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west virginia department of environmental protection

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

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

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

CHEVRON APPALACHIA, LLC  
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HAZLETT M13  
47-051-02108-00-00

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 M13  
Farm Name: IRENE HAZLETT - LIFE  
U.S. WELL NUMBER: 47-051-02108-00-00  
Horizontal 6A New Drill  
Date Issued: 11/30/2018

**PERMIT CONDITIONS 4705102108**

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

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**CONDITIONS**

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

API Number: \_\_\_\_\_

# PERMIT CONDITIONS 4705102108

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



west virginia department of environmental protection

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

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

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

TO: Chevron Appalachia, LLC  
P.O. Box 611  
Moon Township, PA 15108

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

**INTRODUCTION**

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.*, to Chevron Appalachia, LLC (hereinafter "Operator"), collectively the "Parties."

**FINDINGS OF THE CHIEF**

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Chevron Appalachia, LLC is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 611, Moon Township, Pennsylvania.
3. On August 3, 2018, Chevron Appalachia, LLC submitted well work permit applications identified as API#s 47-051-02092, 47-051-02093, 47-051-02094, 47-051-02095, 47-051-02096, 47-051-02097, 47-051-02099 and 47-051-02100. Then on August 7, 2018 Chevron Appalachia, LLC submitted well work permit applications identified as API#s 47-051-02107, 47-051-02108, 47-051-02109, 47-051-02110, 47-051-02111 and 47-051-02112. The proposed wells are to be located on the Hazlett Pad in Union District of Marshall County, West Virginia.
4. On August 3, 2018, Chevron Appalachia, LLC requested a waiver for Wetlands 1A, 3A, 3B and 4 outlined in Attachment I, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-02092, 47-051-02093, 47-051-02094, 47-051-02095, 47-051-02096, 47-051-02097, 47-051-02099, 47-051-02100, 47-051-02107, 47-051-02108, 47-051-02109, 47-051-02110, 47-051-02111 and 47-051-02112. Wetlands 1A and 4 will be excluded from this waiver because they are more than 100' from the LOD of the pad.

## CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.”

## ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands 3A and 3B from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-02092, 47-051-02093, 47-051-02094, 47-051-02095, 47-051-02096, 47-051-02097, 47-051-02099, 47-051-02100, 47-051-02107, 47-051-02108, 47-051-02109, 47-051-02110, 47-051-02111 and 47-051-02112. The Office of Oil and Gas hereby **ORDERS** that Chevron Appalachia, LLC shall meet the following site construction and operational requirements for the Hazlett Well Pad:

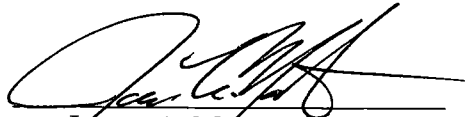
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland 3A shall have both a compost filter sock trap and a layer of thirty two-inch (32”) compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Wetland 3B shall have two layers of eighteen-inch (18”) compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- e. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- f. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- g. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- h. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- i. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- j. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- k. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- l. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 27th day of November, 2018.

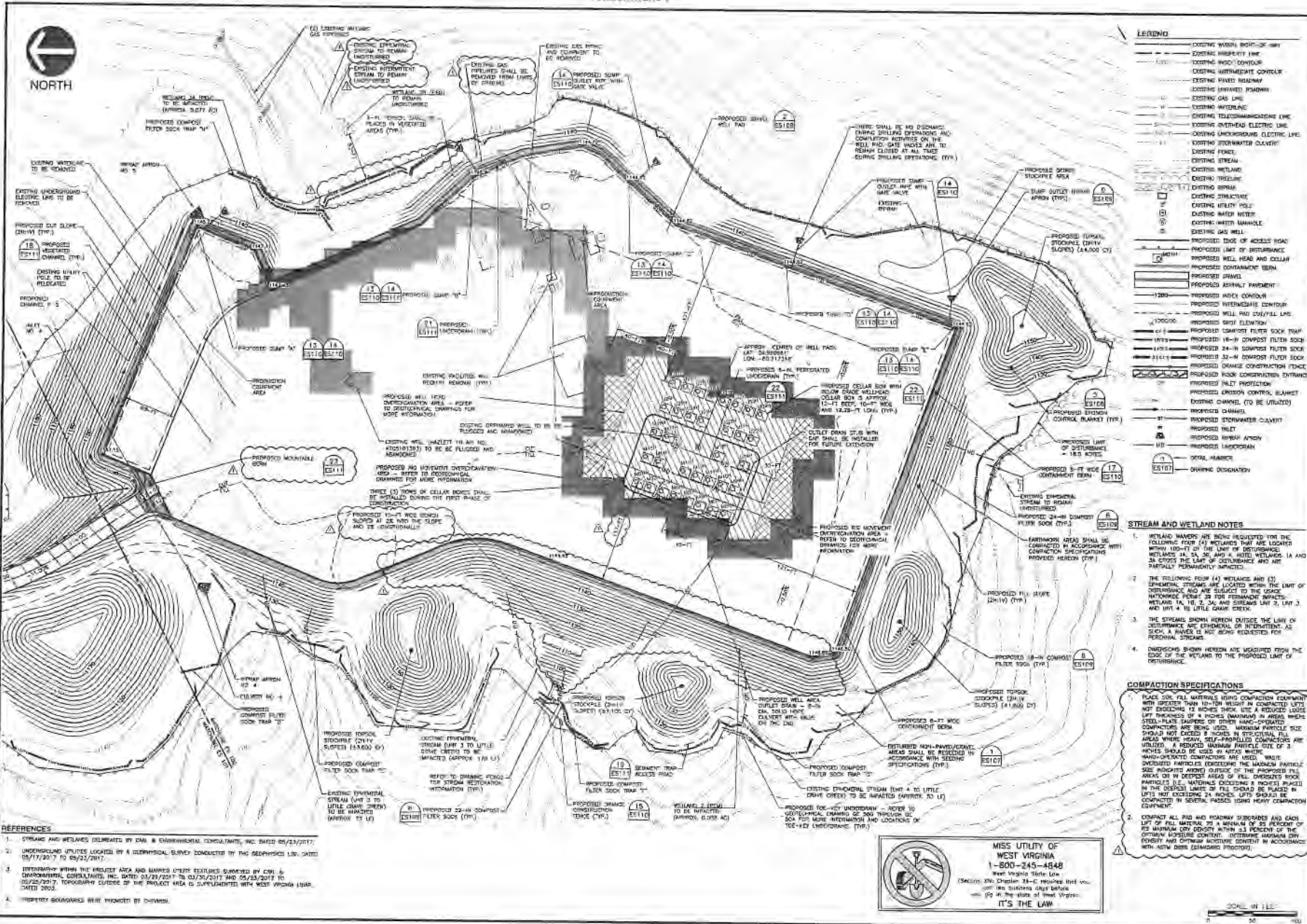
IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:



JAMES A. MARTIN, CHIEF



- LEGEND**
- EXISTING WATER RIGHT-OF-WAY
  - EXISTING PROPERTY LINE
  - EXISTING ROCK OUTLINE
  - EXISTING INTERMEDIATE CONTROL
  - EXISTING PAVED ROADWAY
  - EXISTING DRIVEWAY
  - EXISTING CAN LINE
  - EXISTING WATERLINE
  - EXISTING TELECOMMUNICATIONS LINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING UNDERGROUND ELECTRIC LINE
  - EXISTING UNDERWATER ELECTRIC LINE
  - EXISTING FENCE
  - EXISTING STREAM
  - EXISTING WETLAND
  - EXISTING TRENCH
  - EXISTING BRIDGE
  - EXISTING STRUCTURE
  - EXISTING UTILITY POLE
  - EXISTING WATER METER
  - EXISTING WATER MANHOLE
  - EXISTING GAS WELL
  - PROPOSED EDGE OF ACCESS ROAD
  - PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED WELL HEAD AND CELLAR
  - PROPOSED CONTAINMENT BERM
  - PROPOSED DRIVEWAY
  - PROPOSED ASPHALT PAVEMENT
  - PROPOSED ROCK CONTROL
  - PROPOSED INTERMEDIATE CONTROL
  - PROPOSED WELL PAD CONFINEMENT LINE
  - PROPOSED BEST ELEVATION
  - PROPOSED 18-IN COMPOST FILTER SOCK TOP
  - PROPOSED 18-IN COMPOST FILTER SOCK
  - PROPOSED 24-IN COMPOST FILTER SOCK
  - PROPOSED 32-IN COMPOST FILTER SOCK
  - PROPOSED CHANGE CONSTRUCTION FENCE
  - PROPOSED ROCK CONCENTRATION DIVERSION
  - PROPOSED INLET PROTECTION
  - PROPOSED EROSION CONTROL, BLANKET
  - EXISTING CHANNEL (TO BE UTILIZED)
  - PROPOSED CHANNEL
  - PROPOSED STORMWATER CULVERT
  - PROPOSED WEIR
  - PROPOSED WEIR APRON
  - PROPOSED LIQUORATION
  - EXISTING MANHOLE
  - EXISTING DESIGNATION

- STREAM AND WETLAND NOTES**
1. WETLAND BOUNDARIES ARE BEING REQUESTED FOR THE FOLLOWING FEET (4) INCLUDES THAT ARE LOCATED WITHIN LIMITS OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY IMPACTED.
  2. THE TRENCHES FROM (4) WETLAND AND (3) EROSIONAL STREAMS ARE SUBJECT TO THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE INTERFERE PERMITS FOR PERMITS IMPACTS WETLAND 1A, 1B, 2, 3A, AND STREAMS 1B, 2, 3, AND 4A TO 4C LITTLE GAUL CREEK.
  3. THE STREAMS SHOWN HEREIN OUTSIDE THE LIMIT OF DISTURBANCE ARE EROSIONAL OR INTERMITTENT, AS PERSONAL STREAMS.
  4. DIMENSIONS SHOWN HEREIN ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE 30% FILL MATERIALS USING COMPACTION EQUIPMENT WITH GREATER THAN 10-TON WEIGHT IN COMPACTED LIFT NOT EXCEEDING 12 INCHES THICK. USE A REDUCED LOOSE LIFT THICKNESS OF 8 INCHES (MAXIMUM) IN AREAS WHERE STEEL-PLATE TAHOES OR OTHER HAND-COMPACTED COMPACTORS ARE BEING USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 8 INCHES IN ANY SECTION. FILL AREAS WHERE HEAVY, SELF-PROPELLED COMPACTIONERS ARE UTILIZED, A REDUCED MAXIMUM PARTICLE SIZE OF 3 INCHES SHOULD BE USED IN AREAS WHERE HAND-COMPACTED COMPACTORS ARE USED. WATER SATURATED PARTICLES (EXCEEDING THE MAXIMUM PARTICLE SIZE INDICATED ABOVE) OUTSIDE OF THE PROPOSED FILL AREA OR IN DEEPEST AREAS OF FILL, DRAINAGE HOLES AND UNDESIRABLE MATERIALS EXCEEDING THE PROPOSED FILL LAYER LIMITS OF FILL SHOULD BE PLACED IN COMPACTED IN SEVERAL PASSES USING HEAVY CONSTRUCTION EQUIPMENT.
  2. CONTACT ALL FILL AND FILLWAY SUBSIDIES AND GROUT LIFT OF FILL MATERIAL TO A MINIMUM OF 25 PERCENT OF THE OPTIMUM MOISTURE CONTENT. DETERMINE 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 GEOTECHNICAL SURVEY CONDUCTED BY THE GEOTECHNICAL LAB. DATED 05/17/2017 TO 05/23/2017.
  3. INFORMATION WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES OBTAINED BY CML & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 03/30/2017 AND 05/23/2017 TO 05/25/2017. THROUGHOUT COURSE OF THE PROJECT AREA IS CORRELATED WITH WEST VIRGINIA STATE, DATED 2003.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY OWNER.


**MISS UTILITY OF WEST VIRGINIA**  
 1-800-245-4848  
 West Virginia State Law  
 (Section 20C Chapter 24-C requires that you call the utilities only before 48 hours of the start of your dig.)  
**IT'S THE LAW**

  
**CEE**  
 Civil & Environmental Consultants, Inc.  
 4001 Springs Lane, Suite 200 • Exton, PA 19341  
 764-377-5296 • 800-698-8437  
 www.ceeinc.com

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**ROBERT J. HESTER**  
 PROFESSIONAL ENGINEER  
 No. 17400  
 STATE OF PA

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**REVISION RECORD**  
 NO. REV. DATE DESCRIPTION REVISION BY

NO.	REV.	DATE	DESCRIPTION	REVISION BY
1	1	11/08/2017	ISSUED FOR PERMITS	JRH
2	2	01/23/2018	REVISED FOR PERMITS	JRH
3	3	02/01/2018	REVISED FOR PERMITS	JRH
4	4	02/01/2018	REVISED FOR PERMITS	JRH
5	5	02/01/2018	REVISED FOR PERMITS	JRH
6	6	02/01/2018	REVISED FOR PERMITS	JRH
7	7	02/01/2018	REVISED FOR PERMITS	JRH
8	8	02/01/2018	REVISED FOR PERMITS	JRH
9	9	02/01/2018	REVISED FOR PERMITS	JRH
10	10	02/01/2018	REVISED FOR PERMITS	JRH
11	11	02/01/2018	REVISED FOR PERMITS	JRH
12	12	02/01/2018	REVISED FOR PERMITS	JRH
13	13	02/01/2018	REVISED FOR PERMITS	JRH
14	14	02/01/2018	REVISED FOR PERMITS	JRH
15	15	02/01/2018	REVISED FOR PERMITS	JRH
16	16	02/01/2018	REVISED FOR PERMITS	JRH
17	17	02/01/2018	REVISED FOR PERMITS	JRH
18	18	02/01/2018	REVISED FOR PERMITS	JRH
19	19	02/01/2018	REVISED FOR PERMITS	JRH
20	20	02/01/2018	REVISED FOR PERMITS	JRH
21	21	02/01/2018	REVISED FOR PERMITS	JRH
22	22	02/01/2018	REVISED FOR PERMITS	JRH
23	23	02/01/2018	REVISED FOR PERMITS	JRH
24	24	02/01/2018	REVISED FOR PERMITS	JRH
25	25	02/01/2018	REVISED FOR PERMITS	JRH
26	26	02/01/2018	REVISED FOR PERMITS	JRH
27	27	02/01/2018	REVISED FOR PERMITS	JRH
28	28	02/01/2018	REVISED FOR PERMITS	JRH
29	29	02/01/2018	REVISED FOR PERMITS	JRH
30	30	02/01/2018	REVISED FOR PERMITS	JRH
31	31	02/01/2018	REVISED FOR PERMITS	JRH
32	32	02/01/2018	REVISED FOR PERMITS	JRH
33	33	02/01/2018	REVISED FOR PERMITS	JRH
34	34	02/01/2018	REVISED FOR PERMITS	JRH
35	35	02/01/2018	REVISED FOR PERMITS	JRH
36	36	02/01/2018	REVISED FOR PERMITS	JRH
37	37	02/01/2018	REVISED FOR PERMITS	JRH
38	38	02/01/2018	REVISED FOR PERMITS	JRH
39	39	02/01/2018	REVISED FOR PERMITS	JRH
40	40	02/01/2018	REVISED FOR PERMITS	JRH
41	41	02/01/2018	REVISED FOR PERMITS	JRH
42	42	02/01/2018	REVISED FOR PERMITS	JRH
43	43	02/01/2018	REVISED FOR PERMITS	JRH
44	44	02/01/2018	REVISED FOR PERMITS	JRH
45	45	02/01/2018	REVISED FOR PERMITS	JRH
46	46	02/01/2018	REVISED FOR PERMITS	JRH
47	47	02/01/2018	REVISED FOR PERMITS	JRH
48	48	02/01/2018	REVISED FOR PERMITS	JRH
49	49	02/01/2018	REVISED FOR PERMITS	JRH
50	50	02/01/2018	REVISED FOR PERMITS	JRH

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

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**EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)**  
 Project Number: 102790  
 Drawing Scale: 1"=50'  
 Date Issued: 07/20/18  
 Issue Number: 07/20/18  
 Drawn By: JRH  
 Checked By: JRH  
 Project Manager: JRH

ES 102





May 3, 2018

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

Dear Reviewer:

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

## 1.0 INTRODUCTION

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

Chevron is proposing to expand an existing natural gas well pad and widen the associated existing access road. The total limit of disturbance (LOD) for the project is approximately 18 acres. The waiver request form is included in Attachment A. The following figures are included in Attachment B: Site Location Map, Aquatics Impact Map, and Wetland Waiver Request Figure. The Erosion & Sediment Control (E&S) Plan is included in Attachment C. Existing wetlands and streams were delineated by qualified CEC biologists on May 23, 2017. The following section provides additional information as required by the waiver.

## 2.0 WETLAND WAIVER REQUEST

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

The proposed Hazlett Well Pad Project is located off Grandview Road/WV-86 in Union District, Marshall County, West Virginia, east of the city of Glen Dale, as shown on the Site Location Map. The project's proposed LOD is located within 100 feet of three palustrine emergent wetlands and one palustrine scrub-shrub wetland, as shown on the Aquatic Impacts Map. The approximate distance of each wetland to the nearest boundary of the LOD is as follows:

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

No perennial streams are located within 100 feet of the project LOD. A waiver is not being requested for the Wetlands 1B and 2 which are located entirely within the LOD. Chevron is requesting authorization from the U.S. Army Corps of Engineers (USACE) for impacts to these wetlands, impacts to the portions of Wetlands 1A and 3A within the LOD, and for impacts to three ephemeral unnamed tributaries to Little Grave Creek. A copy of the Application for Department of the Army Permit is included in Attachment D.

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

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

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

- b. Location alternatives must be shown.*

Due to the size of the proposed well pad, the steep topography of the surrounding area, and the location of the subsurface coal boundary, the current location of the proposed Hazlett Well Pad is the primary location desired by Chevron. Further, this project expands an existing well pad and access road. Siting the proposed well pad at an alternative location will likely result in additional earth and vegetation disturbance. Minor adjustments to the dimensions of the proposed well pad were made during the conceptual planning phase of the project; however, the current location of the well pad has remained unchanged due to the limitations listed above. The size of the well pad is optimized for the extraction and production equipment that will be set on the well pad. As such, minimizing the dimensions of the well pad beyond the dimensions provided is not feasible. The location of the well pad and LOD are shown on Figure 3 – Wetland Waiver Request Figure provided in Attachment B.

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

Maintaining a 100-foot buffer from all on-site wetlands is not feasible due to topographic constraints and locations of the existing features. Two of the wetlands are located on the southwest side of the access road and two of the wetlands are located on the eastern side of the well pad. If the access road was shifted northeast, it would result in significantly more earth disturbance due to the steep topography. Similarly, if the well pad was shifted west to avoid the two wetlands, additional permanent stream impacts would occur on the western side of the pad.

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

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

The proposed Hazlett Well Site design represents the alternative which reduces permanent impacts to the greatest degree practicable. Shifting the proposed well pad east or west would create higher fill slopes and result in more disturbance to existing streams and wetlands.

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

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

- Compost filter sock traps will be positioned downslope of larger drainage areas and upslope of the existing wetlands and/or ephemeral streams;
- Compost filter socks will be positioned downslope of smaller drainage areas and upslope of the existing wetlands and/or ephemeral streams;
- Orange construction fence will be erected along the edge of the LOD to clearly mark and help protect the wetlands from being impacted during construction operations;

- Erosion control blanket will be placed on slopes greater than 3 Horizontal to 1 Vertical (3H:1V) to limit erosion and promote vegetative growth;
- Riprap aprons will be constructed at the outfalls of pipes to dissipate runoff;
- Disturbed areas within the LOD shall be stabilized within 21 days of construction activity temporarily or permanently ceasing; and
- One ephemeral stream (UNT 3 to Little Grave Creek) located within the LOD will be realigned and restored to approximate original dimensions downgradient of the proposed fill slope toe-key outlet drain and lined with riprap.

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

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

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

### 3.0 CLOSING

We appreciate your review of this Wetland Waiver Request. Please contact Mallory Owens at 724-327-5200 or [mowens@cecinc.com](mailto:mowens@cecinc.com) if you have any questions or require additional information.

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC



Sarah V. Parker  
Assistant Project Manager



Mallory A. Owens, M.S.  
Project Manager

SVP:MAO/jg/hm  
Enclosures

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

L-164755.May3/P

---

**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**

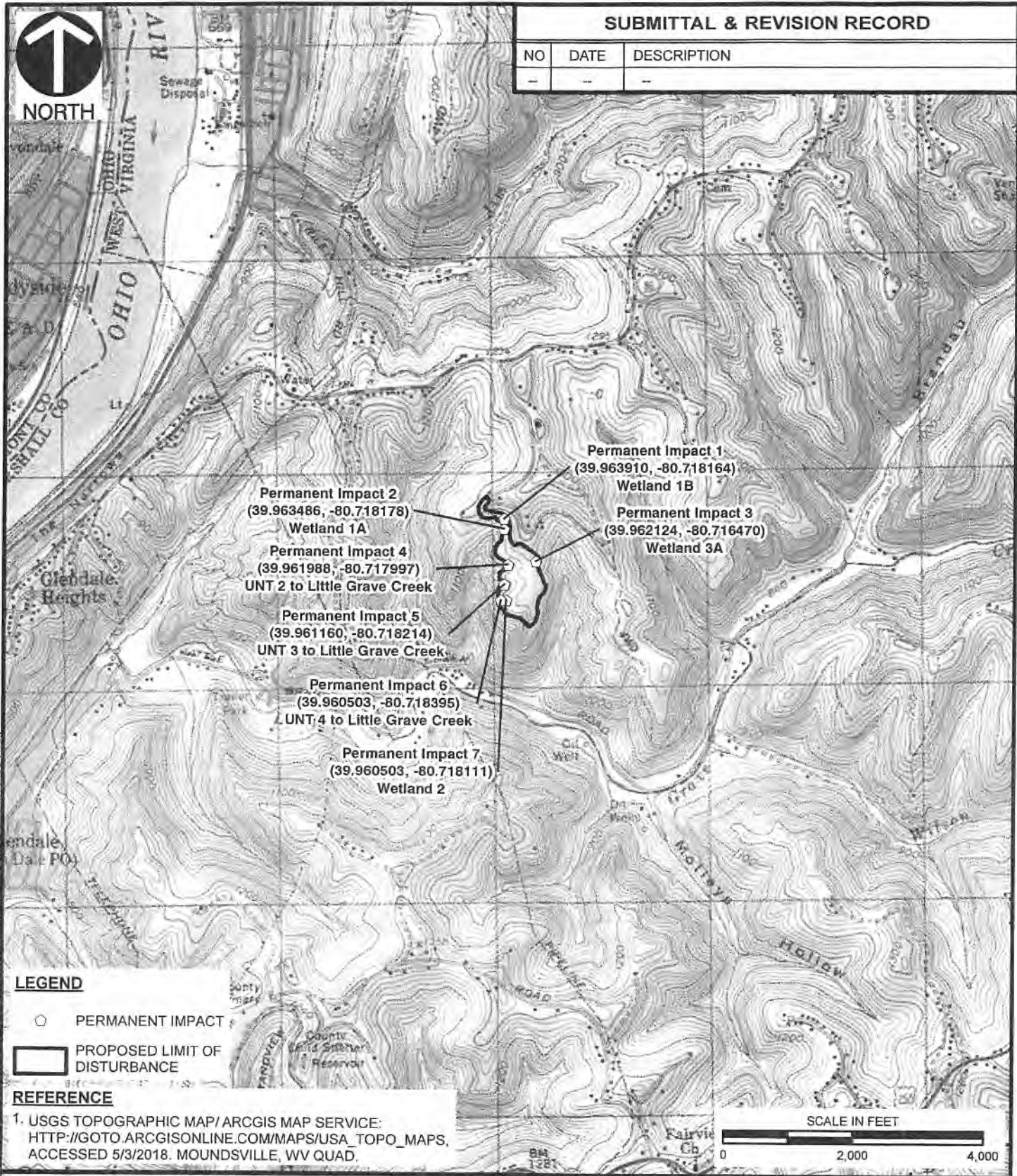
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NORTH

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
-	-	-



Permanent Impact 2  
(39.963486, -80.718178)  
Wetland 1A

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

Permanent Impact 1  
(39.963910, -80.718164)  
Wetland 1B

Permanent Impact 3  
(39.962124, -80.716470)  
Wetland 3A

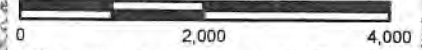
LEGEND

- PERMANENT IMPACT
- PROPOSED LIMIT OF DISTURBANCE

REFERENCE

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

SCALE IN FEET



Civil & Environmental Consultants, Inc.

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

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

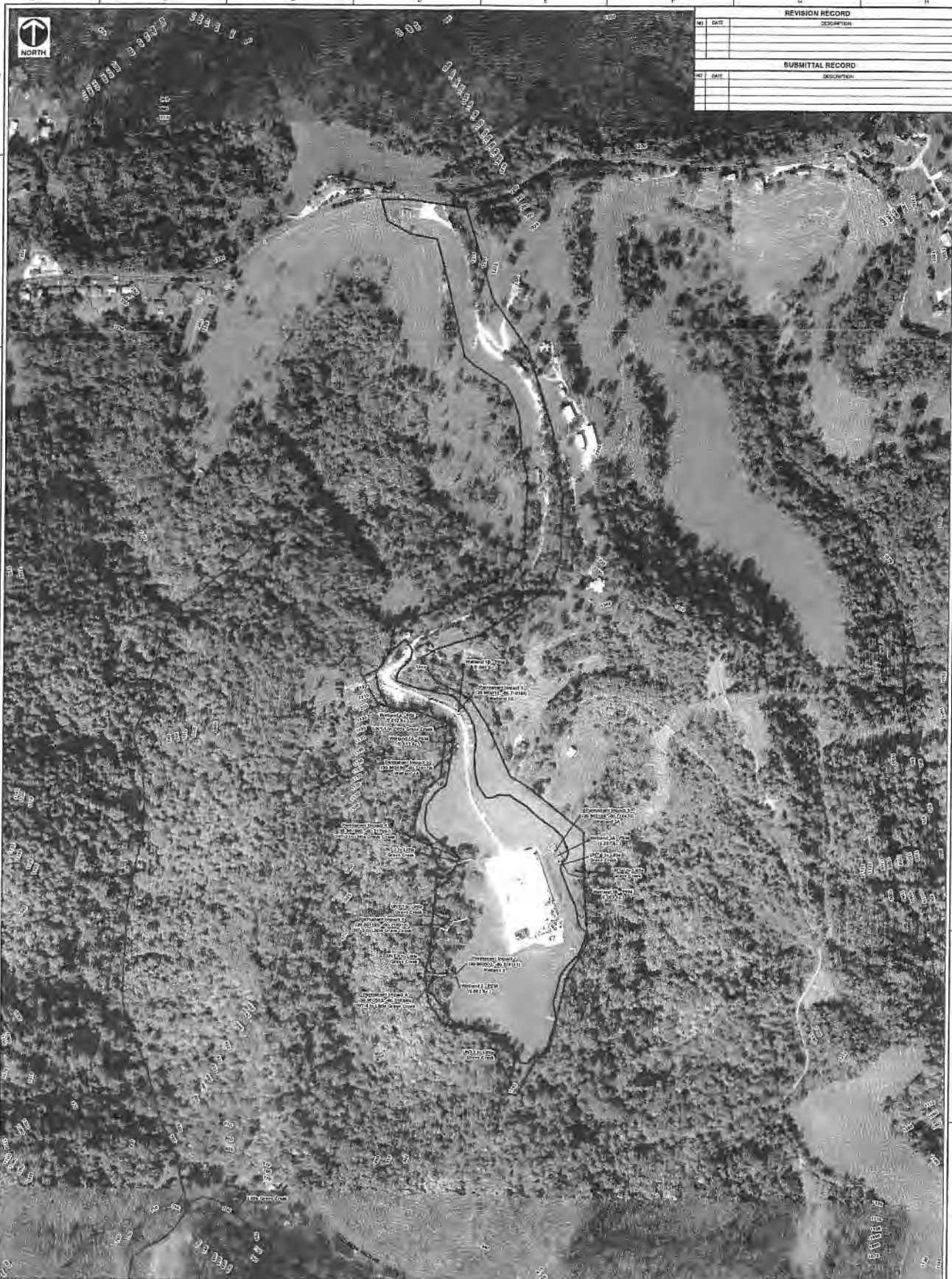
SITE LOCATION MAP

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

P:\2016\164-755-GIS\Maps\EC05\_NWP\164755\_EC05\_FIG\_1\_SITE\_LOC\_MAP.mxd 5/3/2018 8:33 AM (kcalrizz)



REVISION RECORD	
NO.	DATE
SUBMITTAL RECORD	
NO.	DATE



**LEGEND**


○ PERMANENT IMPACT	----- WETLAND CONTIGUES BEYOND DELINEATION BOUNDARY
▨ PROPOSED STREAM IMPACT	▨ PROPOSED WETLAND IMPACT
— EPHEMERAL STREAM	WETLAND - PFM
- - - INTERMITTENT STREAM	WETLAND - PSS
— W/ WIND STREAM	▭ PROPOSED LIMIT OF DISTURBANCE
	▭ DELINEATION BOUNDARY
	INDEX CONTOUR

- REFERENCES**
1. USGS NATIONAL HYDROGRAPHY DATASET FOR WEST VIRGINIA, 2012.
  2. WYGG CLEARING HOUSE, 17 CONTIGUOUS MICHIGAN, WV 26040, 2001.
  3. ESRI WORLD MAPS (ARCGIS MAP SERVICE; WORLD MAPS; ACCESSED 5/20/16; IMAGE DATE: 2015).

**NOTES**

1. THE WETLAND AND STREAM DELINEATION WAS CONDUCTED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON 05/20/2017.
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 FREEMONT REGION, VERSION 2.0 (2012 REGIONAL SUPPLEMENT), AND WITH THE LEVEL OF CARE AND SKILL ORDINARILY EXERCISED BY MEMBERS OF THE ENVIRONMENTAL CONSULTING PROFESSION PRACTICING COMPETENTLY AND JUSTLY UNDER SIMILAR CONDITIONS IN THE LOCALITY OF THE PROJECT. IT MUST BE RECOGNIZED THE WETLAND DELINEATION WAS BASED ON FIELD OBSERVATIONS AND CIVIL & ENVIRONMENTAL CONSULTANTS' PROFESSIONAL INTERPRETATION OF THE CRITERIA IN THE 1987 MANUAL AND THE 2012 REGIONAL SUPPLEMENT. WETLAND DETERMINATIONS MAY CHANGE SUBSEQUENT TO CIVIL & ENVIRONMENTAL WETLAND DETERMINATIONS BASED ON CHANGES TO REGULATORY CRITERIA, CHANGES TO DRAINAGE, AND OTHER HUMAN ACTIVITIES AND/OR LAND DISTURBANCES.



  
**Civil & Environmental Consultants, Inc.**  
 4000 Triangle Lane, Suite 200 - Export, PA 15622  
 PH: 724-307-6200 - 800-426-3010  
 www.cecinc.com

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

DRAWN BY: KMC	CHECKED BY: BWP	APPROVED BY: PKY
DATE: 05/23/2018	SCALE: 1" = 200'	PROJECT NO.: 16A-755
<b>AQUATIC IMPACTS MAP</b>		<b>FIGURE NO. 2</b>
SHEET 2		OF 1

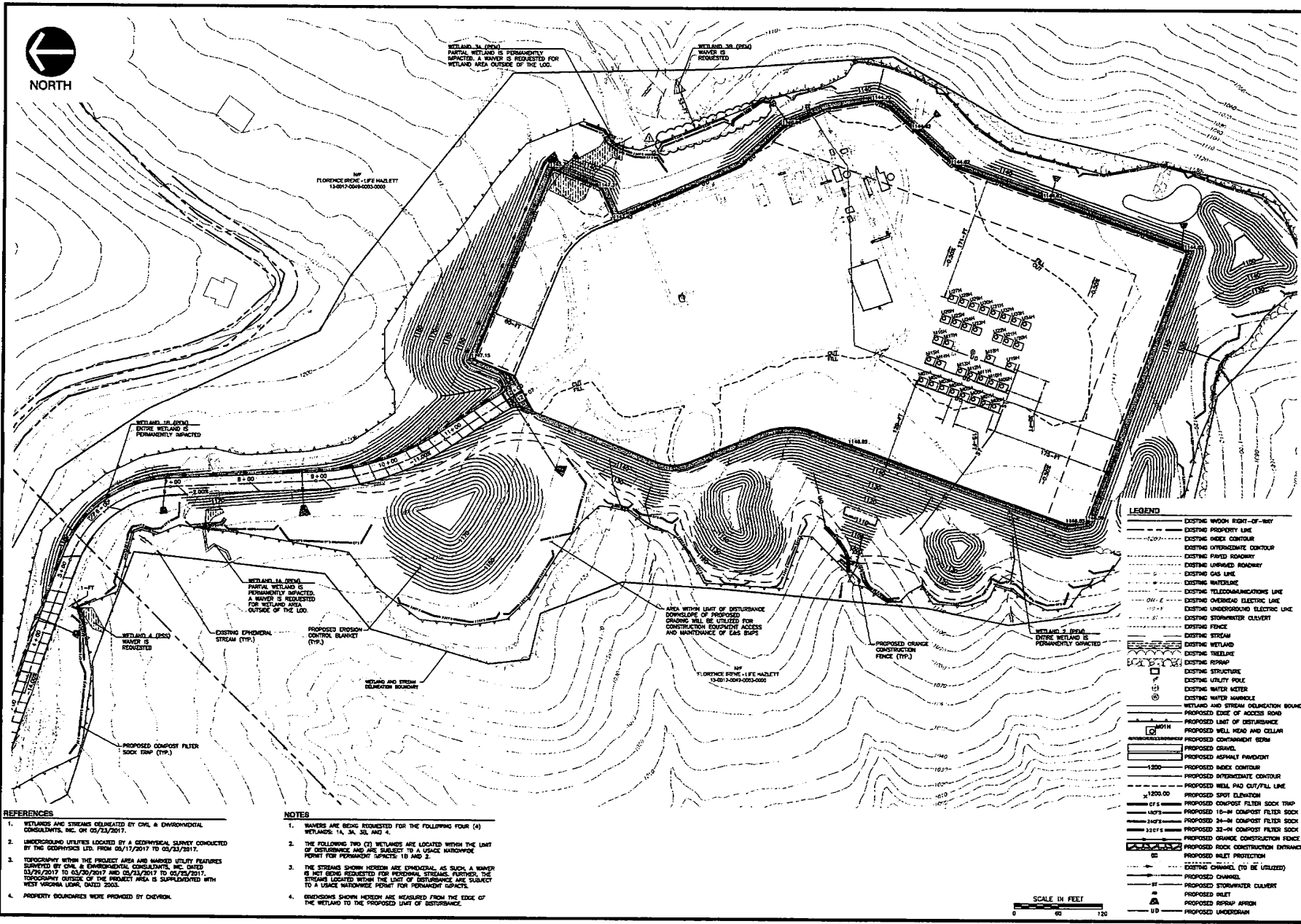
2018 05/23/2018 16A-755 APPALACHIA\_HAZLETT\_WELL\_PAD\_AQUATIC\_IMPACTS\_MAP\_052318.dwg 1:1

NO.	DATE	REVISION RECORD
01	01/15/2017	REV. PER DEC COMMENTS 06/2017
02		
03		
04		
05		
06		
07		
08		

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

Project Number: 164.795  
 Drawing Scale: 1"=50'  
 Date Issued: 02/20/16  
 Index Number:  
 Drawn By: RDB  
 Checked By: MAG  
 Project Manager: EXK

**FIG. 3**



**NORTH**

- REFERENCES**
1. WETLANDS AND STREAMS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON 05/23/2017.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOTECHNICAL SURVEY CONDUCTED BY THE BOORHANS LTD. FROM 06/17/2017 TO 06/21/2017.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/27/2017 TO 03/30/2017 AND 03/01/2017 TO 03/06/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH MOST RECENT USGS DATED 2002.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

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

**SCALE IN FEET**  
 0 50 100

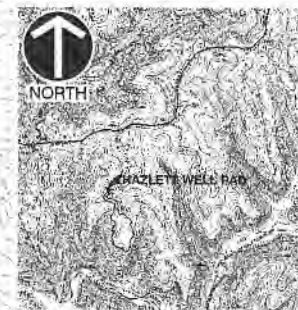
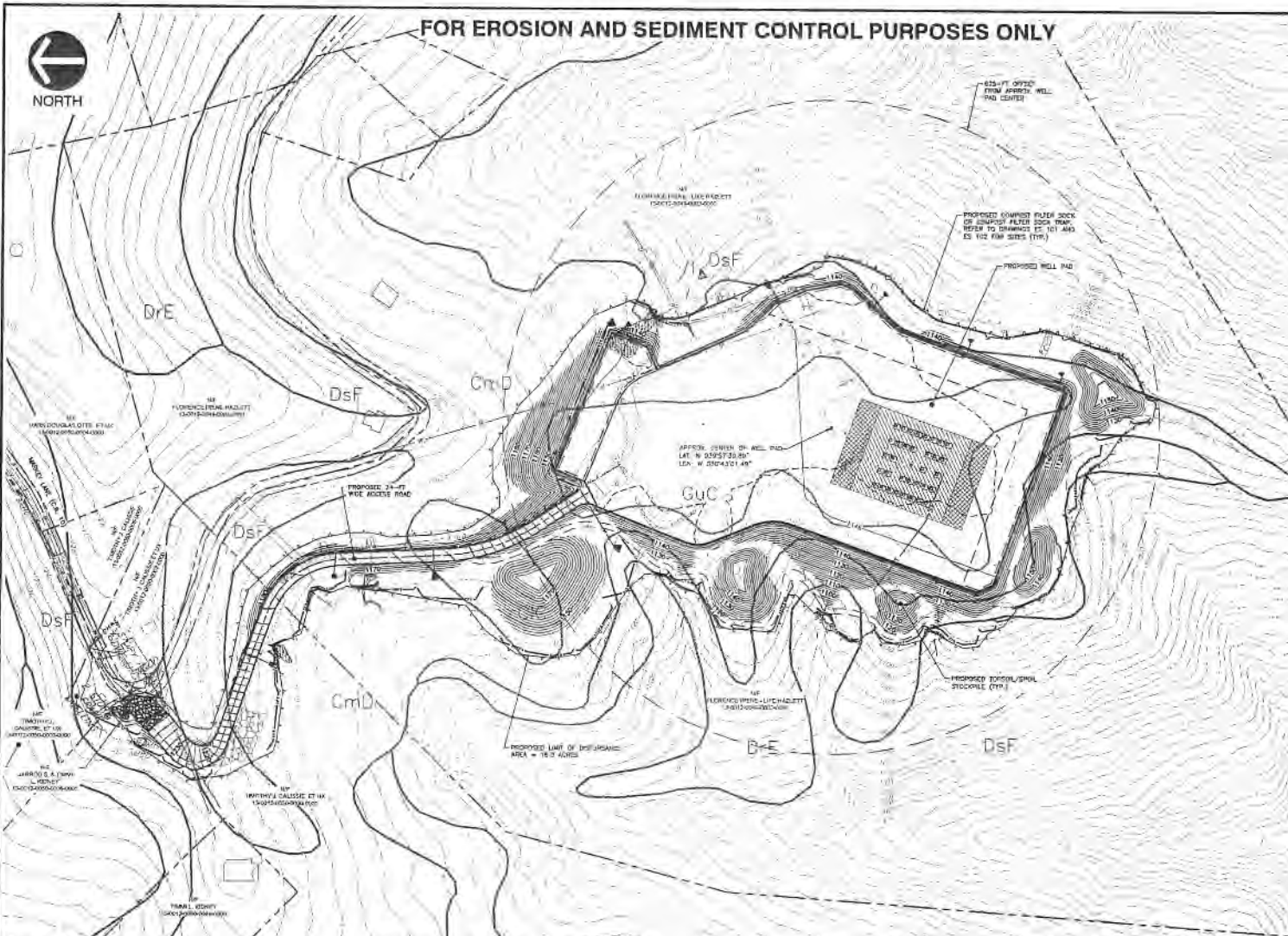
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**ATTACHMENT C**

**EROSION AND SEDIMENT CONTROL PLAN**

---

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



SCALE IN FEET  
0 2000 4000

REFERENCE  
U.S.G.S. 7.5' TOPOGRAPHIC MAP, WOUNDSVILLE QUADRANGLE, WHICH DATED: 1976

- LEGEND
- EXISTING HIGHWAY RIGHT-OF-WAY
  - EXISTING PROPERTY LINE
  - EXISTING HOUS. CONTOUR
  - EXISTING INTERMEDIATE CONTOUR
  - EXISTING WATER BOUNDARY
  - EXISTING UNPAVED ROADWAY
  - EXISTING GAS LINE
  - EXISTING WATER LINE
  - EXISTING TELECOMMUNICATIONS LINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING UNDERGROUND ELECTRIC LINE
  - EXISTING STORMWATER CULVERT
  - EXISTING TRACE
  - EXISTING STREAM
  - EXISTING WETLAND
  - EXISTING TREE/SHRUB
  - EXISTING STRUCTURE
  - EXISTING UTILITY POLE
  - EXISTING WATER METER
  - EXISTING WATER MANHOLE
  - EXISTING GAS WELL
  - PROPOSED EDGE OF ACCESS ROAD
  - PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED WELL HEAD AND CELLAR
  - PROPOSED CONFINEMENT BERM
  - PROPOSED DRIVE
  - PROPOSED ASPHALT PAVEMENT
  - PROPOSED INDEX CONTOUR
  - PROPOSED HYDROLOGIC CONTOUR
  - PROPOSED WELL PAD OVERFILL LINE
  - PROPOSED SPOT ELEVATION
  - PROPOSED OUTPOST FILTER SOCK TRAP
  - PROPOSED 15-IN COMPOST FILTER SOCK
  - PROPOSED 24-IN COMPOST FILTER SOCK
  - PROPOSED 33-IN COMPOST FILTER SOCK
  - PROPOSED GRASS CONSTRUCTION FENCE
  - PROPOSED ROCK RETENTION/RETAINMENT
  - PROPOSED RILEY PROTECTION
  - EXISTING CHANNEL (TO BE UTILIZED)
  - PROPOSED CHANNEL
  - PROPOSED STORMWATER CULVERT
  - PROPOSED RILEY
  - PROPOSED RIPRAP APRON
  - PROPOSED UNDERDRAIN
  - LOCAL TOWN BOUNDARY
  - SOIL BOUNDARY LABEL

- REFERENCES
1. STREAMS AND WETLANDS IDENTIFIED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/23/2011.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. GROUP 05/11/2011 TO 05/12/2011.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKET UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/23/2011 TO 03/26/2011 AND 03/23/2011 TO 03/24/2011. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA YEAR, DATED 2003.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

EARTHWORK SUMMARY

	EST. (SQ)	EST. (CY)	NET. (CY)
WELL PAD	48,400	43,200	7,800 FILL
ACCESS ROAD	2,200	500	4,100 CUT
TOTAL	45,800	44,200	1,600 CUT
TERRESTRIAL STOCKPILES REQUIRED	N/A	5,800	
1% CUT SLOPES/STOCKPILES REQUIRED	N/A	4,100	
TERRESTRIAL STOCKPILES PROVIDED	N/A	74,100	

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

MISS UTILITY OF WEST VIRGINIA  
1-800-245-4848  
West Virginia State Law  
(Section 20A, Chapter 24-C requires that you call before digging any hole, trench, or excavation in the state of West Virginia.)  
IT'S THE LAW

NOTE: NUMBERS LISTED ABOVE ARE APPROXIMATE AND HAVE BEEN ADJUSTED USING A-W OF TERRESTRIAL STOCKPILES BEING REQUIRED. FILL OF STONE PLACEMENT ON THE PAD AND #3 1/2 IN OF FILL ON THE ACCESS ROAD. NO ADJUSTMENTS WERE MADE FOR SHrink OF STONE.

CEE  
Civil & Environmental Consultants, Inc.  
1000 Riverside Lane, Suite 200, Sparks, VA 22841  
703-838-8888  
www.cee.com

REVISION RECORD

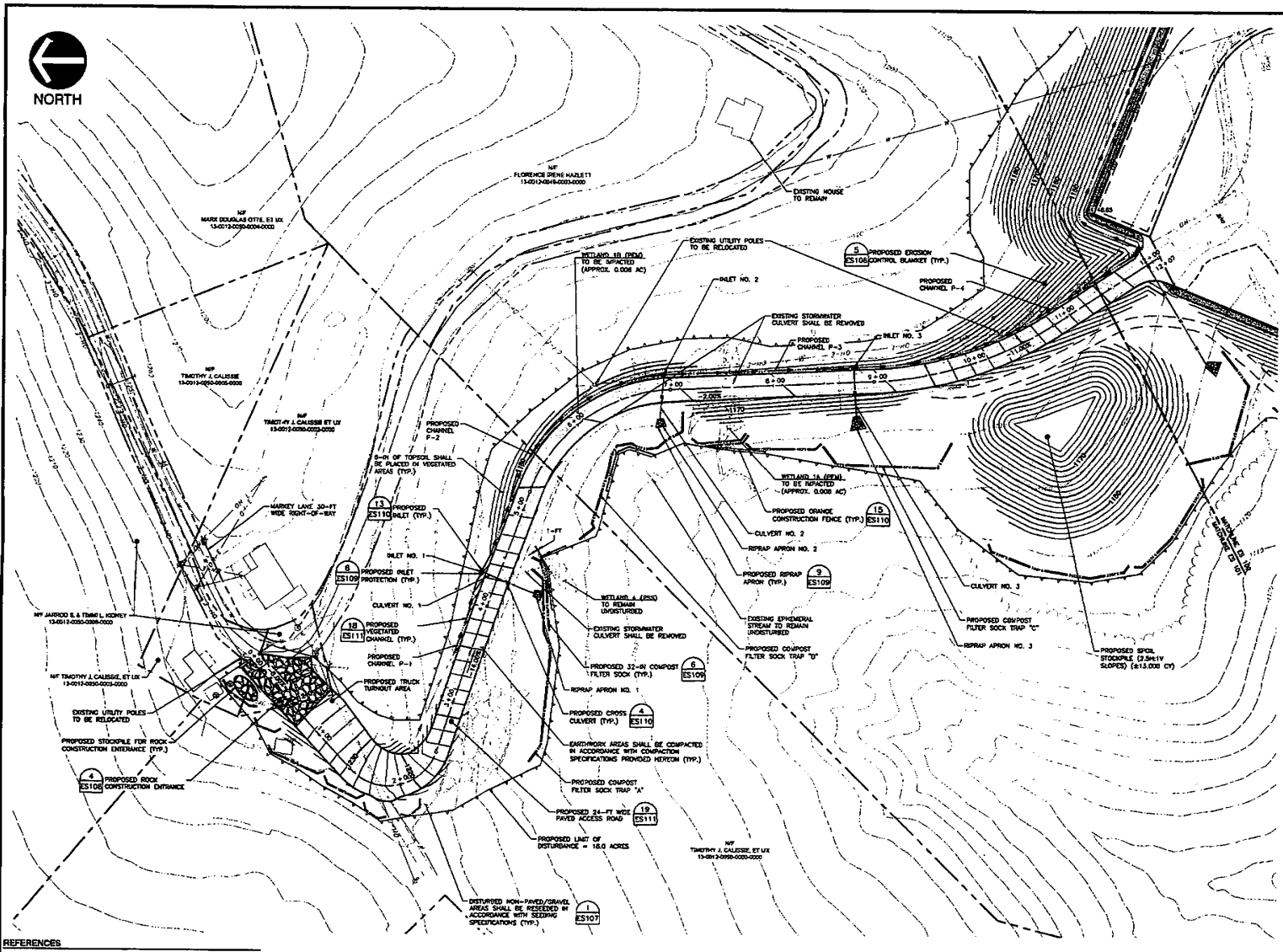
NO.	DATE	DESCRIPTION
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2	05/11/2011	ISSUED FOR PERMIT
3	05/11/2011	ISSUED FOR PERMIT
4	05/11/2011	ISSUED FOR PERMIT
5	05/11/2011	ISSUED FOR PERMIT
6	05/11/2011	ISSUED FOR PERMIT

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

OVERALL EROSION AND SEDIMENTATION CONTROL PLAN

Project Number: 24-100  
Drawing Scale: AS SHOWN  
Date Issued: 05/11/2011  
Info Number: 0000  
Drawn by: JAM  
Checked by: JAM  
Project Manager: DEART

ES 100



**LEGEND**

- EXISTING WOOD RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING PAVED ROADWAY
- EXISTING UNPAVED ROADWAY
- EXISTING GAS LINE
- EXISTING WATERLINE
- EXISTING TELECOMMUNICATIONS LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORMWATER CULVERT
- EXISTING FENCE
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING FREEDLINE
- EXISTING EPPRAP
- EXISTING STRUCTURE
- EXISTING UTILITY POLE
- EXISTING WATER METER
- EXISTING WATER MANHOLE
- EXISTING GAS WELL
- PROPOSED EDGE OF ACCESS ROAD
- PROPOSED LINE OF DISTURBANCE
- PROPOSED WELL HEAD AND CELLAR
- PROPOSED CONTAMINANT BARRIERS
- PROPOSED CHANNEL
- PROPOSED ASPHALT PAVEMENT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED WELL PAO CUT/FILL LINE
- PROPOSED SPOT ELEVATION
- PROPOSED 18-IN COMPACT FILTER SOCK TRAP
- PROPOSED 24-IN COMPACT FILTER SOCK
- PROPOSED 32-IN COMPACT FILTER SOCK
- PROPOSED ORANGE CONSTRUCTION FENCE
- PROPOSED ROCK CONSTRUCTION DISTANCE
- PROPOSED INLET PROTECTION
- PROPOSED EROSION CONTROL, BLANKET
- EXISTING CHANNEL (TO BE UTILIZED)
- PROPOSED CHANNEL
- PROPOSED STORMWATER CULVERT
- PROPOSED INLET
- PROPOSED REBAR APRON
- PROPOSED UNDERDRAIN
- DETAIL NUMBER
- DRAWING DESIGNATION

**STREAM AND WETLAND NOTES**

1. WETLAND WARRIORS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE. WETLANDS 1A, 2A, 3A, AND 4A. WETLANDS 1A AND 2A ARE PARTIALLY PERMANENTLY IMPACTED.
2. THE FOLLOWING FOUR (4) WETLANDS AND (3) CHANNELS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE REGULATIONS. WETLANDS 1A, 1B, 2, 2A, 3, AND 3A. WETLANDS 1A, 1B, 2, 2A, 3, AND 3A ARE PARTIALLY PERMANENTLY IMPACTED.
3. THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT AS SUCH, A WARRIOR IS NOT BEING REQUESTED FOR PERENNIAL STREAMS.
4. DOWNSTREAM SHOW HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

**COMPACTION SPECIFICATIONS**

1. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION (ASTM D1557) FOR ALL AREAS EXCEPT FOR THE SUBGRADE UNDER THE PAVED ACCESS ROAD. THE SUBGRADE UNDER THE PAVED ACCESS ROAD SHALL BE COMPACTED TO A MINIMUM OF 98% RELATIVE COMPACTION (ASTM D1557). ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION (ASTM D1557) FOR ALL AREAS EXCEPT FOR THE SUBGRADE UNDER THE PAVED ACCESS ROAD. THE SUBGRADE UNDER THE PAVED ACCESS ROAD SHALL BE COMPACTED TO A MINIMUM OF 98% RELATIVE COMPACTION (ASTM D1557).
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 2.5 PERCENT OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D998 (STANDARD PROCTOR).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/23/2017.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE COMPANY'S LTD. DATED 05/17/2017 TO 05/23/2017.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND ADJACENT UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/23/2017 TO 03/29/2017 AND 02/22/2017 TO 02/29/2017 TO TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA USGS, DATED 2003.
  4. PROPERTY BOUNDARIES WERE PROVIDED BY OWNER.

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

**CEC**  
 Civil & Environmental Consultants, Inc.  
 6000 Peachtree Lane, Suite 300, Atlanta, GA 30328  
 770-427-2229 FAX: 770-427-2228  
 www.cecinc.com



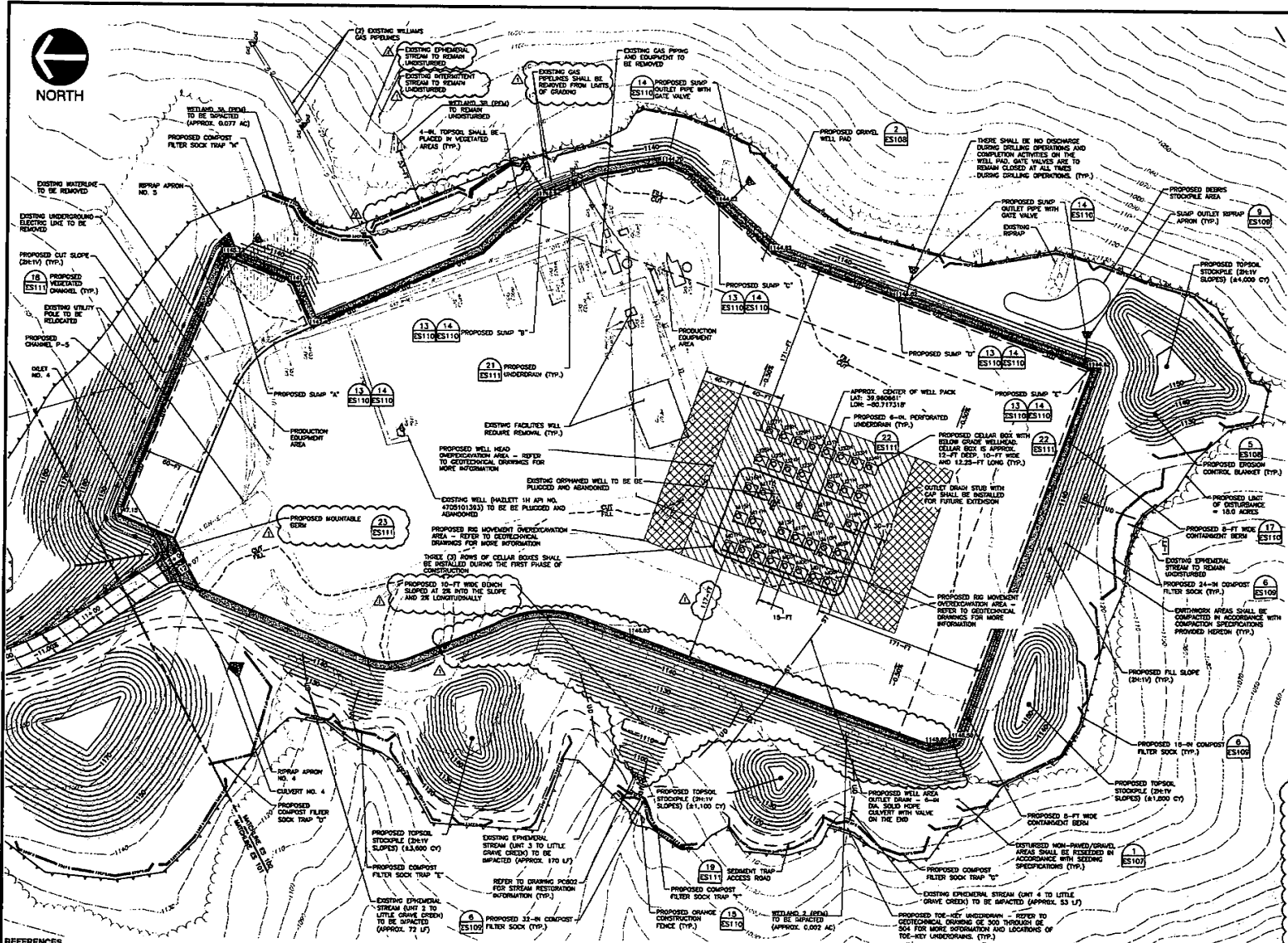
**REVISION RECORD**

NO.	DATE	DESCRIPTION
1	08/14/2014	ISSUED FOR PERMIT
2	08/14/2014	ISSUED FOR PERMIT
3	08/14/2014	ISSUED FOR PERMIT
4	08/14/2014	ISSUED FOR PERMIT
5	08/14/2014	ISSUED FOR PERMIT
6	08/14/2014	ISSUED FOR PERMIT
7	08/14/2014	ISSUED FOR PERMIT
8	08/14/2014	ISSUED FOR PERMIT
9	08/14/2014	ISSUED FOR PERMIT
10	08/14/2014	ISSUED FOR PERMIT

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

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

Project Number: 184755  
 Drawing Scale: 1"=40'  
 Date Issued: 01/20/18  
 Index Number: 01/20/18  
 Drawn By: JMM  
 Checked By: JMM  
 Project Manager: DRAFT  
**ES 101**



**LEGEND**

---	EXISTING MOON RIGHT-OF-WAY
---	EXISTING PROPERTY LINE
---	EXISTING BULKY 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 TRESTLE
---	EXISTING REPAIR
---	EXISTING STRUCTURE
---	EXISTING UTILITY POLE
---	EXISTING WATER METER
---	EXISTING WATER MIDDLE
---	EXISTING GAS WELL
---	PROPOSED ROOF OF ACCESS ROAD
---	PROPOSED LIMIT OF DISTURBANCE
---	PROPOSED CONTAINMENT BERM
---	PROPOSED ASPHALT PAVEMENT
---	PROPOSED INDEX CONTOUR
---	PROPOSED INTERMEDIATE CONTOUR
---	PROPOSED WELL PAD CUT/FILL LINE
---	PROPOSED SPOT ELEVATION
---	PROPOSED COMPOST FILTER SOCK TRAP
---	PROPOSED 18-IN COMPOST FILTER SOCK
---	PROPOSED 24-IN COMPOST FILTER SOCK
---	PROPOSED 36-IN COMPOST FILTER SOCK
---	PROPOSED ORANGE CONSTRUCTION FENCE
---	PROPOSED ROCK CONSTRUCTION ENTRANCE
---	PROPOSED INLET PROTECTION
---	PROPOSED GRASS CONTROL BLANKET
---	EXISTING CHANNEL (TO BE UTILIZED)
---	PROPOSED CHANNEL
---	PROPOSED STORMWATER CULVERT
---	PROPOSED INLET
---	PROPOSED SUMP APRON
---	PROPOSED UNDERDRAN
---	METAL MANHOLE
---	UNPAVED DESIGNATION

**STREAM AND WETLAND NOTES**

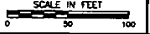
1. WETLAND BOUNDARIES ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE. WETLANDS 1A, 3A, 3B, AND 4. WETLANDS 1A AND 3A EXCEED THE LIMIT OF DISTURBANCE AND ARE PARTIALLY PERMANENTLY SOAKED.
2. THE FOLLOWING FOUR (4) WETLANDS AND (3) OPENWATER STREAMS ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE MATHEMATICAL TEST FOR PERMANENT SOAKED. WETLAND 1A, 1B, 3, 3A AND STREAMS LIMIT 2, LIMIT 3, AND LIMIT 4. LITTLE CREEK.
3. THE STREAMS SHOWN HEREON OUTSIDE THE LIMIT OF DISTURBANCE ARE EPHEMERAL OR INTERMITTENT; AS SUCH, A PERMIT IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
4. OPENWATER STREAMS ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

**COMPACTION SPECIFICATIONS**

1. PLACE SIZE FILL MATERIALS USING COMPACTION EQUIPMENT NOT DEEPER THAN 10-IN BENCH. THE COMPACTION BENCH MAY EXCEEDING 12 INCHES THICK. USE A REDUCED LOSS OF MATERIALS. USE A REDUCED LOSS OF MATERIALS. STEEL-PLATE IMPACTOR OR OTHER HAND-OPERATED COMPACTORS ARE ONLY USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 8 INCHES IN STRUCTURAL FILL AREAS WHERE 10-FT OR DEEPER. PROPOSED CHANNELS ARE UTILIZED. A REDUCED MAXIMUM PARTICLE SIZE OF 3 INCHES SHOULD BE USED IN AREAS WHERE 10-FT OR DEEPER. COMPACTED AREAS EXCEEDING THE MAXIMUM PARTICLE SIZE INDICATED ABOVE OUTSIDE OF THE PROPOSED FILL AREAS OR IN DEEPEST AREAS OF FILL. OVERSIZED ROCK PARTICLES (i.e., MATERIALS EXCEEDING 8 INCHES) PLACED IN THE DEEPEST LIMITS OF FILL SHOULD BE PLACED IN LOTS NOT EXCEEDING 24 INCHES. LIFTS SHOULD BE COMPACTION IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
2. 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 PERCENT OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).

- REFERENCES**
1. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/23/2017.
  2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 03/17/2017 TO 03/23/2017.
  3. TOPOGRAPHY WITHIN THE PROJECT AREA AND MARKED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 04/26/2017 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.

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



**REVISION RECORD**

No.	Date	Description
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**HAZLETT WELL PAD**  
 MARSHALL COUNTY, WEST VIRGINIA  
 PREPARED FOR:  
**CHEVRON APPALACHIA, LLC**  
 700 CHERRINGTON PARKWAY  
 CORAOPOLIS, PA 15108

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

Project Number: 154795  
 Drawing Scale: 1"=50'  
 Date Issued: 07/2018  
 Issue Number:  
 Drawn By: JZM  
 Checked By: JZM  
 Project Manager: BMS

**ES 102**



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**ATTACHMENT D**

**APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT**

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**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 City - Glen Dale          State- WV          Zip- 26038
15. LOCATION OF PROJECT Latitude: +N 39.970510          Longitude: -W -80.718898	
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 any Federal, State or Local Agency Approvals (if any) and if YES DESCRIBE THE APPROVED WORK

25. Addresses of Adjoining Property Owners, Leases, Etc. Adjoin Property Adjoining the Waterbody (If any) (If any) (If any) (If any) (If any) (If any)

a. Address- See attached table.

City - State Zip

b. Address-

City - State Zip

c. Address-

City - State Zip

d. Address-

City - State Zip

e. Address-

City - State Zip

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

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

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

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

*Jenny Hayes*  
SIGNATURE OF APPLICANT

1-15-18  
DATE

*Marion A. Owens*  
SIGNATURE OF AGENT

1/15/18  
DATE

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

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

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: 13H 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  \_\_\_\_\_

*ju*  
*6/24/18*

6) Existing Pad: Yes or No Yes

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

8) Proposed Total Vertical Depth: 6,170'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,475

11) Proposed Horizontal Leg Length: 7,445

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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Environmental Protection

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

4705 02108

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	30"	New			50'	50'	CTS
Fresh Water	20"	New	J-55	94	591'	591'	CTS
Coal	13-3/8"	New	J-55	54.5	724'	724'	CTS
Intermediate	9-5/8"	New	L-80	40	2,116'	2,116'	CTS
Production	5-1/2"	New	P-110	20	14,475'	14,475'	2,616' (500' below 9-5/8" shoe)
Tubing							
Liners							

*Handwritten signature and date: 6/26/18*

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

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

For the Water String the blend will contain class A cement, 3% CaCl<sub>2</sub>, and flake. The coal will contain class A cement, 3% CaCl<sub>2</sub>, Salt, and flake. The intermediate will contain class A cement, 3% CaCl<sub>2</sub>, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

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% CaCl<sub>2</sub>, and flake.

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

The Production cement will have a lead and tail cement.

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

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

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4705 02108

# Hazlett M13H

Permit#		Union District, Marshall Co, WV		Ground Level Elev. (ft above SL):		1144			
6/5/2018 14:31				**All depths below reference GL**					
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELL HEAD DESIGN FMC UH-S 13 5/8"	HOLE SIZE (IN)	HOLE DEPTH (FT)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)					
Core Barrel / Auger	2 Blowspring per Jt	30" Conductor	50	50	INC AZM	36	50	<b>Conductor</b> 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	<b>Bow Spring:</b> (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	20" Casing	591	591		26	621	<b>Surface Casing</b> 20" 94# J-55 BTC 0.438" Wall Coupling OD (in) 21.000 ID (in) 19.124 Drift ID (in) 18.937 Burst (psi) 2110 Collapse (psi) 520 Yield (Jt Strength 1,000 lbs) 1402 Capacity (bb/ft) 0.3553 Annulus (bb/ft) 0.2681	<b>Surface Blend (Class A)</b> Cement to surface 30% Excess
Air DRL with Mist and additives	<b>Bow Spring:</b> (1) on shoe track w/ stop collar & (1) per jt over coupling  (1) installed 100 ft from surface  <b>Basket Placement</b> Secured w/ (2) lock rings above and (1) below	Basket Placement Top of Coal Deepest Coal						<b>Coal String</b> 13-3/8" 54.5# J-55 BTC 0.390" 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	<b>Intermediate I Blend (Class A)</b> Cement grout to surface  Shoe Job Vol. (50% Excess) Grout Job Vol. (100% Excess)
Air DRL with Mist and additives	<b>Bow Spring:</b> (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	13-3/8" Casing	724	724		17.50	754	<b>Intermediate Casing</b> 9-5/8" 40# L-80C 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	<b>Intermediate II Blend (Class A)</b> Cement to surface 30% Excess
Air DRL with Mist and additives	<b>Bow Spring:</b> (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	9-5/8" Casing	2,116	2,116		12.25	2,176	<b>Production Casing</b> 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) 723	<b>Production Lead Slurry (Class A, G, H)</b> Cement top approximately 500' below 9-5/8" shoe
Planned MW: 11.5ppg SBM - 12.5ppg SBM	<b>Surface - TOC</b> (1) per every other jt  <b>TOC-Curve KOP</b> (1) per jt of csg  <b>Curve KOP-TMD</b> (1) per jt of csg  10' Marker Jt of Csg 100' above KOP	KOP				8.5 to 8.75		<b>Production Tail Slurry (Class A, G, H)</b>	
	<b>Float Equip.</b> (2) Jts of Csg <b>Float Equip.</b>	Est. BHT deg. F 5-1/2" Casing	14,475	144 6,170		8.500	14,490		

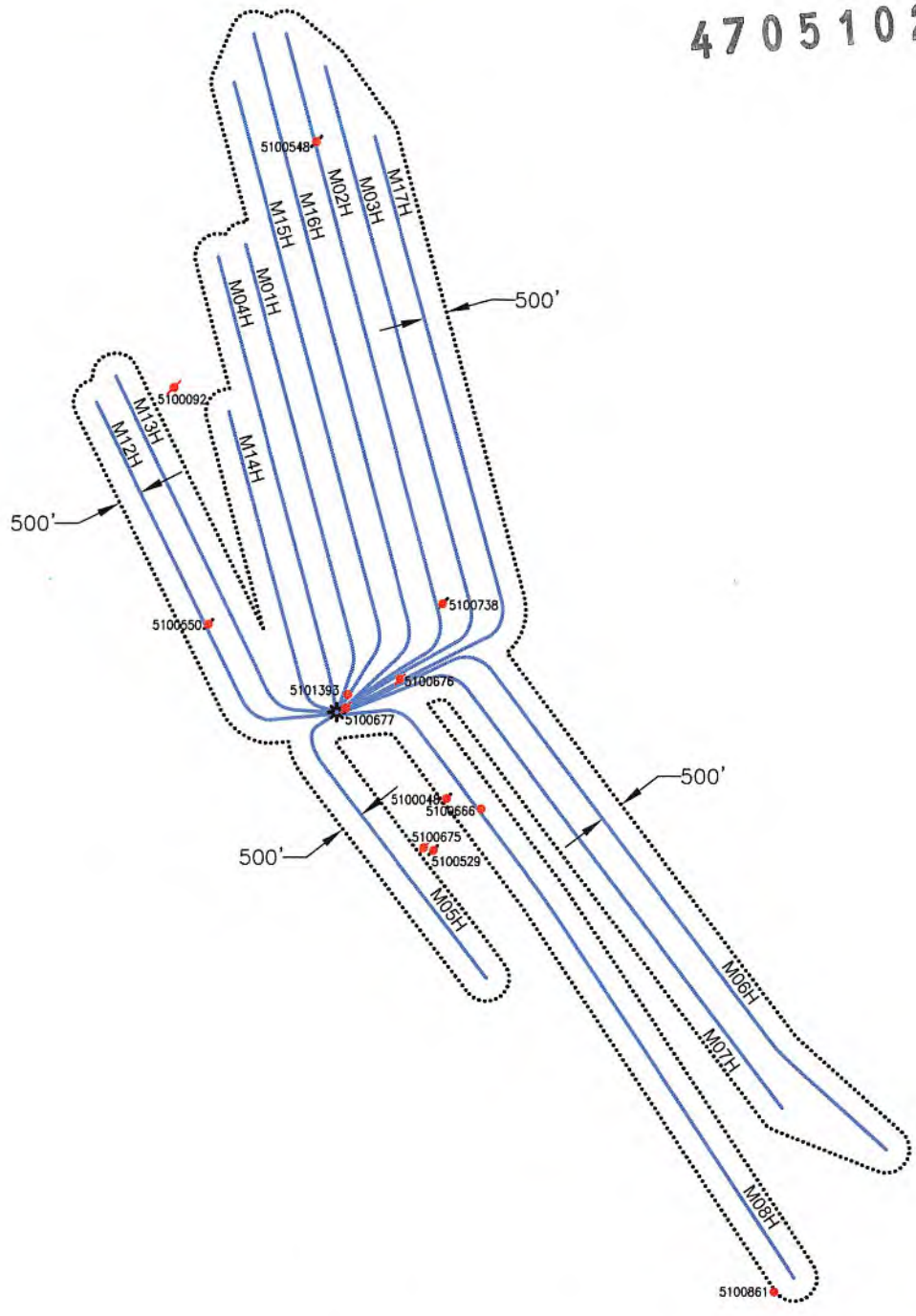
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**Blue Mountain Inc.**  
10125 MASON DIXON HIGHWAY  
BURTON, WV 26562  
PHONE: (304) 662-6486

**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	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-051-00548	PACE, PREBLE & BOWER INC.	PACE, PREBLE & BOWER INC.	PLUGGED	39.994422	-80.719818	UNKNOWN	BEREA SANDSTONE	UNKNOWN
47-051-00738	MID-CON PETROLEUM CO., INC	MID-CON PETROLEUM CO., INC	PLUGGED	39.967281	-80.709460	1100'	BEREA SANDSTONE	UNKNOWN
47-051-01393	CHIEF OIL & GAS LLC	CHEVRON APPALACHIA LLC	ACTIVE	39.961821	-80.716865	6250'	COW RUN SANDSTONE	UNKNOWN
47-051-00677	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.961040	-80.716806	3100'	MARCELLUS SHALE	UNKNOWN
47-051-00676	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.962782	-80.712662	3100'	GORDON SANDSTONE	UNKNOWN
47-051-00092	RUDDER OIL & GAS	CONLEY & ASSOC	ABANDONED	39.979762	-80.730517	UNKNOWN	GORDON SANDSTONE	UNKNOWN
47-051-00550	PACE, PREBLE & BOWER INC.	PACE, PREBLE & BOWER INC.	PLUGGED	39.965829	-80.727542	2512'	UNKNOWN	UNKNOWN
47-051-00048	WASMUTH - CALLAHAN GAS CO.	WASMUTH - CALLAHAN GAS CO.	PLUGGED	39.955803	-80.708895	1626'	BIG INJUN	UNKNOWN
47-051-00666	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.955223	-80.708218	2700'	BIG INJUN	UNKNOWN
47-051-00675	COLEMAN, C R	UNIVERSAL MINERAL, INC.	ABANDONED	39.952901	-80.710590	2700'	GORDON SANDSTONE	UNKNOWN
47-051-00529	PACE-BOWER CONSTRUCTION	PACE-BOWER CONSTRUCTION	PLUGGED	39.952756	-80.709837	1624'	GORDON SANDSTONE	UNKNOWN
47-051-00861	CNX GAS COMPANY, LLC	CNX GAS COMPANY, LLC	ACTIVE	39.927045	-80.682911	378'	BIG INJUN	UNKNOWN
							PITTSBURGH	UNKNOWN

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

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) 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 Jenny Hayes

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  
Allegheny County

Laura Savage Notary Public

My commission expires September 17, 2018

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

Proposed Revegetation Treatment: Acres Disturbed 15.4 Prevegetation pH 4.705 Per soils testing report 02108

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

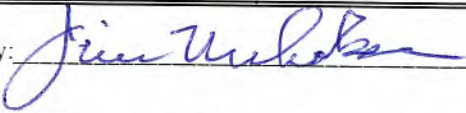
See Attached

**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:



Comments:

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Title: Oil & Gas Inspector

Date: 8/24/18

Field Reviewed?

Yes

No

4705-02108

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

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Environmental Protection



4705 - 02108

**Chevron**

**Appalachian LLC**  
**WV Well Site Safety Plan**  
**Pad: Hazlett Pad A**  
**Well # M13H**

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

*JN 7/9/18*

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

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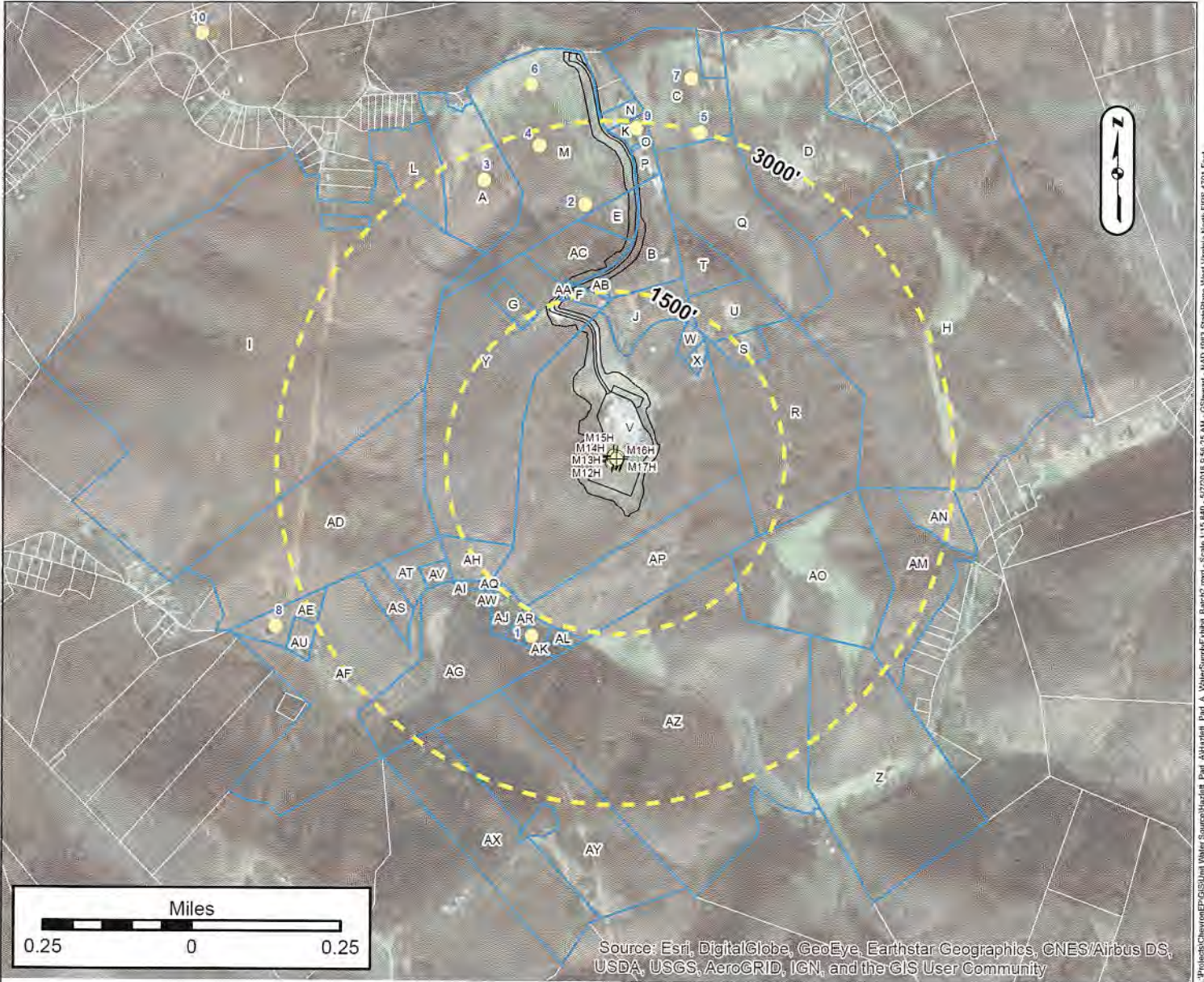
WV Department of  
Environmental Protection



# WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #2

4705

02



## 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 1200950000400000	O	OTTE HUBERT CHAS & JANE E	25-13 1200932000100000	AC	KIDNEY JARRODS S & TIMMI L	25-13 12005000060000
C	OTTE MICHAEL P & DENISE A	25-13 1200335000100000	P	OTTE MARK D	25-13 1200333000000000	AD	MAST LEVI E ET AL	25-13 1200510000000000
D	ANGEL ADAM S JR	25-13 1100610000000000	Q	OTTE MARK D & KELLY J	25-13 1200335000000000	AE	MCCLINTOCK LARRY L & ALICIA S	25-14 10016000040000
E	LEACH CHARLES L JR	25-13 1200950002070000	R	GLENDALE CITY OF	25-13 1200440000000000	AF	YODER ELI A ET AL	25-14 10016000000000
F	CALISSIE TIMOTHY J ET UX	25-13 1200950002010000	S	GLEN DALE TOWN OF	25-13 1200450000000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000
G	KIDNEY JARROD S & TIMMI L	25-13 1200500008000000	T	HAZLETT IRENE - LIFE	25-13 1200460000000000	AH	SPRINGER BARBARA K	25-13 12005000010000
H	KURELAC PATRICIA A	25-13 1200360000000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 1200460001000000	AI	VOELLINGER JOHN & LORI	25-13 12005000090000
I	REILLY JOHN WILLIAM III ET AL	25-13 1200140000000000	V	HAZLETT IRENE - LIFE	25-13 1200490000000000	AJ	LINZY LINDA A	25-13 12004800020000
J	HAZLETT FLORENCE IRENE - LIFE	25-13 12004900030000	W	HAZLETT MICHAEL C - LIFE	25-13 1200490001000000	AK	VICKERS MARY E EST	25-13 12004800030000
K	OTTE HUBERT CHAS & JANE E	25-13 1200320000000000	X	HAZLETT MICHAEL C - LIFE	25-13 1200490002000000	AL	VICKERS THOMAS D & JANET E	25-13 12004800010000
L	BURCH LESTER M ET UX	25-13 1200260000000000	Y	CALISSIE TIMOTHY J ET UX	25-13 1200500000000000	AM	ROBINSON GARY A	25-13 12004300010000
M	OTTE THOMAS L ET AL - LIFE	25-13 1200280000000000	AA	CALISSIE TIMOTHY J ET UX	25-13 1200500003000000	AN	RICHARDS CHRISTINE	25-13 12004200010000
N	OTTE MICHAEL P	25-13 1200310000000000	AD	OTTE HUBERT C ET AL	25-13 1200430000000000			
AP	HAZLETT IRENE - LIFE	25-13 1200470000000000						
AS	KOSKI TEDDY F & EMMA JANE	25-13 1200480003000000						
AR	RHODES LISA & NORMAN L	25-13 1200480004000000						
AT	YODER ELI A ET AL	25-14 10016000010000						
AU	NGUYEN LAMSON N ET UX	25-14 10016000300000						
AV	SPRINGER BARBARA K	25-14 10016000500000						
AW	LINZY LINDA A	25-14 10017000100000						
AX	MARSHALL COUNTY PARK & REC	25-14 20008000000000						
AY	MARSHALL COUNTY PARK & REC	25-14 3000100000000000						
AZ	OTTE HUBERT C ET AL	25-14 3000200000000000						
AZ	OTTE HUBERT C ET AL	25-14 3000200000000000						

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

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

Office of Oil and Gas

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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



4705-0210

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

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

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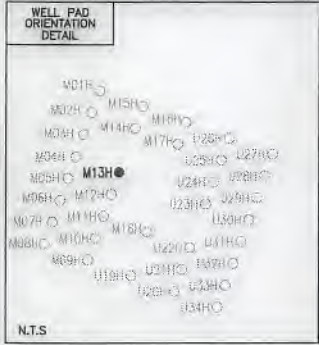
AUG 7 2018

WV Department of  
Environmental Protection

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

BHL is located on topo map 7,159 feet south of Latitude: 40°00'00"  
 SHL is located on topo map 14,313 feet south of Latitude: 40°00'00"

BHL is located on topo map 7,487 feet west of Longitude: 80°42'30"  
 SHL is located on topo map 2,545 feet west of Longitude: 80°42'30"



LINE	BEARING	DISTANCE
R1	N 40°55'23" W	198.16'
R2	N 54°09'52" W	173.23'
R3	N 73°08'42" W	183.33'
R4	S 50°05'13" W	1197.02'
R5	N 03°21'09" W	1263.69'
R6	S 83°57'34" E	1135.21'

**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:4423434.31  
 E:524135.57  
 NAD83, WV NORTH  
 N:534352.132  
 E:1627255.963

**APPROX. LANDING POINT**  
 UTM 17-NAD83(M)  
 N:4423590.50  
 E:523655.75  
 NAD83, WV NORTH  
 N:534891.000  
 E:1625690.000

**BOTTOM HOLE LOCATION (BHL)**  
 UTM 17-NAD83(M)  
 N:4425609.77  
 E:522622.45  
 NAD83, WV NORTH  
 N:541574.000  
 E:1622410.000

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

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

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: HAZLETT M13H  
 DRAWING #: HAZLETT M13H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

Signed: *George D. Six*  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



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



DATE: MAY 09, 2018  
 OPERATOR'S WELL #: HAZLETT M13H  
 API WELL #: 47 51 02108  
 STATE COUNTY PERMIT

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

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1148.00'

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

SURFACE OWNER: IRENE HAZLETT-LIFE ACREAGE: 77.24±

OIL & GAS ROYALTY OWNER: DONALD BOYD YOHO, KELLY ANN MEASE, ZANE EDWARD NELSEN, NANCY A. BAKER, LARRY JOHN MCCrackEN, PATRICIA ANN MCCrackEN, ROBERT JAY MCCrackEN, FLORENCE HAZLETT ET AL ACREAGE: 482.751±

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: 14,474.98'±

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

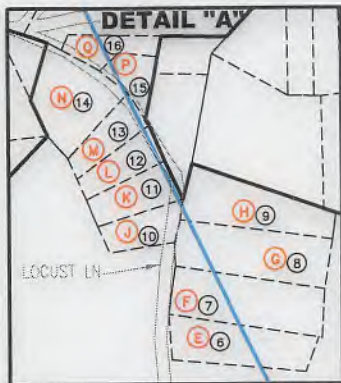
# HAZLETT

## M13H

### PAGE 2 OF 2

	SURFACE OWNER	DIST-TM/PAR
1	IRENE HAZLETT - LIFE	13-12/49
2	TIMOTHY J. CALISSIE ET UX	13-12/50
3	LEVI E. MAST ET AL	13-12/51
4	TIMMI L. KIDNEY	13-12/50.8
5	JOHN WILLIAM REILLY III ET AL	13-12/14
6	JOHN VINCENT YOCUM	13-12/14.6
7	BRIDGET COLLEEN KOTSON	13-12/14.5
8	JAMES M. ET UX FREGIATO	13-12/14.4
9	IVAN L. & CYNTHIA D. ANTILL	13-12/14.1
10	MARY JO PATRELLO	13-12/14.3
11	LINDA L. OSER	13-12/14.2
12	CATHERINE L. YOCUM - LIFE	13-12/13
13	JO ANN GRIFFIN	13-12/12
14	ASHLY M. CAMPBELL	13-12/9
15	EDWARD K. STEPHENS	13-12/11.1
16	STEVEN L. & LORRAINE DURRAH	13-12/10
17	RONALD L. DLESK ET UX	13-11/62.2
18	TIMOTHY F. REILLY SR.	13-11/79.1
19	TIMOTHY F. REILLY SR.	13-11/77.2
20	FREDERICK L. BRAUTIGAN ET UX	13-11/77
21	RONALD J. & RONALD LEMASTERS	13-11A/2
22	UNKNOWN	13-11A/7
23	WILLIAM R. LITTLE	13-11A/8
24	MARSHALL LAND LLC	8-6/2
25	MARSHALL LAND LLC	8-6/3
26	AMERICO INC	8-6/1

	LESSOR	DIST-TM/PAR
A	DONALD BOYD YOHO	13-12/49
	KELLY ANN MEASE	
	ZANE EDWARD NEILSEN	
	NANCY A. BAKER	
	LARRY JOHN MCCRACKEN	
	PATRICIA ANN MCCRACKEN	
	ROBERT JAY MCCRACKEN	
	FLORENCE HAZLETT ET AL	
B	TIMOTHY J. CALISSIE ET UX	13-12/50
C	LEVI E. MAST ET AL	13-12/51
	BOUNTY MINERALS LLC	
	ELI A. YODER	
	DAVID H. MILLER	
D	MARY ANN YOHO	13-12/14
	MICHAEL J. REILLY	
	THERESA J. REYNOLDS	
	TIMOTHY F. REILLY	
	PATRICIA K. DORAN	
	JOHN W. REILLY III	
E	JOHN VINCENT YOCUM ET UX	13-12/14.6
F	ROBERT F. KOTSON JR.	13-12/14.5
	BRIDGET COLEEN KOTSON	
G	JAMES M. FREGIATO ET UX	13-12/14.4
H	IVAN L. ANTILL ET UX	13-12/14.1
J	MARY JO PATRELLO	13-12/14.3
K	LINDA L. CRISWELL	13-12/14.2
L	CATHERINE LEE YOCUM ET AL	13-12/13
M	JO ANN GRIFFIN	13-12/12
N	JEAN R. DAGUE ET AL	13-12/9
P	EDWARD K. STEPHENS	13-12/11.1
Q	STEVEN L. DURRAH ET UX	13-12/10
R	RONALD L. DLESK ET UX	13-11/62.2
S	*TIMOTHY F. REILLY SR.	13-11/79.1
T	TIMOTHY F. REILLY SR.	13-11/77.2
U	BRAUTIGAN FAMILY TRST DTD 11/27/2017	13-11/77
V	RONALD J. LEMASTERS ET AL	13-11A/2
W	MARY R. BUTLER	13-11A/7
	VIRGINIA CUSTER	
	WILLIAM W. MATTHESS JR.	
	CLESTA JACKSON	
	ROBERT LOUIS MATTHESS	
	DAWN ONEILL	
X	WILLIAM R. LITTLE	13-11A/8
Y	RALEIGH LAND LLC	8-6/2
	GREENBRIER LAND CO LLC	
Z	RALEIGH LAND LLC	8-6/3
	GREENBRIER LAND CO LLC	
AA	AMERICO INC	8-6/1



SURFACE HOLE LOCATION (SHL)  
**UTM 17-NAD83(M)**  
 N:4423434.31  
 E:524135.57  
 NAD83, WV NORTH  
 N:534352.132  
 E:1627255.963

APPROX. LANDING POINT  
**UTM 17-NAD83(M)**  
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 NAD83, WV NORTH  
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 E:1625690.000

BOTTOM HOLE LOCATION (BHL)  
**UTM 17-NAD83(M)**  
 N:4425609.77  
 E:522622.45  
 NAD83, WV NORTH  
 N:541574.000  
 E:1622410.000

**MAY 09, 2018**

WW-6A1  
(5/13)

Operator's Well No. Hazlett M13H

**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

4705102108

Hazlett Unit #13H - MARC - BATCH 2 MLS - FINAL

QLS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
934442	6.25%	1	13-0012-0049-0000-0000	Yoho, Donald Boyd	Chevron U.S.A. Inc.	0.18	854/74	-	-	-	-
934443	6.25%	1	13-0012-0049-0000-0000	Meese, Kelly Ann	Chevron U.S.A. Inc.	0.18	859/86	-	-	-	-
934444	12.50%	1	13-0012-0049-0000-0000	Neilsen, Zane Edward	Chevron U.S.A. Inc.	0.18	848/632	-	-	-	-
934837	12.50%	1	13-0012-0049-0000-0000	Baker, Nancy A.	Chevron U.S.A. Inc.	0.18	911/615	-	-	-	-
934842	4.17%	1	13-0012-0049-0000-0000	McCracken, Larry John	Chevron U.S.A. Inc.	0.18	848/581	-	-	-	-
934843	4.17%	1	13-0012-0049-0000-0000	McCracken, Patricia Ann	Chevron U.S.A. Inc.	0.18	848/586	-	-	-	-
934846	4.17%	1	13-0012-0049-0000-0000	McCracken, Robert Jay	Chevron U.S.A. Inc.	0.18	848/591	-	-	-	-
951834	50.00%	1	13-0012-0049-0000-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	949/19	-	-	-	-
948207	100.00%	2	13-0012-0050-0000-0000	Callisse, Timothy J. et ux	Chevron U.S.A. Inc.	0.18	901/16	-	-	-	-
				Mast, Levi E. et al	Mountaineer Natural gas Company	0.15	674/515	21/642 Mountaineer Gas Company to Chesapeake Appalachia, LLC	27/50 Chesapeake Appalachia, LLC to Statoil USA 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.
953839	16.67%	3	13-0012-0051-0000-0000	Bounty Minerals LLC	Chevron U.S.A. Inc.	0.20	950/193	-	-	-	-
953839	50.00%	3	13-0012-0051-0000-0000	Yoder, Eli A.	Chevron U.S.A. Inc.	0.18	961/1	-	-	-	-
955106	16.67%	3	13-0012-0051-0000-0000	Miller, David H.	Chevron U.S.A. Inc.	0.18	961/9	-	-	-	-
955713	16.67%	3	13-0012-0051-0000-0000	Kidney, Timmi L.	Chevron U.S.A. Inc.	0.18	848/496	-	-	-	-
934990	100.00%	4	13-0012-0050-0008-0000	Yoho, Mary Ann	Chevron U.S.A. Inc.	0.18	847/278	-	-	-	-
933970	16.67%	5	13-0012-0014-0000-0000	Reilly, Michael J.	Chevron U.S.A. Inc.	0.18	847/305	-	-	-	-
933971	16.67%	5	13-0012-0014-0000-0000	Reynolds, Theresa J.	Chevron U.S.A. Inc.	0.18	847/257	-	-	-	-
933972	16.67%	5	13-0012-0014-0000-0000	Reilly, Timothy F.	Chevron U.S.A. Inc.	0.18	847/241	-	-	-	-
933973	16.67%	5	13-0012-0014-0000-0000	Doran, Patricia K.	Chevron U.S.A. Inc.	0.18	847/287	-	-	-	-
933974	16.67%	5	13-0012-0014-0000-0000	Reilly, John W. III	Chevron U.S.A. Inc.	0.18	847/296	-	-	-	-
				Yocum, John Vincent et ux	TH Exploration, LLC	0.18	841/160	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
946828	100.00%	6	13-0012-0014-0006-0000	Kotson, Robert F. Jr.	Chevron U.S.A. Inc.	0.18	863/615	-	-	-	-
937033	50.00%	7	13-0012-0014-0005-0000	Kotson, Bridget Coleen	TH Exploration, LLC	0.18	844/328	36/168 TH Exploration, L.L.C. to Chevron U.S.A. Inc.	-	-	-
946886	50.00%	7	13-0012-0014-0005-0000	Fregiato, James M. et ux	Chevron U.S.A. Inc.	0.18	863/515	-	-	-	-
936808	100.00%	8	13-0012-0014-0004-0000	Antill, Ivan L. et ux	Chevron U.S.A. Inc.	0.18	858/4	-	-	-	-
936818	100.00%	9	13-0012-0014-0001-0000	Patrello, Mary Jo	Chevron U.S.A. Inc.	0.18	863/577	-	-	-	-
936814	100.00%	10	13-0012-0014-0003-0000	Criswell, Linda L.	Chevron U.S.A. Inc.	0.18	863/522	-	-	-	-
936813	100.00%	11	13-0012-0014-0002-0000	Yocum, Catherine Lee et al	Chevron U.S.A. Inc.	0.18	844/325	-	-	-	-
946818	100.00%	12	13-0012-0013-0009-0000	Griffin, Jo Ann	Chevron U.S.A. Inc.	0.18	863/508	-	-	-	-
936456	100.00%	13	13-0012-0012-0000-0000	Dague, Jean R. et al	Chevron U.S.A. Inc.	0.18	859/54	-	-	-	-
935207	100.00%	14	13-0012-0009-0000-0000	Stephens, Edward K.	Chevron U.S.A. Inc.	0.18	839/359	-	-	-	-
934456	100.00%	15	13-0012-0011-0001-0000	Durrah, Steven L. et ux	Chevron U.S.A. Inc.	0.18	915/7	-	-	-	-
951146	100.00%	16	13-0012-0010-0000-0000	Dlesk, Ronald L. et ux	Chevron U.S.A. Inc.	0.18	852/387	-	-	-	-
935156	100.00%	17	13-0011-0052-0002-0000	Reilly, Timothy F. Sr.	Chevron U.S.A. Inc.	0.18	907/301	-	-	-	-
949380	100.00%	18	13-0011-0079-0001-0000	Reilly, Timothy F. Sr.	Chevron U.S.A. Inc.	0.18	907/301	-	-	-	-
949380	100.00%	19	13-0011-0077-0002-0000	Reilly, Timothy F. Sr.	Chevron U.S.A. Inc.	0.18	907/301	-	-	-	-
955060	100.00%	20	13-0011-0077-0000-0000	Brautigam Family Trst DTD 11/27/2017	Chevron U.S.A. Inc.	0.18	967/452	-	-	-	-
				Lemasters, Ronald J. et al	TriEnergy Holdings, LLC	0.16	738/163	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	-	-
868561	100.00%	21	13-011A-0002-0000-0000	Butler, Mary E.	Chevron U.S.A. Inc.	0.18	954/36	-	-	-	-
954150	33.33%	22	13-011A-0007-0000-0000	Custer, Virginia	Chevron U.S.A. Inc.	0.16	949/39	-	-	-	-
954356	5.66%	22	13-011A-0007-0000-0000	Matthess, William W. Jr.	Chevron U.S.A. Inc.	0.16	947/512	-	-	-	-
954357	11.11%	22	13-011A-0007-0000-0000	Jackson, Clesta	Chevron U.S.A. Inc.	0.16	948/128	-	-	-	-
954358	33.33%	22	13-011A-0007-0000-0000	Matthess, Robert Louis	Chevron U.S.A. Inc.	0.16	949/10	-	-	-	-
954369	11.11%	22	13-011A-0007-0000-0000					-	-	-	-

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Hazlett Unit #13H - MARC - BATCH 2 MLS - FINAL

QLS NO	% Owned	Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
954373	5.56%	22	13-011A-0007-0000-0000	Onell, Dawn	Chevron U.S.A. Inc.	0.15	948/143	-	-	-	-
Pending	100.00%		Route 250	The West Virginia Department of Transportation, Division of Highways	Chevron U.S.A. Inc.	0.2	968/489	-	-	-	-
953590	100.00%	23	13-011A-0008-0000-0000	Little, William R.	Chevron U.S.A. Inc.	0.18	948/645	-	-	-	-
954010	50.00%	24	08-0006-0002-0000-0000	Raleigh Land LLC	Chevron U.S.A. Inc.	0.18	952/3	-	-	-	-
954016	50.00%	24	08-0006-0002-0000-0000	Greenbrier Land Co LLC	Chevron U.S.A. Inc.	0.18	952/6	-	-	-	-
954010	50.00%	25	08-0006-0003-0000-0000	Raleigh Land LLC	Chevron U.S.A. Inc.	0.18	952/3	-	-	-	-
954016	50.00%	25	08-0006-0003-0000-0000	Greenbrier Land Co LLC	Chevron U.S.A. Inc.	0.18	952/6	-	-	-	-
957698	100.00%	26	08-0006-0001-0000-0000	Americo Inc	Chevron U.S.A. Inc.	0.18	961/557	-	-	-	-

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Mitchell G. Limbert  
Land Representative, AMBU

4705 · 02108

June 4, 2018

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

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

To Whom It May Concern,

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

Sincerely,

Mitchell G. Limbert  
Land Representative

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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. M13H  
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>524135.572</u>
County:	<u>Marshall</u>		Northing:	<u>4423434.325</u>
District:	<u>Union</u>	Public Road Access:		<u>CR 10 Markey Lane</u>
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:		<u>Hazlett</u>
Watershed:	<u>Short Creek - Ohio River</u>			

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>		<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
<p>RECEIVED Office of Oil and Gas AUG 7 2018 WV Department of Environmental Protection</p>		

**Required Attachments:**

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



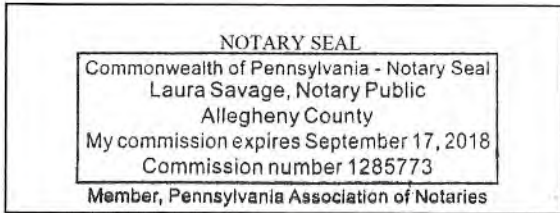
**Certification of Notice is hereby given:**

4705102108

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

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

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



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

**Oil and Gas Privacy Notice:**

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

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

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

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

Notice of:

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

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

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

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

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

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

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

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

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

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

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

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

\*Please attach additional forms if necessary

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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 water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

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**Well Location Restrictions**

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

WV Department of Environmental Protection

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

Disclaimer: All comments received will be placed on our web site <http://www.dcp.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. 47-4705102108  
OPERATOR WELL NO. M13H  
Well Pad Name: Hazlett

**Notice is hereby given by:**

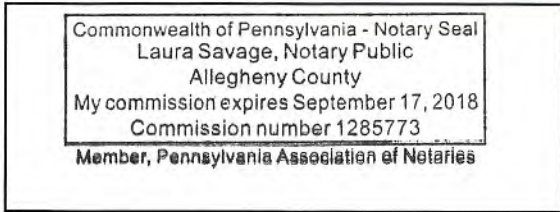
Well Operator: Chevron Appalachia, LLC  
Telephone: 412-865-1533  
Email: jzyk@chevron.com

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

**Oil and Gas Privacy Notice:**

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

*Jenny Hays*



*Commonwealth of Pennsylvania  
County of Allegheny*

Subscribed and sworn before me this 7<sup>th</sup> day of June, 2018

Laura Savage Notary Public

My Commission Expires September 17, 2018

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Environmental Protection

4705102108

Attachment to WW-6A

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

OPERATOR WELL NO. M13H

Well Pad Name: Hazlett

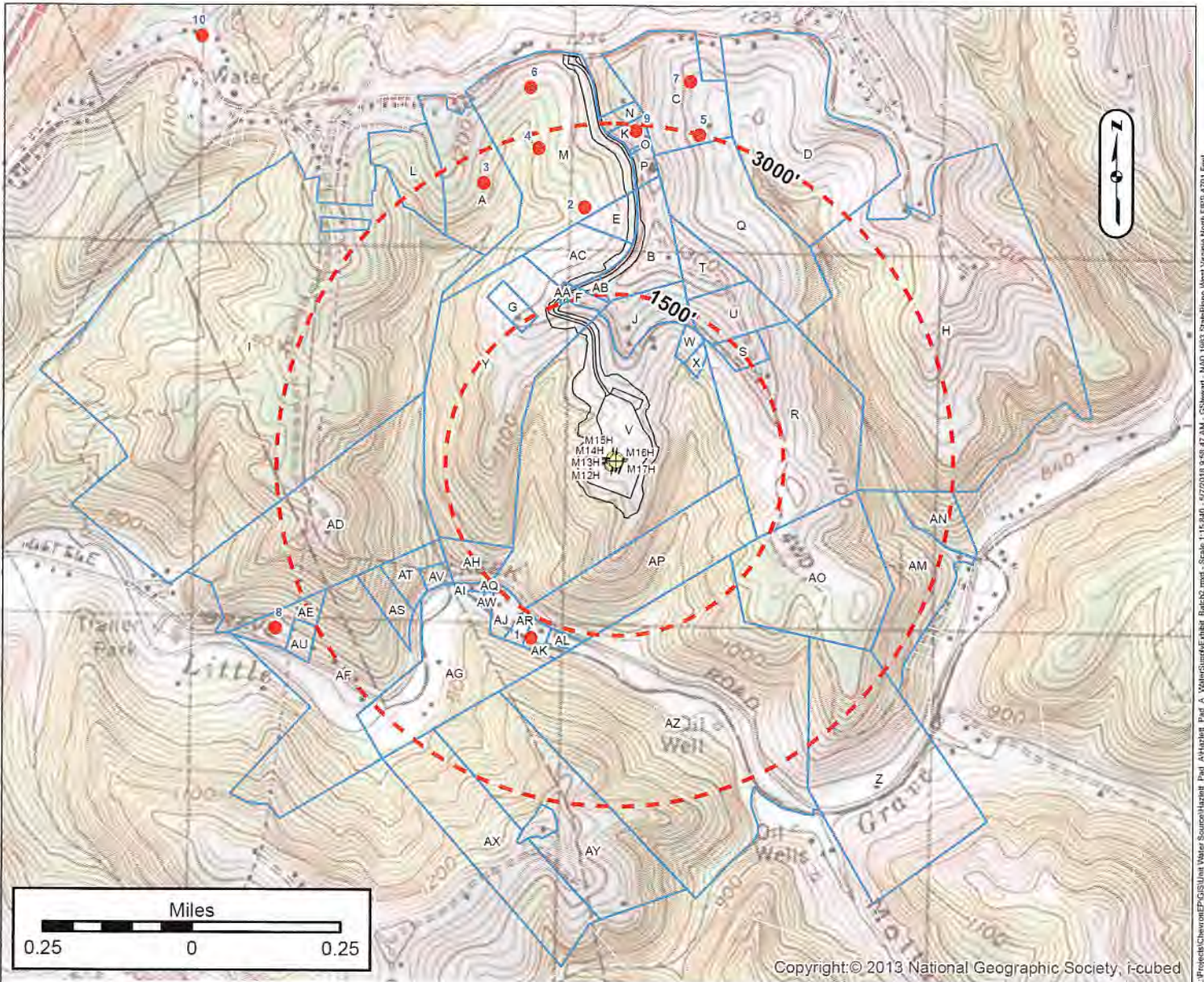
- SURFACE OWNER**  
Name: Loretta Kay Wallace (Remainder Interest)  
Address: 1485 Missy Court  
Hamilton, OH 45013
  
- COAL OWNER OR LESSEE**  
Name: Consol Mining Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317
  
- COAL OPERATOR**  
Name:  
Address:
  
- SURFACE OWNER OF WATER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

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# WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #2

4705102108



### 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 12003100003000	AB	CALISSIE TIMOTHY J	25-13 12005000050000
B	OTTE MARK DOUGLAS ET UX	25-13 12005000040000	O	OTTE HUBERT CHAS & JANE E	25-13 12003200010000	AC	KIDNEY JARROD S & TIMMI L	25-13 12005000060000
C	OTTE MICHAEL P & DENISE A	25-13 12003500010000	P	OTTE MARK D	25-13 12003300000000	AD	IMAST 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 OF	25-13 12004500000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000
G	KIDNEY JARROD S & TIMMI L	25-13 12005000080000	T	HAZLETT IRENE - LIFE	25-13 12004600000000	AH	SPRINGER BARBARA K	25-13 12005000010000
H	KURELAC PATRICIA A	25-13 12003600000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 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 12004800030000
K	OTTE HUBERT CHAS & JANE E	25-13 12003200000000	X	HAZLETT MICHAEL C - LIFE	25-13 12004900020000	AL	VICKERS THOMAS D & JANET E	25-13 12004800010000
L	BURCH LESTER M ET UX	25-13 12002600000000	Y	CALISSIE TIMOTHY J ET UX	25-13 12005000000000	AM	ROBINSON GARY A	25-13 12004300010000
M	OTTE THOMAS L ET AL - LIFE	25-13 12002800000000	AA	CALISSIE TIMOTHY J ET UX	25-13 12005000030000	AN	RICHARDS CHRISTINE	25-13 12004200010000
						AO	OTTE HUBERT C ET AL	25-13 12004300000000
						AP	HAZLETT IRENE - LIFE	25-13 12004700000000
						AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000
						AR	RHODES LISA & NORMAN L	25-13 12004800040000
						AS	YODER ELI A ET AL	25-14 10016000010000
						AT	YODER ELI A ET AL	25-14 10016000020000
						AU	NGUYEN LAMSON N ET UX	25-14 10016000030000
						AV	SPRINGER BARBARA K	25-14 10016000050000
						AW	LINZY LINDA A	25-14 10017000010000
						AX	MARSHALL COUNTY PARK & REC	25-14 20008000000000
						AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
						AZ	OTTE HUBERT C ET AL	25-14 30001000000000
						Z	OTTE HUBERT C ET AL	25-14 30001000000000

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

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

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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.



**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>524135.572</u>
County: <u>Marshall</u>	Northing: <u>4423434.325</u>
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Lane</u>
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hazlett</u>
Watershed: <u>Short Creek - Ohio River</u>	

**This Notice Shall Include:**

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

**Notice is hereby given by:**

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

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

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**Oil and Gas Privacy Notice:**

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

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

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**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: 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>524135.572</u>
County: <u>Marshall</u>	Northing: <u>4423434.325</u>
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Lane</u>
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hazlett</u>
Watershed: <u>Short Creek - Ohio River</u>	

**This Notice Shall Include:**

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

**Notice is hereby given by:**

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

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

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

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

**Date of Notice:** 08/07/2018      **Date Permit Application Filed:** 8/16/18

**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>524135.572</u>
County:	<u>Marshall</u>		Northing:	<u>4423434.325</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

**This Notice Shall Include:**

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

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

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

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**Oil and Gas Privacy Notice:**

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

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**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF 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)                                      Name: \_\_\_\_\_  
Address: 1485 Missy Court                                      Address: \_\_\_\_\_  
Hamilton, OH 45013                                      \_\_\_\_\_

**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>524135.572</u>
County:	<u>Marshall</u>		Northing:	<u>4423434.325</u>
District:	<u>Union</u>	Public Road Access:		<u>CR 10 Markey Road</u>
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:		<u>Hazlett</u>
Watershed:	<u>Short Creek - Ohio River</u>			

**This Notice Shall Include:**

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

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

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

RECEIVED  
Office of Oil and Gas

AUG 7 2018

WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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

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County:	<u>Marshall</u>		Northing:	<u>4423434.325</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek/Ohio River</u>			

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

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: <u><i>Irene Hazlett</i></u></p> <p>Print Name: <u>Irene Hazlett</u></p> <p>Date: <u>7-11-18</u></p> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p style="text-align: right;">RECEIVED Office of Oil and Gas</p> <p style="text-align: right; font-size: 1.2em;">AUG 7 2018</p> <p>Signature: _____</p> <p>Date: _____</p> <p style="text-align: right; font-size: 0.8em;">WV Department of Environmental Protection</p>
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**Oil and Gas Privacy Notice:**

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

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**VOLUNTARY STATEMENT OF NO OBJECTION**

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

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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.

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	<p style="text-align: right;">RECEIVED Office of Oil and Gas</p> <p style="text-align: center;">AUG 7 2018</p> <p style="text-align: right;">WV Department of Environmental Protection</p>

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**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524134.092</u>
County:	<u>Marshall</u>		Northing:	<u>4423430.001</u>
District:	<u>Union</u>	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 style="text-align: center;"><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p style="text-align: center;"><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: <u>CONSOL Energy</u></p> <p>By: <u>Casey V. Saunders</u></p> <p>Its: <u>Manager Coal/Gas Coordination</u> <span style="float: right;">RECEIVED</span></p> <p style="text-align: right;"><u>Office of Oil and Gas</u></p> <p>Signature: <u><i>Casey V. Saunders</i></u> <span style="float: right;">AUG 7 2018</span></p> <p>Date: <u>02/23/2018</u></p> <p style="text-align: right;">WV Department of Environmental Protection</p>
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4705 • 02108

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

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

June 13, 2018

Jill M. Newman  
Deputy Commissioner

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

Subject: DOH Permit for the Hazlett Pad A Well Site, Marshall County  
Hazlett A Unit 13H

Dear Mr. Martin,

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

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

Very Truly Yours,

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

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

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AUG 7 2018  
WV Department of  
Environmental Protection



**Hydraulic Fracturing Fluid Additives**

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

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Office of Oil and Gas  
AUG 7 2018  
WV Department of  
Environmental Protection

# HAZLETT WELL PAD

## EROSION AND SEDIMENT CONTROL PLAN

MARKEY LANE (C.R.-10)

UNION DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

PREPARED FOR:

### CHEVRON APPALACHIA, LLC

700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108

APPROVED  
WVDEP OOG  
11/29/2018

#### CONSULTANTS

CVL & ENVIRONMENTAL CONSULTANTS, INC.  
4050 TRIANGLE LAKE, SUITE 200  
EXPLOIT, PA 15832  
PHONE: 724-327-5221

CIVIL/SITE ENGINEER CONTACT: JOSEPH A. MADARIC  
EMAIL ADDRESS: jmadaric@cecsinc.com

GEOTECHNICAL ENGINEER CONTACT: ARON W. LAVARE  
EMAIL ADDRESS: olavare@cecsinc.com

#### SITE COORDINATES AND WATERSHED

START OF ACCESS ROAD  
LATITUDE: 39.954758° N, LONGITUDE: 80.116973° W

APPROXIMATE CENTER OF WELL PAD  
LATITUDE: 39.952213° N, LONGITUDE: 80.717597° W

END OF ACCESS ROAD  
LATITUDE: 39.952213° N, LONGITUDE: 80.717597° W

APPROXIMATE CENTER OF WELL PAD  
LATITUDE: 39.952213° N, LONGITUDE: 80.717597° W

\*BASED ON H&M 61 WEST VIRGINIA-NORTH ZONE

WATERSHED NAME, UPPER OHIO SOUTH  
RECEIVING STREAM, UNPAVED TRIBUTARIES TO LITTLE GRAVE  
CREEK

#### STREAM AND WETLAND PERMANENT IMPACTS (SUBJECT TO USACE NATIONWIDE PERMIT 39)

UNIT 2 TO LITTLE GRAVE CREEK (EPA) - 73 LF  
UNIT 3 TO LITTLE GRAVE CREEK (EPA) - 170 LF  
UNIT 4 TO LITTLE GRAVE CREEK (EPA) - 59 LF

WETLAND 1A (PEM) - 0.008 AC  
WETLAND 1B (PEM) - 0.226 AC  
WETLAND 2 (PEM) - 0.032 AC  
WETLAND 3A (PEM) - 0.078 AC

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

WETLAND 1A (PEM) - 0 FT FROM LOD  
WETLAND 3A (PEM) - 0 LF FROM LOD  
WETLAND 3B (PEM) - 52 LF FROM LOD  
WETLAND 4 (PEM) - 1 LF FROM LOD

#### REFERENCES

1. STREAM AND WETLAND DELINEATED BY CVL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/21/2017.
2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE SUPPLEMENTAL UTIL. DATED 05/11/2017 TO 02/23/2017.
3. TOPOGRAPHY WITHIN THE PROPOSED WELL PAD MARKED (UPON EXPOSURE) SURVEYED BY CVL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017 TO 02/23/2017 AND 03/23/2017 TO 05/29/2017. TOPOGRAPHY OUTSIDE OF THE PROJECT AREA IS SUPPLEMENTED WITH BENCH MARK DATA DATED 2003.
4. UNDERGROUND BENCH MARK FROM GOOGLE EARTH FILED DATED 2016.
5. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

WorkSheet No.	Northing	Easting	Latitude (North)	Longitude (West)
0401R	51644.7017	152724.0453	39.94881	80.71993
0402R	51645.5893	152713.2509	39.94813	80.72147
0403R	51646.4869	152723.8565	39.94973	80.71949
0404R	51647.3845	152722.7461	39.94974	80.72102
0405R	51648.2821	152722.4467	39.94989	80.72050
0406R	51649.1857	152721.5755	39.94954	80.72054
0407R	51650.0872	152731.1478	39.94947	80.71854
0408R	51650.9848	152727.5845	39.94978	80.71852
0409R	51651.8823	152735.6613	39.94973	80.71781
0410R	51652.7800	152734.9657	39.94990	80.71942
0411R	51653.6776	152745.2961	39.94929	80.71846
0412R	51654.5752	152752.8265	39.94968	80.71748
0413R	51655.4728	152753.1918	39.94922	80.71851
0414R	51656.3704	152754.1897	39.94975	80.71759
0415R	51657.2680	152721.7452	39.94969	80.71939
0416R	51658.1656	152728.4749	39.94971	80.71937
0417R	51659.0632	152728.3465	39.94976	80.71925
0418R	51659.9608	152714.0258	39.94962	80.71846
0419R	51660.8584	152751.8132	39.94934	80.71750
0420R	51661.7560	152751.3058	39.94989	80.71751
0421R	51662.6536	152752.0344	39.94956	80.71851
0422R	51663.5512	152752.2217	39.94975	80.71749
0423R	51664.4488	152752.0137	39.94953	80.71750
0424R	51665.3464	152752.5063	39.94989	80.71751
0425R	51666.2440	152752.6013	39.94971	80.71872
0426R	51667.1416	152752.0132	39.94975	80.71935
0427R	51668.0392	152751.9124	39.94974	80.71935
0428R	51668.9368	152752.0137	39.94950	80.71932
0429R	51669.8344	152752.1151	39.94966	80.71960
0430R	51670.7320	152754.0143	39.94982	80.71907
0431R	51671.6296	152754.5148	39.94962	80.71762
0432R	51672.5272	152754.4425	39.94946	80.71942
0433R	51673.4248	152753.3441	39.94980	80.71762
0434R	51674.3224	152753.2517	39.94961	80.71922



**REFERENCE**  
U.S.G.S. 7.5' TOPOGRAPHIC MAP, WOODS HOLLOW  
QUADRANGLE, WV-24 LAT.-108E. PROJECTION:  
1927 AND 1976.

#### LEGEND

- |                                    |                               |                                  |  |                             |
|------------------------------------|-------------------------------|----------------------------------|--|-----------------------------|
| EXISTING PROPERTY LINE             | PROPOSED 100' ACCESS ROAD     | EXISTING WETLAND CENTER          | PROPOSED WOODS HOLLOW 300' FILTER SOCK | DITCH CHANGE (TO BE 17/120) |
| EXISTING WOOD CONTOUR              | PROPOSED LIMIT OF DISTURBANCE | PROPOSED INTERMEDIATE CONTOUR    | PROPOSED 24-IN COMPOST FILTER SOCK     | PROPOSED DRAINAGE           |
| EXISTING INTERMEDIATE CONTOUR      | PROPOSED WELL HEAD AND COLLAR | PROPOSED INT. PAD 24"/1.1" LINE  | PROPOSED 32-IN COMPOST FILTER SOCK     | EXISTING STORMWATER CULVERT |
| EXISTING WOOD REMOVAL              | PROPOSED CONFINEMENT BERM     | PROPOSED SLOPE PROTECTION        | PROPOSED SERVICE CONSTRUCTION FENCE    | EXISTING INLET              |
| EXISTING WATERSHED                 | PROPOSED BRUSH PILE           | PROPOSED EROSION CONTROL BLANKET | PROPOSED SOIL CONSTRUCTION ENTRANCE    | PROPOSED BRUSH WITHIN       |
| EXISTING GAS LINE                  | PROPOSED BRUSH PERMANENT      |                                  | PROPOSED SLOPE PROTECTION              | PROPOSED UNDERDRY           |
| EXISTING TELECOMMUNICATIONS LINE   |                               |                                  | PROPOSED BRUSH PROTECTION              |                             |
| EXISTING POWER/ELECTRIC LINE       |                               |                                  | PROPOSED EROSION CONTROL BLANKET       |                             |
| EXISTING UNDERGROUND ELECTRIC LINE |                               |                                  |  |                             |
| EXISTING STORMWATER CULVERT        |                               |                                  |  |                             |
| EXISTING FENCE                     |                               |                                  |  |                             |
| EXISTING CREEK                     |                               |                                  |  |                             |
| EXISTING WETLAND                   |                               |                                  |  |                             |
| EXISTING FILL/BLANKET              |                               |                                  |  |                             |
| EXISTING WETLAND                   |                               |                                  |  |                             |
| EXISTING UTILITY-SCALE             |                               |                                  |  |                             |
| EXISTING WATER METER               |                               |                                  |  |                             |
| EXISTING WATER METER               |                               |                                  |  |                             |
| EXISTING GAS WELL                  |                               |                                  |  |                             |

SITE LIMITS OF DISTURBANCE (ACT)	WELL PAD	ACCESS ROAD	STOCKPILES	TOTAL AREA	WOODED AREA DISTURBED
WELL PAD	32.7	3.6	1.7	38.0	1.7
ACCESS ROAD	3.6	1.7	1.7	7.0	1.7
STOCKPILES	1.7	1.7	1.7	5.1	1.7
TOTAL AREA	38.0	7.0	5.1	50.1	5.1
WOODED AREA DISTURBED	1.7	1.7	1.7	5.1	5.1

LIMIT OF DISTURBANCE IMPACTS (NOW/FORMER LANDOWNERS) (ACT)	WELL PAD	ACCESS ROAD	STOCKPILES	TOTAL AREA	WOODED AREA DISTURBED
WELL PAD	32.7	3.6	1.7	38.0	1.7
ACCESS ROAD	3.6	1.7	1.7	7.0	1.7
STOCKPILES	1.7	1.7	1.7	5.1	1.7
TOTAL AREA	38.0	7.0	5.1	50.1	5.1
WOODED AREA DISTURBED	1.7	1.7	1.7	5.1	5.1

IMPACTS TO TIMOTHY J. CALABRE (AC) (MULTIPLE PARCELS)	WELL PAD	ACCESS ROAD	STOCKPILES	TOTAL AREA	WOODED AREA DISTURBED
WELL PAD	0.2	0.2	0.0	0.4	0.0
ACCESS ROAD	0.2	0.2	0.0	0.4	0.0
STOCKPILES	0.0	0.0	0.0	0.0	0.0
TOTAL AREA	0.4	0.4	0.0	0.8	0.0
WOODED AREA DISTURBED	0.0	0.0	0.0	0.0	0.0

IMPACTS TO JARROLD L. TIMM & KATHERINE (AC)	WELL PAD	ACCESS ROAD	STOCKPILES	TOTAL AREA	WOODED AREA DISTURBED
WELL PAD	0.1	0.1	0.0	0.2	0.0
ACCESS ROAD	0.1	0.1	0.0	0.2	0.0
STOCKPILES	0.0	0.0	0.0	0.0	0.0
TOTAL AREA	0.2	0.2	0.0	0.4	0.0
WOODED AREA DISTURBED	0.0	0.0	0.0	0.0	0.0

DWG NO.	SHEET TITLE	INCLUDED	LAST REVISION
CS 000	COVER SHEET	X	11/01/2018
ES 000	EXISTING TOPOGRAPHIC PLAN	X	11/01/2018
ES 100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	X	12/02/2018
ES 200	EROSION AND SEDIMENT CONTROL PLAN (1 OF 3)	X	12/02/2018
ES 300	EROSION AND SEDIMENT CONTROL PLAN (2 OF 3)	X	12/02/2018
ES 400	STOCKPILE CROSS-SECTIONS	X	12/02/2018
ES 500	WELL PAD PLAN VIEW	X	12/02/2018
ES 600	WELL PAD CROSS-SECTIONS	X	12/02/2018
ES 700	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 6)	X	12/02/2018
ES 800	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 6)	X	12/02/2018
ES 900	EROSION AND SEDIMENT CONTROL DETAILS (3 OF 6)	X	12/02/2018
ES 1000	EROSION AND SEDIMENT CONTROL DETAILS (4 OF 6)	X	12/02/2018
ES 1100	EROSION AND SEDIMENT CONTROL DETAILS (5 OF 6)	X	12/02/2018
ES 1200	ACCESS ROAD PLAN AND PROFILE	X	11/01/2018
ES 1300	ACCESS ROAD CROSS-SECTIONS (1 OF 2)	X	11/01/2018
ES 1400	ACCESS ROAD CROSS-SECTIONS (2 OF 2)	X	11/01/2018
ES 500	GEOTECHNICAL SUBSURFACE SUMMARY	X	12/02/2018
GE 500	GEOTECHNICAL SITE PLAN WITH 200' BUFFER	X	11/01/2018
GE 600	GEOTECHNICAL SITE PLAN WITH 300' BUFFER	X	11/01/2018
GE 700	GEOTECHNICAL SITE PLAN WITH 200' BUFFER - CROSS-SECTIONS	X	11/01/2018
GE 800	GEOTECHNICAL TABLES AND NOTES	X	11/01/2018
GE 900	GEOTECHNICAL DETAILS	X	11/01/2018
PE 500	SITE PLAN WITH BARRIERS	X	11/01/2018
PE 600	POST-CONSTRUCTION RECLAMATION PLAN	X	11/01/2018
PE 700	POST-CONSTRUCTION RECLAMATION DETAILS	X	11/01/2018

**MISS UTILITY OF WEST VIRGINIA**  
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West Virginia State Law  
(Section 60) requires that you call two advance days before you dig in West Virginia.  
**IT'S THE LAW**

**CEC**  
Civil & Environmental Consultants, Inc.  
4050 Triangle Lake, Suite 200, Exploit, PA 15832  
724-327-5221 800-895-6410  
www.cecsinc.com



REVISION RECORD

NO.	DATE	DESCRIPTION	BY	CHKD.	APP'D.
1					
2					
3					
4					
5					

DATE: 11/01/2018

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

COVER SHEET

Project Number: 18-070  
Drawing Scale: AS SHOWN  
Date Issued: 11/01/2018  
Inquiry Number:  
Drawn By: EGD  
Checked By: JAM  
Project Manager: WCB

CS 000