

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

Tuesday, August 15, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HINES M10H

47-051-01932-00-00

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: HINES M10H

Farm Name: DONALD HINES ET UX
U.S. WELL NUMBER: 47-051-01932-00-00

Horizontal 6A / New Drill

Date Issued: 8/15/2017

Promoting a healthy environment.

API Number:	
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PERMIT CONDITIONS 0 5 4 0 1 9 3 2

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 supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

A	ΡI	Number:	

PERMIT CONDITIONS 4705161932

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 800 Mountain View Drive Smithfield, PA 15478

DATE: August 14, 2017 ORDER NO.: 2017-W-9

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 "Chevron" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

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

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- 2. Chevron is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 800 Mountain View Drive, Smithfield, Pennsylvania.
- On April 24, 2017, Chevron submitted well work permit applications identified as API#s 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. The eight proposed wells are to be located on the Hines Pad in Washington District of Marshall County, West Virginia.
- 4. On April 24, 2017, Civil and Environmental Consultants, Inc. (CEC), on behalf of Chevron, requested a waiver for Wetlands 2A, 2B, 3A, and 3B 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 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. Wetlands 3A and 3B will be excluded from this waiver due to being located outside the area of the pad LOD.

CONCLUSIONS OF LAW

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

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands 2A and 2B from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. The Office of Oil and Gas hereby **ORDERS** that Chevron shall meet the following site construction and operational requirements for the Hines Well Pad:

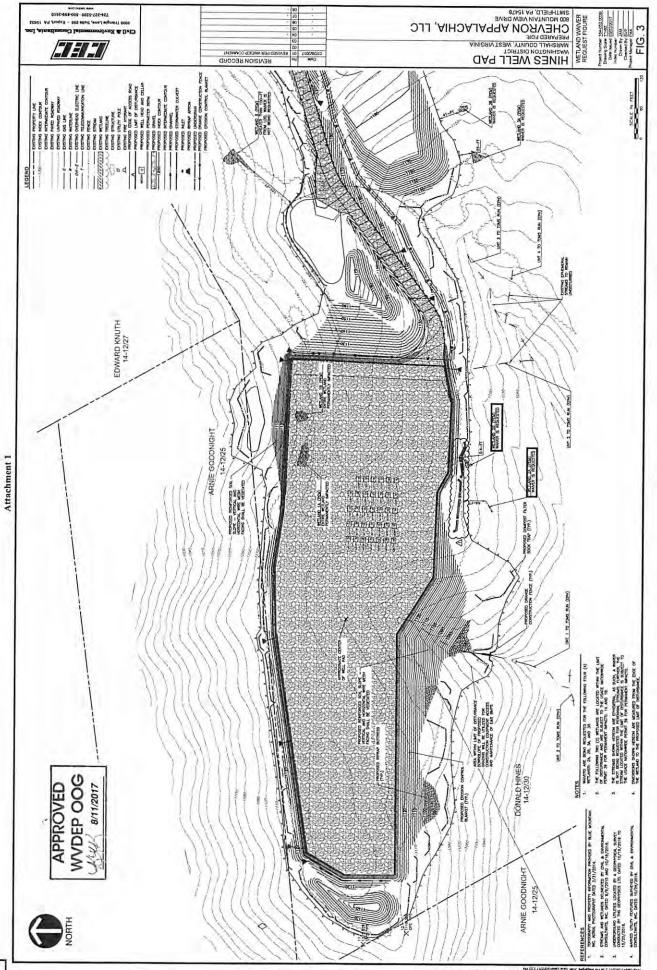
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland 2A shall have two layers of eighteen-inch (18") compost filter sock trap to prevent sediment from reaching the wetlands.
- d. Wetland 2B shall have two layers of twenty-four inch (24") compost filter sock trap to prevent sediment from reaching the wetlands.
- 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 14th day of August, 2017.

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, CHIEF



March 2, 2017

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

Dear Reviewer:

Subject: Wetland and Perennial Stream Waiver Request Form

> Chevron Appalachia, LLC Hines Well Pad Project

Washington District, Marshall County, West Virginia

CEC Project 164-052

1.0 INTRODUCTON

On behalf of Chevron Appalachia, LLC (Chevron), Civil & Environmental Consultants, Inc. (CEC) is submitting a Wetland and Perennial Stream Waiver Request form 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 four (4) palustrine emergent wetlands for their proposed Hines Well Pad Project located in Washington District, Marshall County, West Virginia.

Chevron is proposing to construct a natural gas well pad and associated access road. The total limit of disturbance (LOD) for the project is approximately 19 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 September 9, 2015 and October 18, 2016. 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 Hines Well Pad Project is located off Campbell Hill Road in Washington District, Marshall County, West Virginia southeast of the City of Moundsville, as shown on the Site Location Map. The project's proposed LOD is located within 100 feet of four (4) wetlands, as shown on the Aquatic Impacts Map. The approximate distance of each wetland to the nearest boundary of the LOD is as follows: Office of Oil and Gas

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- Wetland 2A 44 linear feet;
- Wetland 2B 0.4 linear feet:
- Wetland 3A 25 linear feet; and
- Wetland 3B 41 linear feet.

No perennial streams are located within 100 feet of the project LOD. A waiver is not being requested for the wetlands and the ephemeral stream located within the LOD, which includes Wetlands 1A and 1B and an unnamed tributary (UNT) 1 to Toms Run. Chevron is requesting authorization from the U.S. Army Corps of Engineers (USACE) Pittsburgh District for impacts to these features. A copy of the Nationwide Permit 39 Application to the USACE for these impacts 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 site would not be developed and no immediate environmental impacts would occur. Oil and 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.

The current single well pad and access road design approach of the Hines Well Pad combines three separate well pads and access roads that were conceptually planned by Chevron in the vicinity of the Hines Well Pad location. The overall earth disturbance of three separate projects would have been greater than the current one pad and access road project. Further, on the Hines property, the current location is the primary desired location due to the size of the proposed well pad and the steep topography of the surrounding area. 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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Environmental Protection

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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. The four (4) wetlands that are located within 100 feet of the LOD are located on the southern side of the proposed well pad and access road. In order to maintain a 100-foot buffer from the four (4) wetlands, the well pad and access road would need to be shifted north, which is not feasible due to the steep topography located to the north of the proposed well pad. In addition, shifting the access to the north would cause the LOD to be within 100 feet of Wetland 5.

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.

As stated above, the current Hines Well Pad has been designed to take the place of three separate well pad and access road projects. As such, the singular well pad and access road will have less earth disturbance than the three separate projects. The current proposed Hines Well Pad design represents the alternative which reduces permanent impacts to the greatest degree practicable. Shifting the proposed well pad south or north would create higher fill slopes, and greater 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 Hines 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 to upslope of the existing wetlands and/or ephemeral streams;
 Compost filter socks will be positioned downslope of smaller drainagements and/or ephemeral streams;

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- Orange construction fence will be erected along the edge of the LOD to clearly mark and help protect the wetlands from being impacted during construction operations;
- Erosion control blanket will be placed on slopes greater than 3 Horizontal to 1 Vertical (3H:1V) to limit erosion and promote vegetative growth;
- Riprap aprons will be constructed at the outfalls of pipes to dissipate runoff;
- Disturbed areas within the LOD shall be stabilized within 21 days of construction activity temporarily or permanently ceasing; and
- The ephemeral stream located within the LOD and downgradient of the proposed fill slope toe-key outlet drain will be restored to approximate original dimensions 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 and Perennial Stream Waiver Request Form. Please contact Katie Moberg at 724-327-5200 or kmoberg@cecinc.com, if you have any questions or require additional information.

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC

Assistant Project Manager

SVP:KLM/jg **Enclosures**

cc: Jenny Hayes, Chevron Appalachia, LLC

Katie L. Moberg Project Manager

Office of Oil and Gas

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WV Department of Environmental Protection

WETLAND AND I	ATTACHMENT A PERENNIAL STREAM WAIVER REQU	JEST FORM

11/3/14	
Wetland	and Perennial Stream Waiver Request

11/3/14		API Number: 47-051-0193	2
Wetland and Pe	rennial Stream Waiver Request	Operator's Well Number:	
Well Operator:	Chevron Appalachia, LLC		
Well Number: _		Nell Pad Name: Hines Well Pad	
County District		unty, Washington District, Moundsville Qua	ad

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows:

- (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir.
- (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake.
- (3) For a groundwater source, the distance shall be measured from the wellhead or spring.

The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.

§22-6A-12(c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section.



11/3/14
Wetland and Perennial Stream Waiver Request

API Number:	
Operator's Well Number:	

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

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

Please refer to Section 2.0, Question 1 of the letter.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.
 - a. Include a No-Action Alternative as to show "the future without the project"
 - b. Location Alternatives must be shown
 - c. Must demonstrate why a one hundred foot buffer cannot be maintained
 - d. Describe how the proposed project is the least environmentally damaging practicable alternative

Please refer to Section 2.0, Question 2 of the letter.



API Number:	
Operator's Well Number:	

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

Please refer to Section 2.0, Question 3 of the letter.

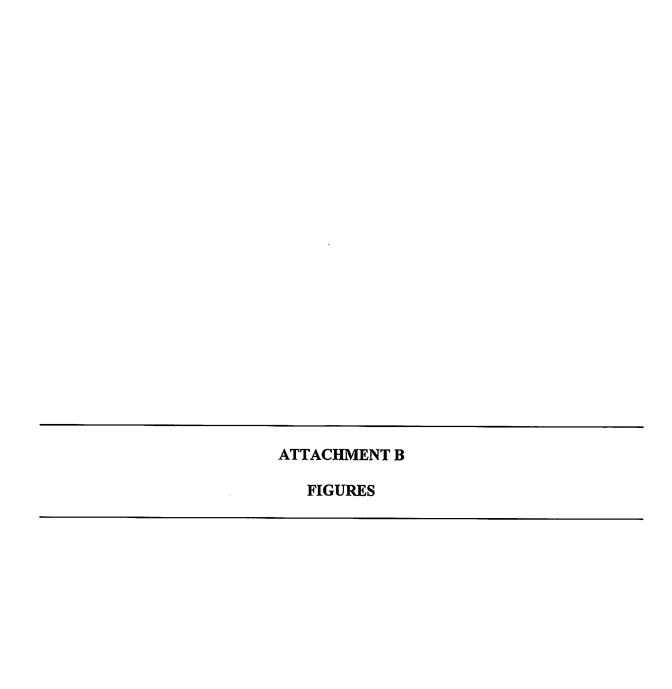
- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
 - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

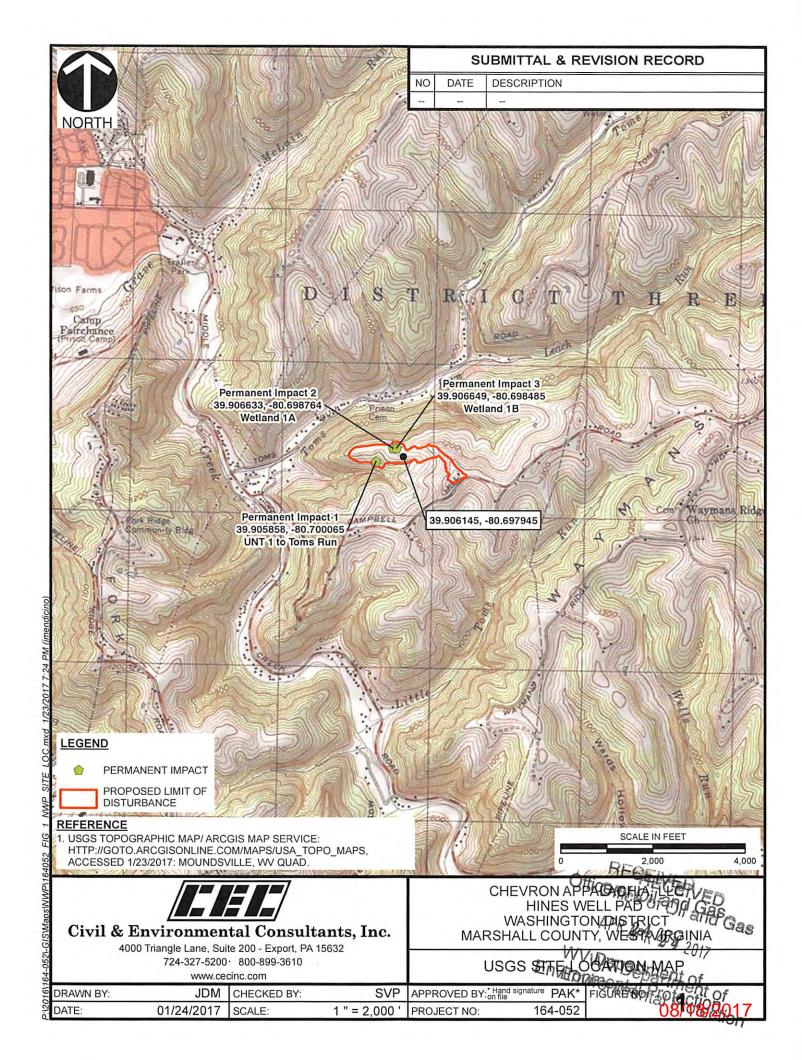
Please refer to Section 2.0, Question 4 of the letter.

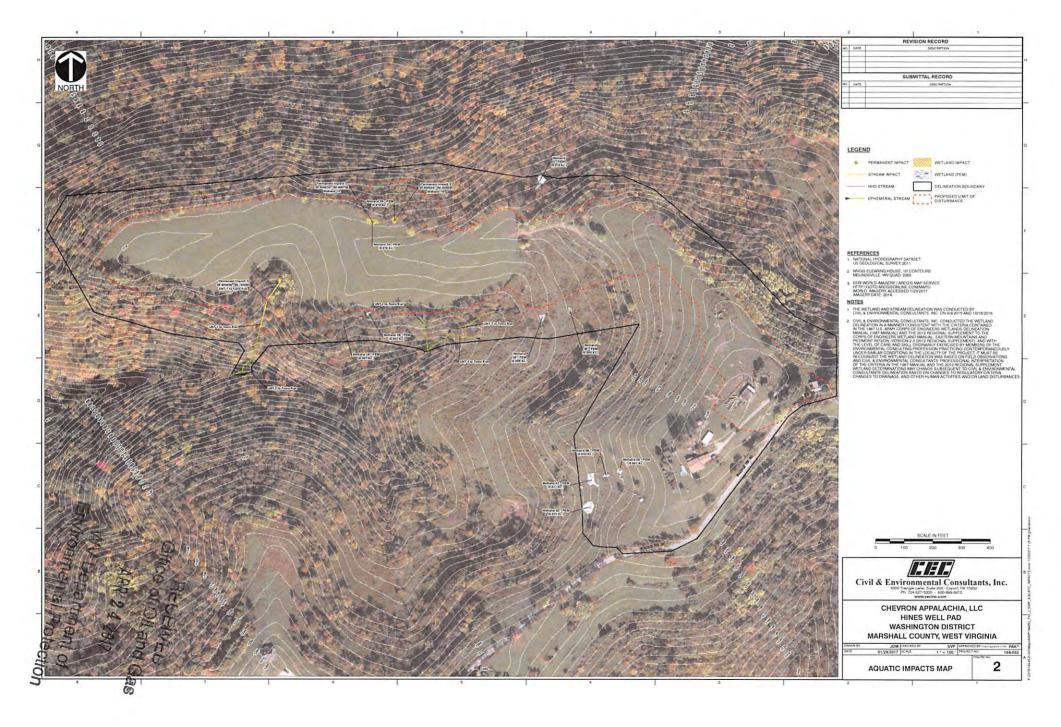
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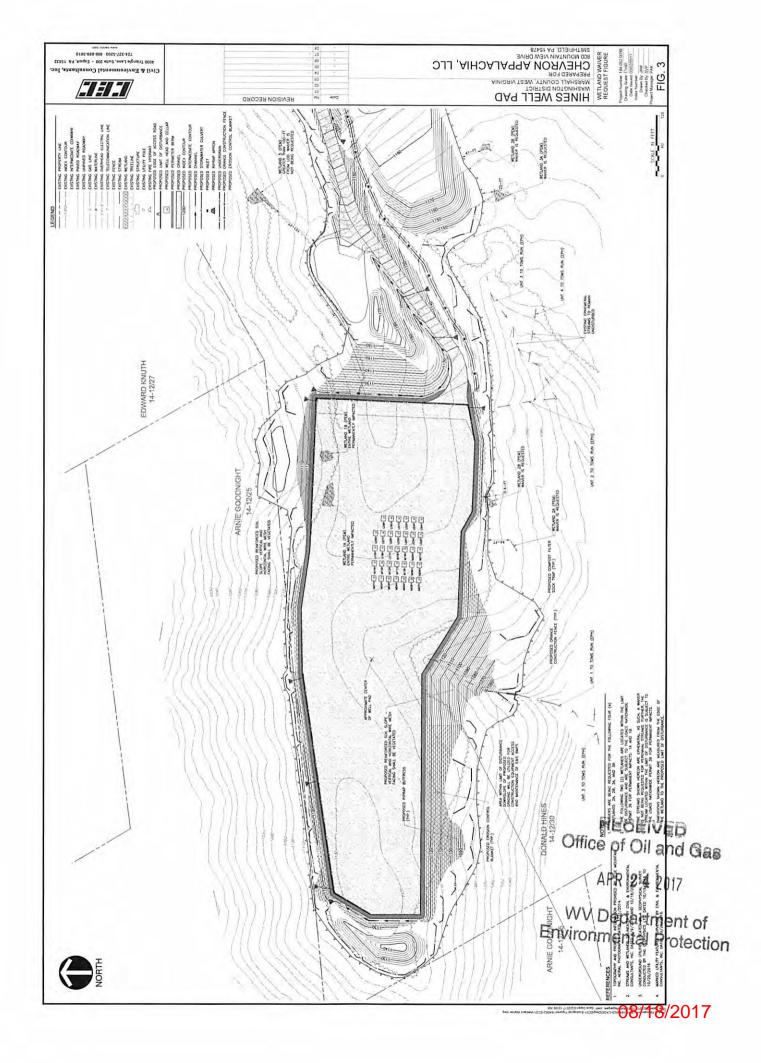
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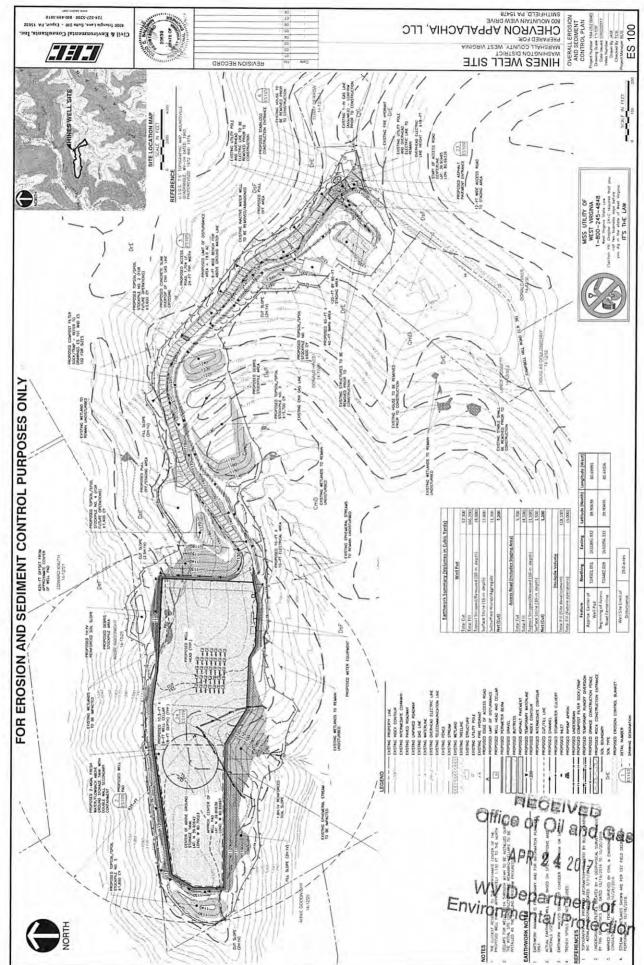


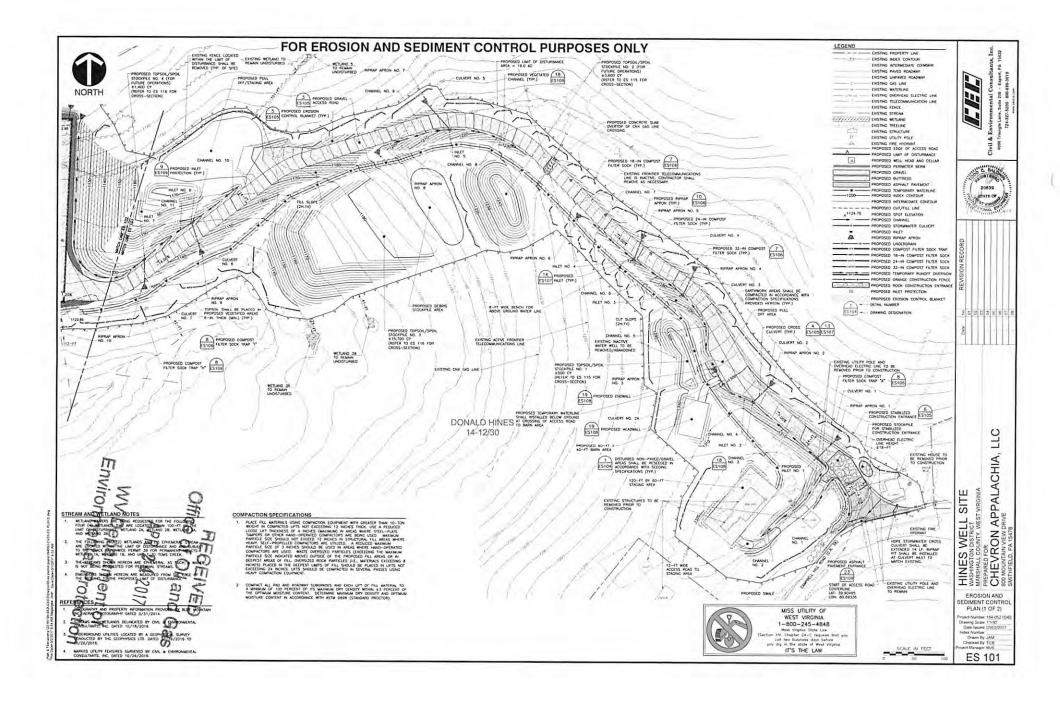
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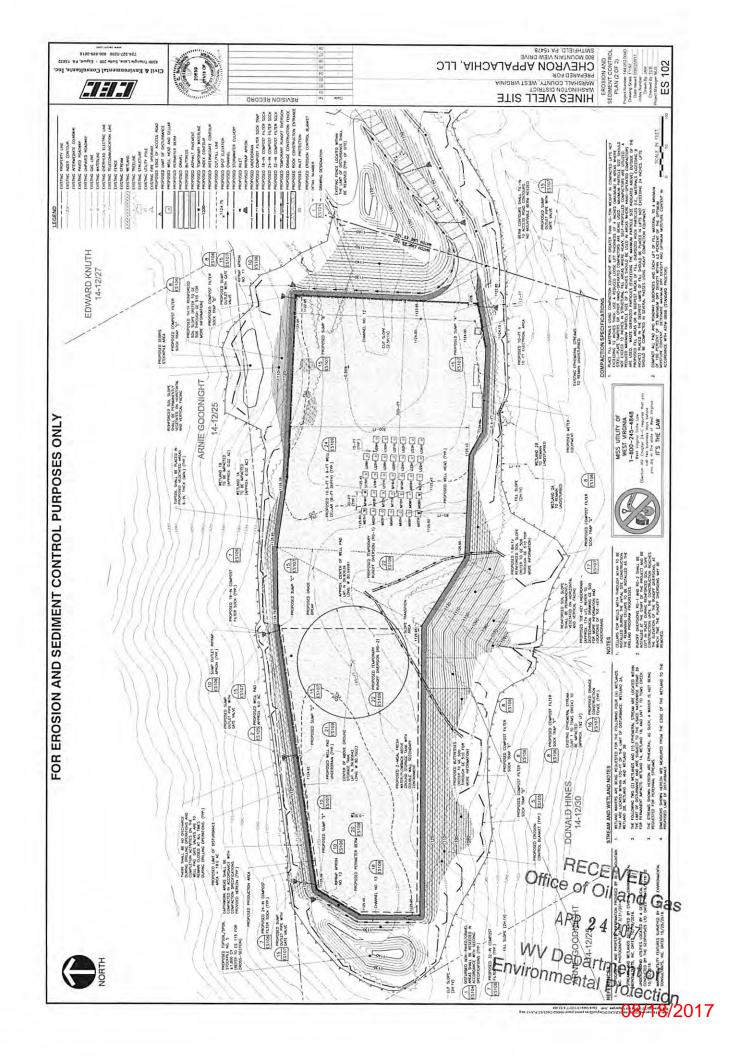
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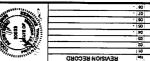
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TEMPORARY SEEDING SPECIFICATIONS

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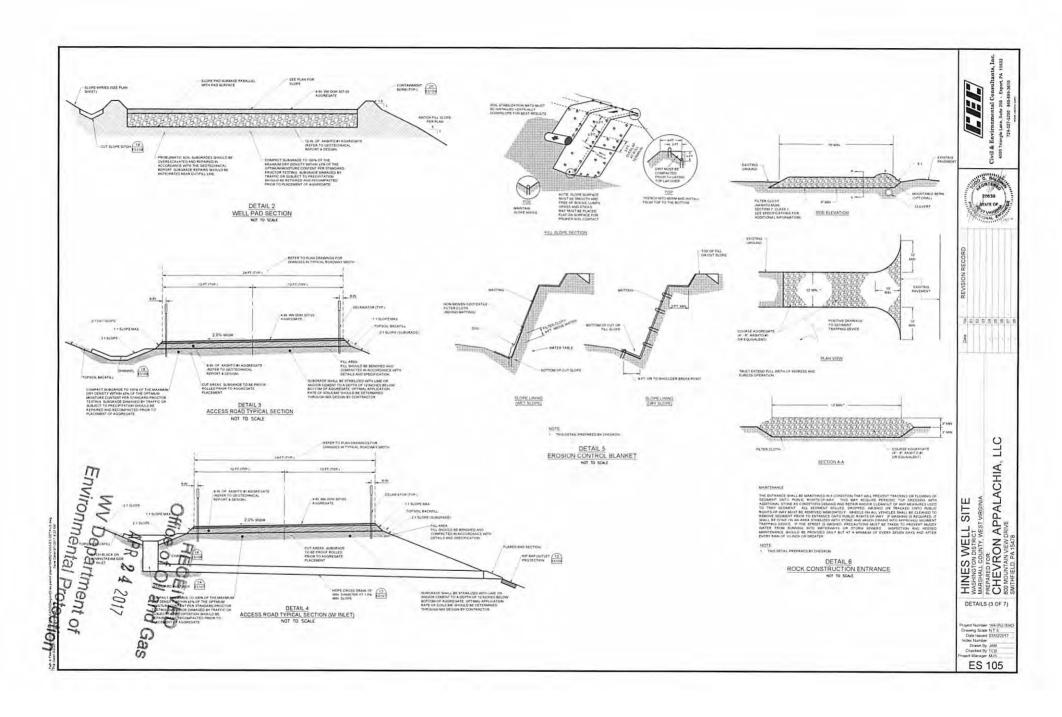
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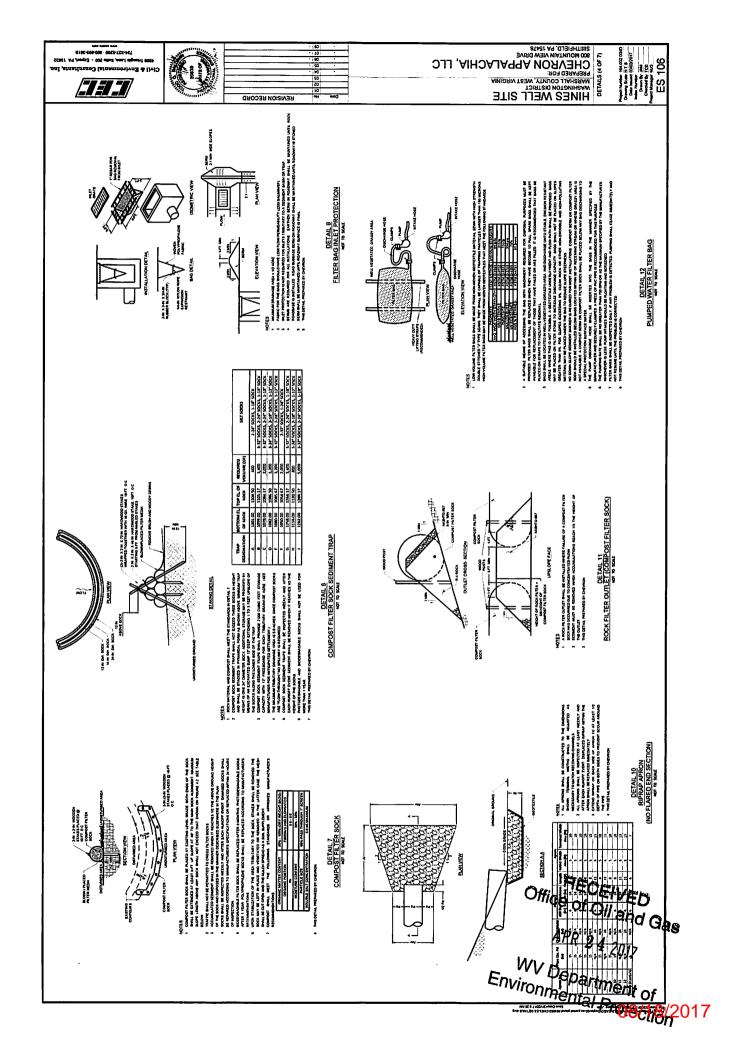
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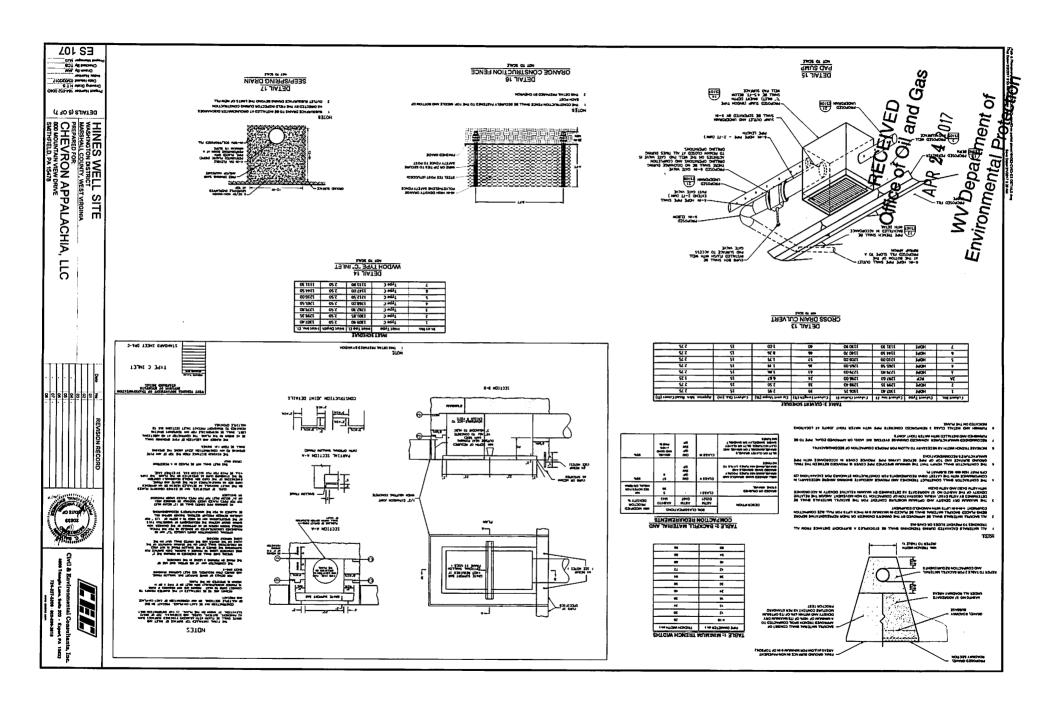
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WV Department of

Environmental Protection 17







Civil & Environmental Consultants, Inc.



Project Number 164 c03 0000 Daving State N.T.S. Daving States N.T.S. Daving States N.T.S. Daving States Daving Number 164 c03 0000 Daving Number 164 c03 0000 Daving Number 165 0000 Da

HINES WELL SITE

AMERING TO BE SERVICE

CHEVER ON APPALACHIA, LLC

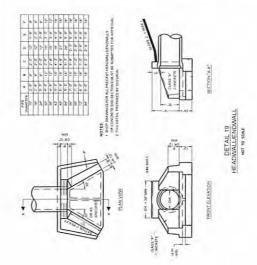
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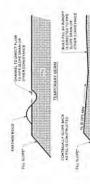
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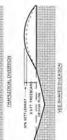
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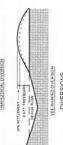
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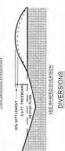
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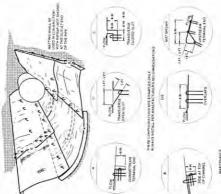


TEMPORARY FILL DIVERSIONS



(m) 23 (m)	3	.2	7	2	7	2	3	3	2	2	2	2	
Channel Depth (ft	1.5	-13	1.5	13	1.8	1.5	1.5	3.5	1.5	1.5	1.5	1.5	
Top Wdth	140	86	100	160	80	200	100	. 8	99	9	160	100	
Sottom Wath (ft)	2	3	2	2	1	2	2	2	2	2	3	2	ĺ
Max. Mupe (%)	9.3	5.0	7.0	2.0	140	140	14.0	14.0	24.0	14.0	14.0	14.0	
Min. Stope (%)	1.0	DE	20	7.0	7.0	14.0	140	14.0	14.0	14.0	14.0	0.5	
Length (ft)	162	141	140	500	144	100	111	136	133	300	100	565	
Channel	1.	2	3	4	eA.	9	7	.8	4	10	11	12	

	9	100	100	8	
	2	3	2	7	
200	140	14.0	14.0	- 0.5	
0.07	14.0	14.0	0.5	0.5	av Critivisco
444	100	100	565	177	THIS DETAIL FREE AND BY
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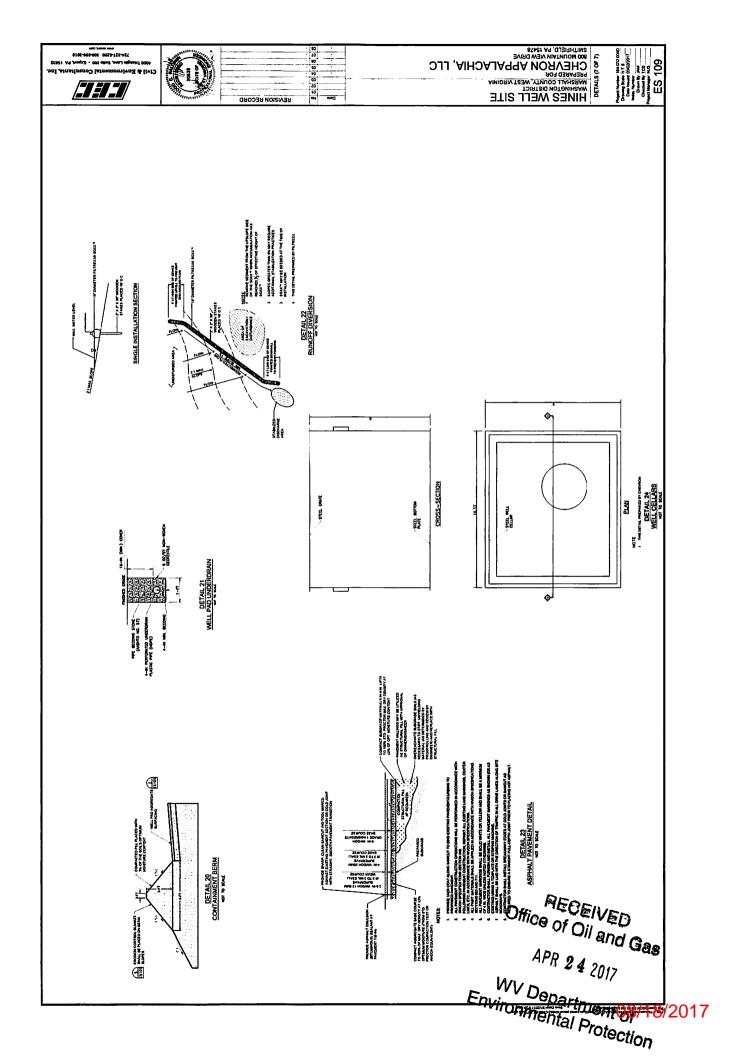


Office of Oil and Gas

APR 24 2017

WV Department of

Environmental Project 108/018/2017



ATTACHMENT D USACE NATIONWIDE PERMIT 39 APPLICATION



U.S. ARMY CORPS OF ENGINEERS APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

33 CFR 325. The proponent agency is CECW-CO-R.

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

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

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

urat is not completed in full will be				The proposed activity. For application	
	(ITEMS 1 THRU 4 TO	BE FILLED BY THE CORP	'S)		
1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED		4. DATE APPLICATION COMPLETE	
	(ITEMS BELOW TO E	BE FILLED BY APPLICAN	 n		
5. APPLICANT'S NAME			•	ND TITLE (agent is not required)	
First - Jenny Middle -	Last - Hayes	First - Katie Middle - L Last - Moberg			
Company - Chevron Appalachia	, LLC	Company - Civil & E	nvironmenta		
E-mail Address - jhayes@chevron	1	Company - Civil & Environmental Consultants, Inc. E-mail Address - kmoberg@cecinc.com			
6. APPLICANT'S ADDRESS:	9. AGENT'S ADDRESS	-	сош		
Address- 800 Mountain View D	rive				
City - Smithfield State -	PA Zip - 15478 Country - US	Address- 4000 Triangle Lane, Suite 200			
7. APPLICANT'S PHONE NOs. W/A	, to the country ou	City - Export	State - P	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
a. Residence b. Busine		10. AGENTS PHONE N	Os. w/AREA (CODE	
724-564	• • • • • • • • • • • • • • • • • • • •	a. Residence	b. Business		
		F AUTHORIZATION	724-327-5	200 724-327-5280	
11. I hereby authorize, C	EC Inc. to get in my behalf a				
supplemental information in support o	of this permit application. SIGNATURE OF APPLI	100 1.) <i>4. [4</i> NE	cation and to fumish, upon request,	
	NAME, LOCATION, AND DESCR	IPTION OF PROJECT OR	ACTIVITY		
12. PROJECT NAME OR TITLE (se Hines Well Pad	e instructions)				
 NAME OF WATERBODY, IF KN Refer to Waters Impact Summary 	14. PROJECT STREET ADDRESS (If applicable) Address Campbell Hill Road				
5. LOCATION OF PROJECT alitude: •N 39.906145	Longitude: •W -80.697938	City - Moundsville	Office Sta	RECEIVED Zip- 26041 PR 24 20	
6. OTHER LOCATION DESCRIPTION		L	A	PR 24 2017	
	wnship - Washington District	Range - Mag			
NG FORM 4345, DEC 2014	PREVIOUS	EDITIONS ARE OBSOLET	E.	Ppartment of 08/ pag 2013 Phiar Protection	

From I-470 W, take Exit 2 toward Bethel		
	ehem Drive 0.2 mile, and turn left onto Co Hy	vy 91/1. Drive 0.4 mile, and continue onto 29th S
turn right onto WAY 88 C/Dideases B	s, turn left onto State Rte 2 Alt, and turn left ag	yy 91/1. Drive 0.4 mile, and continue onto 29th Stain onto Roberts Ridge Road. Drive 0.1 mile, an
Road/Waymans Ridge Road Drive 2.2 -	1. Drive 8.2 miles and turn left onto US-250 S.	ain onto Roberts Ridge Road. Drive 0.1 mile, an Drive 2 miles, and turn right onto Campbell Hil
will be on the right.	mies, and turn slight right onto Campbell Hill I	Drive 2 miles, and turn right onto Campbell Hill Road. Drive 0.2 mile, and the entrance to the site
18. Nature of Activity (Description of project, in	clude all features)	
Chevron Appalachia, LLC is proposing to	Construct a new netural manager to the	ainted account my
disturbance is approximately 19 acres and	i includes an active cattle pasture and wooded	ciated access road. The proposed limit of hillslopes. The construction of the well pad will
require permanent impacts to 0.026 acre (of palustrine emergent (PEM) wetlands and 192	2 linear feet of an ephemeral stream.
		•
19. Project Purpose (Describe the reason or pu	rpose of the project, see instructions)	
The purpose of the project is to construct a	a natural gas well pad and access road.	
USE BLOCK	S 20-23 IF DREDGED AND/OR FILL MATERIAL IS	TO BE DISCHARGED
20. Reason(s) for Discharge		TO DE DISCIANGED
The construction of the facility will require	the placement of fill material into one suppose	della de la companya
The construction of the facility will require wetland. A second PEM wetland will be e	the placement of fill material into one unname xcavated. These permanent impacts are associ	ed tributary (UNT) to Toms Run and one PEM
The construction of the facility will require wetland. A second PEM wetland will be e	e the placement of fill material into one unname xcavated. These permanent impacts are associ	ed tributary (UNT) to Toms Run and one PEM ated with grading activities for construction of the
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The construction of the facility will require wetland. A second PEM wetland will be ewell pad. 11. Type(s) of Material Being Discharged and the Type Amount in Cubic Yards 13. CY of earthen material into wetlands 14. Surface Area in Acres of Wetlands or Other Wards 15. Surface Area in Acres of Wetlands or Other Wards 16. On the Wetlands or Other Wards 17. Surface Area in Acres of Wetlands or Other Wards 18. Surface Area in Acres of Wetlands or Other Wards 18. Surface Area in Acres of PEM wetlands 18. Surface Area in Acres of PEM wetlands	e Amount of Each Type in Cubic Yards: Type Amount in Cubic Yards 500 CY of earthen material into streams Vaters Filled (see instructions)	Type Amount in Cubic Yards N/A
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The construction of the facility will require wetland. A second PEM wetland will be ewell pad. 11. Type(s) of Material Being Discharged and the Type Amount in Cubic Yards 12. Surface Area in Acres of Wetlands or Other Wards 13. Surface Area in Acres of Wetlands or Other Wards 14. Type(s) of Material Being Discharged and the Type 15. Surface Area in Acres of Wetlands or Other Wards 16. Surface Area in Acres of Wetlands or Other Wards 17. Surface Area in Acres of Wetlands or Other Wards 18. Surface Area in Acres of Wetlands 18. Oescription of Avoidance, Minimization, and Other on analyzed numerous on-site configuration in a surface of the further textends in in in in its surface of the further textends in in in its surface of the further textends in in in its surface of the further textends in in its surface of the further textends in its surface of the fur	Amount of Each Type in Cubic Yards: Type Amount in Cubic Yards 500 CY of earthen material into streams Vaters Filled (see instructions) Compensation (see instructions) Inations for the siting of the facility, and the pro-	Type Amount in Cubic Yards N/A Office Of Oi/ alfordwhich
The construction of the facility will require wetland. A second PEM wetland will be ewell pad. 11. Type(s) of Material Being Discharged and the Type Amount in Cubic Yards 12. Surface Area in Acres of Wetlands or Other Wards 13. Surface Area in Acres of Wetlands or Other Wards 14. Type(s) of Material Being Discharged and the Type 15. Surface Area in Acres of Wetlands or Other Wards 16. Surface Area in Acres of Wetlands or Other Wards 17. Surface Area in Acres of Wetlands or Other Wards 18. Surface Area in Acres of Wetlands 18. Oescription of Avoidance, Minimization, and Other on analyzed numerous on-site configuration in a surface of the further textends in in in in its surface of the further textends in in in its surface of the further textends in in in its surface of the further textends in in its surface of the further textends in its surface of the fur	Amount of Each Type in Cubic Yards: Type Amount in Cubic Yards 500 CY of earthen material into streams Vaters Filled (see instructions) Compensation (see instructions) Inations for the siting of the facility, and the pro-	Type Amount in Cubic Yards N/A Office Of Oi/ alfordwhich
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The construction of the facility will require wetland. A second PEM wetland will be ewell pad. 11. Type(s) of Material Being Discharged and the Type Amount in Cubic Yards 13. Cy of earthen material into wetlands 14. Surface Area in Acres of Wetlands or Other Wards 15. Surface Area in Acres of Wetlands or Other Wards 16. One of PEM wetlands 17. One of PEM wetlands 18. Description of Avoidance, Minimization, and Other on analyzed numerous on-site configuration in the further textent and in the further textent and other on analyzed numerous on-site configuration in the further textent and other on analyzed numerous on-site configuration in the further textent and other on the further textent and other or the further of th	Amount of Each Type in Cubic Yards: Type Amount in Cubic Yards 500 CY of earthen material into streams Vaters Filled (see instructions) Compensation (see instructions) Inations for the siting of the facility, and the pro-	Type Amount in Cubic Yards N/A Office Of Oil

IF YES, DESCRIBE THE COMPLETED WORK

OKAN Portion of the Work Already Complete? Thes

€ to € ege q

47	0	5	4	0	1	9	3	2
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API NO. 47	
OPERATOR WELL	NO. Hines M10H
Well Pad Name:	Hines

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

palachia, LLC	49449935	Marshall	Washing	Moundsville, WV 7
	Operator ID	County	District	Quadrangle
nes M10H	Well Pac	d Name: Hines	·	
Donald Hines and War	Public Roa	ad Access: Rou	ite 38/Cam	npbell Hill Road
1125'	Elevation, proposed	post-construction	on: 1125'	
Oil	Und	erground Storag	ge	
				<u>-</u>
	Deep			
izontal X			Ç	N 3/26/17
), Depth(s), And 64 psi/ft	ticipated Thickness a	- and Expected Pr	•	
h: 6260				
epth: Marcell	us			
epth: 14189		4>		
ngth: 7289		<u> </u>	7 ~	
trata Depths:	360' GL		010	
Water Depths:	1.5 mi radius offset	wells, freshwate	r wells, and	freshwater base level
ths: <u>840', 162</u>	0', and 1961' GL			
pths: 360' and	l 635' GL			
ble Void (coal	mine, karst, other):	NA - solid coal	anticipate	ed
	\	No		
Name: Irel	and Mine			
Depth: 63	5' GL		RE	GEIVED
Seam: Pit	sburgh Coal		Office o	f Oil and Gas
Owner: Mu	rray Energy Corpor	ration	APR	
	Donald Hines and War 1125' Oil Illow X izontal X Depth(s), And 64 psi/ft h: 6260 epth: Marcell epth: 14189 rata Depths: Water Depths: Water Depths: Hs: 840', 1620 pths: 360' and ble Void (coal incontain coal sean active mines Name: Irel Depth: 638 Seam: Pitt	Operator ID nes M10H Well Pa Donald Hines and Wanda L. Hines Public Roa 1125' Elevation, proposed Oil Und Illow X Deep izontal X O, Depth(s), Anticipated Thickness and 64 psi/ft h: 6260 epth: Marcellus epth: 14189 mgth: 7289 trata Depths: 360' GL Water Depths: 1.5 mi radius offset etchs: 840', 1620', and 1961' GL pths: 360' and 635' GL ble Void (coal mine, karst, other): contain coal seams an active mine? Yes X Name: Ireland Mine Depth: 635' GL Seam: Pittsburgh Coal	Operator ID County Mell Pad Name: Hines Donald Hines and Wanda L. Hines Public Road Access: Rou 1125' Elevation, proposed post-construction Oil Underground Storage Illow X Deep izontal X O, Depth(s), Anticipated Thickness and Expected Profession of the properties of the profession of the pro	Operator ID County District Well Pad Name: Hines Donald Hines and Wanda L. Hines Public Road Access: Route 38/Cam 1125' Elevation, proposed post-construction: 1125' Oil Underground Storage Illow X Deep izontal X O, Depth(s), Anticipated Thickness and Expected Pressure(s): 64 psi/ft n: 6260 epth: Marcellus epth: 14189 frata Depths: 1.5 mi radius offset wells, freshwater wells, and this: 840', 1620', and 1961' GL pths: 360' and 635' GL ble Void (coal mine, karst, other): NA - solid coal anticipate contain coal seams an active mine? Yes X No Name: Ireland Mine Depth: Seam: Pittsburgh Coal Office o

WV Department of Environmental Protection

WW-6B	
(04/15)	

API NO. 47	
OPERATOR WELL NO.	Hines M10H
Well Pad Name: Hines	

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New			60	60	CTS
Fresh Water	13.375	New	J-55	54.5	410	410	CTS
Coal							
Intermediate	9.625	New	L-80	40	1,858	1,858	CTS
Production	5.50	New	P110	20	14,189	14,189	2,358
Tubing							
Liners							

JN 3/26/17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26					
Fresh Water	13.375	17.5	0.38	2730	1911	Class A	1.2
Coal			-				
Intermediate	9.625	12.375 & 12.25	0.395	5750	2768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14360	9975	Class A, G, or H	1.25
Tubing							
Liners		-					
					47057	0	
			PACKEI	<u>RS</u>		* 0	
V: 1.					1		

PACKERS

Kind:			
Sizes:			DECE
Depths Set:		0	RECEIVED ffice of Oil and Gas

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WV Department of **Environmental Protection**

WW-6E	3
(10/14))

API NO. 47	
OPERATOR WELL	NO. Hines M10H
Well Pad Name:	Hines

JN 3/26/17

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 6,260 feet. Drill horizontal leg.

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

18,762 bbl fluid - 1,000,000 lbm sand/stage - 9,400 anticipated max psi - 100 bpm anticipated max rate

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 19.0
- 10.3 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 it over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 its over coupling; Production String; (1) centralizer every it in the lateral and curve & (1) every other joint from KOP 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 intermediate will contain class A cement, 3% CaCl2, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A. G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

Page 3 of 3 08/18/2017

HINES PAD CEMENT ADDITIVES

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

4705101000

					Hines	M10	Н		
Washington Twp, Marst	hall Co, WV		T				- •	Ground Level Elev. (ft above SL):	1,120
DRILLING FLUID /	CENTRALIZER	CASING SIZE /	DEP	TH I	WELLHEAD DESIGN		v. 5		
BIT TYPE / TFA	PROGRAM	FORMATION	MD (FT)	TVD (FT)	WELLREAD DESIGN	s	DLE ZE N)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger	2 Bowspring per Ji			4	INC AZM	1		Conductor 20" API 5L	Grout to Surface
		20" Conductor	60	60		N.	8	Minimum 40 ft from GL or at lo	ast 10 ft into bedrock
	Bow Spring: (1) on shoe track w' stop colar & (1) per ji over coupling to surface							Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (It Strength 1,000 lbs) 853	<u>Surface Blend (Class A)</u> Cernent to Surface
		13-3/8" Casing	410	410	The state of the s	11	·.5	Minimum 50 ft past deepest	known fresh water
	Bow Spring: (1) on shoe track w' stop collar & (1) per 3 jts over coupling							Intermediate Casing 9-5/8" 40# L-80 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5.750 Collapse (psi) 3,080 Yield (Ji Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
<u> </u>	Bow Spring: (1) per every other it over coupling	9-5/3" Casing	1,858	1,858		12.:		<u>Production Casing</u> 5-1/2" 20# P-110, 0.361" Wali	Production Lead Sturry Cernent to 500' below 9-5/8' shoe
	SpiraGlider or Centek: (1) per jt of csg to KOP							Coupting OD (in) 6.300 ID (in) 4.776 Drift ID (in) 4.763 Burst (psi) 14.360 Collapse (psi) 12.090 Yield (Ji Strength 1,000 lbs) 729	
							d d		
								Ource 0	GERMENT IN Sturry FOII and Gas 24 2017
Non-Conservation	Float Equip. Float Equip.	5-1/2" Casing	12,877 - 20,778			8.	5 - 5	WV Do	partment of ntal Protection

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-00860	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.908767	-80.686817	840'	Pittsburgh Seam	None
47-051-01263	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Active	39.892007	-80.681121	Unknown	Unknown	None 5
17-051-00554	Kentucky Central & Co.	Unknown	Plugged	39.888303	-80.677210	1441'	Pottsville Q >	None O to
47-051-01854	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909336	-80.691893	6317	Marcellus 3 6	Done & to
47-051-01856	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909383	-80.691856	6317'	Marcellus Wood	None a
17-051-01857	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909430	-80.691819	6317'	Ilviarcellus III -	Noner 🛱
47-051-01858	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909477	-80.691782	6317'	Marcellus To	None
							Office	WV Environm

API Number 47 -	÷
Operator's Well No. Hi	nes M10H

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) Middle Grave Creek - Grave Creek	Quadrangle Moundsville, WV 7.5'
Do you anticipate using more than 5,000 bbls of water to comple	ete the proposed well work? Yes 🗸 No
Will a pit be used? Yes ☐ No ✓	
If so, please describe anticipated pit waste:	4705101939
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
	No II so, what hill.?
Proposed Disposal Method For Treated Wastes:	
Land Application (if selected provide	
Underground Injection (UIC Permit Reuse (at API Number at next anticipated	
Off Site Disposal (Supply form WW	
Other (Explain	-9 for disposariocation)
5,101 (54,1111)	~
Will closed loop systembe used? If so, describe: Yes, we will be	e utilizing multiple open/closed top tanks
Drilling medium anticipated for this well (vertical and horizonta	
-If oil based, what type? Synthetic, petroleum, etc. Syn	
Additives to be used in drilling medium? barite, fluid loss, emulsifie	ers, rheological control
Drill cuttings disposal method? Leave in pit, landfill, removed of	offsite, etc. removed offsite
-If left in pit and plan to solidify what medium will be u	used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Arden Landfill	#100172, South Hills Landfill #100592, Short Creek Landfill #WV0109517
	as of any load of drill cuttings or associated waste rejected at any
where it was properly disposed.	within 24 hours of rejection and the permittee shall also disclose
mere it was properly disposed.	
I certify that I understand and agree to the terms and co	onditions of the GENERAL WATER POLLUTION PERMIT issued
	inia Department of Environmental Protection. I understand that the
그렇게 그렇게 가게 하게 하게 되었다. 그렇게 하게 되었다면 이 아이들이 되었다면 하게 되었다면 하게 되었다면 하게 되었다. 그렇게 되었다면 하다 그 때문에 되었다.	ny term or condition of the general permit and/or other applicable law
or regulation can lead to enforcement action. L 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 n	ny inquiry of those individuals immediately responsible for o btaining
	e, and complete. I am aware that there are significant penalties for
submitting false information, including the possibility of fine or	imprisonment.
Company Official Signature	ry tars
Company Official (Typed Name) Jenny Hayes	REGEIVED
Company Official Title Permitting Team Lead	Office of Oil and Gas
Company Official Title	Gas
1016	APR 24 2017
Subscribed and sworn before me this day of	110001 , 20 / COMMONWEALTH OF PENNSYLVAN
Kristen Brooks	Notary Public Prosteh Brooks, Octary Public
0 -1 0 0010	TO THE TIME STITUTE BOYES FAYETE County
My commission expires Sept 2, 2018	My Commission Expirés Sept. 2, 2018 MEMBER, PENNSYLVEN A 38 12 ON 107 NOTAI

Proposed Revegetation Treatment: Acres Disturb	bed 11.6 acres Prevegetation pH Per soils testing report
Lime 3 Tons/acre or to	correct to pHunless otherwise noted in soils report
Fertilizer type 10-20-20	
Fertilizer amount 300	lbs/acre
Mulch 3, 5 for winter stabilization	Tons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre see attached	Seed Type Ibs/acre see attached
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied (L, W), and area in acres, of the land application a Photocopied section of involved 7.5' topographic Plan Approved by: Comments:	sheet.
Title: Oil & Cars luss enter	PECEIVED Office of Oil and Ga APR 2 4 2017

			SEED	MIXTURES			
<u>Tem</u>	porary		Perman	ent	· · · · · · · · · · · · · · · · · · ·	Permanent	
Seed Type		lbs/acre	Seed Type	lbs/acre		Seed Type lbs	
Annual Ryegrass	or	50	Non Agricultural Upland		and	Hayfield, Pastureland, and Cropland	
Winter Wheat		75	Tall Fescue	100		Orchard Grass	80
			Perennial Ryegrass	33		Timothy	80
			Ladino Clover	18		Birdsfoot - Trefoil	20
			Birdsfoot - Trefoil	18		Ladino Clover	20
			Red Top	6			

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APR \$ 4 2017

WV Department of Environmental Protection

Office of City

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Chevron

Appalachian LLC
WV Well Site Safety Plan

Pad: Hines Pad A Well # M05H

JN 3/26/17

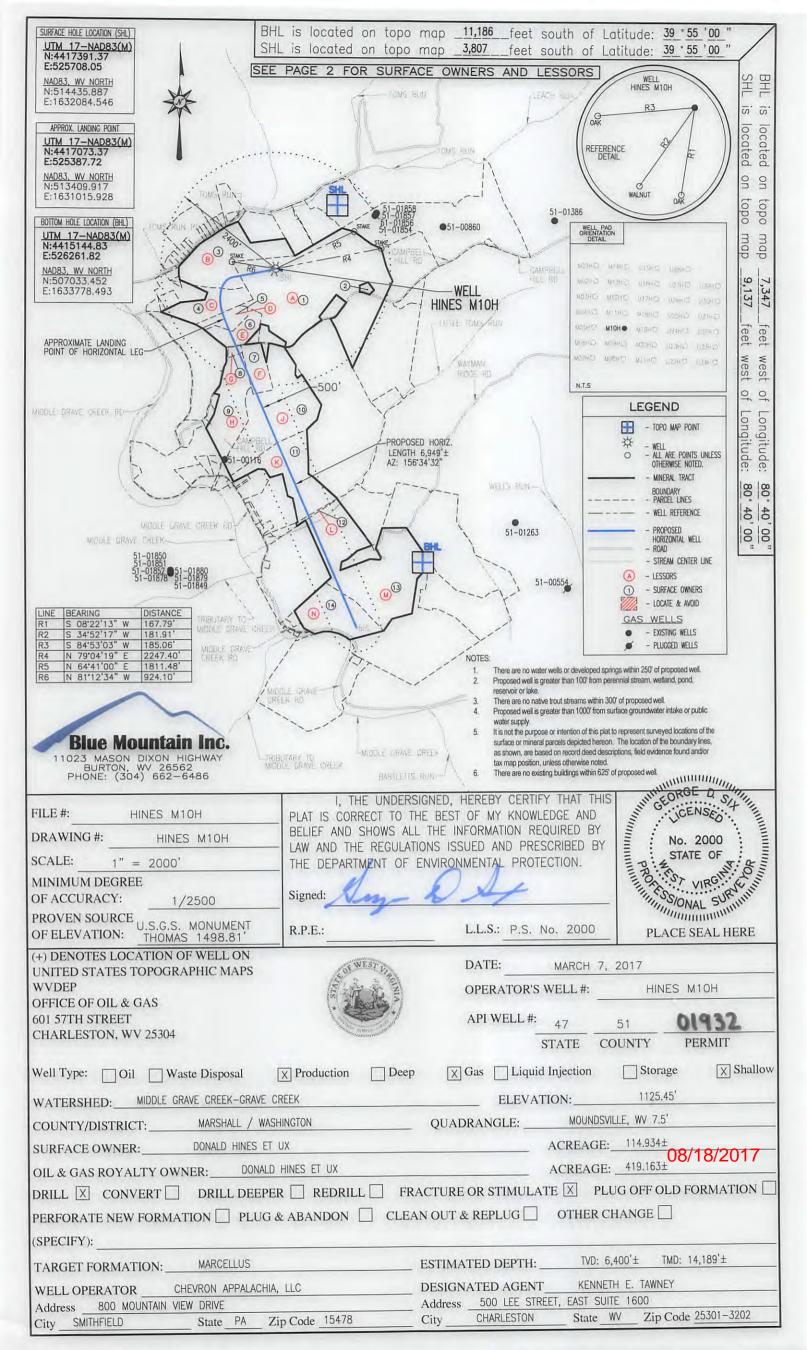
1256 Campbell Hill Road Moundsville, WV 26041 Washington District Marshall County, WV

Access Point – [39.904947°N, 80.693363°W] Well Site – [39.906387°N, 80.699914°W] Marshall County, West Virginia

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Office of Oil and Gas

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WV Department of Environmental Protection



HINES M₁₀H PAGE 2 OF 2

	LESSOR	DIST-TM/PAR			
4	DONALD HINES ET UX	14-12/30			
3	WILLIAM F. RULONG	14-12/25			
	CHARLES BURTON RULONG	100000000000000000000000000000000000000			
	HAROLD DEAN FURBEE				
	DALE FRANCIS FURBEE	1			
	ROBERT L. RULONG	1			
	DRU ELLA FOX	1			
	JOHN T. MORRIS	1			
	LYNN ELLEN COOK	1			
	ETHEL M. RULONG				
	TERRY LEE RULONG				
	RICHARD J. RULONG				
	TRACEY LYNN RULONG				
	GARY MORRISON				
	ELIZABETH Y. MORRISON				
	ROGER GLEN RULONG				
	TRUSTEES LIMESTONE PRESBYTERIAN CHURCH	-			
	CLYDE DOWLER ET UX	-			
	LAURA J. REYES	1			
,	ARNIE N. GOODNIGHT ET UX	14-12/66			
2	MORGAN T. LACEFIELD	14-12/30.5			
)	MORGAN T. LACEFIELD	14-12/30.1			
		14-12/33.2			
-	DONALD M. BOSTON ET AL				
G	ELIHU B. SERDA ET UX	14-12/45.1			
+	SHANNETTE OMEAR	14-12/45			
	SANDRA K. FULLER				
	DOUGLAS L. PARSONS				
	DONALD M. BOSTON ET UX				
	DAVID D. PARSONS ET UX	4			
	JAMES CRAIG PARSONS	-			
	ROBERT B. FULLER TEST TRUSTEE				
	GRACE I. SCARBOROUGH				
J	SHANNETTE OMEAR	14-12/33			
	SANDRA K. FULLER				
	DOUGLAS L. PARSONS				
	DONALD M. BOSTON ET UX				
	DAVID D. PARSONS ET UX				
	JAMES CRAIG PARSONS				
	ROBERT B. FULLER TEST TRUSTEE				
	GRACE I. SCARBOROUGH	The second			
K	SHANNETTE OMEAR	14-12/34			
	SANDRA K. FULLER				
	DOUGLAS L. PARSONS				
	DONALD M. BOSTON ET UX				
	DAVID D. PARSONS ET UX				
	JAMES CRAIG PARSONS				
	ROBERT B. FULLER TEST TRUSTEE				
	GRACE I. SCARBOROUGH	I a second			
L	RICHARD C. YOHO ET UX	14-13/41			
M	TODD R. KETTLER ET UX	14-13/2			
		14-13/22			

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2	TERRY L. DERROW ET UX	14-12/30.3
3	IRENE D. MILLER	14-12/25
4	ARNIE N. GOODNIGHT ET UX	14-12/66
5	MORGAN T. LACEFIELD	14-12/30.5
6	MORGAN LACEFIELD	14-12/30.1
7	DONALD M. BOSTON ET UX - LIFE	14-12/33.2
	ELIHU B. & MAILA L. SERDA	14-12/45.1
8	HENRY T. PARSONS EST ET AL	14-12/45
10	HENRY T. PARSONS EST ET AL	14-12/33
11	HENRY T. PARSONS EST ET AL	14-12/34
12	RICHARD C. & CARLA V. YOHO	14-13/41
13	TODD & DAWN R. KETTLER	14-13/2
14	EVELYN RUTH JOHNSON	14-13/22

SURFACE HOLE LOCATION (SHL)

UTM 17—NADB3(M)
N:4417391.37
E:525708.05

NAD83, WV NORTH N:514435.887 E:1632084.546

APPROX. LANDING POINT UTM 17-NAD83(M) N:4417073.37 E:525387.72

NAD83, WV NORTH N:513409.917 E:1631015.928

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M) N:4415144.83 E:526261.82 NAD83, WV NORTH N:507033.452 E:1633778.493

08/18/2017



INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

see attached

4705101932

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 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 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 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 possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the possibility of the need for permits and or permits and the possibility of the need for permits and the need for per

- 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

APR 24 2017

WV Department of Environmental Protection

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:

Its: F

Permiting Team Lead

Page 1 of <u>3</u>

HINES M10H

				HINES IV		,		<u> </u>	
Plat ID	Lessor		Lessee	Royalty	Book/Page		ment #1	Assignment #2	Assignment #3
14-0012-0030-0000-0000	HINES DONALD ET UX		CHEVRON U.S.A. INC.	0.160	774/290		N/A	N/A	N/A
	RULONG WILLIAM F		CHEVRON U.S.A. INC.	0.140	820/241		N/A	N/A	N/A
	RULONG CHARLES BURTON		CHEVRON U.S.A. INC.	0.140	820/269		N/A	N/A	N/A
	FURBEE HAROLD DEAN		CHEVRON U.S.A. INC.	0.140	820/325		N/A	N/A	N/A
	FURBEE DALE FRANCIS		CHEVRON U.S.A. INC.	0.140	821/219		N/A	N/A	N/A
	RULONG ROBERT L		CHEVRON U.S.A. INC.	0.140	821/212		N/A	N/A	N/A
	FOX DRU ELLA		CHEVRON U.S.A. INC.	0.140	820/313		N/A	N/A	N/A
	MORRIS JOHN T		CHEVRON U.S.A. INC.	0.140	820/344		N/A	N/A	N/A
	COOK LYNN ELLEN SFX		CHEVRON U.S.A. INC.	0.140	828/430		N/A	N/A	N/A
14-0012-0025-0000-0000	RULONG ETHEL M SFX		CHEVRON U.S.A. INC.	0.140	831/396		N/A	N/A	N/A
14-0012-0023-0000 0000	. RULONG TERRY LEE		CHEVRON U.S.A. INC.	0.140	831/389		N/A	N/A	N/A
	RULONG RICHARD J		CHEVRON U.S.A. INC.	0.140	831/518		N/A	N/A	N/A
	RULONG TRACEY LYNN		CHEVRON U.S.A. INC.	0.140	838/389		N/A	N/A	N/A
	MORRISON GARY		CHEVRON U.S.A. INC.	0.160	847/71		N/A	N/A	N/A
	MORRISON ELIZABETH Y		CHEVRON U.S.A. INC.	0.160	847/68		N/A	N/A	N/A
	RULONG ROGER GLEN SFX		CHEVRON U.S.A. INC.	0.180	848/308		N/A	N/A	N/A
	TRUSTES LIMESTONE PRESBYTERIAN CHURCH		CHEVRON U.S.A. INC.	0.180	854/86		N/A	N/A	N/A
	DOWLER CLYDE ET UX		CHEVRON U.S.A. INC.	0.180	868/72		N/A	N/A	N/A
	REYES LAURA J		CHEVRON U.S.A. INC.	0.160	882/392	1	N/A	N/A	N/A
14-0012-0066-0000-0000	GOODNIGHT ARNIE N ET UX		CHEVRON U.S.A. INC.	0.160	831/445		N/A	N/A	N/A
14-0012-0030-0005-0000	LACEFIELD MORGAN T		CHEVRON U.S.A. INC.	0.180	853/055		N/A	N/A	N/A
14-0012-0030-0001-0000	LACEFIELD MORGAN T		CHEVRON U.S.A. INC.	0.180	853/055		N/A	N/A	N/A
14-0012-0033-0002-0000	BOSTON DONALD M ET AL		CHEVRON U.S.A. INC.	0.180	911/500		N/A	N/A	N/A
14-0012-0045-0001-0000	SERDA ELIHU B ET UX		CHEVRON U.S.A. INC.	0.180	865/010	1	N/A	N/A	N/A
	OMEAR SHANNETTE		CHEVRON U.S.A. INC.	0.180	837/297		N/A	N/A	N/A
	FULLER SANDRA K		CHEVRON U.S.A. INC.	0.180	837/182	er. 3 1	N/A	N/A	N/A
	PARSONS DOUGLAS L		CHEVRON U.S.A. INC.	0.180	837/279	ا آ	N/A	N/A	N/A
14-0012-0045-0000-0000	BOSTON DONALD M ET UX		CHEVRON U.S.A. INC.	0.180	837/287	_	N/A	N/A	N/A
14-0012-0043-0000-0000	PARSONS DAVID D ET UX		CHEVRON U.S.A. INC.	0.180	837/172	ে ।	N/A	N/A	N/A
	PARSONS JAMES CRAIG		CHEVRON U.S.A. INC.	0.180	837/177		N/A	N/A	N/A
	FULLER ROBERT B TEST TRSTE SCARBOROUGH GRACE I OMEAR SHANNETTE FULLER SANDRA K PARSONS DOUGLAS L BOSTON DONALD M ET UX	<u> </u>	CHEVRON S.A. INC.	0.180	837/187		N/A	N/A	N/A
	SCARBOROUGH GRACE I	\{\}	CHEVRO	0.180	864/20		N/A	N/A	N/A
	OMEAR SHANNETTE	; ≤	CHEVRO U.S.A. INC.	0.180	837/297	-3	N/A	N/A	N/A
	FULLER SANDRA K	∇	CHEVRON U. A. INC.	0.180	837/182		N/A	N/A	N/A
	PARSONS DOUGLAS L O	ğ	CHEVRON U.S.A. INC.	0.180	837/279	ं.ख	N/A	N/A	N/A
14-0012-0033-0000-0000	BOSTON DONALD M ET UX	- 22	CHEVROLUSIA. INC.	0.180	837/287	$r_{\odot} = 1$	N/A	N/A	N/A
14-0012-0055-0000-0000			CHEVRONU.SA. INC.	0.180	837/172	٠ ا	N/A	N/A	N/A
	PARSONS JAMES CRAIG	Department	CHEVRONUS INC	0.180	837/177	1	N/A	N/A	N/A
	FULLER ROBERT B TEST TRSTE	크	CHEVRONU.S.A. INC.	0.180	837/187	į.	N/A	N/A	N/A
	SCARBOROUGH GRACE I	잋	CHEVRO U.S.A. INC.	0.180	864/20	1	N/A	N/A	N/A
	PARSONS DAVID DET OX PARSONS JAMES CRAIG FULLER ROBERT B TEST TRSTE SCARBOROUGH GRACE I OMEAR SHANNETTE	· —	CHEVRO U.S.A. INC.	0.180	837/297	1	N/A	N/A	N/A
	Ď	3							

HINES M10H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	FULLER SANDRA K	CHEVRON U.S.A. INC.	0.180	837/182	N/A	N/A	N/A
	PARSONS DOUGLAS L	CHEVRON U.S.A. INC.	0.180	837/279	N/A	N/A	N/A
14-0012-0034-0000-0000	BOSTON DONALD M ET UX	CHEVRON U.S.A. INC.	0.180	837/287	N/A	N/A	N/A
14-0012-0034-0000-0000	PARSONS DAVID D ET UX	CHEVRON U.S.A. INC.	0.180	837/172	N/A	N/A	N/A
	PARSONS JAMES CRAIG	CHEVRON U.S.A. INC.	0.180	837/177	N/A	N/A	N/A
	FULLER ROBERT B TEST TRSTE	CHEVRON U.S.A. INC.	0.180	837/187	N/A	N/A	N/A
	SCARBOROUGH GRACE I	CHEVRON U.S.A. INC.	0.180	864/20	N/A	N/A	N/A
14-0013-0041-0000-0000	YOHO RICHARD C. ET UX	TRIENERGY, INC.	0.180	706/315	24/180	756/332	A1/A
14-0013-0041-0000-0000	TONO RICHARD C. ET UX	TRIENERGY, INC.	0.180	0.180 /00/313	TRIENERGY, INC. to NPAR, LLC	NPAR, LLC to CHEVRON U.S.A. INC.	N/A
14-0013-0002-0000-0000	KETTLER TODD R ET UX	CHEVRON U.S.A. INC.	0.180	868/78	N/A	N/A	N/A
14-0013-0022-0000-0000	JOHNSON THOMAS AND EVELYN	TRIENERGY, INC.	0.160	694/274	23/80 TRIENERGY, INC. to NPAR, LLC	756/332 NPAR, LLC to CHEVRON U.S.A. INC.	N/A

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ARESEIVED
Office of Oil and Gas
APR 2 4 2017
WV Department of
Environmental Protection



April 12, 2017

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

RE: Hines 4H, 5H, 6H, 7H, 8H, 9H, 10H, 11H

To whom it may concern,

This letter shall serve as confirmation of Chevron U.S.A. Inc.'s right to access the minerals under all roads traversed by the above referenced laterals. Please do not hesitate to contact myself, the undersigned, for any additional questions or to request further information.

Sincerely,

Kelly Bass

Land Representative

REGEIVED
Office of Oil and Gas

APR 24 2017

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

Date of Notic	ce Certification: 04/13/2017	API 1	No. 47	
		Oper	ator's Well No. Hine	s M10H
		Well	Pad Name: Hines	
Notice has l	been given:		· · · · · · · · · · · · · · · · · · ·	
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided	the required parties v	with the Notice Forms listed
below for the	tract of land as follows:	-	• •	
State:	West Virginia	UTM NAD 83 Easti	ng: 525708.05	
County:	Marshall	OTM NAD 83 North	ning: 4417391.37	
District:	Washington	Public Road Access:	Route 38/Campb	ell Hill Road
Quadrangle:	Moundsville, WV 7.5'	Generally used farm na	me: Hines	-
Watershed:	Middle Grave Creek - Grave Creek			
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface descriequired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following informations of in subdivisions (1), (2) and (4) ection sixteen of this article; (ii) that arrivey pursuant to subsection (a), se if this article were waived in writing ender proof of and certify to the sec	on: (14) A certificati), subsection (b), see the requirement was ction ten of this arti ng by the surface ov	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require		tice Certification	OOG OFFICE USE
, bened on				ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED E SEISMIC ACTIVITY WAS CON		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	/EY or 🔳 NO PLAT SURVEY W	AS CONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED ENOTICE OF ENTRY FOR PLAT WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	JRFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	r.		☐ RECEIVED
■ 5. PUE	BLIC NOTICE	470510	10 ro	□ RECEIVED
■ 6. NO	TICE OF APPLICATION			☐ RECEIVED
Required A	ttachments:		Offic	REGEIVED OF Oil and Co.

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 the Victorian Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be fitted by affidavit of Protection the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification of Notice is hereby given:

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

Well Operator: Chevron Appalachia, LLC Address: 800 Mountain View Drive By: Smithfield, PA 15478 Its: Permitting Team Lead Facsimile: Telephone:

724-564-3894

Email:

NOTARY SEAL

724-564-3755

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL Kristen Brooks, Notary Public Smithfield Boro, Fayette County My Commission Expires Sept. 2, 2018 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIE

Oil and Gas Privacy Notice:

My Commission Expires

Subscribed and sworn before me this 134 day of 1901, 2017

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

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APR 24 2017

WV Department of Vironmental Drotestics Environmental Protection

WW-6A (9-13)

API NO. 47	
OPERATOR WELL	NO. Hines M10H
Well Pad Name: Hine	es

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 the	an the filing date of permit application.
Date of Notice: <u>3/14/1</u> 7 Date Permit Application Filed: <u>4</u> Notice of:	20 17
PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-1	0(b)
	HOD OF DELIVERY THAT REQUIRES A CIPT OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment or pregistered mail or by any method of delivery that requires a receipt sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located and gas leasehold being developed by the proposed well work, it described in the erosion and sediment control plan submitted pursuapperator or lessee, in the event the tract of land on which the well proposed seams; (4) The owners of record of the surface tract or to well work, if the surface tract is to be used for the placement, consumpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; an proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applicate records of the sheriff required to be maintained pursuant to section be orovision of this article to the contrary, notice to a lien holder is not code R. § 35-8-5.7.a requires, in part, that the operator shall also have purveyor or surface owner subject to notice and water testing water purveyor or surface owner subject to notice and water testing and Ponald Hines and Wanda L Hines [In Surface Owners of the Surface of t	ant may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any t notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
Address:	Name:Address:
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Address: Name: SURFACE OWNER(s) (Impoundments or Pits) Name: Address:	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name:see attached Address: OPERATOR OF ANY NATURAL GAS FOR AFFELLD Name:
SURFACE OWNER(s) (Impoundments or Pits) Name:	*Please attach additional forms if necessary 24 2017

WW-6A Notice of Application Attachment (Hines Pad)

SURFACE OWNER OF WATER WELL AND/OR WATER PURYEOR(S):

Bobby G Baker RD 3 Box 249 Moundsville, WV 26041

Mark G. Grandstaff 762 Toms Run Rd Moundsville, WV 26041

Tobias & Jessica Brown 873 Toms Run Lane Moundsville, WV 26041

Edward D. Knuth 747 Toms Run Lane Moundsville, WV 26041

Morgan Lacefield 77 Bridge St. Plz Moundsville, WV 26041

Gerald Oliver 816 Toms Run Lane Moundsville, WV 26041

Chevron U.S.A. Inc. 800 Mountain View Drive Smithfield, PA 15478

470510103

Office of Oil and Gas

APR 2 4 2017

WV Department of
Environmental Protection 8/2017

W	W	-6A
(8-	-13	(

API NO. 47	
OPERATOR WELL NO.	Hines M10H
Well Pad Name: Hines	

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Activities permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the estricted areas beforenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well parties the action. of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, reports the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells at they relate to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of nonzontal wells of graphing if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to address the items the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to address the items of the property of the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to address the items of the property of the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to address the items of the property of the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to address the items of the property of the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to address the items of the property of the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to address the items of the property of the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require attention to the secretary that the property of the secretary that the property of the secretary that the property of the secretary that the secretary that the secretary of the secret WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Hines M10H Well Pad Name: Hines

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304

RECEIVED
Office of Oil and Gas

Charleston, www 23304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a first pressons qualified to WV Department of Environmental Protection WW-6A (8-13)

API NO. 47-___OPERATOR WELL NO. Hines M10H
Well Pad Name: Hines

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Office of Oil and Gas

APR 24 2017

WV Department of
Environmental Protection 17

WV	V-6A
(8-1	3)

API NO. 47-OPERATOR WELL NO. Hines M10H Well Pad Name: Hines

Notice is	hereby	given	by:
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Well Operator: Chevron Appalachia, LLC Address: 800 Mountain View Drive Telephone: 724-564-3700 Smithfield, PA 15478 Email: Facsimile: 724-564-3894

Oil and Gas Privacy Notice:

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

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL Kristen Brooks, Notary Public Smithfield Boro, Favette County My Commission Expires Sept. 2, 2018 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this	13th day of March 2017
Kristen Bro	Notary Public

Sept. 2,2018. My Commission Expires

4705101032

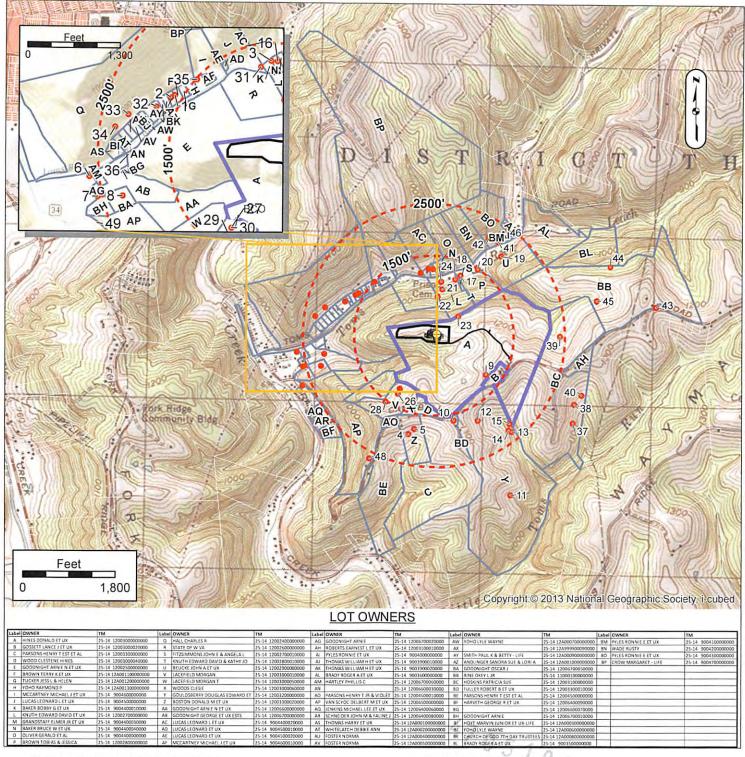
Office of Oil and Gas

APR 2 4 2017

WV Department of
Environmental Protection (08/18/2017)







Surface Owner: DONALD HINES

Oil/Gas Owner: DONALD HINES

Well Operator: CHEVRON APPALACHIA, LLC

Address: 800 MOUNTAIN VIEW DRIVE

SMITHFIELD, PA. 15478

Phone: 724-564-3700

County: MARSHALI

Township: MOUNDSVPCECKY

GROUNDWATER & ENVIRONME

Surveyor: SERVICES, INC

Address: 301 COMMERCE PARK DR

CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267

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





No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	ANDLINGER, SANDRA S. & KORN, LORI A.	Well	724	2315 HANCOCK STREET	304-280-1108
2	ANDLINGER, SANDRA S. (& D. ANDLINGER)	Well	754	2315 HANCOCK STREET	304-280-1108
3	BAKER, BOBBY G.	Well	621	RD 3 BOX 249	304-845-1836
4	BOSTON, DONALD M.	Spring	1,029	1770 CAMPBELL HILL ROAD	304-845-2506
5	BOSTON, DONALD M.	Spring	1,075	1770 CAMPBELL HILL ROAD	304-845-2506
6	GOODNIGHT, ARNIE N.	Well	556	102 GOODNIGHT LANE	304-845-8505
7	GOODNIGHT, ARNIE N.	Well	654	102 GOODNIGHT LANE	304-845-8505
8	GOODNIGHT, OSCAR J.	Well	654	77 GOODNIGHT LANE	304-845-3813
9	GOSSETT, LANCE J.	Spring	1,134	1256 CAMPBELL HILL RD	304-639-4065
10	GOULDSBERRY, DOUGLAS E.	Dug well	1,293*	1584 CAMPBELL HILL RD	304-830-1265
11	GOULDSBERRY, DOUGLAS E.	Spring	1,112*	1584 CAMPBELL HILL RD	304-830-1265
12	GOULDSBERRY, DOUGLAS E.	Spring	1,177*	1584 CAMPBELL HILL RD	304-830-1265
13	GOULDSBERRY, DOUGLAS E.	Spring	1,062*	1584 CAMPBELL HILL RD	304-830-1265
14	GOULDSBERRY, DOUGLAS E.	Stream	1,072*	1584 CAMPBELL HILL RD	304-830-1265
15	GOULDSBERRY, DOUGLAS E.	Stream	1,078*	1584 CAMPBELL HILL RD	304-830-1265





No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
16	GRANDSTAFF, MARK G.	Well	617	762 TOMS RUN RD	304-780-8287
17	BROWN, TOBIAS & JESSICA	Well	769	873 TOMS RUN LANE	304-374-3857
18	KNUTH, EDWARD D	Spring	811	747 TOMS RUN LANE	304-845-7519
19	HARDING, JODI L. & TERRY A.	Spring	752	899 TOMS RUN LANE	304-845-6315
20	HARDING, JODI L. & TERRY A.	Stream	712	899 TOMS RUN LANE	304-845-6315
21	KNUTH, EDWARD D	Spring	747	747 TOMS RUN LANE	304-845-7519
22	KNUTH, EDWARD D	Spring	826	747 TOMS RUN LANE	304-845-7519
23	KNUTH, EDWARD D	Spring	996	747 TOMS RUN LANE	304-845-7519
24	KNUTH, EDWARD D	Well	692	747 TOMS RUN LANE	304-845-7519
25	LACEFIELD, MORGAN	Spring	1,142	77 BRIDGE STREET PLZ	304-639-0727
26	LACEFIELD, MORGAN	Spring	1,195	77 BRIDGE STREET PLZ	304-639-0727
27	LACEFIELD, MORGAN	Spring	1,145	77 BRIDGE STREET PLZ	304-639-0727
28	LACEFIELD, MORGAN	Spring	1,142	77 BRIDGE STREET PLZ	304-639-0727
29	LACEFIELD, MORGAN	Spring	1,195	77 BRIDGE STREET PLZ	304-639-0727
30	LACEFIELD, MORGAN	Spring	1,145	77 BRIDGE STREET PLZ	304-639-0727

No.	SUPPLY COORDINATES	H04M	H05M	H06M	H07M	H08M	H09M	H10M	H11M
16	39°54'35,265" N 80°41'57.447" W	1,289	1,304	1,319	1,334	1,335	1,320	1,305	1,290
17	39°54'34.110" N 80°41'50.506" W	1,297	1,311	1,325	1,339	1,327	1,313	1,299	1,285
18	39°54'33.332" N 80°41'51.777" W	1,185	1,199	1,213	1,227	1,217	1,203	1,189	1,175
19	39°54'37.871" N 80°41'40.362" W	2,056	2,067	2,079	2,091	2,072	2,060	2,048	2,037
20	39°54'35,305" N 80°41'46,201" W	1,571	1,583	1,596	1,609	1,593	1,580	1,567	1,555
21	39°54'31.392" N 80°41'54.974" W	921	935	950	965	960	945	930	915
22	39°54'29.966" N 80°41'56.148" W	762	777	791	806	803	788	773	758
23	39°54'26.226" N 80°41'50.920" W	644	653	662	672	649	639	629	620
24	39°54'32.857" N 80°41'55.287" W	1,061	1,076	1,091	1,106	1,102	1,087	1,072	1,057
25	39°54'09.647" N 80°42'08.715" W	1,564	1,551	1,539	1,526	1,543	1,555	1,568	1,580
26	39°54'11.242" N 80°42'05.723" W	1,305	1,292	1,278	1,265	1,280	1,293	1,306	1,319
27	39°54'12.196" N 80°42'05.270" W	1,203	1,190	1,177	1,164	1,179	1,192	1,205	1,218
28	39°54'09.647" N 80°42'08.715" W	1,564	1,551	1,539	1,526	1,543	1,555	1,568	1,580
29	39°54'11.242" N 80°42'05.723" W	1,305	1,292	1,278	1,265	1,280	1,293	1,306	1,319
30	39°54'12.196" N 80°42'05.270" W	1,203	1,190	1,177	1,164	1,179	1,192	1,205	1,218

Office of Oil and Gas

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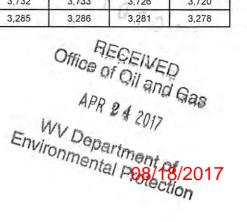
WV Departmental Protection





No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
31	OLIVER, GERALD	Stream	734*	816 TOMS RUN LANE	304-845-7675
32	SCAMELHORN, DENISE	Well	705	432 TOMS RUN LANE	304-810-0336
33	SCAMELHORN, DENISE	Spring	737	432 TOMS RUN LANE	304-810-0336
34	SCAMELHORN, DENISE	Spring	767	432 TOMS RUN LANE	304-810-0336
35	YOHO, RAYMOND P.	Well	726	524 TOMS RUN LANE	304-845-5250
36	GOODNIGHT OSCAR J	Well	642	77 GOODNIGHT LANE MOUNDSVILLE, WV 26041	304-845-3813
37	HOSKINS PATRICIA SUE	Spring	1026	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
38	HOSKINS PATRICIA SUE	Spring	1094	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
39	HOSKINS PATRICIA SUE	Spring	1016	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
40	HOSKINS PATRICIA SUE	Pond	1117	19 CHARLES DRIVE MOUNDSVILLE, WV 26041	304-845-9769
41	PYLES RONNIE E ET UX	Well	895	1056 TOMS RUN LANE MOUNDSVILLE, WV 26041	304-845-2288
42	PYLES RONNIE E ET UX	Spring	705	1056 TOMS RUN LANE MOUNDSVILLE, WV 26041	304-845-2288
43	RINE OKEY L JR	Well	1307	6 TRACY LANE MOUNDSVILLE, WV 26041	304-845-1533
44	RINE OKEY L JR	Pond	1130	6 TRACY LANE MOUNDSVILLE, WV 26041	304-845-1533
45	RINE OKEY L JR	Pond	1132	6 TRACY LANE MOUNDSVILLE, WV 26041	304-845-1533

No.	SUPPLY COORDINATES	H04M	H05M	H06M	H07M	H08M	HoeM	H10M	H11M
31	39°54'34.462" N 80°42'00.486" W	1,228	1,243	1,258	1,272	1,279	1,264	1,249	1,235
32	39°54'28.713" N 80°42'19.263" W	1,798	1,803	1,808	1,813	1,842	1,837	1,832	1,827
33	39°54'27.565" N 80°42'24.278" W	2,139	2,142	2,145	2,149	2,178	2,174	2,171	2,168
34	39°54'25.851" N 80°42'26.683" W	2,289	2,291	2,293	2,295	2,325	2,323	2,321	2,319
35	39°54'32.558" N 80°42'11.984" W	1,510	1,520	1,530	1,540	1,563	1,553	1,543	1,533
36	39°54'18.6012"N 80°42 24.3252"W	2,117	2,114	2,111	2,108	2,137	2,140	2,144	2,147
37	39°54'06.1092"N 80°41'21.7284"W	3,254	3,247	3,240	3,233	3,214	3,215	3,221	3,228
38	39°54'09.6840"N 80°41'21.4440"W	3,106	3,100	3,094	3,088	3,066	3,067	3,072	3,078
39	39°54'22.6440"N 80°41'25.2816"W	2,521	2,522	2,522	2,523	2,492	2,493	2,492	2,491
40	39°54'11.4516"N 80°41'19.6764"W	3,163	3,159	3,154	3,149	3,125	3,126	3,130	3,135
41	39°54'40.6620"N 80°41'41.1648"W	2,239	2,252	2,264	2,277	2,261	2,262	2,235	2,223
42	39°54'41.2812"N 80°41'43.4832"W	2,194	2,208	2,220	2,234	2,220	2,221	2,194	2,180
43	39°54'28.5516"N 80°41'01.3488"W	4,428	4,431	4,433	4,436	4,404	4,405	4,401	4,399
44	39°54'36.2196"N 80°41'12.9444"W	3,748	3,754	3,760	3,766	3,732	3,733	3,726	3,720
45	39°54'29.6064"N 80°41'16.2096"W	3,307	3,310	3,314	3,318	3,285	3,286	3,281	3,278







No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #	
46	THOMAS WILLIAM H ET UX	Well	689	TOMS RUN RD MOUNDSVILLE, WV 26041	304-845-6459	
47	THOMAS WILLIAM H ET UX	Well	689	TOMS RUN RD MOUNDSVILLE, WV 26041	304-845-6459	
48	VAN SCYOC DELBERT M ET UX	Spring	1137	2074 CAMPBELL HILL ROAD MOUNDSVILLE, WV	304-280-5104	
49	VAN SCYOC DELBERT M ET UX	Spring	693	2074 CAMPBELL HILL ROAD MOUNDSVILLE, WV	304-280-5104	

No.	SUPPLY COORDINATES	H04M	H05M	H06M	H07M	H08M	H09M	H10M	H11M
46	39°54'42.4584"N 80°41'39.0876"W	2,481	2,493	2,506	2,518	2,502	2,489	2,477	2,464
47	39°54'42.4584"N 80°41'39.0876"W	2,481	2,493	2,506	2,518	2,502	2,489	2,477	2,464
48	39°53'58.7400"N 80°42'12.6180"W	2,675	2,662	2,648	2,634	2,647	2,661	2,674	2,688
49	39°54'12.5064"N 80°42'29.6208"W	2,690	2,685	2,679	2,673	2,701	2,707	2.712	2,718

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Office of Oil and Gas
APR 24 2017

WV Department of Environmental Protection

Office of Oil and Gas

APR 24 2017

WV Departmental Protection

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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6

6A-10(a) have	NOT been met or if the Notice o	of Intent to Drill requirement has N	NOT been w	aived in writing by the surface owner.
Notice Time I Date of Notice	Requirement: Notice shall be pro	ovided at least TEN (10) days pric Date Permit Application Filed: _	or to filing a 4/20/1	permit application.
Delivery meth	od pursuant to West Virginia (Code § 22-6A-16(b)		
☐ HAND	■ CERTIFIED MAI	IL		
DELIVE	RY RETURN RECE	JPT REQUESTED		
receipt reques drilling a hori of this subsection ma	ted or hand delivery, give the sur zontal well: <i>Provided</i> , That notice tion as of the date the notice was	face owner notice of its intent to ce given pursuant to subsection (a provided to the surface owner: P	enter upon to a), section to Provided, how ed, shall incl	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is her	reby provided to the SURFA			
	lines and Wanda L Hines	Name:		
Address: 301 4		Address		
Gieli Dale, VVV 20				
Pursuant to W the surface ov State: County: District:	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dril West Virginia Marshall Washington	Iling a horizontal well on the tract UTM NAD 83 Public Road Acc	of land as for Easting: Northing: ess:	525708.05 4417391.37 Route 38/Campbell Hill Road
Quadrangle:	Moundsville, WV 7.5'	Generally used fa	arm name:	Hines
Watershed:	Middle Grave Creek - Grave Creek			
Pursuant to \fracsimile nur	nber and electronic mail address	s of the operator and the operator I from the Secretary, at the WV I	or's authoriz Department (lress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	reby given by:			3 - 3 5
Well Operato	r: Chevron Appalachia, LLC	Authorized Re	presentative	$\mathcal{O}_{\stackrel{\wedge}{\Rightarrow}}$
Address:	800 Mountain View Drive	Address:		
Smithfield, PA 1	5478			
Telephone:	724-564-3781	Telephone:		
Email:		Email:		
Facsimile:	724-564-3894	Facsimile:		
The Office o	nersonal information may be di	isclosed to other State agencies of	or third parti	telephone number, to our regulatory ies in the difficult course of the dies or as information. Act requests and face will

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



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

Notice ' Date of	Time Ro Notice:	equirement: notice shall be pro 03/16/2017 Date P	ovided no ermit Ap	later than the filing plication Filed: $\frac{L}{L}$	date of permit	application.
Deliver	y metho	d pursuant to West Virginia	Code § 2	2-6A-16(c)	•	
		ED MAIL RECEIPT REQUESTED		HAND DELIVERY		
return re the plan required drilling damage	eceipt renned open of a horse to the solution of a horse to the solutions	quested or hand delivery, give eration. The notice required by rovided by subsection (b), sect rizontal well; and (3) A propo- surface affected by oil and gas	the surface by this sultion ten of sed surface operations	te owner whose lan- bsection shall inclu- this article to a surface use and compen- to the extent the di-	d will be used for de: (1) A copy face owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the a Name: 5 Address	ddress l					
Pursuan	n on the		, notice is ourpose of	drilling a horizonta	l well on the tra	well operator has developed a planned oct of land as follows: 525708.05
County:	_	arshall		–	Northing:	4417391.37
District:	_	/ashington		_ Public Road		Route 38/Campbell Hill Road
Quadrar		oundsville, WV 7.5*		_ Generally use	ed farm name:	Hines
Watersh	ied: M	iddle Grave Creek - Grave Creek		_		
Pursuan to be pr horizont surface informati	t to Wes rovided tal well; affected tion rela	by W. Va. Code § 22-6A-10(and (3) A proposed surface us by oil and gas operations to t ted to horizontal drilling may cated at 601 57th Street, SE,	b) to a su e and com he extent be obtair	arface owner whose apensation agreeme the damages are co ned from the Secre	e land will be unt containing and ompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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 appropriately secure your personal information.

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas APR 24 2017

WV Department of Environmental Protection 2017

WW-6AW	1
(1-12)	

API NO.	
OPERATOR WELL NO.	Hines M10H
Well Pad Name:	Hines

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 Casey V. Saunders , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows: West Virginia State: Easting: 1,663,520.742 WVSPN NAD 27 County: Marshall Northing: 514,399.277 District: Washington Public Road Access: Quadrangle: MOUNDSVILLE Generally used farm name: Watershed: I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, provided that Chevron U.S.A. Inc. drills the well on WV North NAD27 coordinates of North 514,399.277, East 1,663,520.742. This statement does not serve as notice that has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by mining activity. This Voluntary Statement of No Objection does not waive 's Common Law Property Rights in the State of West Virginia. FOR EXECUTION BY A NATURAL PERSON *Please check the box that applies ☐ SURFACE OWNER Signature: SURFACE OWNER (Road and/or Other Disturbance) Print Name: Date: SURFACE OWNER (Impoundments/Pits) FOR EXECUTION BY A CORPORATION, ETC. Company: __CONSOL Mining Company, LLC ☑COAL OWNER OR LESSEE By: Casey V. Saunders Its: Senior Project Engineer **⊠COAL OPERATOR □WATER PURVEYOR**

Oil and Gas Privacy Notice:

☐OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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

WW-6AW
(1-12)

API NO.	
OPERATOR WELL NO.	Hines M10H
Well Pad Name:	Hines

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□OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Oil and Gas Privacy Notice:

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API NO. 47-	
OPERATOR WELL NO.	Hines M10H
Well Pad Name: Hines	

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VOLUNTARY STATEMENT OF NO OBJECTION

State:	the well plat, all for proposed well work on the trac	TM NAD 83 Easting:	525708.05
County:	Marshall	Northing:	4417391.37
District:	I	ublic Road Access:	Route 38/Campbell Hill Road
Quadrangle: Watershed:	Moundsville, WV 7.5' Middle Grave Creek - Grave Creek	enerally used farm name:	Hines
issued on tho	that I have no objection to the planned work descrise materials.	bed in these materials, and	r have no objection to a permit being
*Please check	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
□ SURFA	CE OWNER	Signature:	
□ SURFA	CE OWNER (Road and/or Other Disturbance)	Print Name:	
CLIDEA	CE OWNER (Impoundments/Pits)		
L SUNTA	SUBJECT OF LEGGER	Company: Oh	ION BY A CORPORATION, ETC.
	OWNER OR LESSEE	Company.	
□ COAL (DERATOR	By: Chad E	isenmun
□ COAL C		By: Chad E	isenmun ive & Regulatory Advisor

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WV Department of Environmental Protection 17

WW-6AW
(1-12)

API NO. 47	
OPERATOR WELL	NO. Hines M10H
Well Pad Name: Hines	•

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WW-6A and required, and State: County: District:	, hereby state that I have rea ted above, and that I have received copies of attachments consisting of pages one (1) three the well plat, all for proposed well work on the West Virginia Marshall Washington Moundsville, WV 7.5'	a Notice of Applic ough e tract of land as fo	eation, an App _, including to llows: Easting: Northing:	blication for a Well Work Permit on Forn the erosion and sediment control plan, i 525708.05 4417391.37 Route 38/Campbell Hill Road
Watershed: I further state issued on thos	that I have no objection to the planned work d	escribed in these m	4/1 //	I have no objection to a permit being
☐ SURFACE ☐ SURFACE ☐ COAL CE ☐ COAL CE ☐ WATER	C the box that applies CE OWNER CE OWNER (Road and/or Other Disturban CE OWNER (Impoundments/Pits) OWNER OR LESSEE OPERATOR CORONE OF ANY NATURAL GAS STORAGE	Sig Prin Dat FO Con By: Its:	nature:	Hereld Oliverson BERALD OLIVER 3 -22 - 17 ION BY A CORPORATION, ETC.

Oil and Gas Privacy Notice:

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WV Department of Environmental Protection 17



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Jim Justice Governor

February 14, 2017

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 Hines Pad A Well Site, Marshall County

Hines A Unit M4H Hines A Unit M7H Hines A Unit M10H Hines A Unit M5H Hines A Unit M8H Hines A Unit M11H Hines A Unit M6H Hines A Unit M8H

47-051-01932

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2017-0073 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 38 SLS.

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

Very Truly Yours,

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

Cc: Mandy Fordyce

Chevron Appalachia, LLC

CH, OM, D-6

File

Office of Oil and Gas

APR 2 4 2017

WV Department of Environmental Projection 2017

Hydraulic Fracturing Fluid Additives

Supplier	Name	Purpose
Universal	7.5% HCI 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

470510195

Office of Oil and Gas

WV Depostrated 778/2017
Environmental Protection

HINES WELL SITE EROSION AND SEDIMENT CONTROL PLAN

APPROVED WVDEP OOG 5/15/2017

CAMPBELL HILL ROAD (C.R. 38) WASHINGTON DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

PREPARED FOR:

CHEVRON APPALACHIA, LLC

800 MOUNTAIN VIEW DRIVE SMITHFIELD, PA 15478

CONSULTANTS

CNIL & ENVIRONMENTAL CONSULTANTS, INC. 4000 TRIANGLE LANE, SUITE 200 EXPORT, PA 15632 PHONE: 724-327-5200

CIVIL/SITE ENGINEER CONTACT: TODO C. BALDWIN, P.E. EMAIL ADDRESS: tboldwin@cecinc.com GEOTECHNICAL ENGINEER CONTACT: MICHAEL J. SHELEHEDA, P.E. EMAIL ADDRESS: mishelehedo@cecinc.com

SITE COORDINATES AND WATERSHED

START OF ACCESS ROAD LATITUDE: 39,90495' N, LONGITUDE: 80.69336' W

END OF ACCESS ROAD LATITUDE: 39.90592" N, LONGITUDE: 80.69811" W

APPROXIMATE CENTER OF WELL PAD LATITUDE: 39.90639' N, LONGITUDE: 80.69991' W

CENTER OF ABOVE GROUND STORAGE TANK LATITUDE: 39.90642' N. LONGITUDE: 80.70023' W

*BASED ON NAD 83, WEST VIRGINIA NORTH ZONE

WATERSHED NAME: UPPER OHIO SOUTH RECEIVING STREAM: UNNAMED TRIBUTARIES TO TOMS RUN

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

UNT 1 TO TOMS CREEK (EPH) - 192 UF WETLAND 1B (PEM) - 0.01 AC

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

WETLAND 2A (PEM) - 44 FT FROM LOD

WETLAND 2B (PEM) - 0.4 LF FROM LOD

WETLAND 3A (PEM) - 25 LF FROM LOD

WETLAND 44 (PEM) - 41 LF FROM LOD

- TOPOGRAPHY AND PROPERTY RECOMMEND PROVIDED BY BLUE MOUNTAIN NO. AERIAL PHOTOGRAPHY DATED 3/31/2014.
- STREAMS AND WETLANDS DELINEATED BY CMIL & ENVIRONMENT CONSULTANTS, INC. DATED 10/18/2016.
- MARKED LITLITY FEATURES SURVEYED BY CNIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/26/2016.

Wellhead No.	Northing	Easting	Latitude (North)	Longitude (West)
MODH	514497.016	1632056.919	39.906382	80,699340
MODH	514482 028	1632056.332	39.906341	80 699341
MOSH	514467.039	1632055.744	39.905299	80 699342
MOSH	514452.051	1632055.157	39.906258	80,699344
MOSH	514437.062	1632054.569	39.906217	80 699345
MOSH	514422.074	1632053.982	39.906176	80.699346
MOTH	514407.065	1632053.394	39.906135	80.099348
MOSH	514405.910	1632063.371	29.906135	RO.699241
MOSH	514420.899	1632083.959	39.906174	BC 699240
MICH	514435.887	1632084.546	39.906215	BO 699238
MIIH	514450.876	1632085.134	39.906256	80.699237
M12H	514465.864	1632085.721	39.906297	RO.699235
MISH	514480.853	1632086.309	39.906339	80.699234
MI4H	514495.841	1632086.896	39.906380	RO 699233
U15H	514494.966	1632115.873	39.906378	83.699126
U16H	514479.678	1637116.296	39.906336	BO 599127
U17H	514464.689	1632115.698	39.906295	81 699128
MISH	514449.701	1632115.111	39.906254	BO 699130
M19H	514434.713	1632114.523	39.906213	80 699131
MOOH	514419.724	1637113.936	39.906172	80,699133
M21H	514404.736	1632111.345	39.906131	80 699134
UZZH	514403.561	1632143.325	39.906128	80 699027
L/23H	514418.549	1632143.913	39.906170	80,699026
U24H	514433.538	1632144.500	39.906211	80,699024
UZSH	514443.526	1632145.088	39.906252	80.699023
U26H	514463.515	1632145.675	39.906293	80.699022
U27H	514478.503	1632146.263	39.906334	80.599020
U294	514493.492	1632146.850	39.906375	80.699019
U29H	514477.328	1632176.240	39.906332	80.696913
UBOH	514462.340	1632175.652	39.906291	80,698915
USIN	514447.351	1632175.065	39.906250	80.698916
U3214	514432.363	1632174.477	39.906209	80 698917
UBBH	514417.374	1632173.890	39.906157	80.698919
UMH	514402.W6	1632173.302	39.906126	BO 696920

- EXISTING PROPERTY LINE

- DISTING GAS LINE

F --- EXISTING WATERLINE

EXISTING FENCE - EXISTING STREAM

DISTING STRUCTURE

DISTING STRUCTURE

DISTING STRUCTURE

EXISTING UTILITY POLI

- EXISTING INDEX CONTOUR EXISTING INTERMEDIATE COMMAND

EXISTING PAVED ROADWAY DISTING UNPAVED ROADWAY

H-E - EXISTING OVERHEAD ELECTRIC LINE

T - EXISTING TELECOMMUNICATION LINE

EXISTING LITELITY POLE

\bigcirc		
NORTH.	APPRICE CONTER OF WI LAT: 39.90639" N LON: 80.89991" W	T Wo
NEAREST BLIE LINE STREAM - TOMS RUN (APPRICK 772-FT)	ANHWES WE	A STORY OF THE STORY
	START OF A. (LAT: 38.904)	CESS FOAD
	SITE LOCATION MA	

	0	2000	4000
EFERE	ENCE		
U.S.G.S.	7.5' TOPO	GRAPHIC MAP. M	KOUNDSVILLE
			PHOTOREVISED

---- Peoposen Cutt/Fil: UNF

x1124.75 PROPOSED SPOT DEVATION

- PROPOSED INTERMEDIATE CONTOUR

- PROPOSED EDGE OF ACCESS ROAD

- PROPOSED LIMIT OF DISTURBANCE

Deposite but of distributed for describing for the proposite but the down occurs for describing for the proposite distributed for the proposite distributed

SITE LIMITS OF DISTUR	BANCE (AC)
WELL PAD	10.1
ACCESS ROAD	6.2
STOCKFILES	2.5
TOTAL AREA	19.0
WOODED AREA DISTURBED	25
IMPACTS TO DONALD	HINES (AC)
WELL PAD	10.1
ACCESS ROAD	6.7
STOCKPILES	2.5
TOTAL AREA	18.8
WOODED AREA DISTURBED	3.3
IMPACTS TO ARNIE GOO	DNIGHT (AC)
WELL PAD	0.2
TOTAL AREA	0.2
WOODED AREA DISTURBED	0.2

PROPOSED CHANNEL

PROPOSED IN IT

PROPOSED STORWATER CULVERT

DWG NO.	SHEET TITLE	INCLUDED	LAST REVISED
C2 000	COVER SHEET	X	03/02/2017
ES 050	EXISTING TOPOGRAPHIC PLAN	×	05/02/2017
ES 100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	× .	03/02/2017
ES 101	EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)	x	01/02/2017
ES 102	EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)	X	03/02/2017
ES 103	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 7)	x	03/02/2017
ES 104	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 7)	X	03/02/2017
ES 105	ENOSION AND SEDIMENT CONTROL DETAILS (3 OF 7)	x	03/02/2017
ES 106	EROSION AND SEDIMENT CONTROL DETAILS (4 OF 7)	x	03/02/2017
ES 107	EROSION AND SEDIMENT CONTROL DETAILS (5 OF 7)	x	03/02/2017
ES 108	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 7)	x	03/02/2017
ES 109	EROSION AND SEDIMENT CONTROL DETAILS (7 OF 7)	×	03/02/2017
ES 110	WELL PAD PLAN VIEW	x	01/02/2017
ES 111	WELL PAD CROSS-SECTIONS	x	01/02/2017
E5 112	ACCESS ROAD PLAN AND PROFILE VIEW (1 OF 2)	X	03/02/2017
ES 113	ACCESS ROAD PLAN AND PROFILE VIEW (2 OF 2)	x	03/02/2017
ES 114	ACCESS ROAD CROSS-SECTIONS	x	03/02/2017
ES 115	STOCKPILE CROSS-SECTIONS (1 OF 2)	x	05/02/2017
ES 116	STOCKPILE CROSS-SECTIONS (2 OF 2)	x	01/02/2017
GE 500	GEOTECHNICAL SUBSURFACE SUMMARY - WELL FAD	x	03/03/2017
GE 502	CROSS-SECTIONS - WELL PAD	x	03/03/2017
GE 504	GEOTECHNICAL TABLES AND NOTES	X	03/03/2017
GE 505	GEOTECHNICAL DETAILS	x	03/03/2017
GE 506	ASS PLAN AND ELEVATION VIEW (1 OF 2)	x	03/03/2017
GE 507	RSS PLAN AND ELEVATION VIEW (2 OF 2)	x	03/03/2017
GE 508	RSS CROSS-SECTIONS	x	03/03/2017
GE 509	RSS DETAILS	*	03/03/2017
GE 510	RSS SPECIFICATIONS AND QUANTITIES	x	03/03/2017
PC 600	SITE PLAN WITH AERIAL	x	03/02/2017
PC 601	POST-CONSTRUCTION RECLAMATION PLAN	x	03/02/2017
PC 602	POST-CONSTRUCTION RECLAMATION DETAILS	x	01/02/2017

ES 100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	×	08/02/2017
ES 101	EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)	x	01/02/2017
ES 102	EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)	×	03/02/2017
ES 103	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 7)	×	03/02/2017
ES 104	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 7)	x	03/02/2017
ES 105	ENOSION AND SEDIMENT CONTROL DETAILS (3 OF 7)	x	03/02/2017
ES 106	EROSION AND SEDIMENT CONTROL DETAILS (4 OF 7)	×	03/02/2017
ES 107	EROSION AND SEDIMENT CONTROL DETAILS (5 OF 7)	x	03/02/2017
ES 108	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 7)	X	03/02/2017
ES 109	EROSION AND SEDIMENT CONTROL DETAILS (7 OF 7)	×	03/02/2017
ES 110	WELL PAD PLAN VIEW	×	03/02/2017
ES 111	WELL PAD CROSS-SECTIONS	x	01/02/2017
ES 112	ACCESS ROAD PLAN AND PROFILE VIEW (1 OF 2)	X	03/02/2017
ES 113	ACCESS ROAD PLAN AND PROFILE VIEW (2 OF 2)	x	03/02/2017
ES 114	ACCESS ROAD CROSS-SECTIONS	X	03/02/2017
ES 115	STOCKPILE CROSS-SECTIONS (1 OF 2)	x	03/02/2017
ES 116	STOCKPILE CROSS-SECTIONS (2 OF 2)	x	03/02/2017
GE 500	GEOTECHNICAL SUBSURFACE SUMMARY - WELL FAD	×	03/03/2017
GE 502	CROSS-SECTIONS - WELL PAD	X	03/03/2017
GE 504	GEOTECHNICAL TABLES AND NOTES	x	03/03/2017
GE 505	GEOTECHNICAL DETAILS	x	03/03/2017
GE 506	RSS PLAN AND ELEVATION VIEW (1 OF 2)	x	03/03/2017
GE 507	RSS PLAN AND ELEVATION VIEW (2 OF 2)	×	03/03/2017
GE 508	RSS CROSS-SECTIONS	x	03/03/2017
GE 509	RSS DETAILS	*	03/03/2017
GE 510	RSS SPECIFICATIONS AND QUANTITIES	x	03/03/2017
PC 600	SITE PLAN WITH AFRIAL	×	03/02/2017
PC 601	POST-CONSTRUCTION RECLAMATION PLAN	×	03/02/2017
PC 602	POST-CONSTRUCTION RECLAMATION DETAILS	x	03/02/2017



PROPOSED COMPOST FILTER SOCK TRAP

PROPOSED 18-IN COMPOST FILTER SOCI

PROPOSED GRANGE CONSTRUCTION FENCE

PROPOSED EROSION CONTROL BLANKET

PROPOSED TEMPORARY RUNOFF DIVERSION

WEST MACINIA 1-800-245-4848

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Drawing Scale 11°2,000 Date Issued 03'02/2017 Index Number Drawin By JAM Checked By TCB Yoard Manager MUS

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