

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

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

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HAZLETT M05H 47-051-02096-00-00

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: Farm Name: U.S. WELL NUMBER: Horizontal 6A New Drill Date Issued: 11/30/2018

Promoting a healthy environment.

PERMIT CONDITIONS 4705102096

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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water
- 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 4705102096

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



west virginia department of environmental protection

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

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

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

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

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

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

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

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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."

<u>ORDER</u>

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:

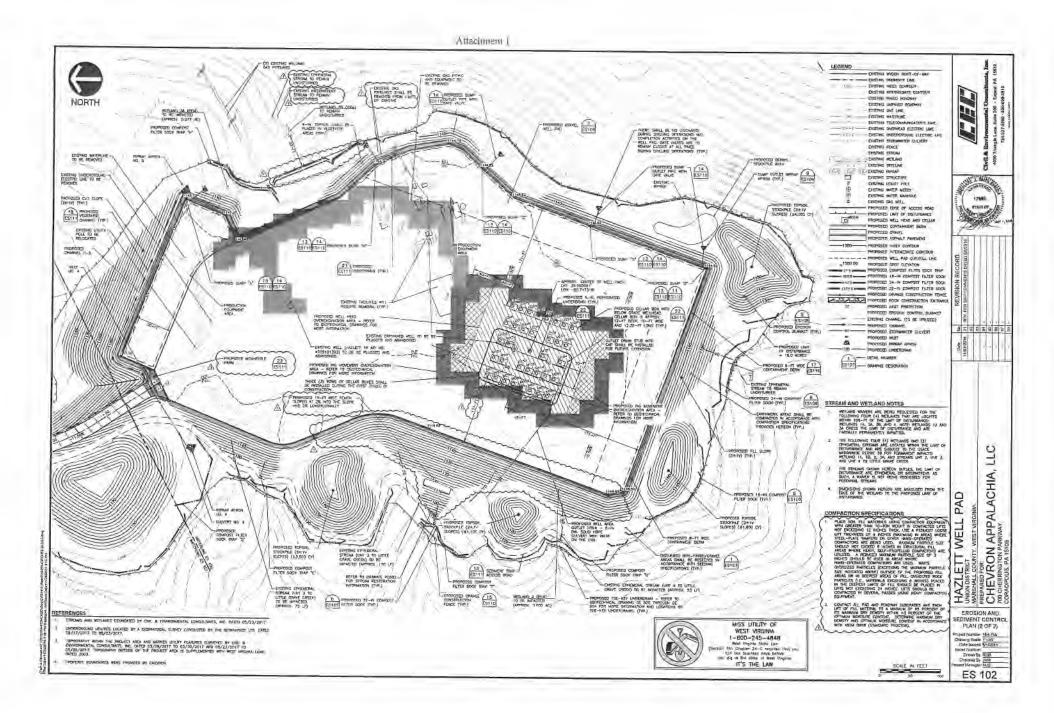
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment 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;
- 1. 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

JAMES A. MARTIN, Ву: <u>(</u> CHIEF



May 3, 2018

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

Dear Reviewer:

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

1.0 INTRODUCTION

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

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

2.0 WETLAND WAIVER REQUEST

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

The proposed Hazlett Well Pad Project is located off Grandview Road/WV-86 in Union District, Marshall County, West Virginia, east of the city of Glen Dale, as shown on the Site Location Map. The project's proposed LOD is located within 100 feet of three palustrine emergent wetlands and one palustrine scrub-shrub wetland, as shown on the Aquatic Impacts Map. The approximate distance of each wetland to the nearest boundary of the LOD is as follows: West Virginia Department of Environmental Protection Project 164-755 Page 2 May 3, 2018

- Wetland 1A 0 linear feet; \bigstar
- Wetland 3A 0 linear feet;
- Wetland 3B 53 linear feet; and
- Wetland 4-1 linear foot. \checkmark

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.

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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;

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

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

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

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

3.0 CLOSING

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

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC

cell for for

Sarah V. Parker Assistant Project Manager

Rang for

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

API Number: _____ Operator's Well Number: _____

Well Operator: Chevron Appalachia, LLC

Well Number:	Well Pad Name: Hazlett Well Pad
County, District, Quadrangle of W	ell 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.

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.

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.

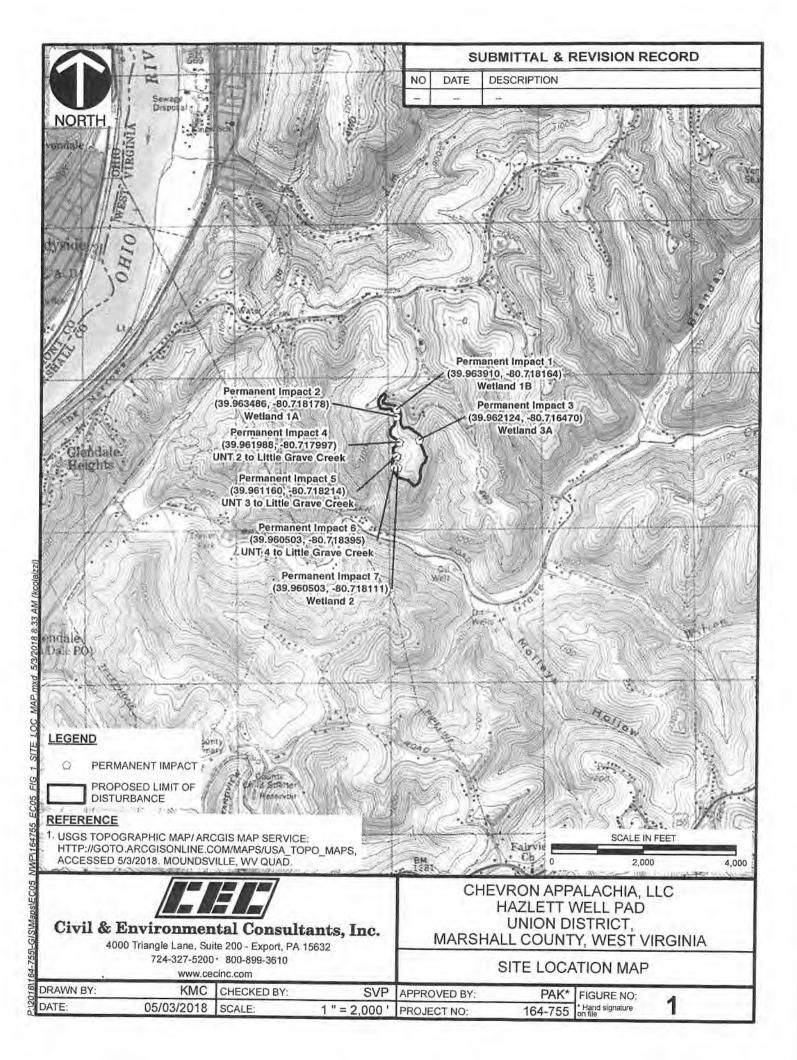
ATTACHMENT B

FIGURES

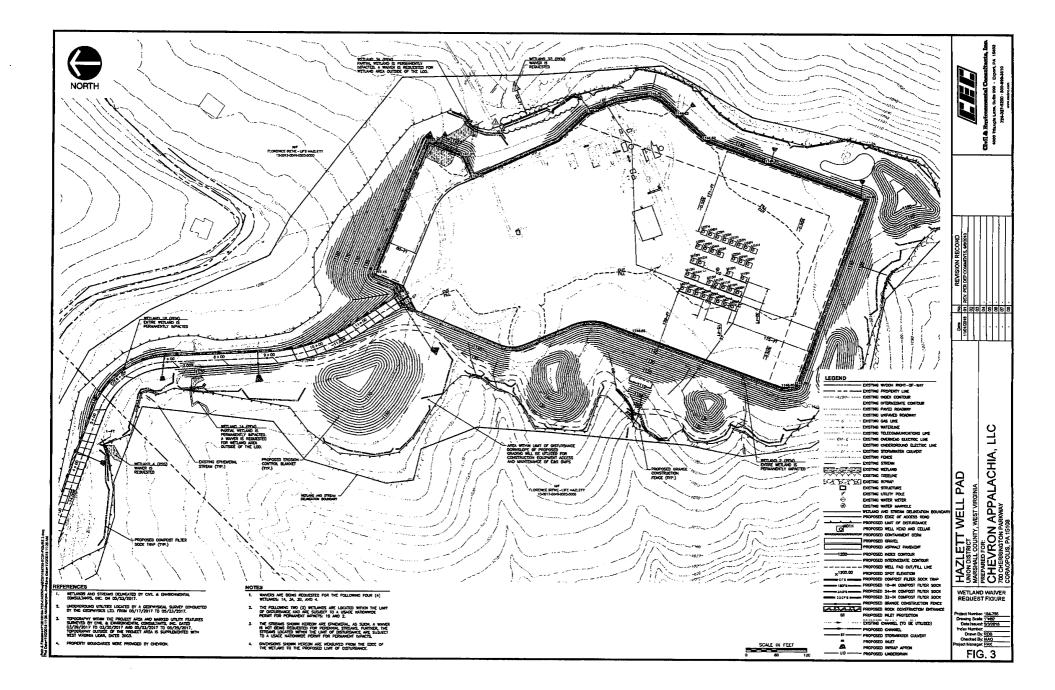
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Civil & Environmental Consultants. Inc.

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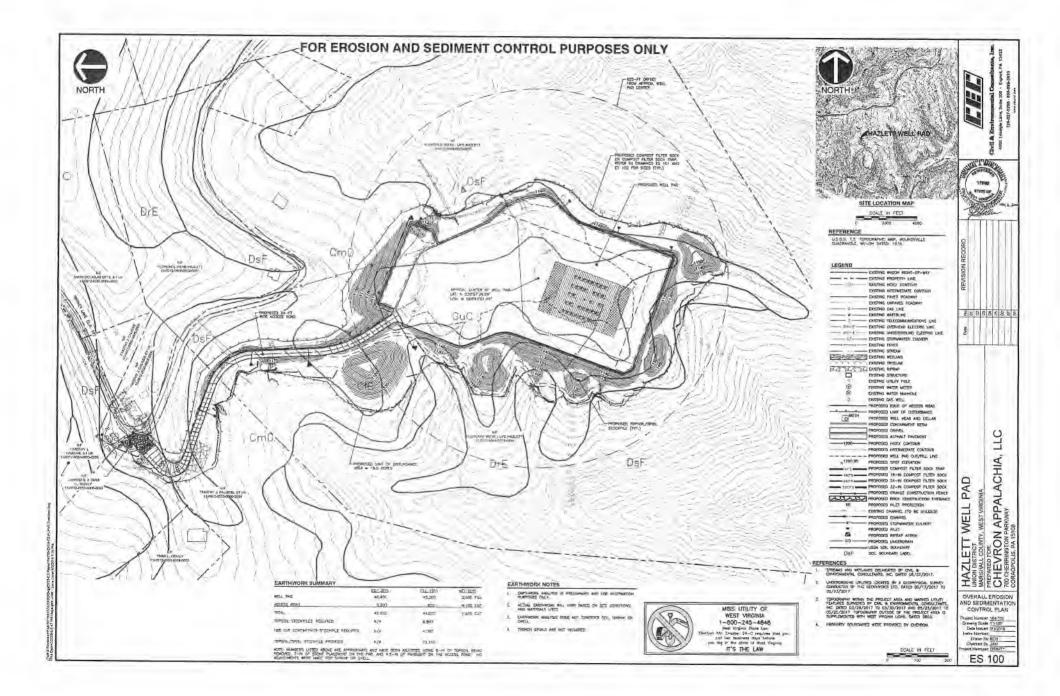


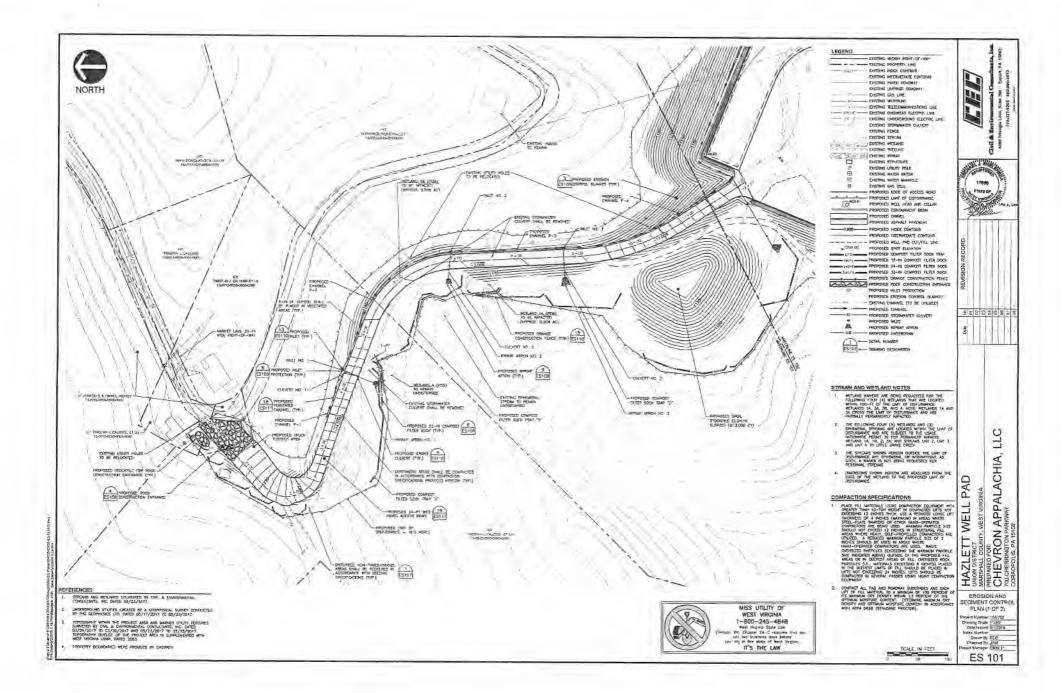
ATTACHMENT C

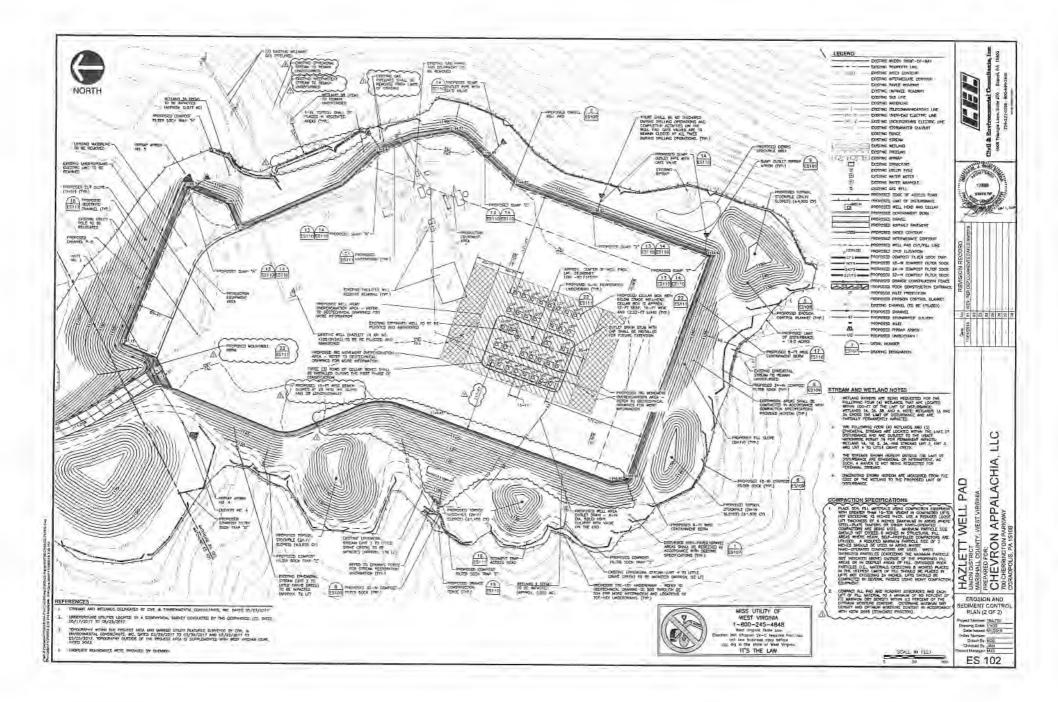
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EROSION AND SEDIMENT CONTROL PLAN

Civil & Environmental Consultants, Inc.







ATTACHMENT D

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APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

U.S. ARMY CORPS OF ENGINEERS	Form Approved -
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT	OMB No. 0710-0003
33 CFR 325. The proponent agency is CECW-CO-R.	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 compty 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 reportsed 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					
	<u> </u>							
	(ITEMS BELOW TO BE	FILLED BY APPLICANT)						
5. APPLICANT'S NAME		8. AUTHORIZED AGENT'S NAME A	ND TITLE (agent is not required)					
First - Jenny Middle -	Last - Hayes	First - Mallory Middle - A	Last - Owens					
Company - Chevron Appalachia, I	LC	Company - Civil & Environment	al Consultants, Inc.					
E-mail Address - jhayes@chevron.c	om	E-mail Address - mowens@cecinc	.com					
6. APPLICANT'S ADDRESS:		9. AGENT'S ADDRESS:						
Address- 700 Cherrington Parkway Address- 4000 Triangle Lane, Suite 200								
City - Coraopolis State - P	A Zip - 15108 Country -US	City - Export State -	PA Zip - 15632 Country - US					
7. APPLICANT'S PHONE NOS. w/AR	EA CODE	10. AGENTS PHONE NOS. WAREA	CODE					
a. Residence b. Business	s c. Fax	a. Residence b. Busine	ss c. Fax					
412-865-1	533	724-327-	5200 724-327-5280					
	STATEMENT OF	AUTHORIZATION						
	C, Inc. to act in my behalf as	s my agent in the processing of this ap	plication and to furnish, upon request.					
supplemental information in support of	this permit application.							
	Clenny Harr	es 1.15.18						
	SIGNATURE OF APPLI	CANT DATE						
	0 0 0							
	NAME, LOCATION, AND DESCRI	PTION OF PROJECT OR ACTIVITY	· · · · · · · · · · · · · · · · · · ·					
12. PROJECT NAME OR TITLE (see	instructions)							
Hazlett Well Pad								
13. NAME OF WATERBODY, IF KNO	WN (if applicable)	14. PROJECT STREET ADDRESS	(if applicable)					
Refer to Waters Impact Summary	Table in Attachment A	Address Markey Lane / CR-10						
15. LOCATION OF PROJECT Latitude: •N 39.970510	Longitude: •W -80.718898	City - Glen Dale	State- WV Zip- 26038					
16. OTHER LOCATION DESCRIPTIO		4						
State Tax Parcel ID	Municipality							
Section - To	wnship - Union District	Range - Marshall Count	у					

mile, turn left, and use the right 2 lanes to n 21st Street and then right onto Marshall Stre	merge onto US-250 S/WV-2 S via the ramp to	S 250 S/WV-2 S toward Moundsville. Drive 0.5 Moundsville. Drive 5.1 miles, and turn left onto comes 23rd Street and then Riley Hill Road. Drive d turn right onto Markey Lane/CR-10.
proposed limit of disturbance (LOD) is app	expand an existing natural gas well pad site an proximately 26 acres. The proposed project are oded hillslopes. The project will require fill to	nd widen the associated existing access road. The rea includes an existing well pad and access road, b be placed in 0.101 acre of palustrine emergent
19. Project Purpose (Describe the reason or purp The purpose of the project is to construct a r	pose of the project, see instructions) natural gas well pad and access road for shale	operations.
20. Reason(s) for Discharge The construction of the facility will require t four palustrine emergent (PEM) wetlands. T	20-23 IF DREDGED AND/OR FILL MATERIAL IS T the placement of fill material into three unnam These permanent impacts are associated with g alled beneath the proposed fill slopes to maint	ned tributaries (UNTs) to Little Grave Creek and grading activities for expansion of the well pad
21. Type(s) of Material Being Discharged and the / Type	Amount of Each Type in Cubic Yards: Type	Туре
Amount in Cubic Yards	Amount in Cubic Yards	Amount in Cubic Yards
390 CY of earthen material into wetlands22. Surface Area in Acres of Wetlands or Other Water	80 CY of earthen material into streams	N/A
Acres 0.101 acre of PEM wetlands	aters Filled (see instructions)	
or Linear Feet 288 linear feet of ephemeral strea	ams	
UNTs 1, 5, 6, and 7 to Little Grave Creek and	ations for the siting of the facility, and the pro e still meeting the project's purpose and need.	posed site plan represents the layout which Grading was minimized to avoid impacts to ncing will be installed around the downstream

Rei unar Pompuns	na veloci de la para de	i sa kiri i f	ED CEORABE MEDUC	PLETEN VIER	MMERICENCER (1999)
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25 - Horeases of Avlici	ning Etunerty Owners, Liss	sees, Etc., Micale Property	y Adjoins the Waterpudy r	n an an ann an agus	and the state of t
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"Jtv		State	<u> 2</u> 37 -		,
26. List of Other Certifica	ales or Approvals/Denials re			for Work Described in This A	· · · · · · · · · · · · · · · · · · ·
AGENCY	TYPE APPROVAL'	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
AVDNR OLS	Right of Entry	Not yet assigned	December 2017	Pending	
A V DEP	Horizontal 64 Well P	Not yet assigned	Pending	Pending	en e
	•••••	······			ere como o par
		·····	·····		· _ •
7. Application is hereby	restricted to zoning buildir made for permit or permits	to authorize the work doe		certify that this information is	
omplete and accurate. I pplicant	further certify that I posses	is the authority to undertak	e the work described here	in or am acting as the duly a	o this application is uthorized agent of the
SIGNATURE	TAJES OF APPLICANT	1. 15. 18	Mahony	h. Juins	1/15/18 DATE
he Application must b uthorized agent if the	e signed by the person v statement in block 11 ha	who desires to undertak as been filled out and si	e the proposed activity	(applicant) or it may be si	gned by a duly
BUSC Section 1001	provides that Whoever	r in any manner within	the jurisdiction of any d	epartment or agency of th rial fact or makes any fals	e United States

ENG FORM 4345, DEC 2014

API NO. 47
OPERATOR WELL NO. 5H
Well Pad Name: Hazlett
4705 102096

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator:	Chevron A	opalachia	a, LLC	49449935	Marshall	Union	Moundsville, WV 7
-				Operator ID	County	District	Quadrangle
2) Operator's Well	Number: 5	1		Well Pa	ad Name: Haz	lett	
3) Farm Name/Sur	face Owner:	Hazlett		Public Ro	ad Access: CF	R 10 Marke	y Lane
4) Elevation, curre	nt ground:	1148'	E	levation, proposed	l post-construc	tion: <u>1144'</u>	
· • • • • • • • • • • • • • • • • • • •	Gas <u>X</u> her		Oil	Uno	lerground Stora	age	
(b)	If Gas Sha	llow	Х	Deep			- · · · · · · · · · · · · · · · · · · ·
	Ho	rizontal	X			\sim	4.2.4.2
6) Existing Pad: Ye	es or No Yes	S				$\mathcal{J}_{\mathcal{N}}$ 5,	/24/18
7) Proposed Target Marcellus, 6150'				vipated Thickness with a pore press			
8) Proposed Total	Vertical Dept	h: 6,170)'	,			
9) Formation at To	tal Vertical D	epth: <u>N</u>	larcellus	3			
10) Proposed Total	Measured D	epth: 1	2,658'				
11) Proposed Horiz	zontal Leg Le	ngth: 5	,812'				
12) Approximate F	resh Water S	trata Dep	ths:	541' below GL			
13) Method to Dete	ermine Fresh	Water De	epths: <u>F</u>	Based on the dee	epest water w	ell within 3	mile radius
14) Approximate S	altwater Dept	ths: Pote	ential for	r Brine in Burgoor	n @ 1696' belo	w GL	
15) Approximate C	oal Seam De	pths: Pit	tsburgh	Coal top 624' be	elow GL		
16) Approximate D	epth to Possi	ble Void	(coal mi	ine, karst, other):	Possible Void in at	pandoned Gleno	dale Mine @ 624' below GL
17) Does Proposed directly overlying c				ns Yes	No	o <u>×</u>	
(a) If Yes, provide	e Mine Info:	Name:					
		Depth:					RECEIVED Office of Oil and Gas
		Seam:				-	AUG 3 2018
		Owner:	<u> </u>				WV Department of Environmental Protect

API NO. 47-____-

OPERATOR WELL NO. 5H Well Pad Name: Hazlett

WW-6B (04/15)

CASING AND TUBING PROGRAM

4705102096

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	30"	New			50'	50'	CTS
Fresh Water	20"	New	J-55	94	591'	591'	CTS
Coal	13-3/8"	New	J-55	54.5	724'	724'	CTS
Intermediate	9-5/8"	New	L-80	40	2,116'	2,116'	CTS
Production	5-1/2"	New	P-110	20	12,658'	12,658'	2,616' (500' below 9-5/8" shoe)
Tubing							
Liners							

JN 5/29/18

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

PACKERS

Kind:				
Sizes:	f			
Depths Set:		 · · · · · · · · · · · · · · · · · · ·	RECEIVE Office of Oil a	ED and Gas
			AUG 3	2018

WV Department of Environmental Protection

API NO. 47		
OPERATOR WELL NO. 5H		
41711 0ad5Vathe0+200) 6	

JN 5/29/18

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

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

For the Water String the blend will contain class A cement, 3% CaCl2, and flake. The coal will contain class A cement, 3% CaCl2, Salt, and flake. The intermediate will contain class A cement, 3% CaCl2, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, 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 created as a minimum of 2 bottoms up once casing point has been reached and until uniform mud properties areas achieved.

WV Department of Environmental Protection

4705 102096

Cement Additives

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

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

The Production cement will have a lead and tail cement.

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

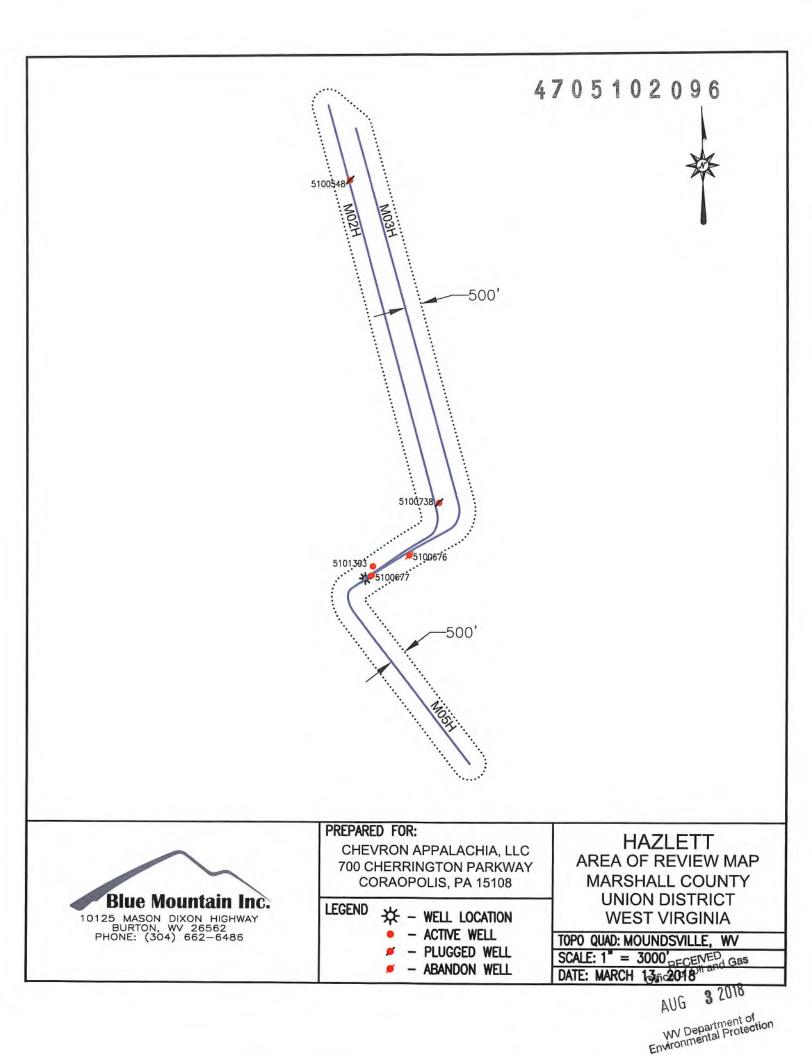
The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

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WV Department of Environmental Protection

Unit of the start with the s	Chekroin				Hazlett MO	5H			5 1 0 2 0 9	96
Hard Profile Difference Difference Difference Difference Difference State Profile 2000 Profile 200	Permit# Clay Twp, Marshall Co, V	wv		_			G	Fround Level Elev. (ft above SL): *All depths below reference GL**	1144	
Description Distribution Distribution </th <th>5/16/2018 7:47 DRILLING FLUID /</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>HOLE</th> <th></th> <th></th> <th></th>	5/16/2018 7:47 DRILLING FLUID /						HOLE			
	Core Barrel / Auger		FURMATION					Conductor		
If or a way way If or a wa			30" Conductor	50 50		36	50		st 10 ft into bedrock	
Sec of mile	NFDRL with Mist and additives / 26" Mammer	(1) on shoe track w/ stop collar & (1) par jt over						20" 944 J-55 BTC 0.438' Wali Couping CD (n) 21.000 ID (n) 19.124 Drilt ID (n) 18.937 Burst (psi) 2110 Collapse (psi) 520 Yield (Jt Strength 1,000 lbs) 1402 Capathy (bkHt) 0.3553	Cement to surface	
Sec of mile										
How and matching How and matching<		Bow Spring:	20" Casing	591 591		26	621			
10.00 find and 10 million in the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies Interview of the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies 10.00 find and 10 million in the state Presenter index of Galaxies Interview of the state Presenter index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies Interview of the state Presenter index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies Interview of the state Presenter index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies Interview of the state Presenter index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies 10.00 find and 10 million index of Galaxies Interview of the state Presenter index of Galaxies 10.00 find and 10 million index of Galaxies		(1) on shoe track w/ stop collar & (1) per it over						13-3/8" 54,5# J-55 BTC 0.380" Wall	Cement grout to surface	
Service conduction Service	Air DRL, with Mist and additivea	(1) installed 100 ft from surface Basket Placement Secured w/ (2) lock rings	Top of Coal	d				ID (in) 12.615 Dr/t ID (in) 12.459 Burst (psi) 2730 Colapse (psi) 1130	Excess) Grout Job Vol. (100%	
Service conduction Service										
But of a data water scaling If or a data water scaling If or a data water scaling Description (1) or (1) or (1		1	13-3/8° Casing	724 724		17.50	754	Minimum 30 ft - Optimum 50 ft	past deepest coal	
Burtismin Burtismin <t< td=""><td>Air DRL with Mist and additives</td><td>(1) on shoe track w' stop collar & (1) per 3 its over</td><td></td><td></td><td></td><td></td><td></td><td>9-5/8° 40# L-80IC BTC 0.395° Wall Couping OD (in) 10.625 ID (in) 8.835</td><td>Cement to surface</td><td></td></t<>	Air DRL with Mist and additives	(1) on shoe track w' stop collar & (1) per 3 its over						9-5/8° 40# L-80IC BTC 0.395° Wall Couping OD (in) 10.625 ID (in) 8.835	Cement to surface	
Surface - TOC (1) per every other (t) (1) per (t of org) (1) per (
(1) par every other (t) TOC-Curve KOP (1) par (to disg) (1) par (to			9-5/8" Casing	2,116 2,116		12.25	2,176	Set 100' below the M	ırrysville	
Image: Solution KOP Image: Solution KOP Copyright Of Cog Copyright Of Cog Copyright Of Cog Copyright Of Cog Solution								Production Casing 5-1/2" 20# P110EC DWC/C-IS-Plus	Production Lead Slurry (Class A, G, H)	
(1) per /t of csg Curve KOP-TMD (1) per /t of csg (1) Of the field of csg 10 Marker J of Csg 100° above KOP КОР КОР КОР КОР КОР КОР КОР КОР								Caupling CD (in) 6.300	Cement top approximately 500' below 9- 5/8' shoe	
(1) per lf of csg Yield (JL Strength 1.000 lbs) 729 10' Marker Jt of Csg 100' above KOP Office of Oil and Gast AUG 3 2018 WV Department C 8.5 to 8.75		(1) per jt of csg						Drift ID (in) 4.653 Burst (psi) 14360		
мм MV: 11 Зару ВВМ- 12.25 ур ВВМ-										
кор кор в.5 to 8.75 Roop SBM- 12.5 pg SBM- 12.5 pg SBM- 12.5 pg SBM-		10' Marker Jt of Csg 100' above KOP								
кор кор в.5 to 8.75 Roop SBM- 12.5 pg SBM- 12.5 pg SBM- 12.5 pg SBM-									R	CEIVED Gas
NoP 8.5 to 6.75 WV Department of Environmental Prote									Office	0 2018
NoP 8.5 to 6.75 WV Department of Environmental Prote									AUG	3 2010
Production Tail Sturry (Class A. G. H)									VAN	Department C
Production Tail Sturry (Class A. G. H)			КОР			8.5 to 8.7	5		Enviror	mental Protes
Ined MV: 11.5ppg SBM- 12.5ppg SBM									Production Tail Slurry	
Mr. als										
Mult	Planned MW: 11.5ppg SBM - 12.5ppg SBM									
Mull &								18-1		
Chan EQUID.		Float Equip.						MU. 8/18		
(2) 25 of C69 Float Equip. 5-1/2" Casing 12,658 6,170 8.500 12,673		(2) Jts of Csg	Est. BHT deg. F 5-1/2" Casing	144 12,658 6,170		8.500	12,673	0 5/10/1	in the second second	



096	47-051-00676	47-051-00677	47-051-01393	47-051-00738	47-051-00548	Well ID
	COLEMAN, C R	COLEMAN, C R	CHIEF OIL & GAS LLC	MID-CON PETROLEUM CO., INC	PACE, PREBLE & BOWER INC.	Prior Operator On Record
	UNIVERSAL MINERAL, INC.	UNIVERSAL MINERAL, INC.	CHEVRON APPALACHIA LLC	MID-CON PETROLEUM CO., INC	PACE, PREBLE & BOWER INC.	Operator - DEP
	ABANDONED	ABANDONED	ACTIVE	PLUGGED	PLUGGED	Status
	39.962782	39.961040	39.961821	39.967281	39.994422	Latitude
	-80.712662	-80.716806	-80.716665	-80.709460	-80.719818	Longitude
	3100'	3100'	6250'	1100'	UNKNOWN	Vertical TD
	GORDON SANDSTONE	GORDON SANDSTONE	MARCELLUS SHALE	COW RUN SANDSTONE	BEREA SANDSTONE	Producing Formation
	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Producing Zones NOT
RECEIVED Office of Oil and Gas AUG 3 2018 WV Department Environmental Prot	of ectic	ç				NOT Perforated

.

API Number 44-705 10209 (Operator's Well No. Hazlett 5H

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 comp Will a pit be used? Yes No	plete the proposed well work? Yes No 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 provid Underground Injection (UIC Permi Reuse (at API Number_at next anticipa Off Site Disposal (Supply form WV Other (Explain	it Number) ited well)
Will closed loop systembe used? If so, describe: Yes, we will	be utilizing multiple open/closed top tanks
	tal)? Air, freshwater, oil based, etc. Air to KOP. SBM from KOP to TMD
Additives to be used in drilling medium?Barite, fluid loss, emuls	ifiers, rheological control
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etcRemoved offsite
-If left in pit and plan to solidify what medium will be	used? (cement lime counduct) 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	Q	my Haye)	RECE Office of C	
Company Official (Typed Name) Jenny Hayes 🌔	1.0		AUG	3 2018
Company Official Title Permit	ing Team Lead			WV Del Environme	partment of ental Protection
Subscribed and swom before me		day of <u>Aliqust</u>	, 20 8 Notary Public	- Country of Alleghe	envsylvania wy
My commission expires	September	17,2018		Commonwealth of Pennsylv Laura Savage, Not Allegheny Co My commission expires Se Commission numbe	ary Public unty ptember 17, 2018 r 1285773
				Member, Pennsylvania Assoc	clation of Notaries

Fertilizer	type 10-20-20	orrect to pH	
Fertilizer	amount_300	lbs/acre	
Mulch_3	, 5 for winter stabilization	Tons/acre	
		Seed Mixtures	
	Temporary	Per	manent
Seed Type	e Ibs/acre	Seed Type	lbs/acre
See Attach	ed	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.

lan Approved by:	
Comments:	
	RECEIVED Office of Oil and Gas
Fitle: Oil + Gas Inspector Date: 5/	AUG 3 2018
ield Reviewed?	WV Department of Environmental Protection
	Environmentar

4705 102096

		SEE	D 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		

AUG 3 2018



Chevron

Appalachian LLC WV Well Site Safety Plan Pad: Hazlett Pad A

Well # M05H

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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AUG 3 2018

WV Department of Environmental Protection



WATER SUPPLY EXHIBIT 4705 1020 HAZLETT PAD A BATCH #1



Phone: 724-564-3700

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



Water Supply Exhibit Hazlett Pad A Batch #1



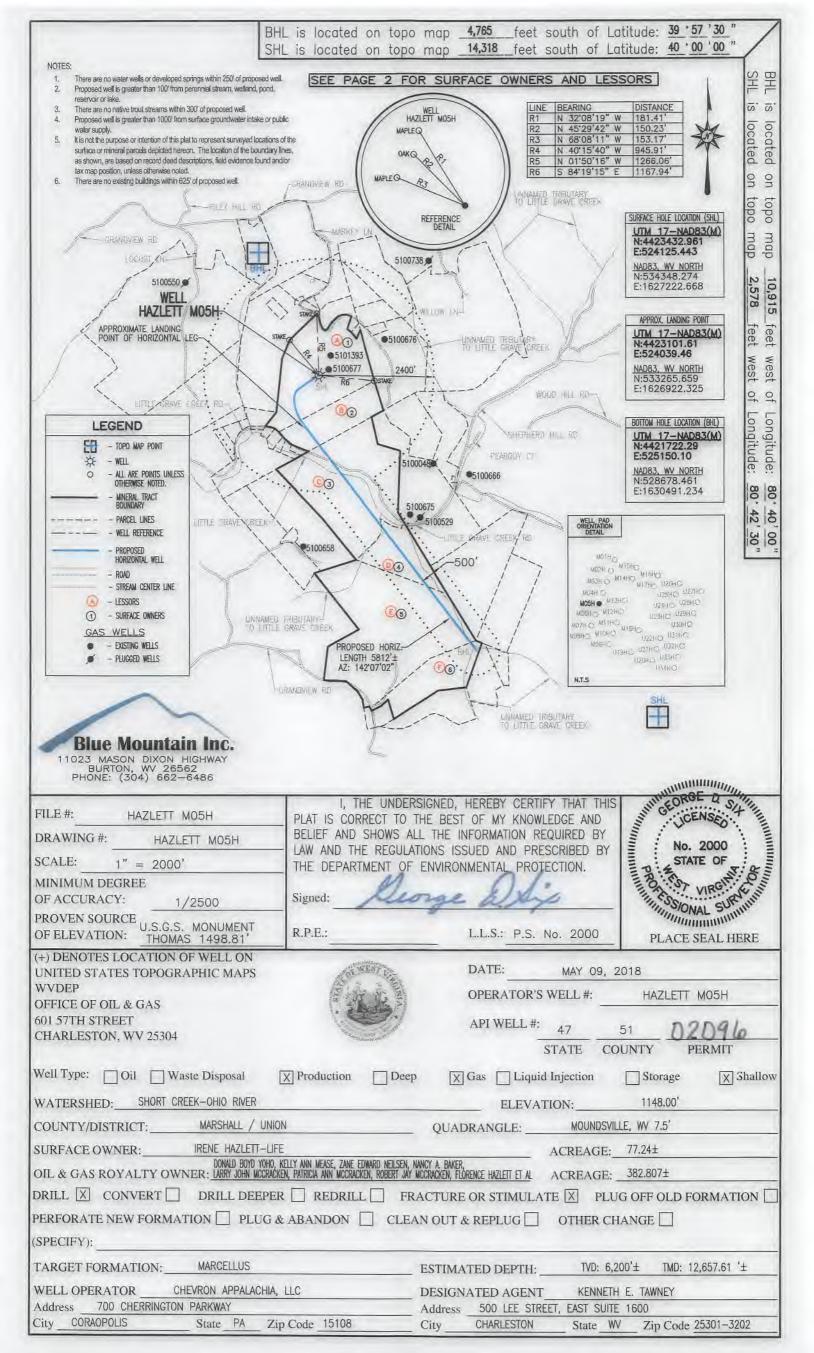
No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	VICKERS THOMAS D & JANET E	Creek	766	1526 LITTLE GRAVE CREEK DRIVE	304-845-4568
2	OTTE, MICHAEL; OTTE, MARK; OTTE, HUBERT & JANE; KEY, GLADYS	Spring	1,167	224 MARKEY HILL LANE	304-232-0478
3	KEY GLADYS E - LIFE	Spring	1,179	1875 GLEN DALE HIGHTS ROAD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

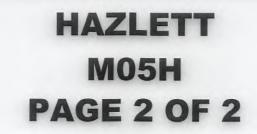
No.	SUPPLY COORDINATES	M01H	M02H	M03H	M04H	M05H	M06H	M07H	M08H
1	39°57'23.25240"N 80°43'11.50320"W	1,736	1,721	1,706	1,691	1,676	1,661	1,646	1,631
2	39°58'00.68520"N 80°43'06.23640"W	2,204	2,217	2,231	2,244	2,258	2,271	2,285	2,299
3	39°58'02.65440"N 80°43'17.77080"W	2,655	2,665	2,676	2,687	2,697	2,708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

AUG 3 2018

WV Department of Environmental Protection

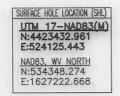
*ELEVATIONS SHOWN ARE INTERPOLATED FROM LIDAR TOPO AND SUPPLY COORDINATES ARE FROM OTHERS.



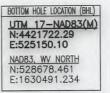


	LESSOR	DIST-TM/PAR
A	DONALD BOYD YOHO	13-12/49
	KELLY ANN MEASE	
	ZANE EDWARD NEILSEN	
	NANCY A. BAKER	
	LARRY JOHN MCCRACKEN	
	PATRICIA ANN MCCRACKEN	
	ROBERT JAY MCCRACKEN	
	FLORENCE HAZLETT ET AL	
В	RICHARD JOSEPH OTTE	13-12/47
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	
С	RICHARD JOSEPH OTTE	14-3/2
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	
D	RICHARD JOSEPH OTTE	14-3/2.1
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	
F	RICHARD JOSEPH OTTE	14-3/53
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	

	SURFACE OWNER	DIST-TM/PAR
1	IRENE HAZLETT - LIFE	13-12/49
2	IRENE HAZLETT - LIFE	13-12/47
3	HUBERT C. OTTE ET AL	14-3/2
4	HUBERT C. & JANE E. OTTE	14-3/2.1
5	HUBERT C. & JANE E. OTTE	14-3/53
6	CHARLES RICHARD WILSON	14-3/45



Blue Mountain Inc. 11023 MASON DIXON HIGHWAY BURTON, WY 26562 PHONE: (304) 662-6486 APPROX. LANDING POINT UTM 17-NAD83(M) N:4423101.61 E:524039.46 NAD83, WV NORTH N:533265.659 E:1626922.325



MAY 09, 2018

WW-6A1 (5/13)

Operator's Well No. Hazlett M05H

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
 Operation
 Operation</

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 Auny Haup
Its:	Permitting Team Lead

4705102096

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					Hazlett Unit #5H - MARC						
•	% Owned	Plat ID	Parcel	Lessor	Lettee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3	Assignment #4
934442		1	13-0012-0049-0000-0000	Yoho, Donald Boyd	Chevron U.S.A. Inc.	0.18	854/74	•	•	•	•
934443		1	13-0012-0049-0000-0000	Mease, Kelly Ann	Chevron U.S.A. Inc.	0.18	859/86	•	•	•	•
934444		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		1	13-0012-0049-0000-0000	McCracken, Larry John	Chevron U.S.A. Inc.	0.18	848/581	•	-	•	-
934843		1	13-0012-0049-0000-0000	McCracken, Patricia Ann	Chevron U.S.A. Inc.	0.18	848/586	•	•	•	-
934846		1	13-0012-0049-0000-0000	McCracken, Robert Jay	Chevron U.S.A. Inc.	0.18	848/591	-	•	•	•
951834		1	13-0012-0049-0000-0000	Hazlett, Florence et al	Chevron U.S.A. Inc.	0.1875	949/19	•	•	•	-
951838	6.67%	2	13-0012-0047-0000-0000	Otte, Richard Joseph	Chevron U.S.A. Inc.	0.1875	939/130	-	-	•	-
951840	6.67%	2	13-0012-0047-0000-0000	Pentzien, Caroline	Chevron U.S.A. Inc.	0.1875	950/196	-	-	•	•
951841	6.67%	2	13-0012-0047-0000-0000	Foster, Patricia Gali	Chevron U.S.A. Inc.	0.1875	950/218	•	-	•	-
951842	6.67%	2	13-0012-0047-0000-0000	Cunningham, Nancy Jean	Chevron U.S.A. Inc.	0.1875	950/215	•	-	•	-
951843	6.67%	2	13-0012-0047-0000-0000	Yoho, Rebecca Ann	Chevron U.S.A. Inc.	0.1875	950/212	•	•	•	-
951844	33.33%	2	13-0012-0047-0000-0000	Otte, Hubert C. et ux	Chevron U.S.A. Inc.	0.1875	939/127	-	-	•	-
951846	16.67%	2	13-0012-0047-0000-0000	Otte, Michael P.	Chevron U.S.A. Inc.	0.1875	935/160	-	-	•	•
951847	16.67%	2	13-0012-0047-0000-0000	Otte, Mark Douglas	Chevron U.S.A. Inc.	0.1875	939/180	•	•	•	-
951838	6.67%	3	14-0003-0002-0000-0000	Otte, Richard Joseph	Chevron U.S.A. Inc.	0.1875	939/130	-	•	· · · · ·	-
951840	6.67%	3	14-0003-0002-0000-0000	Pentzien, Caroline	Chevron U.S.A. Inc.	0.1875	950/196	•	•	RECEIVE	= n -
951841	6.67%	3	14-0003-0002-0000-0000	Foster, Patricia Gali	Chevron U.S.A. Inc.	0.1875	950/218	•		•	-
951842	6.67%	3	14-0003-0002-0000-0000	Cunningham, Nancy Jean	Chevron U.S.A. Inc.	0.1875	950/215	•	· Offi	ce of Olla	nd Gas
951843	6.67%	3	14-0003-0002-0000-0000	Yoho, Rebecca Ann	Chevron U.S.A. Inc.	0.1875	950/212	•	•		
951844	33.33%	3	14-0003-0002-0000-0000	Otte, Hubert C. et ux	Chevron U.S.A. Inc.	0.1875	939/127	•	•	• •	•
951846	16.67%	э	14-0003-0002-0000-0000	Otte, Michael P.	Chevron U.S.A. Inc.	0.1875	935/160	•	•	NOV 272	018 -
951847	16.67%	э	14-0003-0002-0000-0000	Otte, Mark Douglas	Chevron U.S.A. Inc.	0.1875	939/180	•	•	norpre	. 010
951838	6.67%	4	14-0003-0002-0001-0000	Otte, Richard Joseph	Chevron U.S.A. Inc.	0.1875	939/130	•		•	•
951840	6.67%	4	14-0003-0002-0001-0000	Pentzien, Caroline	Chevron U.S.A. Inc.	0.1875	950/196	•	· \\\/\	1 Donarton	ant al
951841	6.67%	4	14-0003-0002-0001-0000	Foster, Patricia Gali	Chevron U.S.A. Inc.	0.1875	950/218	-		/ Departm	
951842	6.67%	4	14-0003-0002-0001-0000	Cunningham, Nancy Jean	Chevron U.S.A. Inc.	0.1875	950/215	-	Enviro	nmental F	Protoction
951843	6.67%	4	14-0003-0002-0001-0000	Yoho, Rebecca Ann	Chevron U.S.A. Inc.	0.1875	950/212	•	i wii c	ninonitai i	
9\$1844	33.33%	4	14-0003-0002-0001-0000	Otte, Hubert C. et ux	Chevron U.S.A. Inc.	0.1875	939/127			•	•
951846	16.67%	4	14-0003-0002-0001-0000	Otte, Michael P.	Chevron U.S.A. Inc.	0.1875	935/160	•		•	-
951847	16.67%	4	14-0003-0002-0001-0000	Otte, Mark Douglas	Chevron U.S.A. inc.	0.1875	939/180	-			-
951838	6.67%	5	14-0003-0053-0000-0000	Otte, Richard Joseph	Chevron U.S.A. Inc.	0.1875	939/130				•
951840		5	14-0003-0053-0000-0000	Pentzien, Caroline	Chevron U.S.A. Inc.	0.1875	950/196	-	-	-	-
951841	6.67%	5	14-0003-0053-0000-0000	Foster, Patricia Gail	Chevron U.S.A. Inc.	0.1875	950/218		-	•	-
951842		5	14-0003-0053-0000-0000	Cunningham, Nancy Jean	Chevron U.S.A. Inc.	0.1875	950/215	•	-	•	
951843		5	14-0003-0053-0000-0000	Yoho, Rebecca Ann	Chevron U.S.A. Inc.	0.1875	950/212	•	-	•	
951844		5	14-0003-0053-0000-0000	Otte, Hubert C. et ux	Chevron U.S.A. Inc.	0.1875	939/127		•	-	
951846		5	14-0003-0053-0000-0000	Otte, Michael P.	Chevron U.S.A. Inc.	0.1875	935/160	-		•	-
951847	16.67%	5	14-0003-0053-0000-0000	Otte, Mark Douglas	Chevron U.S.A. Inc.	0.1875	939/180		•	-	
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NPAR, LLC

Wilson, Charles Richard

867043 100.00% 6

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Page 1 of 1

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24/382

AB Resources LLC &

NPAR, LLC to Chief

Exploration &

Development, LLC &

Radler 2000 Limited

Partnership

25/105

Chief Exploration &

Development LLC et al

& Radier 2000 Limited

Partnership to Chevron

U.S.A. Inc.

756/332

NPAR, LLC to Chevron

U.S.A. Inc.



4705 102096

Mitchell G. Limbert Land Representative, AMBU

March 21, 2018

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

RE: Hazlett 2H, 3H, 5H

To Whom It May Concern,

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

Sincerely,

MCht

Mitchell G. Limbert Land Representative

Chevron North America Exploration and Production Company (a Chevron U.S.A. Inc. division) 700 Cherrington Parkway Coraopolis, PA 15108 Tel 412 865 0081 mimbert@chevron.com

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

Date of Notice Certification: 05/10/2018

API No. 47-	
Operator's Well No.	M05H
Well Pad Name: Ha	Izlett

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:	West Virginia		Easting:	524125.443	
County:	Marshall	UTM NAD 83	Northing:	4423432.961	-
District:	Union	Public Road Acc	cess:	CR 10 Markey Lane	-
Quadrangle:	Moundsville, WV 7.5'	Generally used f	arm name:	Hazlett	-
Watershed:	Short Creek - Ohio River	2			-

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 by the applicant.

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

Required Attachments:

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

WW-6AC (1/12)

4705 \$ 02096

Certification of Notice is hereby given:

Well Operator:	Chevron Appalachia, LLC	Address:	700 Cherrington Parkway		
By:	Jenny Hayes		Coraopolis, PA 15108		
Its:	Permitting Team Lead	Facsimile:	412-865-2403		
Telephone:	412-865-1533	Email:	JZYK@chevron.com		
L My com C	NOTARY SEAL nwealth of Pennsylvania - Notary Seal aura Savage, Notary Public Allegheny County mission expires September 17, 2018 ommission number 1285773 , Pennsylvania Association of Notarles	County of Subscribed and swo	th & fennsylvania Alleghany orn before me this <u>Zvol</u> day of <u>August</u> , <u>Zol8</u> . <u>Notary Public</u> <u>xpires</u> <u>Slptember</u> 17, 2018		

Oil and Gas Privacy Notice:

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

WW-6A (9-13)

API NO. 47-	4	7	0	5	4	0	2	0	9	6
OPERATOR	WE	ELL	NO	. MO)5H			_		

PERA	TOR	WELL	NO.	M05H	
					_

Well Pad Name: Hazlett

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

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

Date of Notice: 05/10/2018	Date Permit Application Filed:	8/2/18
Notice of:		11

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 REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL. 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)	COAL OWNER OR LESSEE	
Name: Florence Irene Hazlett (Life Estate Interest)	Name: Consol Mining Company, LLC	
Address: 648 Markey Hill Lane	Address: 1000 Consol Energy Drive	
Glen Dale, WV 26038	Canonsburg, PA 15317	
Name: Michael C. Hazlett (Remainder Interest)	COAL OPERATOR	•
Address: 648 Markey Hill Lane	Name:	
Glen Dale, WV 26038	Address:	
SURFACE OWNER(s) (Road and/or Other Disturbance)		
Name:	SURFACE OWNER OF WATER WELL	
Address:	AND/OR WATER PURVEYOR(s)	
	Name: See Attached	
Name:	Address:	
Address:		
	OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	RECEIVED Gas
Address:		RECEIVED Office of Oil and Gas
	rease attach additional forms if necessary	3 2010
		AUG 3 Lot
		Department Protection
		AUU WV Department of Environmental Protection
		Eller

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OPERATOR WELL NO. M05H Well Pad Name: Hazlett

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep www.dep www.dep</u> 3 2018

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from the string of water well or developed spring used for human or domestic animal account of the string of the Britection water well or developed spring used for human or domestic animal consumption. The center of well pads may not be domestic 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

WW-6A (8-13) APINO 474705102096

OPERATOR WELL NO. M05H Well Pad Name: Hazlett

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 at the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 AUG **3 2018** WV Department of Environmental Protection

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

WW-6A (8-13)

4705102096

OPERATOR WELL NO. M05H Well Pad Name: Hazlett

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> 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.

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

WW-6A	API NO. 47-
(8-13)	OPERATOR WELL NO. 05H
	Well Pad Name: Hazlett
Notice is hereby given by:	4705 02096
Well Operator: Chevron Appalachia, LLC	Address: 700 Cherrington Parkway
Telephone: 412-865-1533	Coraopolis, PA 15108
Email: JZYK@chevron.com	Facsimile: 412-865-2403
duties. Your personal information may be disclose needed to comply with statutory or regulatory r	information, such as name, address and telephone number, as part of our regulatory ed to other State agencies or third parties in the normal course of business or as requirements, including Freedom of Information Act requests. Our office will you have any questions about our use or your personal information, please contact wv.gov.
Commonwealth of Pennsylvania - Notary Seal Laufa Savage, Notary Public	COMMONWEALTH OF PENNXYLVANIA COUNTY OF ALLEGHENY Subscribed and sworn before me this <u>9th</u> day of <u>May</u> , 2018.

C

My Commission Expires

imasavage

Laufa Savage, Notary Public Allegheny County

My commission expires September 17, 2018

Commission number 1285773

Member, Pennsylvania Association of Notaries

RECEIVED Office of Oil and Gas

AUG 3 2018

____Notary Public

September 17, 2018

WV Department of Environmental Protection

4705102096

ΑΡΙ Ι	No.	47-	-			

OPERATOR WELL NO. MO5H

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, LLCAddress:1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR

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:

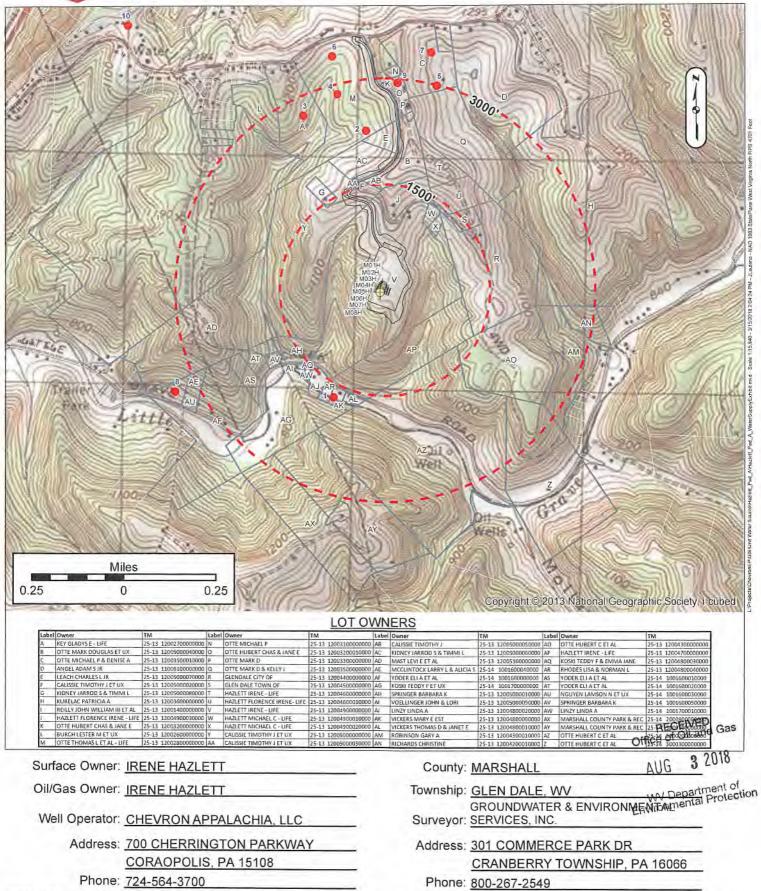
SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR Name: Address:

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



WATER SUPPLY EXHIBIT HAZLETT PAD A BATCH #1





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.

Operator Well No. Hazlett M05H 4705 02095

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 05/10/2018 Date Permit Application Filed: 0/2/18

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

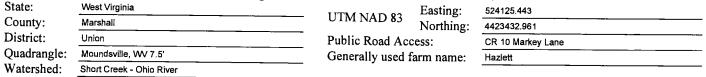
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *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)	Name: Michael C. Hazlett (Remainder Interest)
Address: 1078 Markey Hill Lane	Address: 1078 Markey Hill Lane
Gien Dale, WV 26038	Glen Date, 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:



This Notice Shall Include:

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

by given by:		BECEIVED
Chevron Appalachia, LLC	Authorized Representative:	RECEIVED Office of Oil and Gas
700 Cherrington Parkway	Address:	ALIG 3 2018
08		AUG3 2018
412-865-2504	Telephone:	WN/ Department of
slaird@chevron.com	Email:	WV Department of Environmental Protection
412-865-2403	Facsimile:	
	Chevron Appalachia, LLC 700 Cherrington Parkway 08 412-865-2504 slaird@chevron.com	Chevron Appalachia, LLC Authorized Representative: 700 Cherrington Parkway Address: 08

Oil and Gas Privacy Notice:

Operator Well No. Haziett M05H

4705102096

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

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

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

 Date of Notice:
 05/10/2018

 Date Permit Application Filed:
 212118

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

🗌 HAND	CERTIFIED MAIL
DELIVERY	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)	Name:	
Address: 1485 Missy Court	Address:	
Hamilton, OH 45013		·

Notice is hereby given:

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

State:	West Virginia		Easting:	524125.443	
County:	Marshall		Northing:	4423432.961	
District:	Union	Public Road Acce	0	CR 10 Markey Lane	
Quadrangle:	Moundsville, WV 7.5'	Generally used fa		Hazlett	
Watershed:	Short Creek - Ohio River	· · · · · · · · · · · · · · · · · · ·			

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC		Authorized Representative:	
Address:	700 Cherrington Parkway	Address:	·
Coraopolis, PA 151	108		PECEWED
Telephone:	412-865-2504	Telephone:	Office of Oil and Gas
Email:	slaird@chevron.com	Email:	
Facsimile:	412-865-2403	Facsimile:	AUG 3 2018

Oil and Gas Privacy Notice:

WV Department of Environmental Protection

STATE OF WEST VIRGINIA 4705102096 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

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

Notice is hereby given:

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

State:	West Virginia	Easting:	524125.443
County:	Marshail	UTM NAD 83 Northing	=
District:	Union	Public Road Access:	·
Quadrangle:	Moundsville, WV 7.5'		CR 10 Markey Lane
	Short Creek - Ohio River	Generally used farm name	Hazlett

This Notice Shall Include:

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

Well Operator:	Chause Association 110			Office of Oil and Gas
Telephone:	Chevron Appalachia, LLC	Address:	700 Cherrington Parkway	
•	412-865-2504	•	Coraopolis, PA 15108	AUG 3 2018
Email:	slaird@chevron.com	Facsimile:	412-865-2403	way Department of

Environmental Protection

Oil and Gas Privacy Notice:

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 05/10/2018 Date Permit Application Filed: ______

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	A ddress:
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:	West Virginia		Easting:	524125.443	
County:	Marshall	UTM NAD 83	Northing:	4423432.961	
District:	Union	Public Road Acc	0	CR 10 Markey Lane	
Quadrangle:	Moundsville, WV 7.5'	Generally used f		Hazlett	
Watershed:	Short Creek - Ohio River				

This Notice Shall Include:

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

Well Operator:	Chevron Appalachia, LLC	Address:	700 Cherrington Parkway	RECEIVED Gas Office of Oil and Gas
Telephone:	412-865-2504		Coraopolis, PA 15108	Office of Car
Email:	slaird@chevron.com	Facsimile:	412-865-2403	AUG 3 LUID
Oil and Gas Pr	ivacy Notice:			WV Department of

Oil and Gas Privacy Notice:

API NO. 47		_				
OPERATOR WELL NO.	05	H				
Well Pad Name Hazett	-	0	0	0	0	~
7/03	7	V	2	U	-y	5

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 ha	ve read the Instructions t	o Persons N	amed on Page WW-6A and the associated
provisions	listed above, and that I have received copi	es of a Notice of Applic	ation, an Ap	plication for a Well Work Permit on Form
ww-6A an required, an	nd attachments consisting of pages one (nd the well plat, all for proposed well work	 through <u>3</u> on the tract of land as fol 	, including	the erosion and sediment control plan, if
State:	West Virginia		Easting:	524125.443
County:	Marshall	UTM NAD 83	Northing:	4423432.961
District:	Union	Public Road Ac	-P66.	CR 10 Mackey Lane

Quadrangle:	Moundsville, WV 7.5' Short Creek - Ohio River	Generally used farm name:	Hazlett	
Watershed:	Short Creek - Ohio River			

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

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
SURFACE OWNER	Signature: Signature Harlett
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: INENP Hazlety Date: 7-11-18
□ SURFACE OWNER (Impoundments/Pits)	
□ COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC. Company:
COAL OPERATOR	By:
□ WATER PURVEYOR	Office of Oil and Gas
□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:AUG3_2018

Oil and Gas Privacy Notice:

WV Department of Environmental Protection

API NO. 47	_		-	_		
OPERATOR WELL NO.	05H					
Well Pad Name: Hazet	-	0	0	A	~	-
4/05	44	U	4	0	9	5

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

1 Il VINI

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 Instructio	ns to Persons Named on Page WW-6A and the associated
provisions listed above, and that I have received copies of a Notice of App	plication, an Application for a Well Work Permit on Form
WW-6A and attachments consisting of pages one (1) through ³	, including the erosion and sediment control plan if
required, and the well plat, all for proposed well work on the tract of land as	s follows:

State:	West Virginia	LET (ALLE OF	Easting:	524125,443			
County:	Marshall	UIM NAD 83	UTM NAD 83 Lasting: 524125.443 Northing: 4423432.961				
District:	Union	Public Road Acce	ess:	CR 10 Mackey Lane	Markey	Lone	
Quadrangle:	Moundsville, WV 7.5*	Generally used fa	1. ION PCT	Lanc			
Watershed:	Short Creek - Ohio River						

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

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
□ SURFACE OWNER	Signature: Routha Killelaco
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Longth K. Walkce Date: June 24, 2018
□ SURFACE OWNER (Impoundments/Pits)	
COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC. Company:
□ COAL OPERATOR	By: Its:
□ WATER PURVEYOR	Signature: RECEIVED Office of Oil and Gas
□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:

Oil and Gas Privacy Notice:

WV Department of Environmental Protection

API NO. 47-____ OPERATOR WELL NO. M05H Well Pad Name: Hazlett

4705 102096

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, <u>Casey V. Saunders</u>, 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:

	and were place and proposed were work on the	1 401 01 1410 45 101	10 10 5.	
State:	West Virginia	UTM NAD 83	Easting:	524125.443
County:	Marshall	UTMINAD 83	Northing:	4423432.961
District:	Union	Public Road Acc	ess:	
Quadrangle:		Generally used f	arm name:	
Watershed:		2		

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

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
□ SURFACE OWNER	Signature:
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:
□ SURFACE OWNER (Impoundments/Pits)	
COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC. Company: CONSOL Energy
COAL OPERATOR	By: Casey V. Saunders Its: Manager Coal/Gas Coordination
□ WATER PURVEYOR	Signature: m (V- John
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: 02/23/2018

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 **DEP's** Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

AUG 3 2018

WV Department of Environmental Protection

4705 + 02096



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

June 13, 2018

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Hazlett Pad A Well Site, Marshall County Hazlett A Unit 5H

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,

Tary K. Clayton

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

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

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AUG 3 2018

WV Department of Environmental Protection

E.E.O./AFFIRMATIVE ACTION EMPLOYER

4705 * 02095

Hydraulic Fracturing Fluid Additives

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

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AUG 3 2018

WV Department of Environmental Protection

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