	-	-	-	-	-
939849	10.00%	7	13-0011-0046-0001-0000	Becker, Kris et ux	Chevron U.S.A. Inc.	0.18	889/139	-	-	-	-	-	-	-	-	-
950977	25.00%	8	13-0011-0053-0000-0000	Vargo, William M.	Chevron U.S.A. Inc.	0.18	920/634	-	-	-	-	-	-	-	-	-
950979	25.00%	8	13-0011-0053-0000-0000	Vargo, Richard H.	Chevron U.S.A. Inc.	0.18	920/637	-	-	-	-	-	-	-	-	-
950980	12.50%	8	13-0011-0053-0000-0000	Kinsley, Valerie	Chevron U.S.A. Inc.	0.18	976/209	-	-	-	-	-	-	-	-	-
950982	12.50%	8	13-0011-0053-0000-0000	Vargo, Shelly	Chevron U.S.A. Inc.	0.18	976/206	-	-	-	-	-	-	-	-	-
950983	12.50%	8	13-0011-0053-0000-0000	Vargo, David Wayne	Chevron U.S.A. Inc.	0.18	976/212	-	-	-	-	-	-	-	-	-
951251	12.50%	8	13-0011-0053-0000-0000	Vargo, Troy Michael	Chevron U.S.A. Inc.	0.18	920/552	-	-	-	-	-	-	-	-	-

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Hazlett Unit #17H - MARC - BATCH 2 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
921109	100.00%	9	13-0011-0050-0000-0000	King, Kevin L et ux	Chesapeake Appalachia L.L.C.	0.1875	710/56	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.	-	-	-	-	-	-
954818	100.00%	10	13-0011-0050-0001-0000	Howk, William et ux	Chesapeake Appalachia L.L.C.	0.18	714/334	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.	-	-	-	-	-	-
951080	33.33%	11	13-0011-0051-0000-0000	Dickey, David A.	Chevron U.S.A. Inc.	0.18	928/241	-	-	-	-	-	-	-	-	-
951081	33.33%	11	13-0011-0051-0000-0000	Dickey, Thomas et ux	Chevron U.S.A. Inc.	0.18	928/238	-	-	-	-	-	-	-	-	-
951082	33.33%	11	13-0011-0051-0000-0000	Bates, Sus Ellen	Chevron U.S.A. Inc.	0.18	928/244	-	-	-	-	-	-	-	-	-
954797	100.00%	12	13-0011-0022-0000-0000	Orte, 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 et al & Radler 2000 Limited Partnership	25/305 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.
954818	100.00%	13	13-0011-0022-0002-0000	Howk, William et ux	Chesapeake Appalachia L.L.C.	0.18	714/334	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.	-	-	-	-	-	-
948748	100.00%	14	13-0011-0025-0000-0000	Stephens, James J. et al	TH Exploration, L.L.C.	0.18	869/225	36/166 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-
946823	33.33%	15	13-0006-0055-0000-0000	Jones, Minnie L	TH Exploration, L.L.C.	0.18	881/517	36/166 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-
954803	25.00%	16	13-0006-0051-0000-0000	Penick, Judy et vir	Chesapeake Appalachia L.L.C.	0.125	678/72	21/565 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. 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	40/246 SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc.	-	-	-	-	-
954804	25.00%	16	13-0006-0051-0000-0000	Cross, Eleanor - SFX	Chesapeake Appalachia L.L.C.	0.125	678/66	21/565 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. 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	40/246 SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc.	-	-	-	-	-
954805	25.00%	16	13-0006-0051-0000-0000	Burkhardt, Robin - SFX	Chesapeake Appalachia L.L.C.	0.125	678/75	21/565 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. 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	40/246 SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc.	-	-	-	-	-
954807	12.50%	16	13-0006-0051-0000-0000	Borchert, Jeffrey A	Chesapeake Appalachia L.L.C.	0.125	678/517	21/565 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. 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	40/246 SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc.	-	-	-	-	-
954808	12.50%	16	13-0006-0051-0000-0000	Borchert, Charles E. Jr.	Chesapeake Appalachia L.L.C.	0.125	678/69	21/565 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. 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	40/246 SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc.	-	-	-	-	-
946688	6.25%	17	13-0006-0053-0000-0000	Holmes, Cheryl Ann f/a/a Cheryl Sheller	TH Exploration, L.L.C.	0.18	885/345	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-
946689	12.50%	17	13-0006-0053-0000-0000	Est Of Ruth Sheller	TH Exploration, L.L.C.	0.18	882/588	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-
946690	6.25%	17	13-0006-0053-0000-0000	Sheller, Robert	TH Exploration, L.L.C.	0.18	882/585	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-	-	-	-	-	-

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Hazlett Unit #17H - MARC - BATCH 2 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	
946730	2.67%	17	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%	17	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%	17	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	25.00%	17	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%	17	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%	17	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%	17	13-0006-0053-0000-0000	Bounty Minerals (I) Acquisitions LLC	Chevron U.S.A. Inc.	0.2	942/533	-	-	-	-	-	-	-	-	-	-
								24/204	33/110	33/424	40/255						
				Pentek, Judy et vir	Chesapeake Appalachia L.L.C.	0.18	768/210	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954809	25.00%	18	13-0068-0033-0000-0000					24/204	33/110	33/424	40/255						
				Burkhart, Robin - SFX	Chesapeake Appalachia L.L.C.	0.18	720/289	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954810	25.00%	18	13-0068-0033-0000-0000					24/204	33/110	33/424	40/255						
				Cross, Eleanor - SFX	Chesapeake Appalachia L.L.C.	0.18	720/337	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954811	25.00%	18	13-0068-0033-0000-0000					24/204	33/110	33/424	40/255						
				Borchart, Charles - SFX	Chesapeake Appalachia L.L.C.	0.18	720/341	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954812	12.50%	18	13-0068-0033-0000-0000					24/204	33/110	33/424	40/255						
				Borchart, Jeffrey A	Chesapeake Appalachia L.L.C.	0.18	721/415	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954813	12.50%	18	13-0068-0033-0000-0000					24/204	33/110	33/424	40/255						
				Pentek, Judy et vir	Chesapeake Appalachia L.L.C.	0.18	768/210	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954809	25.00%	19	13-0068-0032-0000-0000					24/204	33/110	33/424	40/255						
				Burkhart, Robin - SFX	Chesapeake Appalachia L.L.C.	0.18	720/289	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954810	25.00%	19	13-0068-0032-0000-0000					24/204	33/110	33/424	40/255						
				Cross, Eleanor - SFX	Chesapeake Appalachia L.L.C.	0.18	720/337	Chesapeake Appalachia, L.L.C. to Statoil U.S.A. Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. to SWN Production Company, LLC	Statoil USA Onshore Exchange Titleholder, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc. to Chevron U.S.A. Inc	-	-	-	-	-	
954811	25.00%	19	13-0068-0032-0000-0000					24/204	33/110	33/424	40/255						
								24/204	33/110	33/424	40/255						

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Hazlett Unit #17H - MARC - BATCH 2 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
				Borchart, Charles - SFK	Chesapeake Appalachia L.L.C.	0.18	720/341	14/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. 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.	-	-	-	-	-
954812	12.50%	19	13-0068-0032-0000-0000													
				Borchart, Jeffrey A	Chesapeake Appalachia L.L.C.	0.18	721/415	14/204 Chesapeake Appalachia, L.L.C. to Statoil U.S.A. 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.	-	-	-	-	-
954813	12.50%	19	13-0068-0032-0000-0000													
951224	100.00%	30	13-0006-0053-0002-0000	Vanczyoc, Armond Ray	Chevron U.S.A. Inc.	0.15	920/546	-	-	-	-	-	-	-	-	-
951096	100.00%	21	13-0006-0053-0003-0000	Berry, David A. et ux	Chevron U.S.A. Inc.	0.18	926/76	-	-	-	-	-	-	-	-	-
951166	100.00%	22	13-0006-0053-0013-0000	Holmes, Cheryl Ann	Chevron U.S.A. Inc.	0.15	931/294	-	-	-	-	-	-	-	-	-
934041	100.00%	23	13-0006-0053-0012-0000	Rice, Mark G. et ux	Chevron U.S.A. Inc.	0.18	838/506	-	-	-	-	-	-	-	-	-
Pending	100.00%	24	13-0006-0053-0015-0000	Coffield, Jeffrey et ux	Chevron U.S.A. Inc.	0.18	970/285	-	-	-	-	-	-	-	-	-

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Mitchell G. Limbert
Land Representative, AMBU

4705 02112

June 4, 2018

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

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

To Whom It May Concern,

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

Sincerely,

A handwritten signature in blue ink that reads "M G Limbert".

Mitchell G. Limbert
Land Representative

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

Date of Notice Certification: 06/07/2018

API No. 47- _____
Operator's Well No. M17H
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>524147.180</u>
County: <u>Marshall</u>		Northing: <u>4423440.013</u>
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Lane</u>	
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hazlett</u>	
Watershed: <u>Short Creek - Ohio River</u>		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

OOG OFFICE USE ONLY

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

Required Attachments:

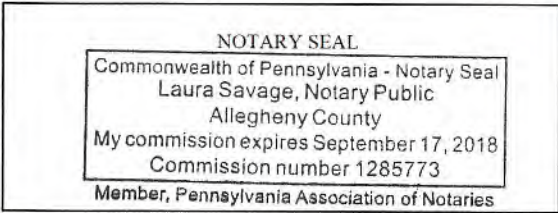
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

AUG 7 2018

Certification of Notice is hereby given:

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

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



Jenny Hayes COMMONWEALTH OF PENNSYLVANIA
 COUNTY OF ALLEGHENY
 Subscribed and sworn before me this 7th day of June 2018.
Laura Savage Notary Public
 My Commission Expires September 17, 2018

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 6/7/18 Date Permit Application Filed: 8/6/18

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
 Name: Florence Irene Hazlett (Life Estate Interest)
 Address: 648 Markey Hill Lane
 Glen Dale, WV 26038
 Name: Michael C. Hazlett (Remainder Interest)
 Address: 648 Markey Hill Lane
 Glen Dale, WV 26038

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

COAL OPERATOR
 Name: _____
 Address: _____

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

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

SURFACE OWNER(s) (Impoundments or Pits)
 Name: _____
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 Name: _____
 Address: _____

*Please attach additional forms if necessary

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 Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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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. 47-4705102112
OPERATOR WELL NO. M17H
Well Pad Name: Hazlett

Notice is hereby given by:

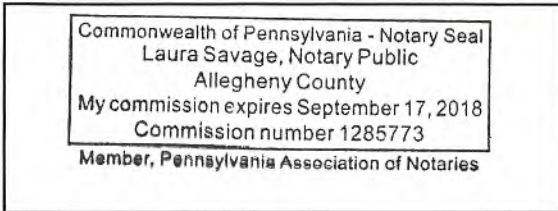
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: jzyk@chevron.com

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

Jerry Hays

Oil and Gas Privacy Notice:

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



Commonwealth of Pennsylvania
County of Allegheny

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

Laura Savage Notary Public

My Commission Expires September 17, 2018

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AUG 7 2018
WV Department of
Environmental Protection

4705102112

Attachment to WW-6A

API No. 47- _____ - _____

OPERATOR WELL NO. M17H

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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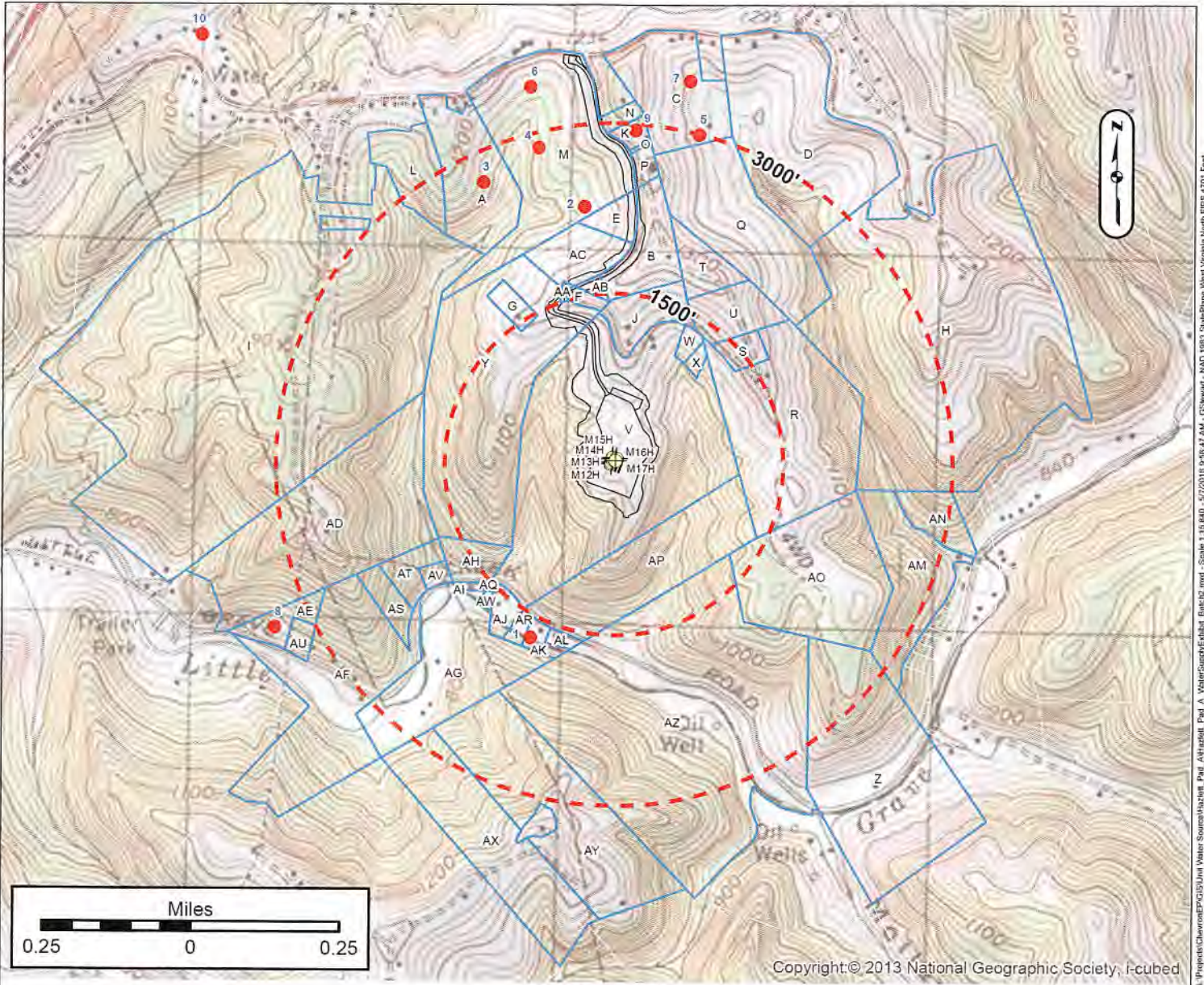
AUG 7 2018

WV Department of
Environmental Protection



WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #2

4705 - 02112



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 12005000080000
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 10016000040000
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 DP	25-13 12004500000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000
G	KIDNEY JARROD S & TIMMI L	25-13 12005000080000	T	HAZLETT IRENE - LIFE	25-13 12004600000000	AH	SPRINGER BARBARA K	25-13 12005000010000
H	KURELAC PATRICIA A	25-13 12003600000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 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 12003200030000	X	HAZLETT MICHAEL C - LIFE	25-13 12004900020000	AL	VICKERS THOMAS D & JANET E	25-13 12004800010000
L	BURCH LESTER M ET UX	25-13 12002600000000	Y	CALISSIE TIMOTHY J ET UX	25-13 12005000000000	AM	ROBINSON GARY A	25-13 12004300010000
M	OTTE THOMAS L ET AL - LIFE	25-13 12002800000000	AA	CALISSIE TIMOTHY J ET UX	25-13 12005000030000	AN	RICHARDS CHRISTINE	25-13 12004200010000
N	OTTE MICHAEL P	25-13 12003100000000	AO	OTTE HUBERT C ET AL	25-13 12004300000000	AP	HAZLETT IRENE - LIFE	25-13 12004700000000
O	OTTE HUBERT CHAS & JANE E	25-13 12003200010000	AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000	AR	RHODES LISA & NORMAN L	25-13 12004800040000
P	OTTE MARK D	25-13 12003300000000	AS	YODER ELI A ET AL	25-14 10016000180000	AT	YODER ELI A ET AL	25-14 10016000220000
Q	OTTE MARK D & KELLY J	25-13 12003500000000	AV	NGUYEN LAMSON N ET UX	25-14 10016000300000	AU	SPRINGER BARBARA K	25-14 10016000500000
R	GLENDALE CITY OF	25-13 12004400000000	AW	LINZY LINDA A	25-14 10017000100000	AX	MARSHALL COUNTY PARK & REC	25-14 30001000000000
S	GLEN DALE TOWN DP	25-13 12004500000000	AY	MARSHALL COUNTY PARK & REC	25-14 30002000000000	AZ	OTTE HUBERT C ET AL	25-14 30002000000000
T	HAZLETT IRENE - LIFE	25-13 12004600000000	Z	OTTE HUBERT C ET AL	25-14 30002000000000			

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.

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

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

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

- HAND DELIVERY
- CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

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

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>524147.180</u>
County: <u>Marshall</u>	Northing: <u>4423440.013</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: _____

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 needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our Office of Oil and Gas 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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4705102112

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 06/07/2018 **Date Permit Application Filed:** 8/16/18

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>524147.180</u>
County: <u>Marshall</u>	Northing: <u>4423440.013</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: _____

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 of Oil and Gas appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WV Department of
Environmental Protection

WW-6A5
(1/12)

Operator Well No. Hazlett M17H

4705102112

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

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

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

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

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

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

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

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524147.180</u>
County:	<u>Marshall</u>		Northing:	<u>4423440.013</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

This Notice Shall Include:

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

WW-6A5
(1/12)

Operator Well No. Hazlett M17H

4705102112

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

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

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

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

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

Name: 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>524147.180</u>
County:	<u>Marshall</u>		Northing:	<u>4423440.013</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>524147.180</u>
County:	<u>Marshall</u>	Northing:	<u>4423440.013</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>
Watershed:	<u>Short Creek/Ohio River</u>		

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

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Arene Hazlett</u></p> <p>Print Name: <u>Frene Hazlett</u></p> <p>Date: <u>7-11-18</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>

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WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

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

State: _____	West Virginia	UTM NAD 83 Easting: _____	524147.180
County: _____	Marshall	Northing: _____	4423440.013
District: _____	Union	Public Road Access: _____	CR 10 Markey Lane
Quadrangle: _____	Moundsville, WV 7.5'	Generally used farm name: _____	Hazlett
Watershed: _____	Short Creek/Ohio River		

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> <input type="checkbox"/> SURFACE OWNER <input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance) <input type="checkbox"/> SURFACE OWNER (Impoundments/Pits) <input type="checkbox"/> COAL OWNER OR LESSEE <input type="checkbox"/> COAL OPERATOR <input type="checkbox"/> WATER PURVEYOR <input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD	FOR EXECUTION BY A NATURAL PERSON	
	Signature: <u>Loretta K. Wallace</u>	
	Print Name: <u>Loretta K. Wallace</u>	
	Date: <u>June 24, 2018</u>	
	FOR EXECUTION BY A CORPORATION, ETC.	
	Company: _____ By: _____ Its: _____	
Signature: _____ Date: _____		

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory 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
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: 524147.180
County: Marshall Northing: 4423440.013
District: Union Public Road Access: _____
Quadrangle: _____ Generally used farm name: _____
Watershed: _____

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

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

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business. We are required 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.



4705102112

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 17H

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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Environmental Protection

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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

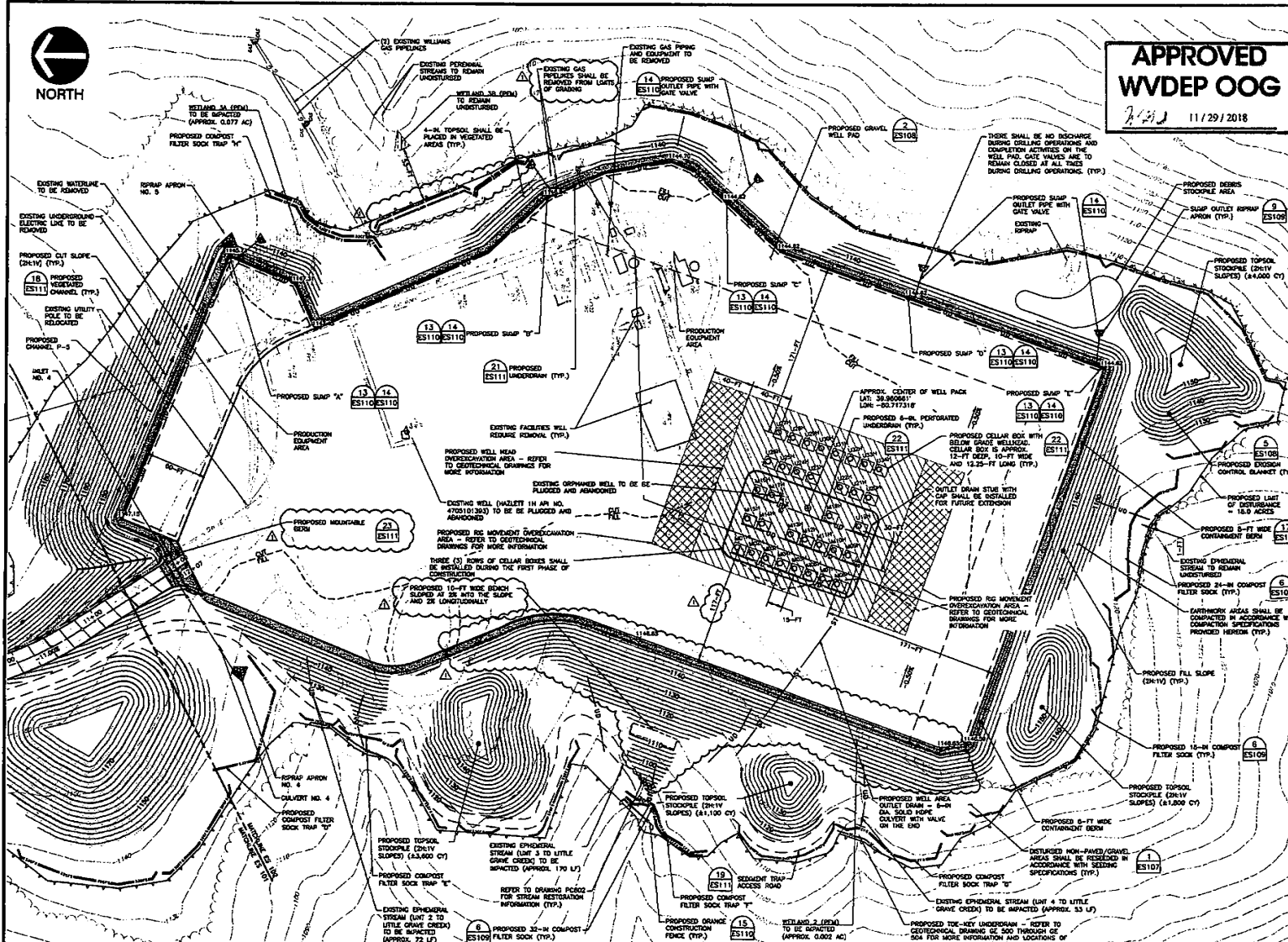
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APPROVED WVDEP OOG
 11/29/2018

- LEGEND**
- EXISTING MOON RIGHT-OF-WAY
 - EXISTING PROPERTY LINE
 - EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING PAVED ROADWAY
 - EXISTING UNPAVED ROADWAY
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING TELECOMMUNICATIONS LINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING STORMWATER DRAINAGE
 - EXISTING FENCE
 - EXISTING STREAM
 - EXISTING WETLAND
 - EXISTING TREELINE
 - EXISTING APRON
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - EXISTING WATER METER
 - EXISTING WATER MANHOLE
 - EXISTING GAS WELL
 - EXISTING POINT OF ACCESS ROAD
 - EXISTING PROPOSED WELL HEAD AND CELLAR
 - EXISTING PROPOSED CONTAINMENT BENCH
 - EXISTING CONCRETE
 - EXISTING ASPHALT PAVEMENT
 - EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING WELL PAD CUT/FILL LINE
 - EXISTING SPOT ELEVATION
 - EXISTING PROPOSED COMPOST FILTER SOCK TRAP
 - EXISTING 18-IN COMPOST FILTER SOCK
 - EXISTING 24-IN COMPOST FILTER SOCK
 - EXISTING 30-IN COMPOST FILTER SOCK
 - EXISTING 36-IN COMPOST FILTER SOCK
 - EXISTING PROPOSED ORANGE CONSTRUCTION FENCE
 - EXISTING PROPOSED ROCK CONSTRUCTION EXTENSION
 - EXISTING PROPOSED INLET PROTECTION
 - EXISTING PROPOSED EROSION CONTROL BLANKET
 - EXISTING CHANNEL (TO BE UTILIZED)
 - EXISTING CHANNEL
 - EXISTING STORMWATER DRAINAGE
 - EXISTING INLET
 - EXISTING APRON
 - EXISTING UNDERDRAIN
 - EXISTING DETAIL MANHOLE
 - EXISTING DRAINAGE DESIGNATION

- STREAM AND WETLAND NOTES**
- WETLAND BOUNDARIES ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE: WETLAND 1A, 1B, 2A, AND 2B. WETLANDS 1A AND 1B CROSS THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY FLOODED.
 - THE FOLLOWING FOUR (4) WETLANDS AND (3) EPHEMERAL STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE MIDWINTER REGIST 30 FOR PERMANENT DISTRICT WETLAND 1A, 1B, 2A AND STREAMS UPT 2, UPT 3, AND UPT 4 TO LITTLE DRAIN.
 - THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT AS DISTURBANCE IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
 - MEASUREMENTS SHOWN HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
- PLACE SIZE FILL MATERIALS USING COMPACTION EQUIPMENT WITH WEIGHTED TAMP OR TIRE TRUCKS IN COMPACTED LIFTS NOT EXCEEDING 12 INCHES THICK. USE A REDUCED LOOSE LIFT THICKNESS OF 4 INCHES THICK FOR WETLANDS 1A AND 1B. PLACE PLATE TAMPERS OR OTHER HAND-OPERATED COMPACTORS ARE BEING USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 3/8 INCHES IN STRUCTURAL FILL AND SHOULD BE USED IN AREAS WHERE HEAVY HAND-OPERATED COMPACTORS ARE USED. WASTE OVERLAYS SHOULD BE USED IN THE WETLANDS. WETLANDS 1A AND 1B SHOULD BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY WITHIN 4.5 FEET OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).
 - COMPACT ALL PAD AND ROADWAY SUBGRADES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY DENSITY WITHIN 4.5 FEET OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).



- REFERENCES**
- STREAMS AND WETLANDS DELINEATED BY OAL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/24/2017.
 - UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICAL LTD. DATED 05/12/2017 TO 05/25/2017.
 - TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY OAL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 03/30/2017 AND 03/23/2017 TO 03/28/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LDM, DATED 2002.
 - PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

MISS UTILITY OF WEST VIRGINIA
 1-800-245-4648
 West Virginia State Law
 (Section 20-2 Chapter 24-C requires that you call two business days before you dig in the state of West Virginia.)
IT'S THE LAW

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 MARSHALL COUNTY, WEST VIRGINIA

EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)

Project Number: 156-756
 Drawing Scale: THREE
 Date Issued: 11/29/18
 Issue Number:
 Drawn By: JMS
 Checked By: JMS
 Project Manager: JMS

SCALE IN FEET
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