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 west virginia department of environmental protection
 

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

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

Friday, March 1, 2019  
 WELL WORK PERMIT  
 Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC  
 700 CHERRINGTON PARKWAY


CORAOPOLIS, PA 15108

Re: Permit approval for FREELAND M02H  
 47-051-02144-00-00

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: FREELAND M02H  
 Farm Name: JOSEPH L. FREELAND ET UX  
 U.S. WELL NUMBER: 47-051-02144-00-00  
 Horizontal 6A New Drill  
 Date Issued: 3/1/2019

# PERMIT CONDITIONS

470510021494

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

## CONDITIONS

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

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

**PERMIT CONDITIONS** 4705102144 <sup>03/01/2019</sup>

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



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west virginia department of environmental protection

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

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

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

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

DATE: February 24, 2019  
ORDER NO.: 2019-W-5

**INTRODUCTION**

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

**FINDINGS OF THE CHIEF**

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

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Chevron Appalachia, LLC is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 611, Moon Township, Pennsylvania.
3. On December 17, 2018, Chevron Appalachia, LLC submitted well work permit applications identified as API#s 47-051-02142, 47-051-02143, 47-051-02145, 47-051-02146, 47-051-02148, 47-051-02151, 47-051-02153 and 47-051-02154. The proposed wells are to be located on the Freeland Pad in Clay District of Marshall County, West Virginia.
4. On February 20, 2019, Chevron Appalachia, LLC requested a waiver for Wetlands 1A, 1B, 2 and 4 outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s s 47-051-02142, 47-051-02143, 47-051-02145, 47-051-02146, 47-051-02148, 47-051-02151, 47-051-02153 and 47-051-02154.

### 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**

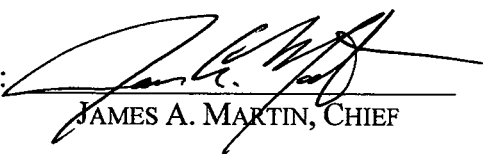
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands 1A 1B, 2 and 4 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s s 47-051-02142, 47-051-02143, 47-051-02145, 47-051-02146, 47-051-02148, 47-051-02151, 47-051-02153 and 47-051-02154. The Office of Oil and Gas hereby **ORDERS** that Chevron Appalachia, LLC shall meet the following site construction and operational requirements for the Freeland 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 1A, 1B and 2 shall have both a compost filter sock trap and a layer of thirty two-inch (32”) compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with rip-rap aprons, temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Wetland 4 shall have a compost filter sock trap and a layer of thirty two-inch (32”) compost filter sock or a layer of eighteen-inch (18”) compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- e. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- f. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- g. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- h. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- i. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- j. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- k. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- l. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 24th day of February, 2019.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:   
JAMES A. MARTIN, CHIEF







03/01/2019

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

1) Well Operator: Chevron Appalachia, LLC 49449935 Marshall Clay Powhatan Point, W.V.  
Operator ID County District Quadrangle

2) Operator's Well Number: M02H Well Pad Name: Freeland

3) Farm Name/Surface Owner: Freeland Public Road Access: CR 21 Robert Ridge Road

4) Elevation, current ground: 1274' Elevation, proposed post-construction: 1275'

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

(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No No

*JW*  
*12/5/18*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 6370' below GL, 50' thick; Pure Pressure Gradient 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,395

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,927

11) Proposed Horizontal Leg Length: 7,884

12) Approximate Fresh Water Strata Depths: 572' below GL

13) Method to Determine Fresh Water Depths: Based on deepest water well within 2 mile radius

14) Approximate Saltwater Depths: 1709', 1789', 2120' below GL

15) Approximate Coal Seam Depths: Pittsburgh Coal top 794' below GL

16) Approximate Depth to Possible Void (coal mine, karst, other): No Void - In solid coal pillar

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

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

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18) **CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20	New	X52	78.67	60	60	CTS
Fresh Water	13.375	New	J-55	54.5	622	622	CTS
Coal							
Intermediate	9.625	New	L-80	40	2,170	2,170	CTS
Production	5.5	New	P110	20	14,927	14,927	2,670' (500' below 9.625' shoe)
Tubing							
Liners							

*JM*  
12/11/18

<b>TYPE</b>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20	26	0.375				
Fresh Water	13.375	17.5	0.38	2,730	400	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5,750	500	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14,360	2050	Class A, G, or H	1.25
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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*[Signature]*  
12/5/18

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

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,395 feet. Drill horizontal leg.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.2

22) Area to be disturbed for well pad only, less access road (acres): 5.0

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt 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% CaCl<sub>2</sub>, and flake. The intermediate will contain class A cement, 3% CaCl<sub>2</sub>, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

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

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\*Note: Attach additional sheets as needed.

4705102144 03/01/2019

Cement Additives

The Water String the blend will contain class A cement, 3% CaCl<sub>2</sub>, and flake.

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

The Production cement will have a lead and tail cement.

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

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

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# Freeland M02H

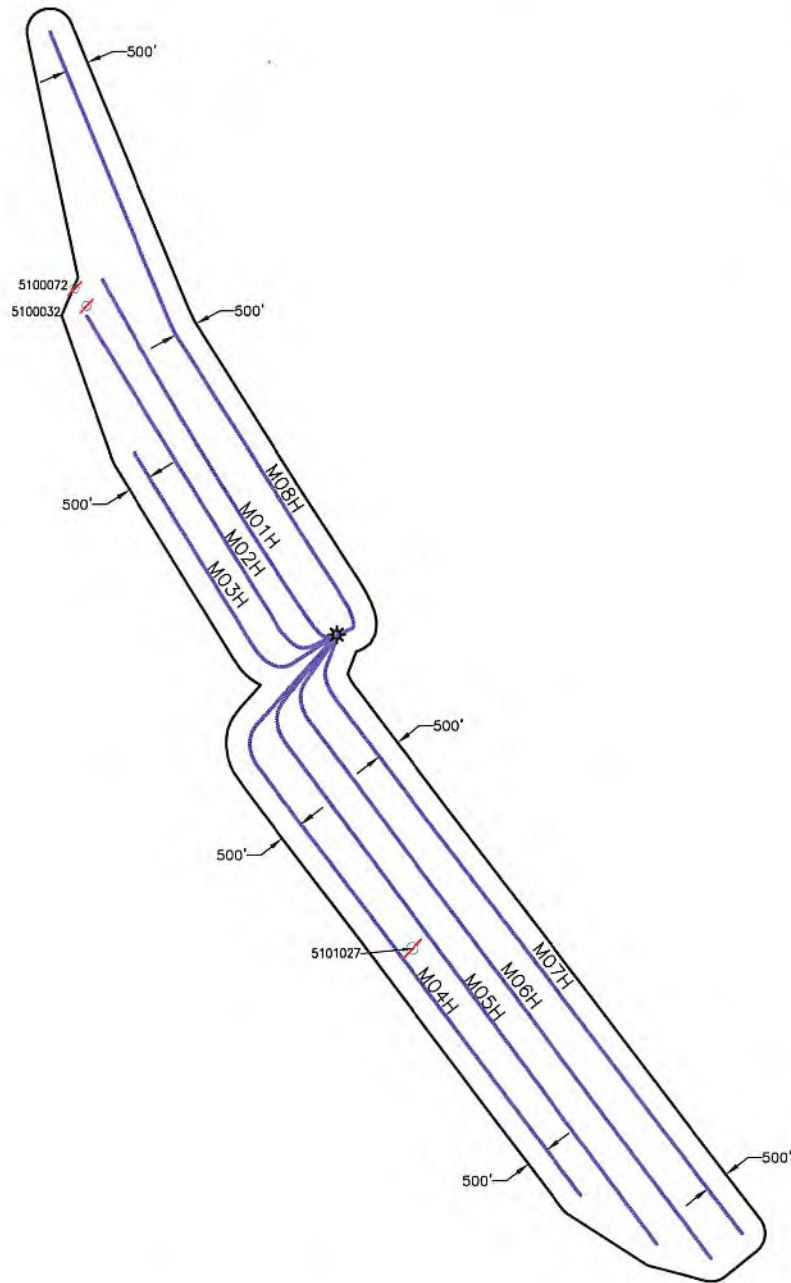


Clay Twp, Marshall Co, WV						Ground Level Elev. (ft above SL):		1,274	
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	INC	AZM			
Coro Barrel / Auger	2 Bowspring per Jt	20" Conductor	65	65			30	Conductor 20" API 5L Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	13-3/8" Casing	622	622			17.5	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 (Jt Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	9-5/8" Casing	2,170	2,170			12.375 - 12.25	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 (Jt Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
	Bow Spring: (1) per every other jt over coupling  SpiraGlider or Centek: (1) per jt of casg to KOP          Float Equip. Float Equip.	5-1/2" Casing	14,927				8.75 - 8.5	Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry Cement to 500' below 9-5/8" shoe

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Production Well Slurry  
TOC minimum 200' above Marcellus

*Handwritten signature and date:*  
12/5/18



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

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

LEGEND  
 - WELL LOCATION  
 - PLUGGED WELL  
 - ABANDON WELL

**FREELAND**  
**AREA OF REVIEW MAP**  
**MARSHALL COUNTY**  
**CLAY DISTRICT**  
**WEST VIRGINIA**  
 TOPO QUAD: POWHATAN POINT, WV  
 SCALE: 1" = 4000'  
 DATE: SEPTEMBER 7, 2018

4705102144

03/01/2009

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-00072	Wasmuth-Callahan Gas Co.	Operator Unknown	ABANDONED	39.887867	-80.781834	N/A	N/A	None
47-051-00032	R L McDowell	Operator Unknown	ABANDONED	39.886851	-80.780892	N/A	N/A	None
47-051-01027	CNX Gas Company	CNX Gas Company LLC	ABANDONED	39.849249	-80.75489	N/A	N/A	None

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API Number 47 - \_\_\_\_\_  
Operator's Well No. M02H \_\_\_\_\_

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

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

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ at next anticipated well \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

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

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

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

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

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

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

-Landfill or offsite name/permit number? Short Creek Landfill/SWF-1034/WW0109517 and Arden Landfill/#100172

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature Jenny Butchko  
Company Official (Typed Name) Jenny Butchko  
Company Official Title Permitting Team Lead

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Subscribed and sworn before me this 24th day of September, 2018 Commonwealth of Pennsylvania  
Laura Savage County of Allegheny

Notary Public  
My commission expires September 17, 2022

Commonwealth of Pennsylvania - Notary Seal  
Laura Savage, Notary Public  
Allegheny County  
My commission expires September 17, 2022  
Commission number 1285773  
Member, Pennsylvania Association of Notaries

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 18.8 Prevegetation pH 6.5-7.0

Lime 3 tons/acre Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type <sup>10-20-20 or as directed by soil test</sup> \_\_\_\_\_

Fertilizer amount 300#/acre or as directed by soil test lbs/acre

Mulch 3 tons/acre or 5 tons/acre for winter stabilization Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Annual Ryegrass - 50

See Attached

Winter Wheat - 75

Cereal Ryegrass - 50

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Verbeke

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Title: Oil & Gas Inspector

Date: 12/5/18

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Field Reviewed? (  ) Yes (  ) No

4705102144

**Seed Mixtures**

<u>Permanent</u>		3ton/ac	lbs/acre
Seed Type	Non Agricultural Upland		
Tall Fescue	57%	3420.00	6000
Perennial Ryegrass	19%	649.80	
Ladino Clover	10%	64.98	
Birdsfoot - Trefoil	10%	6.50	
Red Top	4%	0.26	

<u>Permanent</u>		lbs/acre
Seed Type	Hayfield, Pastureland, and Cropland	
Orchard Grass	40%	2400.00
Timothy	40%	960.00
Birdsfoot - Trefoil	10%	96.00
Ladino Clover	10%	9.60

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03/01/2019

47 05 1 02 1 44



**Chevron**

**Appalachian LLC  
WV Well Site Safety Plan**

**Pad: Freeland Pad A  
Well # M02H**

*John  
12/5/18*

**3599 Roberts Ridge Rd  
Moundsville, WV 26041  
Clay District  
Marshall County, WV**

**Access Point – [39.865278°N, 80.758511°W]**

**Well Site – [39.867578°N, 80.761275°W]**

**Marshall County, West Virginia**

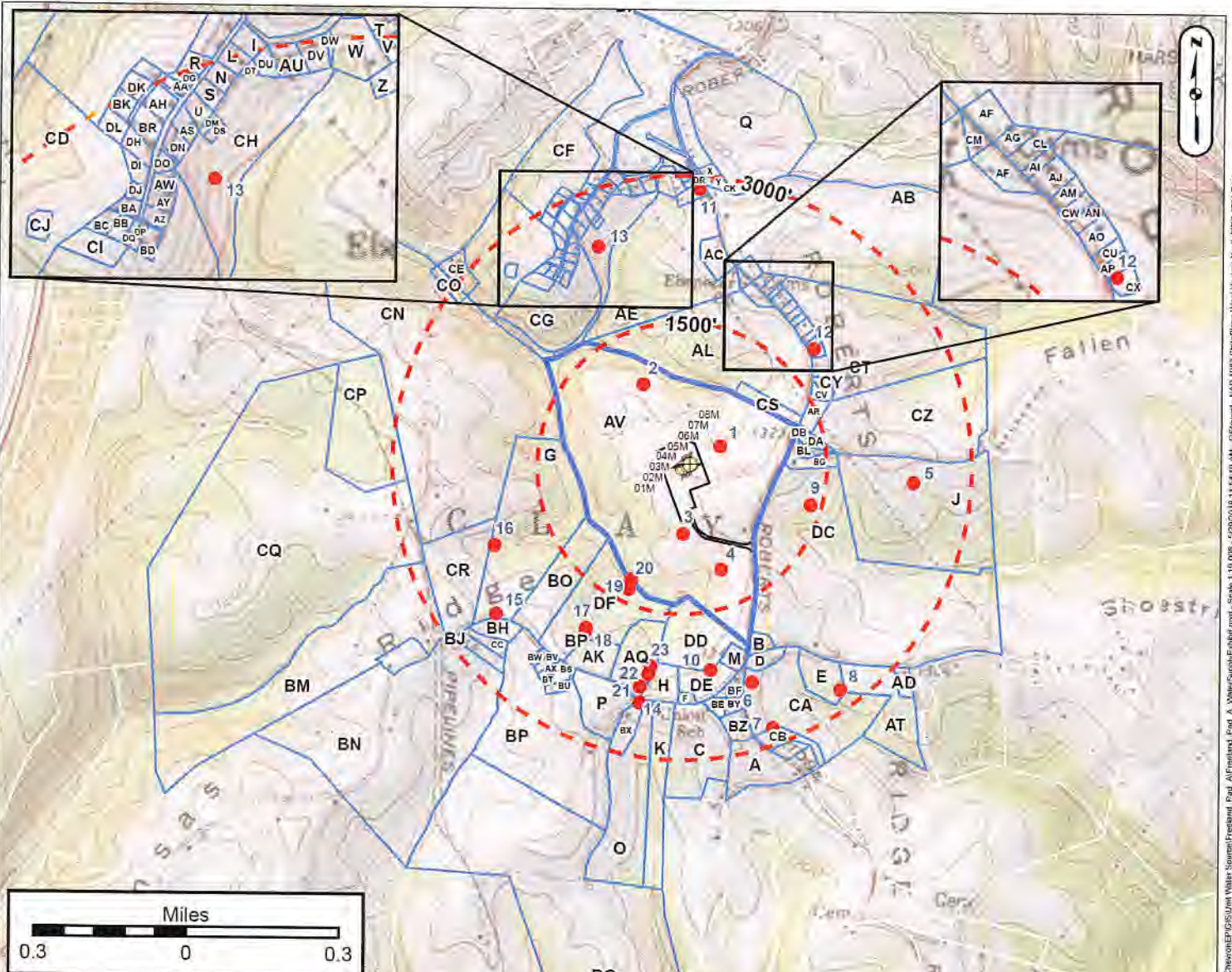
RECEIVED  
Office of Oil and Gas

DEC 17 2018

WV Department of  
Environmental Protection



# WATER SUPPLY EXHIBIT 4705102 03/01/2019 FREELAND PAD A



### LOT OWNERS

Parcel ID	Owner	Parcel ID	Owner	Parcel ID	Owner	Parcel ID	Owner
25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S
25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S
25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S
25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S
25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S	25-04-130910000	WALSH GREGORY S

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

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

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

BHL is located on topo map 11,089 feet south of Latitude: 39° 55' 00"  
 SHL is located on topo map 2,728 feet south of Latitude: 39° 52' 30"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

LINE	BEARING	DISTANCE
R1	N 13°24'23" W	220.85'
R2	N 27°43'50" W	229.31'
R3	N 41°12'29" W	209.47'
R4	N 38°52'36" W	1640.47'
R5	S 22°11'09" E	1809.72'
R6	N 71°35'58" E	1218.58'

BHL is located on topo map 8,667 feet west of Longitude: 80° 45' 00"  
 SHL is located on topo map 3,318 feet west of Longitude: 80° 45' 00"

**SURFACE HOLE LOCATION (SHL)**  
**UTM 17-NAD83(M)**  
 N:4413087.74  
 E:520419.64  
 NAD83, WV NORTH  
 N:500603.563  
 E:1614494.534

**APPROX. LANDING POINT**  
**UTM 17-NAD83(M)**  
 N:4413137.51  
 E:520042.88  
 NAD83, WV NORTH  
 N:500787.548  
 E:1613260.935

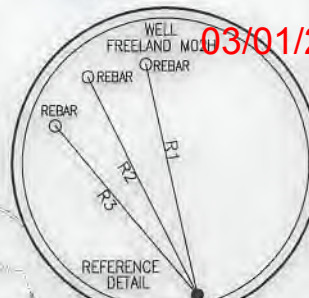
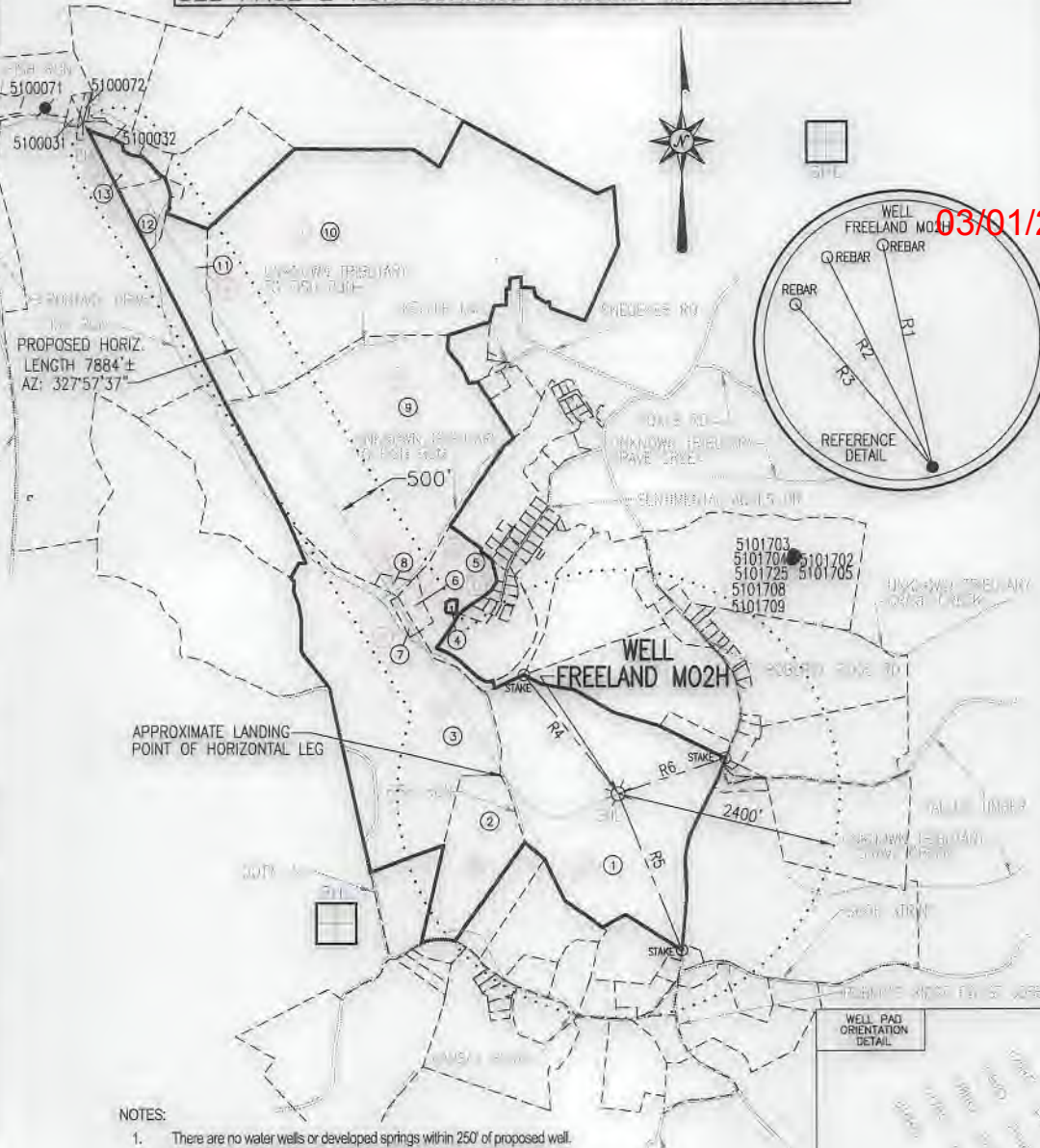
**BOTTOM HOLE LOCATION (BHL)**  
**UTM 17-NAD83(M)**  
 N:4415152.29  
 E:518734.60  
 NAD83, WV NORTH  
 N:507470.809  
 E:1609078.300

**LEGEND**

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

**GAS WELLS**

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS



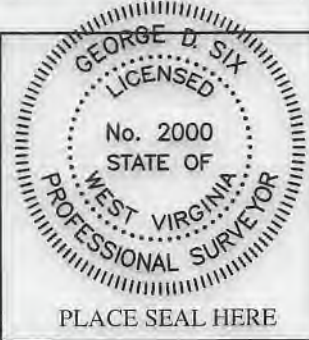
- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
  - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
  - There are no native trout streams within 300' of proposed well.
  - Proposed well is greater than 1000' from surface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

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

FILE #: FREELAND M02H  
 DRAWING #: FREELAND M02H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

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



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

WELL TYPE:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1274.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: POWHATAN POINT, WV 7.5'

SURFACE OWNER: JOSEPH L. FREELAND ET UX ACREAGE: 104.22±

OIL & GAS ROYALTY OWNER: JOSEPH FREELAND ET UX ACREAGE: 578.140±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE

(SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,395± TMD: 14,927.19±

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

DATE: FEBRUARY 19, 2019

OPERATOR'S WELL #: FREELAND M02H

API WELL #: 47 51 D2144  
 STATE COUNTY PERMIT

LINE	BEARING	DISTANCE
R1	N 73°23' W	220.88'
R2	N 27°25' W	229.31'
R3	N 41°52' W	208.47'
R4	N 38°23' W	164.47'
R5	S 22°10' E	1809.72'
R6	N 71°25' E	1218.88'

APPROX. LANDING POINT  
 UTM 17-NAD83(M)  
 N:4413087.74  
 E:250418.64  
 NAD83, W. NORTH  
 E:181444.234  
 UTM 17-NAD83(M)  
 N:4413137.21  
 E:250042.88  
 NAD83, W. NORTH  
 E:1813280.935

APPROX. LANDING POINT  
 UTM 17-NAD83(M)  
 N:4413137.21  
 E:250042.88  
 NAD83, W. NORTH  
 E:1813280.935

BOTTOM HOLE LOCATION (BHL)  
 UTM 17-NAD83(M)  
 N:4415125.29  
 E:218734.80  
 NAD83, W. NORTH  
 E:1809078.200

**LEGEND**

- - TOPO MAP POINT
- ☼ - WELL
- - ALL ARE POINTS UNLESS OTHERWISE NOTED.
- - MINERAL TRACT BOUNDARY
- - - - - PARCEL LINES
- - - - - WELL REFERENCE
- - - - - PROPOSED HORIZONTAL WELL
- - - - - ROAD
- - - - - STREAM CENTER LINE
- - - - - LESSORS
- ① - SURFACE OWNERS

**GAS WELLS**

- - EXISTING WELLS
- ⊙ - PLUGGED WELLS
- ⊘ - ABANDONED WELLS

**Blue Mountain**  
 11023 MASON DIXON HIGHWAY  
 BURTON, WV 25822  
 PHONE: (304) 682-6486

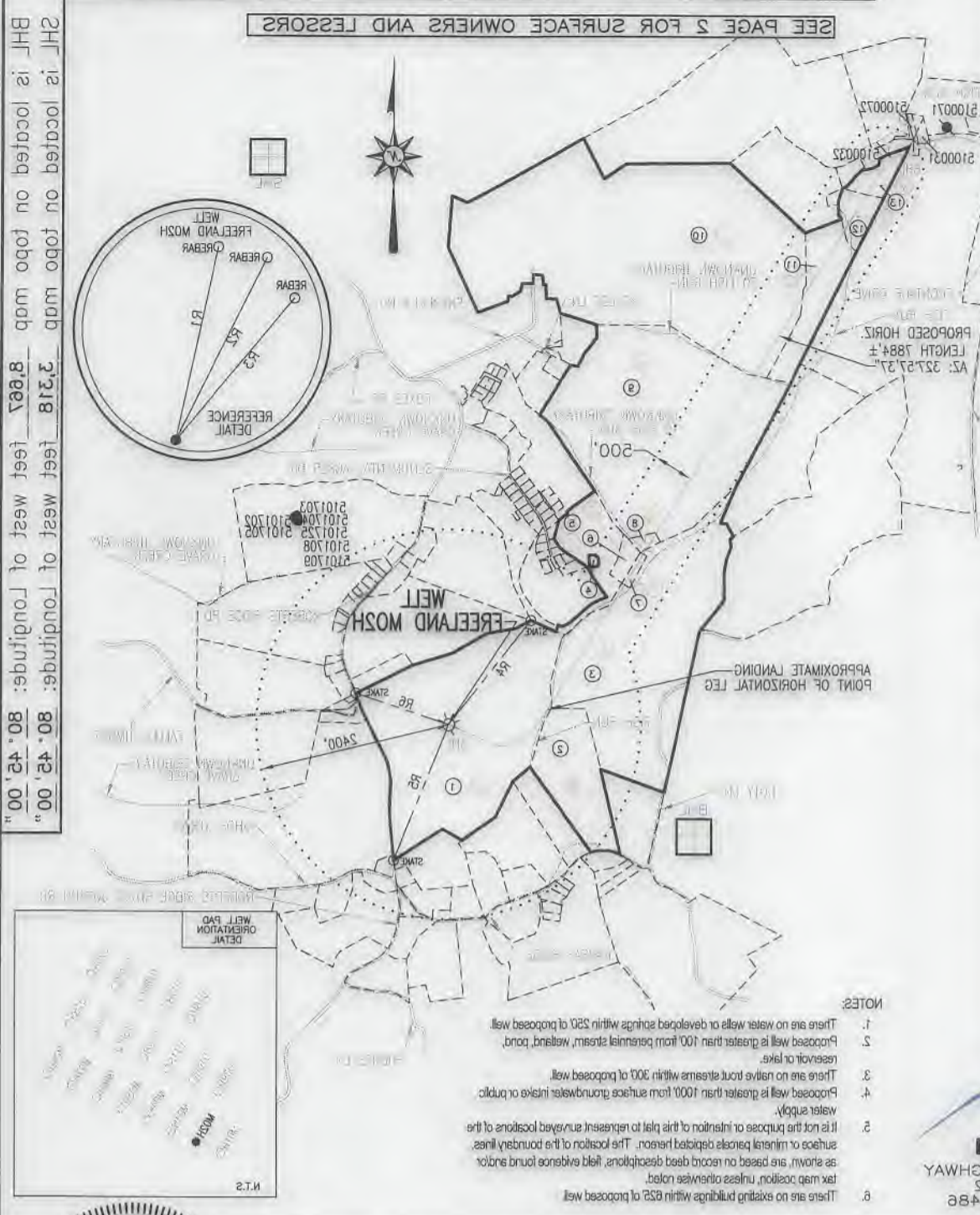
**NOTES:**

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

BHL is located on topo map 11089 feet south of latitude: 39° 25' 00"  
 SHL is located on topo map 2,728 feet south of latitude: 39° 25' 30"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

SHL is located on topo map 3,218 feet west of longitude: 80° 42' 00"  
 BHL is located on topo map 8,667 feet west of longitude: 80° 42' 00"



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

Signed: *George D. Six*

R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000

FILE #: FREELAND MOSH  
 DRAWING #: FREELAND MOSH  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE: U.S.G.S. MONUMENT THOMAS 14881  
 OF ELEVATION: \_\_\_\_\_

CHARLESTON, WV 25304  
 601 27TH STREET  
 OFFICE OF OIL & GAS  
 WADSWORTH  
 UNITED STATES TOPOGRAPHIC MAPS  
 (+) DENOTES LOCATION OF WELL ON

CITY: CHARLESTON State: PA Zip Code: 15108  
 WELL OPERATOR: CHEVRON APPALACHIA, LLC  
 ADDRESS: 700 CHERRINGTON PARKWAY  
 DESIGNATED AGENT: KENNETH E. TAWNEY

CITY: CHARLESTON State: WV Zip Code: 25301-3202  
 ADDRESS: 200 LEE STREET, EAST SUITE 1600  
 ESTIMATED DEPTH: \_\_\_\_\_ TMD: 14,827.19 ±  
 TARGET FORMATION: MARCELLUS

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

OIL & GAS ROYALTY OWNER: JOSEPH FREELAND ET UX ACREAGE: 578.140 ±  
 SURFACE OWNER: JOSEPH L. FREELAND ET UX ACREAGE: 104.22 ±

COUNTY/DISTRICT: MARSHALL \ CLAY  
 WATERSHED: SHORT CREEK-OHIO RIVER  
 Well Type:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: SHORT CREEK-OHIO RIVER  
 ELEVATION: 1274.00'

STATE: \_\_\_\_\_ COUNTY: \_\_\_\_\_ PERMIT: *02194*  
 API WELL #: 47 STATE WELL #: 21 OPERATOR'S WELL #: FREELAND MOSH  
 DATE: FEBRUARY 19, 2019

# FREELAND

## M02H

### PAGE 2 OF 2

03/01/2019

	SURFACE OWNER	DIST-TM/PAR
1	JOSEPH L. FREELAND ET UX	4-7/21
2	NORMAN L. & BIBIANA DERROW	4-7/20
3	CATHY J. & CARL F. JR., PETRUCCI	4-7/12
4	MARSHALL COUNTY SEWERAGE DIST.	4-7/5.7
5	LINDA J. KING	4-7/5
6	*CONSOLIDATION COAL COMPANY	4-7/5.1
7	CONSOLIDATION COAL COMPANY	4-7/12.1
8	CONSOLIDATION COAL COMPANY	4-5/75.1
9	LARRY M. & ROSEANNA J. KELLER	4-5/75
10	LANE P. & TONI L. RINE	4-5/73
11	LEROY D. ROSIER EST	4-6/9
12	MOLLIE ROSIER - EST	4-6/10
13	RONALD L. GALENTINE	4-6/13.2

	LESSOR	DIST-TM/PAR
A	JOSEPH FREELAND ET UX	4-7/21
B	ANTHONY FRANCIS SPECHT	4-7/20
	DEBORAH DARLENE VENTLE	
	CHERYL DENISE VOSS ET VIR	
	SUSAN MAY	
	CATHERINE PAZIN	
	KENT LINDA FARINHA	
	KRISTINE BOURQUE	
	CHARLES GARNER	
	FREDERICK H. GARNER SR.	
	DAVID GARNER	
	DORIS JEAN FALLIN GARNER	
	THOMAS L. GARNER	
	KAREN HARPER	
	LESLIE GARNER	
	VALORIE HARPER	
	VIRGINIA THOMPSON	
	RUSSELL GARNER	
	BARBARA DOUGLAS	
	LINDA ZAREMBA	
	AMBER SPIESS	
	SHEENA LEA SCALES	
	WILLIAM R. HUGHES	
	ANTHONY F. MANZO	
	DANIEL MANZO SR.	
	ROBERT H. ROBINSON SR.	
	ROBERT H. ROBINSON JR.	
	LISA SHROYER	
	KEITH A. ROBINSON	
	JOHN L. SIMONETTI	
	JOHN M. SIMONETTI	
	JAMES SIMONETTI	
	CHARLES D. CUDDIHY	
	DAVID CUDDIHY	
	CAROL DRUMMOND	
	MARGO KAVANAS	
	WELDON L. KING ET UX	
	RENA ELAINE DEBLASIO	
	REBELLEE WILLIAMS	
	GARY SHEETS ET UX	
	JULIE MCALISTER	
	JUDITH R. VON BLON	
	REGINA WASHABAUGH	
	SHEILA MCDANIEL	
	DAVID VAUGHN JR.	
	ELLEN COOK	
	VIRGINIA HORNSBY	
	PATRICIA CHENOWETH	
	DORIS CALDWELL	
	LAURA L. BELL	
	SHANNON DEMPSEY	
	JACQUELINE CIRULLO	
	CURTISS RUCKMAN	
	WENDY ELIZABETH ZISKO	
	DARLENE A. COX-WEIGUM LIFE ESTATE	
	MICHAEL RUCKMAN	
	JAMIE CROSSMAN	
	ORPHA MAY HYDE	
	LINDSEY BEVERLY LINDA HUBER AIF	
	THOMAS M. WILLIAMS III	
	DORIS L. MEIGH ET VIR	
	DOROTHY L. MEYERS ET VIR	
	PAMELA OSTROSKE	
	EUGENE BLUMLING ET UX	
	MARIE E. CSONTOS	
	MARGO LONG	
	BARBARA A. WEST	
	REBECCA S. BASIL	
	CHRISTINA M. BASIL	
	ROSS V. BASIL	
	ANTHONY C. BASIL	

	LESSOR	DIST-TM/PAR
C	HG ENERGY II APPALACHIA LLC	4-7/12
D	ROGER R. KING ET UX	4-7/5
E	*HG ENERGY II APPALACHIA LLC	4-7/5.1
F	HG ENERGY II APPALACHIA LLC	4-7/12.1
G	HG ENERGY II APPALACHIA LLC	4-5/75.1
H	ROSEANNA KELLER ET VIR	4-5/75
J	LANE P. RINE ET UX	4-5/73
K	EMMA A. SNEDEKER	4-6/9
	NOREEN S. HEDRICK	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	KATHERINE MATHEWS	
	FLOYD EUGENE BOLEN JR.	
	ROBERT M. MERASHOFF	
	EQT PRODUCTION CO ET AL	
L	EMMA A. SNEDEKER	4-6/10
	NOREEN S. HEDRICK	
	CHESTNUT HOLDINGS LLC	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	ROBERT M. MERASHOFF	
	EQT PRODUCTION CO ET AL	
M	EMMA A. SNEDEKER	4-6/13.2
	NOREEN S. HEDRICK	
	CHESTNUT HOLDINGS LLC	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	ROBERT M. MERASHOFF	
	EQT PRODUCTION CO ET AL	

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UTM 17-NAD83(M)
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NAD83_WV NORTH
N:500603.563
E:1614494.534

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UTM 17-NAD83(M)
N:4415152.29
E:518734.60
NAD83_WV NORTH
N:507470.809
E:1609078.300

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

**FEBRUARY 19, 2019**



# FREELAND MOSH PAGE 2 OF 2

03/01/2019

13	RONALD J. CALENTINE	4-8\13.2
12	MOLLE ROSIER - EST	4-8\10
11	LEROY D. ROSIER EST	4-8\9
10	LANE P. & TONI L. RINE	4-8\7.3
9	LARRY M. & ROSEANNA J. KELLER	4-8\7.2
8	CONSOLIDATION COAL COMPANY	4-8\7.1
7	CONSOLIDATION COAL COMPANY	4-7\12.1
6	*CONSOLIDATION COAL COMPANY	4-7\2.1
5	LINDA J. KING	4-7\2
4	MARSHALL COUNTY SEWERAGE DIST.	4-7\2.7
3	CATHY J. & CARL F. JR., PETRUCCI	4-7\1.2
2	NORMAN L. & BIBIANA DERROW	4-7\20
1	JOSEPH L. FREELAND ET UX	4-7\21
	SURFACE OWNER	DIST-TM\PAR

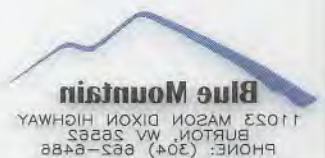
	LESSOR	DIST-TM\PAR
C	HG ENERGY II APPALACHIA LLC	4-7\12
D	ROGER R. KING ET UX	4-7\2
E	*HG ENERGY II APPALACHIA LLC	4-7\2.1
F	HG ENERGY II APPALACHIA LLC	4-7\12.1
G	HG ENERGY II APPALACHIA LLC	4-2\7.2.1
H	ROSEANNA KELLER ET VIR	4-2\7.2
J	LANE P. RINE ET UX	4-2\7.3
K	EMMA A. SNEDEKER	4-8\9
	NOREEN S. HEDRICK	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	KATHERINE MATHEWS	
	FLOYD EUGENE BOLDEN JR.	
	ROBERT M. MERAHSOFF	
	EQT PRODUCTION CO ET AL	
L	EMMA A. SNEDEKER	4-8\10
	NOREEN S. HEDRICK	
	CHESTNUT HOLDINGS LLC	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	ROBERT M. MERAHSOFF	
	EQT PRODUCTION CO ET AL	
M	EMMA A. SNEDEKER	4-8\13.2
	NOREEN S. HEDRICK	
	CHESTNUT HOLDINGS LLC	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	ROBERT M. MERAHSOFF	
	EQT PRODUCTION CO ET AL	

A	LESSOR	DIST-TM\PAR
B	JOSEPH FREELAND ET UX	4-7\21
	ANTHONY FRANCIS SPECHT	4-7\20
	DEBORAH DARLENE VENTLE	
	CHERYL DENISE VOSS ET VIR	
	SUSAN MAY	
	CATHERINE PASIN	
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	MARIE E. OSNITOS	
	MARGO LONG	
	BARBARA A. WEST	
	REBECCA S. BASIL	
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	ROSS V. BASIL	
	ANTHONY C. BASIL	

SURFACE HOLE LOCATION (SHL) UTM 17-ND83(M) N:4413087.74 E:250419.64	APPROX. LANDING POINT UTM 17-ND83(M) N:4413137.51 E:250042.88	BOTTOM HOLE LOCATION (BHL) UTM 17-ND83(M) N:4412152.29 E:218734.60
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\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

FEBRUARY 19, 2019



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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

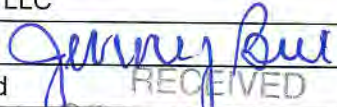
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Chevron Appalachia, LLC  
 By: Jenny Butchko  
 Its: Permitting Team Lead

  
**RECEIVED**  
 Office of Oil and Gas

Freeland Unit #2H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
A	4-7-21	FREELAND JOSEPH ET UX	Chevron U.S.A. Inc.	0.180	932/374	n/a	n/a	n/a
		SPECHT ANTHONY FRANCIS - SFX	Chevron U.S.A. Inc.	0.160	See Attached	n/a	n/a	n/a
		VENTILE DEBORAH DARLENE - SFX	Chevron U.S.A. Inc.	0.16	958/138	n/a	n/a	n/a
		VOSS CHERYL DENISE ET VIR - SFX	Chevron U.S.A. Inc.	0.16	958/150	n/a	n/a	n/a
		MAV SUSAN - SFX	Chevron U.S.A. Inc.	0.15	931/328	n/a	n/a	n/a
		PAZINI CATHERINE - SFX	Chevron U.S.A. Inc.	0.15	931/331	n/a	n/a	n/a
		FARINHA KENT LINDA - SFX	Chevron U.S.A. Inc.	0.15	932/253	n/a	n/a	n/a
		BOURQUE KRISTINE - SFX	Chevron U.S.A. Inc.	0.15	935/172	n/a	n/a	n/a
		GARNER CHARLES - SFX	Chevron U.S.A. Inc.	0.15	930/662	n/a	n/a	n/a
		GARNER FREDERICK H SR - SFX	Chevron U.S.A. Inc.	0.15	930/613	n/a	n/a	n/a
		GARNER DAVID - SFX	Chevron U.S.A. Inc.	0.15	929/520	n/a	n/a	n/a
		GARNER DORIS JEAN FALLIN - SFX	Chevron U.S.A. Inc.	0.15	931/337	n/a	n/a	n/a
		GARNER THOMAS L - SFX	Chevron U.S.A. Inc.	0.15	932/389	n/a	n/a	n/a
		HARPER KAREN - SFX	Chevron U.S.A. Inc.	0.15	931/322	n/a	n/a	n/a
		GARNER LESLIE - SFX	Chevron U.S.A. Inc.	0.15	932/380	n/a	n/a	n/a
		HARPER VALORIE - SFX	Chevron U.S.A. Inc.	0.15	932/383	n/a	n/a	n/a
		THOMPSON VIRGINIA - SFX	Chevron U.S.A. Inc.	0.15	930/619	n/a	n/a	n/a
		GARNER RUSSELL - SFX	Chevron U.S.A. Inc.	0.15	931/319	n/a	n/a	n/a
		DOUGLAS BARBARA - SFX	Chevron U.S.A. Inc.	0.15	931/334	n/a	n/a	n/a
		ZAREMBA LINDA - SFX	Chevron U.S.A. Inc.	0.15	931/325	n/a	n/a	n/a
SPLESS AMBER - SFX	Chevron U.S.A. Inc.	0.15	966/222	n/a	n/a	n/a		
SCALES SHEENA LEA - SFX	Chevron U.S.A. Inc.	0.15	941/365	n/a	n/a	n/a		
HUGHES WILLIAM R - SFX	Chevron U.S.A. Inc.	0.15	941/374	n/a	n/a	n/a		
MANZO ANTHONY F - SFX	Chevron U.S.A. Inc.	0.15	939/174	n/a	n/a	n/a		
MANZO DANIEL SR - SFX	Chevron U.S.A. Inc.	0.15	935/201	n/a	n/a	n/a		
ROBINSON ROBERT H SR - SFX	Chevron U.S.A. Inc.	0.15	932/271	n/a	n/a	n/a		
ROBINSON ROBERT H JR - SFX	Chevron U.S.A. Inc.	0.15	932/386	n/a	n/a	n/a		
SHROYER USA - SFX	Chevron U.S.A. Inc.	0.15	934/468	n/a	n/a	n/a		
ROBINSON KEITH A - SFX	Chevron U.S.A. Inc.	0.15	932/283	n/a	n/a	n/a		
SIMONETTI JOHN L - SFX	Chevron U.S.A. Inc.	0.15	932/238	n/a	n/a	n/a		
SIMONETTI JOHN M - SFX	Chevron U.S.A. Inc.	0.15	932/235	n/a	n/a	n/a		
SIMONETTI JAMES - SFX	Chevron U.S.A. Inc.	0.15	932/232	n/a	n/a	n/a		

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 WV Department of Environmental Protection

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Freeland Unit #2H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	✓	CUDDIHY CHARLES D - SFX	Chevron U.S.A. Inc.	0.15	932/274	n/a	n/a	n/a
	✓	CUDDIHY DAVID - SFX	Chevron U.S.A. Inc.	0.15	932/247	n/a	n/a	n/a
	✓	DRUMMOND CAROL - SFX	Chevron U.S.A. Inc.	0.15	934/106	n/a	n/a	n/a
	✓	KAVANAS MARGO - SFX	Chevron U.S.A. Inc.	0.15	929/523	n/a	n/a	n/a
	✓	KING WELDON L ET UX - SFX	Chevron U.S.A. Inc.	0.16	937/347	n/a	n/a	n/a
	✓	DEBLASIO RENA ELAINE - SFX	Chevron U.S.A. Inc.	0.15	954/22	n/a	n/a	n/a
	✓	WILLIAMS REBELLEE - SFX	Chevron U.S.A. Inc.	0.15	976/268	n/a	n/a	n/a
	✓	SHEETS GARY ET UX - SFX	Chevron U.S.A. Inc.	0.15	944/397	n/a	n/a	n/a
	✓	MCALISTER JULIE - SFX	Chevron U.S.A. Inc.	0.15	954/25	n/a	n/a	n/a
	✓	VON BLON JUDITH R - SFX	Chevron U.S.A. Inc.	0.14	928/186	n/a	n/a	n/a
	✓	WASHABAUGH REGINA - SFX	Chevron U.S.A. Inc.	0.14	928/168	n/a	n/a	n/a
	✓	MCDANIEL SHEILA - SFX	Chevron U.S.A. Inc.	0.14	928/183	n/a	n/a	n/a
	✓	VAUGHN DAVID JR - SFX	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
	✓	COOK ELLEN - SFX	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
	✓	HORNSBY VIRGINIA - SFX	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
	✓	CHENOWETH PATRICIA - SFX	Chevron U.S.A. Inc.	0.14	942/536	n/a	n/a	n/a
	✓	CALDWELL DORIS - SFX	Chevron U.S.A. Inc.	0.14	931/316	n/a	n/a	n/a
	✓	BELL LAURAL - SFX	Chevron U.S.A. Inc.	0.15	934/103	n/a	n/a	n/a
	✓	DEMPEY SHANNON - SFX	Chevron U.S.A. Inc.	0.18	949/16	n/a	n/a	n/a
	✓	CIRULLO JACQUELINE - SFX	Chevron U.S.A. Inc.	0.15	932/256	n/a	n/a	n/a
	✓	RUCKMAN CURTISS - SFX	Chevron U.S.A. Inc.	0.15	934/97	n/a	n/a	n/a
	✓	ZISKO WENDY ELIZABETH	Chevron U.S.A. Inc.	0.15	944/394	n/a	n/a	n/a
	✓	COX-WEIGUM DARLENE - LIFE ESTATE	Chevron U.S.A. Inc.	0.16	1008/564	n/a	n/a	n/a
	✓	RUCKMAN MICHAEL	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
	✓	GROSSMAN JAMIE	Chevron U.S.A. Inc.	0.16	979/337	n/a	n/a	n/a
	✓	HYDE ORPHA MAY - SFX	Noble Energy, Inc.	0.15	833/470	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
	✓	LINDSEY BEVERLY LINDA HUBER AIF - SFX	Chevron U.S.A. Inc.	0.15	944/388	n/a	n/a	n/a

B 4-7-20

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Freeland Unit #2H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		WILLIAMS THOMAS M III - SFX ✓	Noble Energy, Inc.	0.15	805/594	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		MEIGH DORIS L ET VIR - SFX ✓	Noble Energy, Inc.	0.15	805/567	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		MEYERS DOROTHY L ET VIR - SFX ✓	Noble Energy, Inc.	0.15	805/565	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		OSTROSKIE PAMELA - SFX ✓	Chevron U.S.A. Inc.	0.16	949/67	n/a	n/a	n/a
		BLUMLING EUGENE ET UX - SFX ✓	Noble Energy, Inc.	0.15	805/569	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		CSONTOS MARIE E - SFX ✓	Noble Energy, Inc.	0.15	803/593	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		MARGO LONG - SFX ✓	Noble Energy, Inc.	0.15	803/622	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		WEST BARBARA A - SFX ✓	Noble Energy, Inc.	0.15	805/571	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		BASIL REBECCA S - SFX ✓	Noble Energy, Inc.	0.15	805/563	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		BASIL CHRISTINA M - SFX ✓	Noble Energy, Inc.	0.15	805/561	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a

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Freeland Unit #2H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		BASIL ROSS V - SFX	Noble Energy, Inc.	0.15	816/281	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		BASIL ANTHONY C - SFX	Noble Energy, Inc.	0.15	803/610	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
C	4-7-12	HG ENERGY II APPALACHIA LLC KING ROGER R ET UX	Chevron U.S.A. Inc.	0.2	954/478	n/a	n/a	n/a
D	4-7-5		Chesapeake Appalachia, LLC	0.125	700/415	23/127 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
E	4-7-5.1	HG ENERGY II APPALACHIA LLC	Chevron U.S.A. Inc.	0.2	954/478	n/a	n/a	n/a
F	4-7-12.1	HG ENERGY II APPALACHIA LLC	Chevron U.S.A. Inc.	0.2	954/478	n/a	n/a	n/a
G	4-5-75.1	HG ENERGY II APPALACHIA LLC KELLER ROSEANNA ET VIR	Chevron U.S.A. Inc.	0.2	954/478	n/a	n/a	n/a
H	4-5-75		Chesapeake Appalachia, LLC	0.180	714/190	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
J	4-5-73	RINE LANE P ET UX SNEDEKER EMMA A - SFX	Chevron U.S.A. Inc.	0.140	796/226	n/a	n/a	n/a
		HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc.	0.150	803/580	n/a	n/a	n/a
		SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	0.150	807/155	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	0.150	803/63	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	0.150	801/501	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	0.150	801/511	n/a	n/a	n/a
K	4-6-9	CALLIHAN DELORES J - SFX WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	0.150	801/521	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	0.150	803/53	n/a	n/a	n/a
		MATHEWS KATHERINE - SFX	Chevron U.S.A. Inc.	0.150	813/610	n/a	n/a	n/a
		BOLEN FLOYD EUGENE JR - SFX	Chevron U.S.A. Inc.	0.150	813/620	n/a	n/a	n/a
		MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	0.150	917/45	n/a	n/a	n/a
			Chevron U.S.A. Inc.	0.150	917/48	n/a	n/a	n/a
			Chevron U.S.A. Inc.	0.160	817/479	n/a	n/a	n/a

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Freeland Unit #2H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
L	4-6-10	EQT PRODUCTION CO ET AL	Chevron U.S.A. Inc.	0.180	955/521	n/a	n/a	n/a
		SNEDEKER EMMA A - SFX	Chevron U.S.A. Inc.	0.150	803/580	n/a	n/a	n/a
		HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc.	0.150	807/155	n/a	n/a	n/a
		CHESTNUT HOLDINGS LLC	Republic Energy Ventures, LLC	0.160	839/176	32/415 Republic Energy Ventures, LLC to Chevron U.S.A. Inc.	n/a	n/a
		SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	0.150	803/63	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	0.150	801/501	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	0.150	801/511	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	0.150	801/521	n/a	n/a	n/a
		CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	0.150	803/53	n/a	n/a	n/a
		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	0.150	813/610	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	0.150	813/620	n/a	n/a	n/a
		MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	0.160	817/479	n/a	n/a	n/a
M	4-6-13.2	EQT PRODUCTION CO ET AL	Chevron U.S.A. Inc.	0.180	955/521	n/a	n/a	n/a
		SNEDEKER EMMA A - SFX	Chevron U.S.A. Inc.	0.150	803/580	n/a	n/a	n/a
		HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc.	0.150	807/155	n/a	n/a	n/a
		CHESTNUT HOLDINGS LLC	Republic Energy Ventures, LLC	0.160	839/176	32/415 Republic Energy Ventures, LLC to Chevron U.S.A. Inc.	n/a	n/a
		SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	0.150	803/63	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	0.150	801/501	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	0.150	801/511	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	0.150	801/521	n/a	n/a	n/a
		CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	0.150	803/53	n/a	n/a	n/a
		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	0.150	813/610	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	0.150	813/620	n/a	n/a	n/a
		MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	0.160	817/479	n/a	n/a	n/a
EQT PRODUCTION CO ET AL	Chevron U.S.A. Inc.	0.180	955/521	n/a	n/a	n/a		

03/01/2019



Kevin J Cruz  
Land Representative, AMBU

September 10, 2018

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

**RE: Freeland 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H**

To Whom It May Concern,

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Kevin J Cruz".

Kevin J Cruz  
Land Representative

Chevron North America Exploration and Production Company  
(a Chevron U.S.A. Inc. division)  
700 Cherrington Parkway Coraopolis, PA 15108  
Tel 412-865-1562  
[kevincruz@chevron.com](mailto:kevincruz@chevron.com)

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

Date of Notice Certification: 12/14/18

API No. 47- \_\_\_\_\_  
Operator's Well No. M02H  
Well Pad Name: Freeland

**Notice has been given:**

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>520419.64</u>
County: <u>Marshall</u>		Northing: <u>4413087.74</u>
District: <u>Clay</u>	Public Road Access: <u>CR 21 Robert Ridge Road</u>	
Quadrangle: <u>Powhatan Point, WV 7.5'</u>	Generally used farm name: <u>Freeland</u>	
Watershed: <u>Short Creek - Ohio River</u>		

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

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

**Required Attachments:**

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

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7/2/18  
WV Department of  
Environmental Protection

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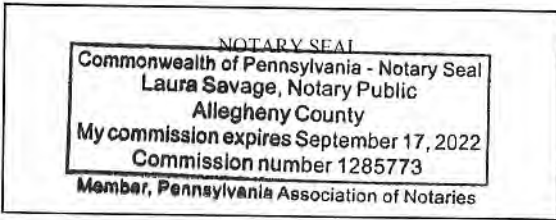
**Certification of Notice is hereby given:**

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

*Jenny Bu*

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

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



Commonwealth of Pennsylvania  
County of Allegheny  
Subscribed and sworn before me this 24<sup>th</sup> day of September 2018.  
Laura Savage Notary Public  
My Commission Expires September 17, 2022

**Oil and Gas Privacy Notice:**

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

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Environmental Protection

03/01/2019

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*[Handwritten signature]*

Commonwealth of Pennsylvania - Notary Seal Laura Savino, Notary Public Allegheny County My commission expires September 17, 2020 Commission number 128873
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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION

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

Date of Notice: 11/15/18 Date Permit Application Filed: 12/14/18  
Notice of:

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

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

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

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

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

- SURFACE OWNER(s)  
Name: Joseph L. Freeland and Debra J. Freeland  
Address: 813 Clearview Terrace  
New Martinsville, WV 26155  
Name: Joseph L. Freeland  
Address: 813 Clearview Terrace  
New Martinsville, WV 260155
- SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_
- SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

- COAL OWNER OR LESSEE  
Name: Consol Mining Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317
- COAL OPERATOR  
Name: Murray Energy Corp.  
Address: 48226 National Road  
St. Clairsville, OH 43950
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attachment  
Address: \_\_\_\_\_
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary **DEC 17 2018**

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WV Department of Environmental Protection

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**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

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**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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Environmental Protection

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API NO. 47- \_\_\_\_\_ - **03/01/2019**  
OPERATOR WELL NO. M02H  
Well Pad Name: Freeland

**Notice is hereby given by:**

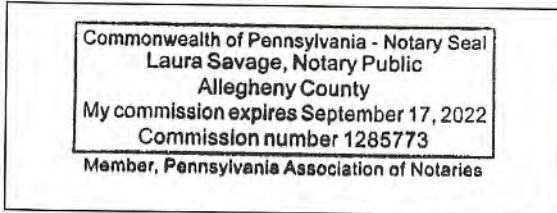
Well Operator: Chevron Appalachia, LLC  
Telephone: 412-865-1533  
Email: JZYK@chevron.com

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

**Oil and Gas Privacy Notice:**

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

*Jenny Butcher*



*Commonwealth of Pennsylvania  
County of Allegheny*

Subscribed and sworn before me this 24<sup>th</sup> day of September 2018.

Laura Savage Notary Public

My Commission Expires September 17, 2022

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03/01/2019

441 3018 004

Commonwealth of Pennsylvania - Notary Seal  
 James Savage, Notary Public  
 Allegheny County  
 My commission expires September 1, 2021  
 Commission number 158713  
 Member, Pennsylvania Association of Notaries

4705102144

03/01/2019

Attachment to WW-6A

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

OPERATOR WELL NO. M02H

Well Pad Name: Freeland

- SURFACE OWNER**  
Name:  
Address:
- COAL OWNER OR LESSEE**  
Name:  
Address:
- COAL OPERATOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Joseph L. Freeland ET UX  
Address: 813 Clearview Terrace  
New Martinsville, WV 26155
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Cathy J. and Carl F Petrucci, Jr.  
Address: 863 Petrucci Lane  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Norman L. Darrow, ET UX  
Address: 97 Old Homestead Lane  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:

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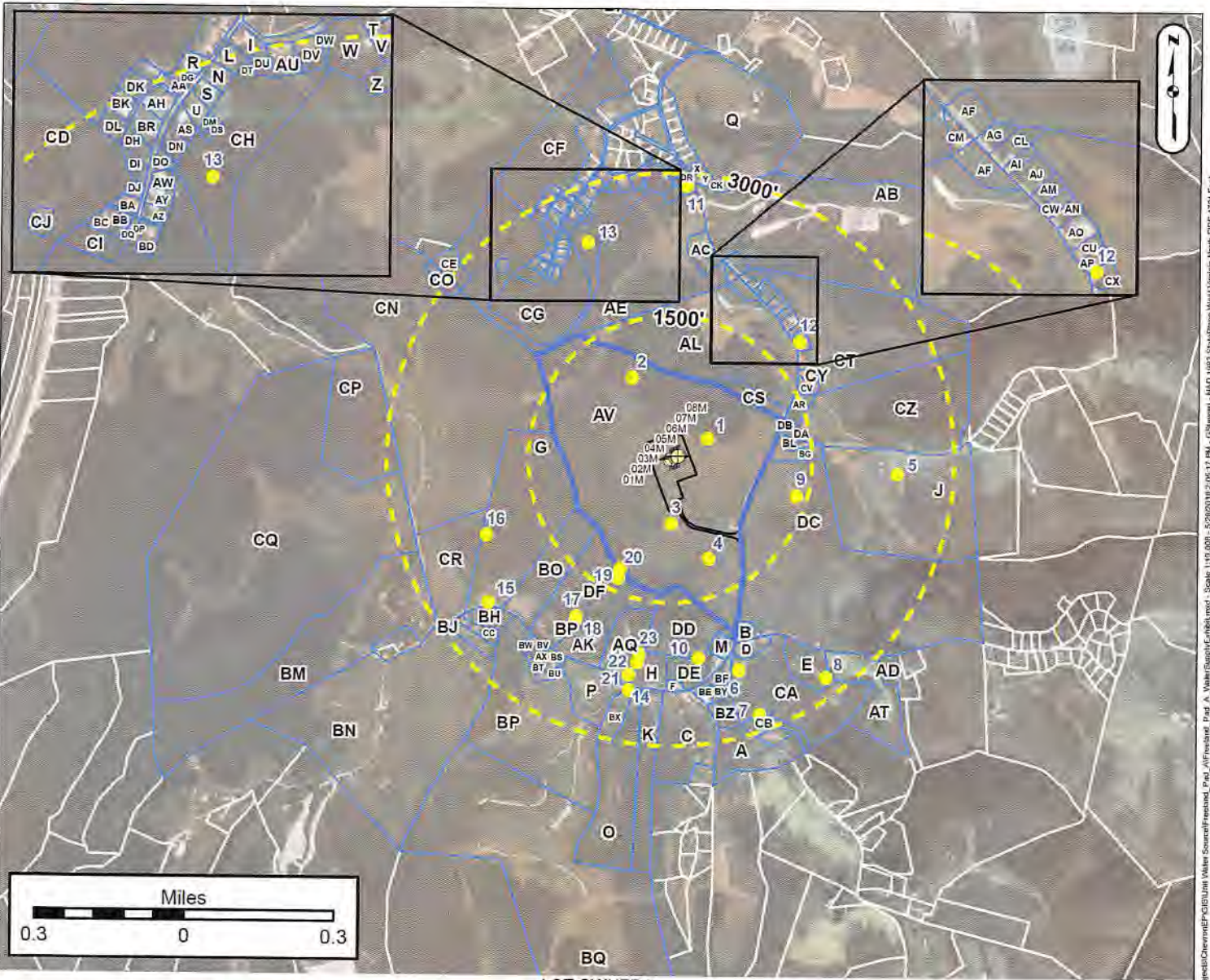
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# WATER SUPPLY EXHIBIT FREELAND PAD A 4705102147

03/01/2019



### LOT OWNERS

Parcel ID	Owner	Parcel ID	Owner	Parcel ID	Owner	Parcel ID	Owner
25-04 1300190000	BAHNETT GREG ELWOOD	25-04 7000450000	DAVIS ERIC G	25-04 7001800000	CH	25-04 7000500000	FREELAND BRON
25-04 7000900000	HUNT WILLIAM ROBERT	25-04 7000120000	HENDERSON BLANCO	25-04 7000200000	AS	25-04 7000500000	FREELAND BRON
25-04 1300070000	JOHNS RICHARD ET UP	25-04 7000130000	NESTOR JAMES ET UP	25-04 7000130000	SO	25-04 7000500000	FREELAND BRON
25-04 7000120000	GRIFFITH LINDSEY ET UP	25-04 7000120000	THOMPSON PHILLIP E & JANE	25-04 7000120000	DA	25-04 7000500000	FREELAND BRON
25-04 7000120000	FRANZOSI EUSTACE	25-04 7000120000	MATHIAS RICHARD A & LARRY S	25-04 7000120000	HT	25-04 7000500000	FREELAND BRON
25-04 7000110000	MASON SHIRLEY A	25-04 7000120000	BERGER GARY KEITH ET UP	25-04 7000120000	AW	25-04 7000500000	FREELAND BRON
25-04 7000120000	FERRELLI ROBERTA & BRIGIDA	25-04 7000120000	WASSON JOHN R & NANCY LOUI	25-04 7000120000	AV	25-04 7000500000	FREELAND BRON
25-04 7000120000	ROBINSON MARY ET UP	25-04 7000120000	SCHWING LIONEL ET UP	25-04 7000120000	AV	25-04 7000500000	FREELAND BRON
25-04 7000120000	RYAN WILLIAM ET UP	25-04 7000120000	HARTON ERIC E & NANCY LOUI	25-04 7000120000	IC	25-04 7000500000	FREELAND BRON
25-04 7000120000	MAGGIORINAM STEVEN ET UP	25-04 7000120000	BERNESE M & EUGENE BY	25-04 7000120000	BA	25-04 7000500000	FREELAND BRON
25-04 1300040000	DANNEY SHAWNY ET UP	25-04 7000120000	BERNESE M & EUGENE BY	25-04 7000120000	BB	25-04 7000500000	FREELAND BRON
25-04 7000120000	HILL LONNIE GLE & TAMARISE	25-04 7000120000	BRUBA ROBERT W ET UP	25-04 7000120000	IC	25-04 7000500000	FREELAND BRON
25-04 7000120000	RATUFFI RENEVE	25-04 7000120000	CANTIGNON PATRICIA A LISE	25-04 7000120000	IC	25-04 7000500000	FREELAND BRON
25-04 7000120000	ROSTINE MICHAEL G ET UP	25-04 1300040000	ELLIOTT KRISTIA & DAVID ET UP	25-04 7000120000	BE	25-04 7000500000	FREELAND BRON
25-04 7000120000	BLER CHARLES W ET UP	25-04 7000120000	THURTELL JENNIFER L ET UP	25-04 7000120000	BE	25-04 7000500000	FREELAND BRON
25-04 7000120000	HARTLEY CHARLES COLBERT ET UP	25-04 7000120000	BRISSE JAMES ET UP	25-04 7000120000	HE	25-04 7000500000	FREELAND BRON
25-04 7000120000	MITCHEL JOSEPH M ET UP	25-04 7000120000	DAUG DAVID J	25-04 7000120000	BE	25-04 7000500000	FREELAND BRON
25-04 7000120000	BRINA JAMES A & SHELBY M - WOOD	25-04 7000120000	ANUNZIATI PAUL A & BETTY L	25-04 7000120000	BE	25-04 7000500000	FREELAND BRON
25-04 7000120000	LUCAS ROBERT E ET UP	25-04 7000120000	HOOD DAVID BRUCE ET UP	25-04 7000120000	BE	25-04 7000500000	FREELAND BRON
25-04 7000120000	MASTERS LACHELLE M	25-04 7000120000	MASQUERADO JAMES E & LARRY A	25-04 7000120000	BE	25-04 7000500000	FREELAND BRON
25-04 7000120000	MAYER BARBARA A - LISE	25-04 7000120000	BRUCKER GEORGE ET UP	25-04 7000120000	BE	25-04 7000500000	FREELAND BRON

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

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

DEC 17 2018

Department of Environmental Protection

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



Water Supply Exhibit  
Freeland Pad

03/01/2019  
EGM

4705102144

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	FREELAND JOSEPH L ET UX	Spring	1207	3599 ROBERTS RIDGE	304-771-3000
2	FREELAND JOSEPH L ET UX	Spring	1140	3599 ROBERTS RIDGE	304-771-3000
3	FREELAND JOSEPH L ET UX	Spring	1239	3599 ROBERTS RIDGE	304-771-3000
4	FREELAND JOSEPH L ET UX	Spring	1216	3599 ROBERTS RIDGE	304-771-3000
5	HIGGINBOTHAM STEVEN L ET UX	Spring	1164	211 FALLEN TIMBER LANE	304-845-5357
6	MASON LEMONT & RHONDA L	Pond	1326	4274 ROBERTS RDGE ROAD	304-845-9182 / 304-559-5535 / 304-639-5338
7	MASON LEMONT & RHONDA L	Stream	1288	4274 ROBERTS RDGE ROAD	304-845-9182 / 304-559-5535 / 304-639-5338
8	MASON LEMONT & RHONDA L	Stream	1229	4274 ROBERTS RDGE ROAD	304-845-9182 / 304-559-5535 / 304-639-5338
9	PETRUCCI CATHY J & CARL F JR	Well	1264	863 PETRUCCI LANE	304-843-1791
10	ROBERTS RIDGE VOL FIRE DEPT	Spring	1320*	23 KANSAS RIDGE ROAD	304-559-3241
11	THOMPSON PHILLIP E & JANE	Well	1260	2823 ROBERTS RIDGE RODD	304-845-4818
12	YOHO DAVID BOYD ET UX	Spring	1315	3202 ROBERTS RIDGE ROAD	304-843-1625 or 304-639-2114
13	YOUNG MICHAEL WILLIAM	Stream	1136	332 SENTIMENTAL DRIVE	304-845-7609
14	DANAHEY SHAWN T & KELLY J	Well	1323*	212 KANSAS RIDGE LANE	304-215-0385
15	DERROW NORMAN L & BIBIANA	Well	1266*	97 OLD HOMESTEAD LANE	304-845-6769

No.	SUPPLY COORDINATES	01M	02M	03M	04M	05M	06M	07M	08M
1	39°52'05.45988000"N 80°45'35.69004000"W	451	434	418	405	386	371	360	347
2	39°52'11.61012000"N 80°45'46.06992000"W	947	948	950	951	951	953	954	956
3	39°51'56.54016000"N 80°45'40.34016000"W	676	682	688	694	704	710	716	723
4	39°51'52.99992000"N 80°45'35.16984000"W	1,120	1,120	1,120	1,121	1,124	1,125	1,127	1,129
5	39°52'02.17992000"N 80°45'09.90000000"W	2,403	2,388	2,372	2,361	2,345	2,332	2,322	2,310
6	39°51'41.64480000"N 80°45'30.77640000"W	2,316	2,317	2,317	2,319	2,323	2,324	2,326	2,328
7	39°51'37.06560000"N 80°45'27.90720000"W	2,828	2,828	2,829	2,830	2,833	2,834	2,835	2,837
8	39°51'41.01840000"N 80°45'19.02240000"W	2,811	2,807	2,802	2,800	2,798	2,794	2,792	2,790
9	39°51'59.73120000"N 80°45'23.52960000"W	1,384	1,370	1,357	1,347	1,334	1,323	1,314	1,304
10	39°51'42.75000000"N 80°45'36.29160000"W	2,099	2,103	2,107	2,111	2,117	2,121	2,125	2,129
11	39°52'31.55016000"N 80°45'39.21984000"W	2,869	2,862	2,855	2,849	2,840	2,834	2,829	2,823
12	39°52'15.61440000"N 80°45'23.52960000"W	1,834	1,818	1,802	1,790	1,772	1,758	1,747	1,735
13	39°52'25.44996000"N 80°45'52.44012000"W	2,429	2,429	2,429	2,429	2,427	2,427	2,427	2,427
14	39°51'39.31200000"N 80°45'45.64800000"W	2,450	2,510	2,475	2,467	2,458	2,486	2,495	2,502
15	39°51'48.06000000"N 80°46' 04.92600000"W	2,434	2,536	2,479	2,466	2,450	2,497	2,511	2,523

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\*ELEVATIONS SHOWN ARE COLLECTED IN THE FIELD. ALL OTHER ELEVATIONS DETERMINED VIA GOOGLE EARTH.



Water Supply Exhibit  
Freeland Pad

08/01/2019

4705102144

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
16	DERROW NORMAN L & BIBIANA	Spring	1108*	97 OLD HOMESTEAD LANE	304-845-6769
17	DERROW NORMAN L ET UX	Pond	1232*	97 OLD HOMESTEAD LANE	304-845-6769
18	DERROW NORMAN L ET UX	Pond	1232*	97 OLD HOMESTEAD LANE	304-845-6769
19	DERROW NORMAN L ET UX	Spring	1097*	97 OLD HOMESTEAD LANE	304-845-6769
20	DERROW NORMAN L ET UX	Stream	1088*	97 OLD HOMESTEAD LANE	304-845-6769
21	MASON JAMES E II & CARRIE A	Spring	1292*	323 KANSAS RIDGE ROAD	304-843-5211
22	ROBINSON MARK A ET UX	Spring	1276*	197 KANSAS RIDGE ROAD	304-845-1664
23	ROBINSON MARK A ET UX	Spring	1235*	197 KANSAS RIDGE ROAD	304-845-1664

No.	SUPPLY COORDINATES	01M	02M	03M	04M	05M	06M	07M	08M
16	39°51'54.98280000"N 80°46' 05.36880000"W	2,097	2,202	2,144	2,131	2,114	2,162	2,177	2,189
17	39°51'46'.75680000"N 80°45'52.92720000"W	1,920	2,006	1,957	1,946	1,933	1,973	1,985	1,995
18	39°51'46'.49400000"N 80°45'53.03520000"W	1,947	2,033	1,984	1,974	1,960	2,000	2,012	2,022
19	39°51'50.80680000"N 80°45'47.37960000"W	1,360	1,439	1,394	1,384	1,372	1,408	1,419	1,429
20	39°51'51.82200000"N 80°45'47.13120000"W	1,258	1,338	1,292	1,282	1,270	1,307	1,318	1,327
21	39°51'40.91760000"N 80°45'45.67680000"W	2,290	2,351	2,315	2,308	2,299	2,327	2,336	2,343
22	39°51'42.18120000"N 80°45'44.55000000"W	2,150	2,208	2,174	2,167	2,158	2,186	2,194	2,201
23	39°51'42.99120000"N 80°45'44.33040000"W	2,066	2,125	2,091	2,083	2,075	2,102	2,110	2,117

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\*ELEVATIONS SHOWN ARE COLLECTED IN THE FIELD. ALL OTHER ELEVATIONS DETERMINED VIA GOOGLE EARTH.



03/01/2019

03/01/2019

STATE OF WEST VIRGINIA 4705102144  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF INTENT TO DRILL

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

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

**Date of Notice:** 11/15/18 **Date Permit Application Filed:** 12/14/18

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

HAND DELIVERY  CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Joseph L. Freeland and Debra J. Freeland  
Address: 813 Clearview Terrace  
New Martinsville, WV 26155

Name: Joseph L. Freeland  
Address: 813 Clearview Terrace  
New Martinsville, WV 26155

**Notice is hereby given:**

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

State: West Virginia  
County: Marshall  
District: Clay  
Quadrangle: Powhatan Point, WV 7.5'  
Watershed: Short Creek - Ohio River

UTM NAD 83 Easting: 520419.64  
Northing: 4413087.74  
Public Road Access: CR 21 Robert Ridge Road  
Generally used farm name: Freeland

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: Chevron Appalachia, LLC  
Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Telephone: 412-865-1533  
Email: JZYK@chevron.com  
Facsimile: 412-865-2403

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

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**Oil and Gas Privacy Notice:**

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

WV Department of  
Environmental Protection

4705102144 03/01/2019

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

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

**Date of Notice:** 11/15/18 **Date Permit Application Filed:** 12/14/18

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND DELIVERY

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

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

Name: Joseph L. Freeland and Debra J. Freeland  
Address: 813 Clearview Terrace  
New Martinsville, WV 26155

Name: Joseph L. Freeland  
Address: 813 Clearview Terrace  
New Martinsville, WV 26155

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>520419.64</u>
County:	<u>Marshall</u>	Northing:	<u>4413087.74</u>
District:	<u>Clay</u>	Public Road Access:	<u>CR 21 Robert Ridge Road</u>
Quadrangle:	<u>Powhatan Point, WV 7.5'</u>	Generally used farm name:	<u>Freeland</u>
Watershed:	<u>Short Creek - Ohio River</u>		

**This Notice Shall Include:**

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

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

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

**Oil and Gas Privacy Notice:**

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

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Environmental Protection



STATE OF WEST VIRGINIA 4705102144  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**VOLUNTARY STATEMENT OF NO OBJECTION**

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>520419.64</u>
County:	<u>Marshall</u>	UTM NAD 83 Northing:	<u>4413087.74</u>
District:	<u>Clay</u>	Public Road Access:	<u>CR 21 Robert Ridge Road</u>
Quadrangle:	<u>Powhatan Point, WV 7.5'</u>	Generally used farm name:	<u>Freeland</u>
Watershed:	<u>Short Creek - Ohio River</u>		

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

\*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: Joseph K. Freeland  
Print Name: JOSEPH K. FREEL.  
Date: 11-20-18

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: \_\_\_\_\_  
By: \_\_\_\_\_  
Its: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

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**Oil and Gas Privacy Notice:**

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

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STATE OF WEST VIRGINIA **4705102144**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**VOLUNTARY STATEMENT OF NO OBJECTION**

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>520419.638</u>
County:	<u>Marshall</u>		Northing:	<u>4413087.742</u>
District:	<u>Clay</u>	Public Road Access:	<u>Robers Ridge Road</u>	
Quadrangle:	<u>Powhatan Point 7.5'</u>	Generally used farm name:	<u>Freeland</u>	
Watershed:	<u>Upper Ohio-Beaver</u>			

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: <u>Murray American Energy Inc.</u></p> <p>By: <u>Mason Smith</u></p> <p>Its: <u>Coal, oil + gas relations manager</u></p> <p>Signature: <u>Mason Smith</u></p> <p>Date: <u>10-29-18</u></p>
--	--

**Oil and Gas Privacy Notice:**

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

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Department of Environmental Protection



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

November 2, 2018

Jill M. Newman  
Deputy Commissioner

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

Subject: DOH Permit for the Freeland Pad, Marshall County  
Freeland M02H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2018-0862 for the subject site to Chevron North America Exploration and Production Company for access to the State Road for the well pad located off of Marshall County Route 21 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: Nikolai Softcheck  
Chevron Appalachia, LLC  
CH, OM, D-6  
File

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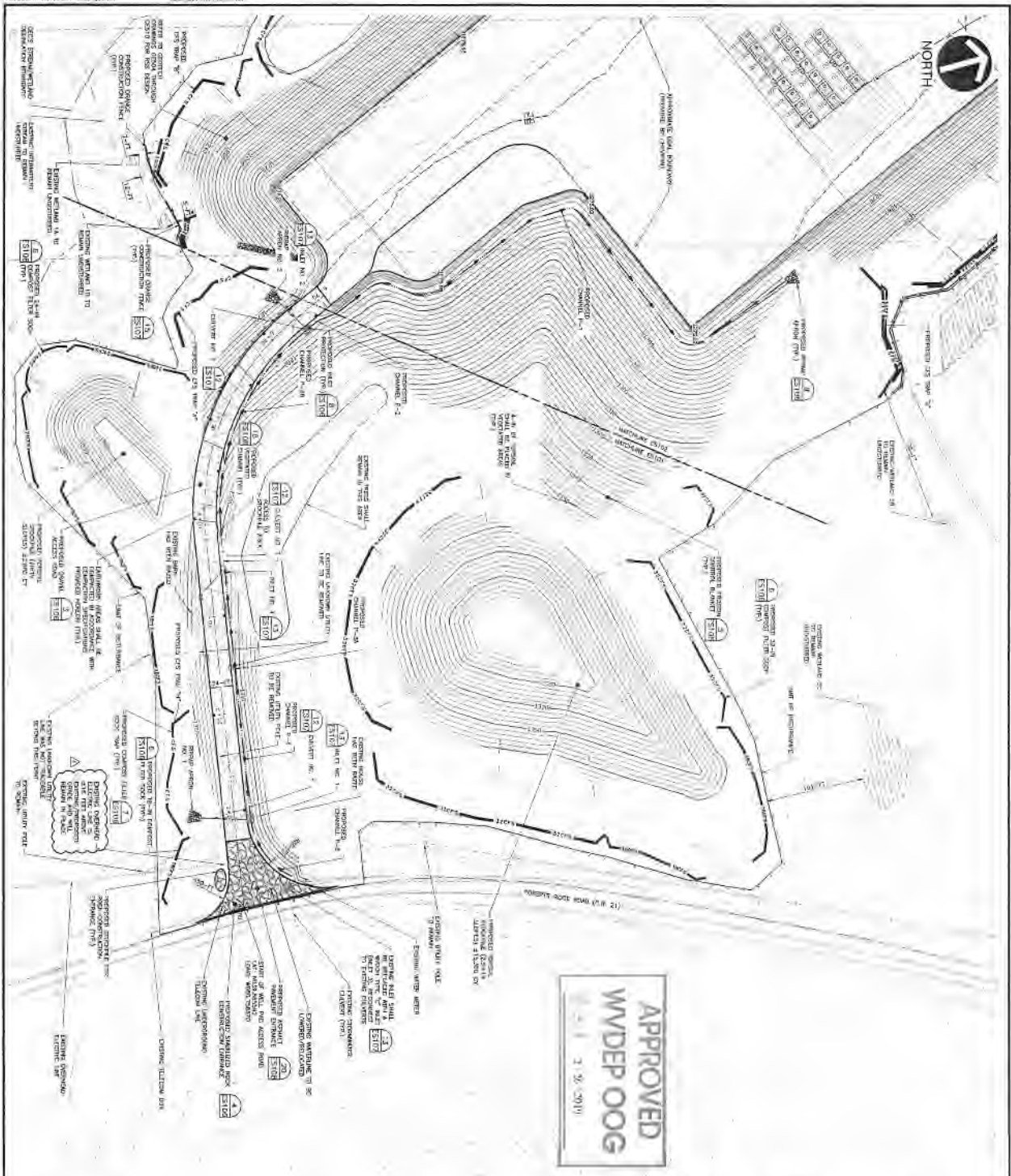
WV Department of  
Environmental Protection

**Hydraulic Fracturing Fluid Additives**

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

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Environmental Protection





**APPROVED**  
**WVDEP OOG**  
DATE: 12/20/2018



- STREAM AND WETLAND NOTES**
1. WETLAND BOUNDARIES ARE SHOWN BASED UPON THE FOLLOWING DATA:
    - a. 1:25,000 SCALE AERIAL PHOTOGRAPHS FROM 1984
    - b. 1:25,000 SCALE AERIAL PHOTOGRAPHS FROM 2001
    - c. 1:25,000 SCALE AERIAL PHOTOGRAPHS FROM 2008
    - d. 1:25,000 SCALE AERIAL PHOTOGRAPHS FROM 2015
  2. THE CHANNELS SHOWN ARE BASED UPON THE LINE OF BEST FIT OF THE CHANNEL CENTERLINE AS SHOWN ON THE MAP. CHANNEL CENTERLINE IS THE CENTERLINE OF THE CHANNEL AS SHOWN ON THE MAP.
  3. CHANNELS SHOWN ARE BASED UPON THE LINE OF BEST FIT OF THE CHANNEL CENTERLINE AS SHOWN ON THE MAP.

- CONSTRUCTION SPECIFICATIONS**
1. ALL CHANNELS SHALL BE CONSTRUCTED WITH A MINIMUM CHANNEL WIDTH OF 10 FEET AND A MINIMUM CHANNEL DEPTH OF 3 FEET.
  2. ALL CHANNELS SHALL BE CONSTRUCTED WITH A MINIMUM CHANNEL WIDTH OF 10 FEET AND A MINIMUM CHANNEL DEPTH OF 3 FEET.
  3. ALL CHANNELS SHALL BE CONSTRUCTED WITH A MINIMUM CHANNEL WIDTH OF 10 FEET AND A MINIMUM CHANNEL DEPTH OF 3 FEET.

- REFERENCES**
1. WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, "WETLANDS AND STREAMS REGULATIONS", 2018.
  2. WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, "WETLANDS AND STREAMS REGULATIONS", 2018.
  3. WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, "WETLANDS AND STREAMS REGULATIONS", 2018.

**REVISION RECORD**

NO.	DATE	DESCRIPTION
1	12/20/2018	ISSUED FOR PERMIT
2	12/20/2018	ISSUED FOR PERMIT
3	12/20/2018	ISSUED FOR PERMIT
4	12/20/2018	ISSUED FOR PERMIT
5	12/20/2018	ISSUED FOR PERMIT
6	12/20/2018	ISSUED FOR PERMIT
7	12/20/2018	ISSUED FOR PERMIT
8	12/20/2018	ISSUED FOR PERMIT
9	12/20/2018	ISSUED FOR PERMIT
10	12/20/2018	ISSUED FOR PERMIT

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