

west virginia department of environmental protection

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

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

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

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re:

Permit approval for FREELAND M08H

47-051-02154-00-00

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 easing. 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 M08H

JOSEPH L. FREELAND ET UX Farm Name:

U.S. WELL NUMBER:

47-051-02154-00-00

Horizontal 6A New Drill

Date Issued: 3/1/2019

API Number:	

PERMIT CONDITIONS 4705103/08/2019

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.

A	PI]	Nw	mb	er:			
 	Z	7	Λ		4	03/08/2019	9

PERMIT CONDITIONS4705102154

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



west virginia department of environmental protection

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

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

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

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

- OOG, an office within the West Virginia Department of Environmental Protection, is the agency
 with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and
 the rules and regulations promulgated thereunder.
- Chevron Appalachia, LLC is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 611, Moon Township, Pennsylvania.
- 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.
- 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:

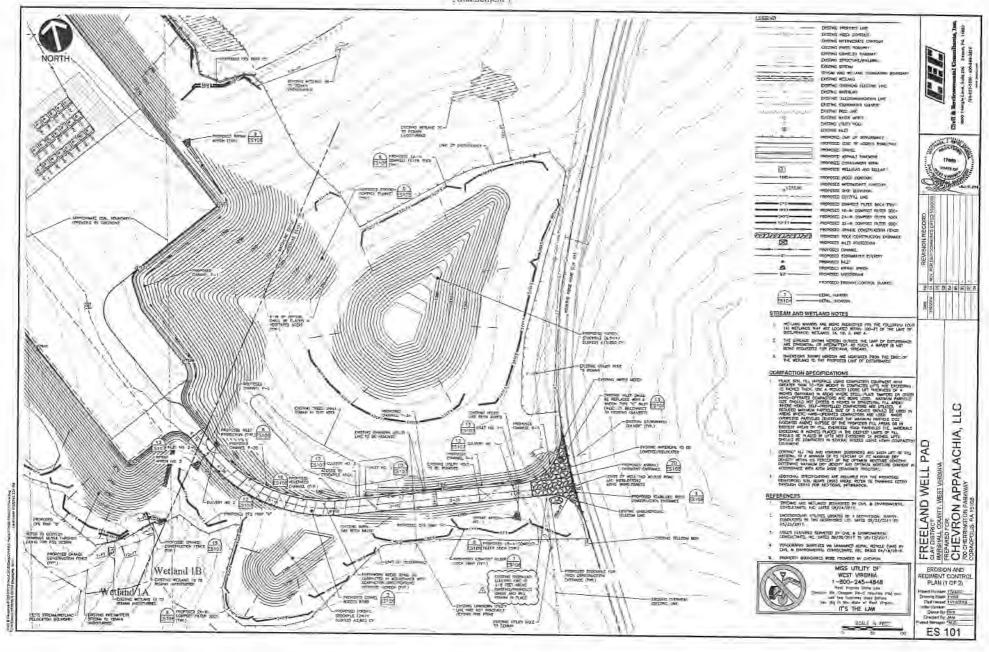
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment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

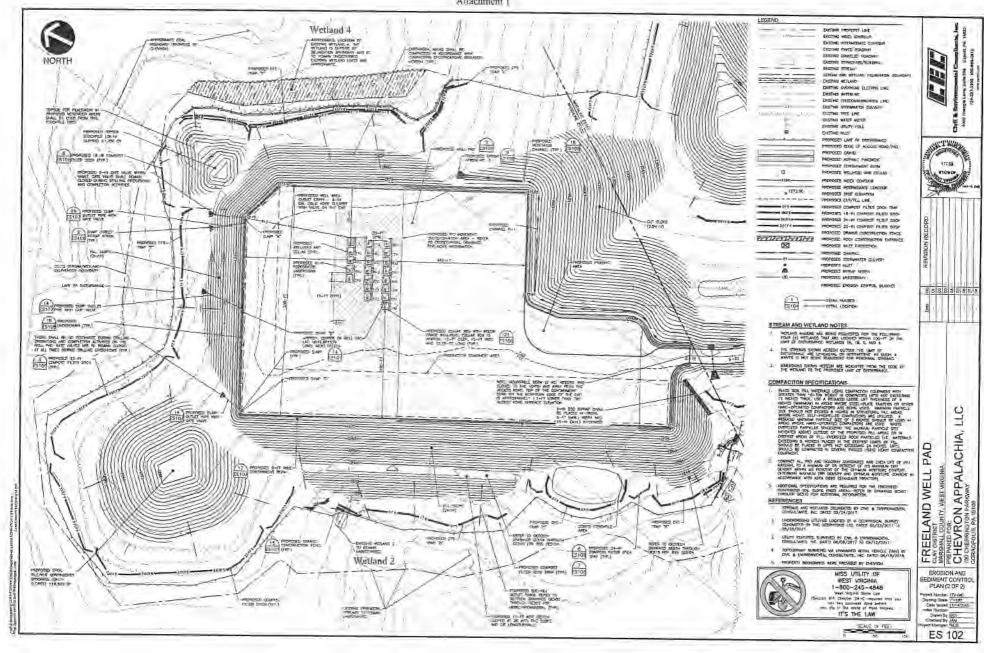
Thus ORDERED, the 24th day of February, 2019.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

Order No. 2019-W-5





WW-6B (04/15) API NO. 44-7 0 5 0 2 1 5 4

OPERATOR WELL NO 05/08/2019

Well Pad Name: Freeland

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

1) Well Operator: Chev	ron Appalad	chia, LLC	49449935	Marshall	Clay	Powhatan Point,
			Operator ID	County	District	Quadrangle
2) Operator's Well Numb	er: M08H		Well P	ad Name: Free	eland	
3) Farm Name/Surface Ov	wner: Freela	and	Public Ro	oad Access: Cl	R 21 Rober	t Ridge Road
4) Elevation, current grou	nd: 1274'	E	levation, propose	d post-construc	tion: 1275'	
5) Well Type (a) Gas Other	X	Oil		derground Stor		
(b)If Gas	Shallow Horizonta	X X	Deep	-	N /	100
6) Existing Pad: Yes or No					12/5	18
7) Proposed Target Forma Marcellus, 6370' below GL, 50' thick; Pore Pres	tion(s), Dept	th(s), Antic	ipated Thickness	and Expected	Pressure(s):	,
8) Proposed Total Vertical	Depth: 6,3	395		V		
9) Formation at Total Vert	tical Depth:	Marcellus	3			
10) Proposed Total Measu	red Depth:	20,615				
11) Proposed Horizontal L	eg Length:	13,745				
12) Approximate Fresh W	ater Strata D	epths:	572' below GL			
13) Method to Determine 14) Approximate Saltwate		_			vithin 2 mile	radius
15) Approximate Coal Sea	m Depths:	Pittsburgh	Coal top 794' be	elow GL		
16) Approximate Depth to	Possible Vo	id (coal mi	ne, karst, other):	No Void - In s	solid coal pi	llar
17) Does Proposed well lo directly overlying or adjace	cation contai ent to an acti	n coal sear ve mine?	ms Yes	No	о <u>х</u>	
(a) If Yes, provide Mine	Info: Name	e:				
	Deptl	n:			Office	IECEIVED of Oil and Gas
	Seam	:			DE	2 1 7 2018
	Owne	er:			wv	Department of mental Protection

API NO. 477 0 5 0 2 1 5 4

OPERATOR WELL NO. 3988/2019

Well Pad Name: Freeland

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	X-52	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	20,615	20,615	2,670" (500" below 9.625" shoe)
Tubing							
Liners							

0 12/11/18

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
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

Sizes:	
Depths Set:	

RECEIVED Office of Oil and Gas

DEC 1 7 2018

m	SA
12	5/1-

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

25) Proposed borehole conditioning procedures:

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

RECEIVED Office of Oil and Gas

DEC 1 7 2018

*Note: Attach additional sheets as needed.

Cement Additives

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

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

The Production cement will have a lead and tail cement.

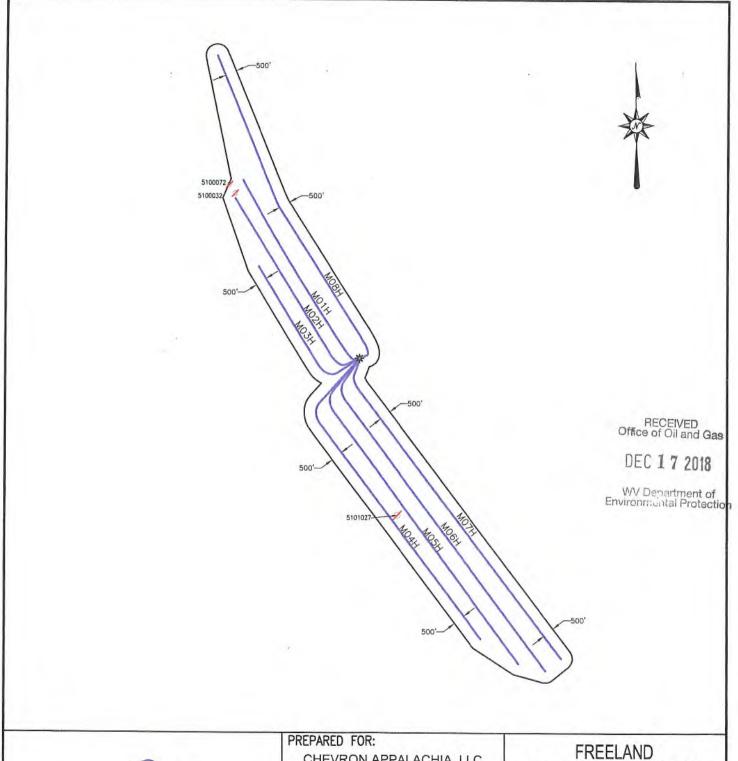
The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder.

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

RECEIVED Office of Oil and Gas

DEC 1 7 2018

Chevron			F	reeland M081	+	
lay Twp, Marshall Co	, wv		-		Ground Level Elev. (ft above SL):	1,274
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH MD TVD (FT) (FT)	WELLHEAD DESIGN HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger	2 Bowspring per Jt	20" Conductor	65 65	INC AZM	<u>Conductor</u> 20" API 5L MinImum 40 ft from GL or at lea	Grout to Surface
	Bow Spring: (1) on shee track w' step cellar & (1) per it over coupling to surface				Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling DO (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
		13-3/8* Casing	622 622	17.5	Minimum 50 ft past deepest i	known fresh water
	Bow Spring: (1) an shoe track w/ stop collar & (1) per 3 jts over coupling				Intermediate Casing 9-5/8" 40# L-80 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,080 Yield (Jt Strength 1,000 lbs) 915	Intermediate II Blend (Class A Cement to Surface
		9-5/8" Casing	2,170 2,170	12.375 - 12.25		
	Bow Spring: (1) per every other jt over coupiling SpiraGlidor or Centek: (1) per jt of csg to KOP				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" sho
					RECEIVED Office of Oil and Gas DEC 17 2018 WV Department of Environmental Protection	Production Tail Slurry TOC minimum 200' above Marcel
	Float Equip.				Jul 5/18	
	Float Equip.	5-1/2" Casing	20,615	8.75 - 8.5		





10125 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486 CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY CORAOPOLIS, PA 15108

LEGEND

- 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

~	ĵ
L	7
4	-
C	V
C	2
4	_
L	•
	2
	•

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
		Operator Unknown	ABANDONED	39.887867	-80.781834	N/A	N/A	None
	R L McDowdell	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

RECEIVED Office of Oil and Gas

4705102154

API Number 47 - 03/08/2019

Operator's Well No. мовн

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TEGES COTTINGS DISTOSTAL RECEASIATION TO	
Operator Name Chevron Appalachia, LLC OP Code	
Watershed (HUC 10) Short Creek - Ohio River Quadrangle Powhatan Poi	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Will a pit be used? Yes No V	Yes V 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:	RECEIVED Office of Oil and Gas
Land Application	DEC 1 7 2018
Underground Injection (UIC Permit Number_	
Reuse (at API Number_at next anticipated well	W Department of Environmental Protection
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,	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological control	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	N/A
-Landfill or offsite name/permit number? Short Creek Landfill/SWF-1034/WV0109517 and A	Arden Landfill/#100172
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings of West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and where it was properly disposed.	or associated waste rejected at any d the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL W on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environme provisions of the permit are enforceable by law. Violations of any term or condition of the glaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar will application form and all attachments thereto and that, based on my inquiry of those individualizing the information, I believe that the information is true, accurate, and complete. It penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	ental Protection. I understand that the general permit and/or other applicable ith the information submitted on this ividuals immediately responsible for
Company Official (Typed Name) Jenny Butchko	
Company Official Title Permitting Team Lead	
Paris a Maria -	20 18 Country of Allegherry
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

Proposed Revegetation Treatment: Acres Disturbed 18.	8 Prevegetation pl	6.5-7.0
2.4	to pH	1 0.07.0
Fertilizer type 10-20-20 or as directed by soil test		
Fertilizer amount 300#/acre or as directed by soil to	est the/gora	
Mulch 3 tons/acre or 5 tons/acre for winter stabilization		
	Seed Mixtures	
Temporary	Perma	nent
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 a provided). If water from the pit will be land applied, includer age, of the land application area.	pplication (unless engineered plans included the dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area
Attach: Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, includereage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	pplication (unless engineered plans included dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area
Attach: Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, includer acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	pplication (unless engineered plans included dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area
Attach: Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, includer age, of the land application area. Photocopied section of involved 7.5' topographic sheet.	pplication (unless engineered plans included dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area
Attach: Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, includer acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	pplication (unless engineered plans included dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area
Attach: Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, includer acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	pplication (unless engineered plans included dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area
Attach: Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, includereage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	pplication (unless engineered plans included dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area
Attach: Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, includer acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	pplication (unless engineered plans included dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area

Title: Oil & Gas (neperfer

Date: 12/5/18

WV Department of Environmental Protection

Field Reviewed?

2) Ye

)1

4705102153/08/2019

Seed Mixtures	es		
Permanent	ent		Permanent
Seed Type	3ton/ac lbs/acre	lbs/acre	Seed Type
Non Agricutlural Upland		6000 and	Hayfield, Pastu
Tall Fescue	57%	57% 3420.00	Orchard Grass
Perennial Ryegrass	19%	649.80	Timothy
Ladino Clover	10%	10% 64.98	Birdsfoot - Trefoil
Birdsfoot - Trefoil	10%	6.50	Ladino Clover
Red Top	4%	0.26	

10%_	10%_	40%	40%		
9.60	96.00	960.00	2400.00	6000	lbs/acre

RECEIVED
Office of Oil and Gas

DEC 1 7 2018



Chevron

Appalachian LLC WV Well Site Safety Plan

Pad: Freeland Pad A Well # M08H Ju 12/18/18

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

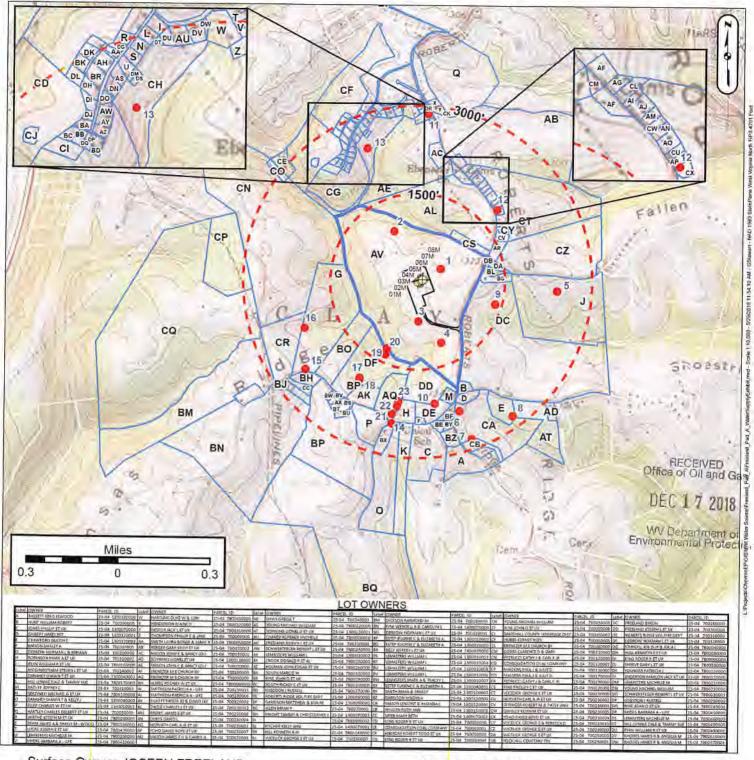
> RECEIVED Office of Oil and Gas

DEC 1 7 2018



WATER SUPPLY EXHIBIT FREELAND PAD A





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

GROUNDWATER & ENVIRONMENTAL

Surveyor: SERVICES, INC.

Address: 301 COMMERCE PARK DR

CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549

BHL is located on topo map 4,987 feet south of Latitude: 39 * 55 '00 "
SHL is located on topo map 2,690 feet south of Latitude: 39 * 52 '30 "

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 FOR LESSORS



03/08/20<mark>19</mark>-pp

SE E

œ. œ.

located

map

3,236

feet feet

west

of of

Longitude:

80.

45,00



	SURFACE OWNER	DIST-TM/PAR
1	JOSEPH L. FREELAND ET UX	4-7/21
2	CHARLES L. THIELE ET UX	4-7/23.12
3	JOHN K. & NANCY LOU MASON	4-7/7
4	MICHAEL WILLIAM YOUNG	4-7/5.5
5	NATHAN E. & NICOLE WOOD	4-7B/46
6	*NATHAN E. & NICOLE WOOD	4-7B/21
7	NATHAN E. & NICOLE WOOD	4-7B/20
8	MICHAEL WILLIAM YOUNG	4-7B/22
9	MARK R. SMITH	4-7B/5
10	*MARY K. YOUNGER-HARBERT & BRANT LEE HARBERT	4-7B/12
11	ROBERT TODD ANKROM ET UX	4-7/5.3
12	LARRY M. & ROSEANNA J. KELLER	4-5/75
13	LANE P. & TONI L. RINE	4-5/73
14	FLOYD W. BOLEN ET UX ESTS	4-6/12
15	ROBERT W. ASTON	4-6/13
16	KRISTIN CROWTHER THACHER	4-6/15
17	KRISTIN CROWTHER THACHER	4-6/16
18	JAMES PARKS MILLER	4-1/38

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413099.21
E:520444.55

NAD83, WV NORTH N:500639.840 E:1614576.899

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4413349.59
E:520456.39

NAD83, WV NORTH N:501460.796 E:1614629.506

BOTTOM HOLE LOCATION (BHL)

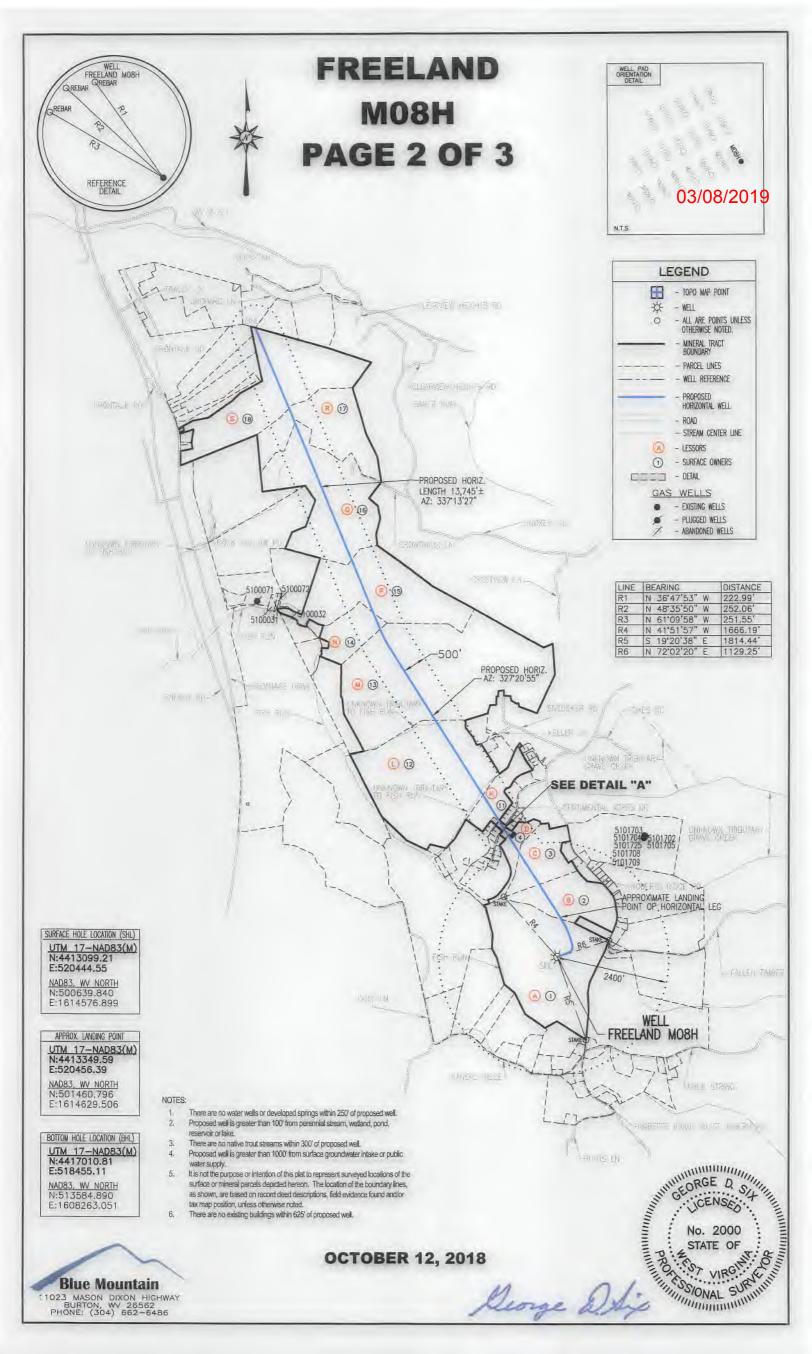
UTM 17-NAD83(M)
N:4417010.81
E:518455.11

NAD83, WV NORTH N:513584.890 E:1608263.051

Blue Mountain

11023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486 * - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

FILE #: FREELAND MOSH	A service of the serv	THE BEST OF MY KNOWLEDGE AND	CENSE THE
DRAWING #: FREELAND MOSH		ALL THE INFORMATION REQUIRED BY	No 2000
SCALE: 1" = 2000'		ATIONS ISSUED AND PRESCRIBED BY ENVIRONMENTAL PROTECTION.	STATE OF
MINIMUM DEGREE OF ACCURACY: 1/2500	Signed:	once Drie	No. 2000 STATE OF VIRGINITION SURVIVIA
PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.81'	R.P.E.:	L.L.S.: P.S. No. 2000	No. 2000 STATE OF STONAL SURJING PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	A STATE OF THE PARTY OF THE PAR	DATE: OCTOBER 12,	
WVDEP OFFICE OF OIL & GAS		OPERATOR'S WELL #:	FREELAND MO8H
601 57TH STREET CHARLESTON, WV 25304		API WELL #: 47	51 07/54
Well Type: Oil Waste Disposal WATERSHED: SHORT CREEK-OHIO RIVER			
COUNTY/DISTRICT: MARSHALL / CLAY			
SURFACE OWNER: JOSEPH L. FREELAN	ID ET UX	ACREAGE:	104.22±
OIL & GAS ROYALTY OWNER: JOSEPH FREEL/ DRILL X CONVERT DRILL DEEPER PERFORATE NEW FORMATION PLUG &	R REDRILL F	RACTURE OR STIMULATE X PLU	G OFF OLD FORMATION
(SPECIFY):			
TARGET FORMATION: MARCELLUS		ESTIMATED DEPTH: TVD: 6,3	95'± TMD: 20,615.04'±
WELL OPERATOR CHEVRON APPALACHIA,			E. TAWNEY
Address 700 CHERRINGTON PARKWAY City CORAOPOLIS State PA Zij	Code 15108	Address 500 LEE STREET, EAST SUITE City CHARLESTON State W	7 Zip Code 25301–3202



FREELAND MO8H PAGE 3 OF 3

03/08/2019

	LESSOR	DIST-TM/PA
A	JOSEPH FREELAND ET UX	4-7/21
В	CHARLES L. THIELE	4-7/23.12
3	JOHN K. MASON SR., ET UX	4-7/7
)	MICHAEL W. YOUNG	4-7/5.5
Ē	*JAMES A. BEHM ET UX	4-7B/21
-	JAMES A. BEHM ET UX	4-7B/20
G	MICHAEL W. YOUNG	4-7B/22
H	MARK R. SMITH	4-7B/5
J	*PATRICIA J. YOUNGER	4-7B/12
K	ROBERT TODD ANKROM ET UX	4-7/5.3
	ROSEANNA KELLER ET VIR	4-5/75
M	LANE P. RINE ET UX	
-	EMMA A. SNEDEKER	4-5/73
N		4-6/12
	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	
0	EMMA A. SNEDEKER	4-6/13
	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	
	KATHERINE MATHEWS	
	FLOYD EUGENE BOLEN JR.	
	ROBERT M. MERASHOFF	
	EQT PRODUCTION CO ET AL	
Q	KRISTIN CROWTHER THACHER	4-6/15
R	KRISTIN CROWTHER THACHER	4-6/16
S	THOMAS SCOTT MILLER ET UX	4-1/38
	BERNADINE RODRIGUEZ	-
	BOUNTY MINERALS II ACQUISITIONS LLC	
	ALFRED E. HAMILTON	
	MARCIA HAMILTON CLARK ET VIR	
	STEVEN HAMILTON	
	SAM W. BOOHER III ET UX	
	MURIEL E. PARKER	
	JON BOOHER ET UX	
	DAVID LEWIS BOOHER ET UX	
	VIRGINIA LEE ODGEN DAVIES ET VIR	
	ROBERT OGDEN	
	PATRICIA AILEEN GEORGE ET VIR	
	AUDRA MARY OGDEN MINETTE ET VIR	
	BOOHER HUGHES ET UX	
	PATRICIA SUE MCALISTER ET VIR	
	JAMES PARK MILLER ET UX	

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413099.21
E:520444.55
NAD83 WV NORTH

NAD83, WV NORTH N:500639.840 E:1614576.899

APPROX. LANDING POINT

UTM 17—NAD83(M)
N:4413349.59
E:520456.39

NAD83. WV NORTH
N:501460.796
E:1614629.506

BOTTOM HOLE LOCATION (BHL)

UTM 17—NAD83(M)
N:4417010.81
E:518455.11

NAD83, WV NORTH
N:513584.890
E:1608263.051



* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

OCTOBER 12, 2018

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

RECEIVED Office of Oil and Gas

DEC 1 7 2018

WV Department of Environmental Protection

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

Well Operator: Chevron Appalachia, LLC

By: Jenny Butchko

Its: Permitting Team Lead

utoko

RECEIVED Office of Oil and Gas

			Freeland Unit #8H - B	AICH I - IV	IRCL 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.5.A. Inc.	0.180	932/374	n/a	n/a	n/a
В	4-7-23.12	THIELE CHARLES L	Chevron U.S.A. Inc.	0.16	800/554	n/a	n/a	n/a
c	4-7-7	MASON JOHN K SR ET UX	Fossil Creek Ohio, LLC	0.2	840/150	33/9 Fossil Creek Ohio, LLC to Gulfport Energy Corporation	36/588 Gulfport Energy Corporation and Fossil Creek Ohio, LLC to American Petroleum Partners Operating, LLC	40/99 American Petroleum Partners Operating, LLC to Chevron U.S.A. Inc.
D	4-7-5.5	YOUNG MICHAEL W	TriEnergy Holdings, Lt.C	0.160	711/357	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
E	4-7B-21	BEHM JAMES A ET UX	TriEnergy Holdings, LLC	0.17	737/238	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
F	4-7B-20	BEHM JAMES A ET UX	TriEnergy Holdings, LLC	0.17	737/238	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
G	4-7B-22	YOUNG MICHAEL W	TriEnergy Holdings, LLC	0.160	711/357	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
Н	4-7B-5	SMITH MARK R	Chevron U.S.A. Inc.	0.14	771/265	n/a	n/a	n/a
J	4-7B-12	YOUNGER PATRICIA J	TriEnergy Holdings, LLC	0.16	731/1	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
К	4-7-5.3	ANKROM ROBERT TODD ET UX	Chevron U.S.A. Inc.	0.16	784/470	n/a	n/a	n/a
L	4-5-75	KELLER ROSEANNA ET VIR	Chesapeake Appalachia, LLC	0.18	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.
М	4-5-73	RINE LANE P ET UX	Chevron U.S.A. Inc.	0.14	796/226	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

Freeland Unit #8H - BATCH 1 - MRCL FULL

TOTAL CAST NORMAN CAST N	ed a company of the c		rectand officially	VICILE II				
Plat ID	Tax Parcel	Lessor	tessee .	- Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		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
1 .		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	0.150	801/521	n/a	n/a	n/a
N	4-6-12	CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	0.150	803/53	n/a	n/a	n/a
9		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	0.150	813/610	n/a	n/a	n/a
ı	1	SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	0.150	813/620	n/a	n/a	n/a
ı		MATHEWS KATHERINE - SFX	Chevron U.S.A. Inc.	0.150	917/45	n/a	n/a	n/a
		BOLEN FLOYD EUGENE JR - SFX	Chevron U.S.A. Inc.	0.150	917/48	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	л/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
	ł	SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	0.150	803/63	n/a	n/a	n/a
	1	SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	0.150	801/501	n/a	n/a	n/a
Р	4-6-13	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
		MATHEWS KATHERINE - SFX	Chevron U.S.A. Inc.	0.150	917/45	n/a	n/a	n/a
]	BOLEN FLOYD EUGENE JR - SFX	Chevron U.S.A. Inc.	0.150	917/48	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
Q	4-6-15	THACHER KRISTIN CROWTHER	Chevron U.S.A. Inc.	0.18	866/533	n/a	n/a	n/a
R	4-6-16	THACHER KRISTIN CROWTHER	Chevron U.S.A. Inc.	0.18	866/533	n/a	n/a	n/a

Page 3

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

	Plat ID	Tax Parcel	Lessor	Lessée	Royaltý	Book/Page	- Assignment #1	Assignment #2	Assignment #3
5			THOMAS SCOTT MILLER ET UX	Noble Energy, Inc.	0.18	839/227	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
n	!		RODRIGUEZ BERNADINE - SFX	Chevron U.S.A. Inc.	0.17	880/477	n/a	n/a	n/a
•			BOUNTY MINERALS II ACQUISITIONS LLC	Chevron U.S.A. Inc.	0.2	942/533	n/a	n/a	n/a
\ \ \ \			HAMILTON ALFRED E - SFX	Noble Energy, Inc.	0.15	816/162	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
7			CLARK MARCIA HAMILTON ET VIR - SFX	Noble Energy, Inc.	0.15	816/160	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
•	ļ		STEVEN HAMILTON	Noble Energy, Inc.	0.15	816/190	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
			SAM W BOOHER III ET UX	Noble Energy, Inc.	0.15	817/320	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
			MURIEL E PARKER	Noble Energy, Inc.	0.15	816/178	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
			JON BOOHER ET UX	Noble Energy, Inc.	0.15	817/322	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
	S	4-1-38	DAVID LEWIS BOOHER ET UX	Noble Energy, Inc.	0.15	816/186	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a

RECEIVED Office of Oil and Gas

Plat ID	Tax Parcel	Lessor :	न Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		VIRGINIA LEE ODGEN DAVIES ET VIR	Noble Energy, Inc.	0.15	816/188	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		ROBERT OGDEN	Noble Energy, Inc.	0.15	816/181	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		PATRICIA AILEEN GEORGE ET VIR	Noble Energy, Inc.	0.15	817/324	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		AUDRA MARY OGDEN MINETTE ET VIR	Noble Energy, Inc.	0.15	817/326	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		HUGHES BOOHER ET UX	Noble Energy, Inc.	0.15	816/174	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		PATRICIA SUE MCALISTER ET VIR	Noble Energy, Inc.	0.15	819/353	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		JAMES PARK MILLER ET UX	Noble Energy, Inc.	0.15	836/43	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a

PECEIVED
Office of Oil and Gas

Page 5



September 10, 2018

West Virginia D.E.P. Office of Oil & Gas 601 57th 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

Kevin J Cruz

Land Representative

RECEIVED Office of Oil and Gas

DEC 1 7 2018

4705102⁹³/₅⁸/₄²⁰¹⁹

RECEIVED

T RECEIVED

DEC 1 7 2018

WV Department of

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

		NOTICE CERTIFICATION		
Date of Notic	ce Certification: 12/13/18	ADI	I No. 47-	
	<u> </u>		erator's Well No. MOS	
		-	Il Pad Name: Freelar	
Notice has l	been given:	****	at au Maine.	
Pursuant to th	ne provisions in West Virginia Cod	e § 22-6A, the Operator has provided	I the required parties	with the Notice Forms listed
octow for the	tract of land as follows:	y == 111, == optimist has provided	ture required parties	with the Notice Forms fisted
State:	West Virginia	East	ting: 520444.55	
County:	Marshall	— UIIVINALIX	thing: 4413099.21	-
District:	Clay	Public Road Access:	CR 21 Robert R	idge Road
Quadrangle:	Powhatan Point, WV 7.5'	Generally used farm n	ame: Freeland	
Watershed:	Short Creek - Ohio River	<u> </u>		
of this article	by 22-6A-11(b), the applicant shall have been completed by the applicant shall be applicated by the application.		cretary that the notice	wner; and Pursuant to West e requirements of section ten
that the Oper	West Virginia Code § 22-6A, the (rator has properly served the requi	Operator has attached proof to this Nored parties with the following:	otice Certification	
*PLEASE CHE	CCK ALL THAT APPLY	-		OOG OFFICE USE ONLY
I. NOT	CICE OF SEISMIC ACTIVITY	or NOTICE NOT REQUIRED IN SEISMIC ACTIVITY WAS CON		RECEIVED/
☐ 2. NOT	TICE OF ENTRY FOR PLAT SU	RVEY or D NO PLAT SURVEY W	AS CONDUCTED	☐ RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL 0	NOTICE NOT REQUIRED IN NOTICE OF ENTRY FOR PLATE WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SI (PLEASE ATTACH)	URFACE OWNER	
■ 4. NOT	TICE OF PLANNED OPERATION		RECEIVED ce of Oil and Gas	₩ RECEIVED

Required Attachments:

■ 5. PUBLIC NOTICE

■ 6. NOTICE OF APPLICATION

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

Certification of Notice is hereby given:

THEREFORE,	Jenny Butchko , ha	ave read and understand the notice requirements within West Virginia Code § 22-
6A. I certify tha	at as required under West Virginia (Code § 22-6A, I have served the attached copies of the Notice Forms, identified
above, to the re	quired parties through personal serv	vice, by registered mail or by any method of delivery that requires a receipt or
signature confirm	mation. I certify under penalty of lay	w that I have personally examined and am familiar with the information submitted
in this Notice (Cartification and all attachments of	w that I have personally examined and an familiar with the information submitted
abtaining the in	Competition and an attachments, a	and that based on my inquiry of those individuals immediately responsible for
obtaining the in	formation, I believe that the informat	tion is true, accurate and complete. I am aware that there are significant penalties
for submitting fa	alse information, including the possib	bility of fine and imprisonment.
WILO	AP 17 (19 (19 (19 (19 (19 (19 (19 (19 (19 (19	
Well Operator:	Chevron Appalachia, LLC	Address: 700 Cherrington Parkway
By:	Jenny Butchko	Coraopolis, PA 15108
Its:	Permitting Team Lead	Facsimile: 412-865-2403
Telephone:	412-865-1533	Email: JZYK@chevron.com
		Commonwealth of Pennsylvania
		Country of Allecheny
I Common	wealth of Pennsylvania - Notary Seal	Subscribed and sworn, before me this 24th day of September 2018.
	aura Savage, Notary Public	
	Allegheny County	Notary Public
My comm	nission expires September 17, 2022	
	ommission number 1285773	My Commission Expires September 17, 2022
Membar,	Pennsylvania Association of Notaries	irty Commission Expires

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 deprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

DEC 1 7 2018

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	man the filing date of permit application.
Date of Notice: 15/18 Date Permit Application Filed: 1	2141.6
	414110
Notice of:	
☑ PERMIT FOR ANY ☐ CERTIFICATE OF A	DDDOVAL FOR THE
#=^^() () : [[[[[[[[[[[[[[[[[[
WELL WORK CONSTRUCTION O	F AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)
	15(0)
☐ PERSONAL ☐ REGISTERED ☑ MET	THOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL REC	EIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires a receipt sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be lead in and gas leasehold being developed by the proposed well work, described in the erosion and sediment control plan submitted pursupperator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, con impoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within or provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of this article to the contrary, notice to a lien holder is not recover.	ate of the application, the applicant for a permit for any well work or for a pit as required by this article shall deliver, by personal service or by of or signature confirmation, copies of the application, the erosion and defended the well plat to each of the following persons: (1) The owners of record of ocated; (2) The owners of record of the surface tract or tracts overlying the if the surface tract is to be used for roads or other land disturbance as suant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed struction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to be thousand five hundred feet of the center of the well pad which is used to not (6) The operator of any natural gas storage field within which the rece tenants in common or other co-owners of interests described in the meight, article one, chapter eleven-a of this code. (2) Notwithstanding any of notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any ag as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	re MWell Plat Notice is hereby provided to:
SURFACE OWNER(s) Name: Joseph L. Freeland and Debra J. Freeland	☐ COAL OWNER OR LESSEE Name: Consol Mining Company, LLÇ
Address: 813 Clearview Terrace	Address: 1000 Consol Energy Drive
New Martinsville, WV 26155	Canonsburg, PA 15317
Name: Joseph L. Freeland	□ COAL OPERATOR
Address: 813 Clearview Terrace	Name: Murray Energy Corp.
New Martinsville, WV 260155	Address: 46226 National Road
SURFACE OWNER(s) (Road and/or Other Disturbance)	St. Clairsville, OH 43950
Name:	☐ SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment
Name:	Address:
Address:	2.5.5.5.5.5.
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Vame:	Address:
Address:	Yanto Nat S
	*Please attach additional forms if necessary
, , , , , , , , , , , , , , , , , , ,	
	RECEIVED

Office of Oil and Gas

DEC 1 7 2018

Office of Oil and Gas

DEC 1 7 2018

API NO. 4-705102154

OPERATOR WELL NO. MOSH
Well Pad Name: Freeland 03/08/2019

WV Department of Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

API NO. 4705102154

OPERATOR WELL NO. WORLD NO. Well Pad Name: Freeland 03/08/2019

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:

Office of Oil and Gas

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

DEC 1 7 2018

WV Department of Environmental Protection

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

4705102154

API NO. 47-___OPERATOR WELL NO. MOSH
Well Pad Name: Freeland 03/08/2019

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.

HEUFIVED

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.

RECEIVED Office of Oil and Gas

DEC 1 7 2018

WW-6A (8-13)

Commission number 1285773

Member, Pennsylvania Association of Notaries

API NO. **47 7 0 5 1 0 2 1 5 4** OPERATOR WELL NO. Well Pad Name: Freeland

Notary Public

2022

September 17

Notice is hereby given by: Well Operator: Chevron Appalachia, LLC	Address: 700 Cherrington Parkway
Telephone: 412-865-1533	Coraopolis, PA 15108
Email: JZYK@chevron.com	Facsimile: 412-865-2403
duties. Your personal information may be disclosed needed to comply with statutory or regulatory re	information, such as name, address and telephone number, as part of our regulatory deposition to other State agencies or third parties in the normal course of business or as equirements, including Freedom of Information Act requests. Our office will out have any questions about our use or your personal information, please contact wv.gov. Louwonwealth of flowsylvania County of Alleghany
Commonwealth of Pennsylvania - Notary Seal Laura Savage, Notary Public Allegheny County My commission expires September 17, 2022	Subscribed and sworn before me this day of

My Commission Expires

RECEIVED Office of Oil and Gas

DEC 1 7 2018

Attachment to WW-6A

	API No. 47
	OPERATOR WELL NO. <u>M08H</u>
	Well Pad Name: Freeland
	SURFACE OWNER
	Name:
	Address:
	COAL OWNER OR LESSEE
	Name:
	Address:
	COAL OPERATOR
	Name:
	Address:
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Joseph L. Freeland ET UX
	Address: 813 Clearview Terrace
	New Martinsville, WV 26155
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Cathy J. and Carl F Petrucci, Jr.
	Address: 863 Petrucci Lane
	Moundsville, WV 26041
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Norman L. Derrow, 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:

RECEIVED Office of Oil and Gas

DEC 1 7 2018

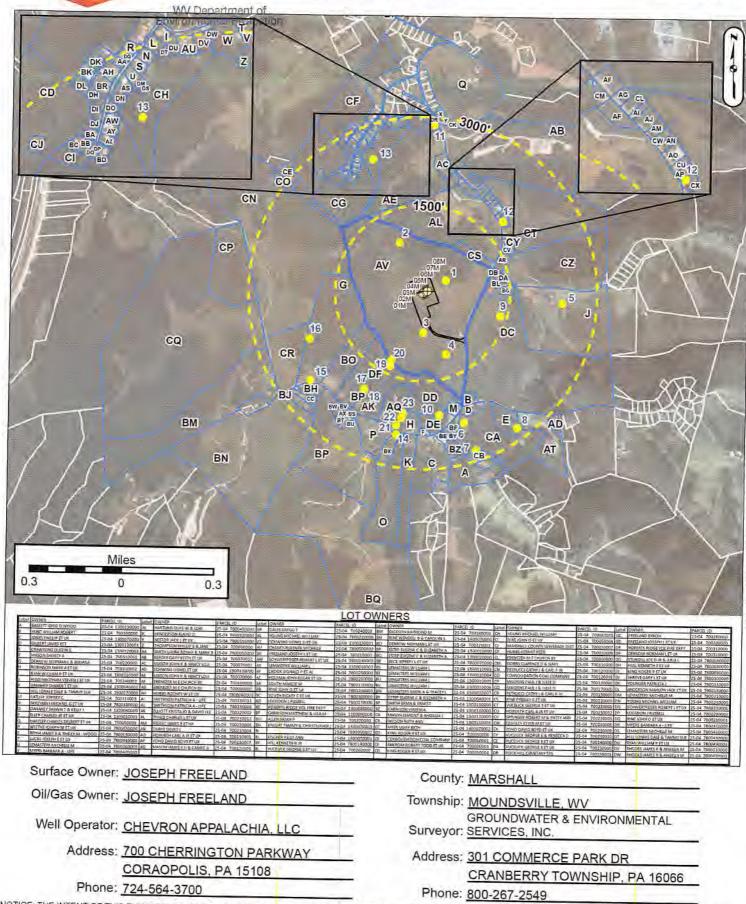


RECEIVED Office of Oil and Gas

DEC 1 7 2018

WATER SUPPLY EXHIBIT4 7 0 5 1 0 2 105/08/2019 FREELAND PAD A







Water Supply Exhibit 7 0 5 1 0 2 1 5 4 Freeland Pad



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 LET 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	582	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

RECEIVED
Office of Oil and Gas

DEC 1 7 2018



Water Supply Exhibit Freeland Pad



No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
16	DERROW NORMAN L & BIBIANA	Spring	1108*	97 OLD HOMESTEAD LANE	304-845-6769
17	DERROW NORMAN LET UX	Pond	1232*	97 OLD HOMESTEAD LANE	304-845-6769
18	DERROW NORMAN LET UX	Pond	1232*	97 OLD HOMESTEAD LANE	304-845-6769
19	DERROW NORMAN LET UX	Spring	1097*	97 OLD HOMESTEAD LANE	304-845-6769
20	DERROW NORMAN LET 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	2,336	
23	39°51'42.99120000"N 80°45'44.33040000"W	2,066	2,125	2.091	2,083	2,075	2,102	2,194	2,201

RECEIVED Office of Oil and Gas

DEC 1 7 2018

4705103/08/2019

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

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

Date of Noti	ice: 1115 18	Date	d at least TEN (10) days prior to filing Permit Application Filed:	4/18	
Delivery me	ethod pursuant to W	est Virginia Code	§ 22-6A-16(b)		
☐ HAND	■ CE	RTIFIED MAIL			
DELIV		TURN RECEIPT R	REQUESTED		
drilling a hor of this subsection in	rizontal well: Provide ction as of the date the lay be waived in write.	ded. That notice give notice was provided in by the surface of	days prior to filing a permit application owner notice of its intent to enter upon the pursuant to subsection (a), section the ded to the surface owner: <i>Provided, however</i> . The notice, if required, shall incided address of the operator and the operator	the surface own ten of this articl wever, That the	er's land for the purpose of le satisfies the requirements notice requirements of this address, telephone number representative.
Notice is he	ereby provided to	the SURFACE C	OWNER(s):		Office of Oil and Gas
	L. Freeland and Debra J. Free	eland \	Name: Joseph L. Freeland		DE0 1 # 0010
	Clearview Terrace	1	Address: 813 Clearview Ter	rrace	DEC 1 7 2018
Almere & Constitute of the	1407 00455				
Pursuant to V	e reby given : West Virginia Code §	22-6A-16(b), noticurpose of drilling a	New Martinsville, WV 26155 ce is hereby given that the undersigned horizontal well on the tract of land as for	well operator l	WV Capartment of Environmental Protection has an intent to enter upon
Notice is he Pursuant to V the surface of State: County:	ereby given: West Virginia Code § wner's land for the property of the property	22-6A-16(b), noticurpose of drilling a		well operator l	Environmental Protection
Notice is he Pursuant to V the surface of State: County: District:	ereby given: West Virginia Code § wner's land for the property of the property	urpose of drilling a	ce is hereby given that the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well as for the undersigned horizontal we	well operator lollows: 520444.55	Environmental Protection has an intent to enter upon
Notice is he Pursuant to V the surface of State: County: District: Quadrangle:	ereby given: West Virginia Code § wner's land for the pr West Virginia Marshall Clay Powhatan Point, WV 7.5	urpose of drilling a	ce is hereby given that the undersigned horizontal well on the tract of land as for the tract of land as for the boundary of t	well operator l ollows: 520444.55 4413099.21	Environmental Protection has an intent to enter upon
Notice is he Pursuant to V the surface of State: County: District:	ereby given: West Virginia Code § wner's land for the property of the property	urpose of drilling a	ce is hereby given that the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well as for the undersigned horizontal we	well operator l ollows: 520444.55 4413099.21 CR 21 Robert Ridge	Environmental Protection has an intent to enter upon
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed:	ereby given: West Virginia Code § wner's land for the property of the property	urpose of drilling a	ce is hereby given that the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well as for the undersigned horizontal we	well operator l ollows: 520444.55 4413099.21 CR 21 Robert Ridge	Environmental Protection has an intent to enter upon
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor	ereby given: West Virginia Code § wner's land for the property of the property	\$ 22-6A-16(b), the mail address of the be obtained from the	ce is hereby given that the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well on the tract of land as formula with the undersigned horizontal well as for the undersigned horizontal we	well operator lollows: 520444.55 4413099.21 CR 21 Robert Ridge Freeland ress, telephone	environmental Protection has an intent to enter upon ge Road number, and if available, we. Additional information
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor located at 60 l	ereby given: West Virginia Code § wner's land for the property of the property	\$ 22-6A-16(b), the mail address of the be obtained from the	ce is hereby given that the undersigned horizontal well on the tract of land as for the control of the control	well operator lollows: 520444.55 4413099.21 CR 21 Robert Ridge Freeland ress, telephone	environmental Protection has an intent to enter upon ge Road number, and if available, we. Additional information
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile numerelated to hor located at 601	ereby given: West Virginia Code § wner's land for the property of the property	\$ 22-6A-16(b), the mail address of the be obtained from the rleston, WV 25304	ce is hereby given that the undersigned horizontal well on the tract of land as for the control of the control	well operator lollows: 520444.55 4413099.21 CR 21 Robert Ridge Freeland ress, telephone ed representativof Environmentation Environmentation ep.wv.gov/oil-actions	environmental Protection has an intent to enter upon ge Road number, and if available, we. Additional information
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile numrelated to hor located at 601 Notice is he Well Operator	ereby given: West Virginia Code & wner's land for the property of the property	\$ 22-6A-16(b), the mail address of the beobtained from the rleston, WV 25304	ce is hereby given that the undersigned horizontal well on the tract of land as for the control of land as for the control of land as for the land of land	well operator lollows: 520444.55 4413099.21 CR 21 Robert Ridge Freeland ress, telephone ed representativof Environmentation Environmentation ep.wv.gov/oil-actions	environmental Protection has an intent to enter upon ge Road number, and if available, we. Additional information
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile numerelated to hor located at 601	ereby given: West Virginia Code § wner's land for the property of the property	\$ 22-6A-16(b), the mail address of the beobtained from the rleston, WV 25304	ce is hereby given that the undersigned horizontal well on the tract of land as for the control of the control	well operator lollows: 520444.55 4413099.21 CR 21 Robert Ridge Freeland ress, telephone ed representativof Environmentation Environmentation ep.wv.gov/oil-actions	environmental Protection has an intent to enter upon ge Road number, and if available, we. Additional information
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile numerelated to hor located at 601 Notice is her Well Operato: Address: Coraopolis, PA 1	ereby given: West Virginia Code § wner's land for the property of the property	\$ 22-6A-16(b), the mail address of the beobtained from the rleston, WV 25304	ce is hereby given that the undersigned horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, addite operator and the operator's authorized the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.dc Authorized Representative: Address:	well operator lollows: 520444.55 4413099.21 CR 21 Robert Ridge Freeland ress, telephone ed representativof Environmentation Environmentation ep.wv.gov/oil-actions	environmental Protection has an intent to enter upon ge Road number, and if available, we. Additional information
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile numrelated to hor located at 601 Notice is he Well Operator Address:	ereby given: West Virginia Code & wner's land for the programmer of the programmer o	\$ 22-6A-16(b), the mail address of the beobtained from the rleston, WV 25304	ce is hereby given that the undersigned horizontal well on the tract of land as for the control of land as for the control of land as for the land of land	well operator lollows: 520444.55 4413099.21 CR 21 Robert Ridge Freeland ress, telephone ed representativof Environmentation Environmentation ep.wv.gov/oil-actions	environmental Protection has an intent to enter upon ge Road number, and if available, we. Additional information

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.

Operator Well No. MOSH 4 7 0 5 1 0 3/08/2049

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

Delivery met	had nursuant to West Vissisis C	- A- C 22 C L 4CC X		
Denvery me	hod pursuant to West Virginia Co	ode § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
RETUI	RN RECEIPT REQUESTED	DELIVERY		
the planned of required to be drilling of a l damages to the (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section norizontal well; and (3) A proposed a surface affected by oil and gas opes required by this section shall be get by provided to the SURFACE Of	e surface owner whose land this subsection shall include the of this article to a surface use and compenderations to the extent the driven to the surface owner twent	d will be used f ide: (1) A copy face owner who sation agreemen amages are com	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of a of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for apensable under article six-b of this chapter, steed in the records of the sheriff at the time
(at the address	s listed in the records of the sheriff a	it the time of notice):		
Mamar Joseph I	Freeland and Debra J. Freeland		Court of the control of	
		Name:	Joseph L. Freeland	
Address: 813 0	Clearview Terrace		S; 813 Clearview Ter	rrace
Address: 813 C New Martinsville, Notice is hero Pursuant to W	Reby given: Yest Virginia Code § 22-6A-16(c), no	Addres	s; 813 Clearview Ter rtinsville, WV 26155 he undersigned	well operator has developed a planned
Address: 813 C New Martinsville, ' Notice is here Pursuant to W operation on State: County:	NV 26155 eby given:	Addres	rtinsville, WV 26155 the undersigned of well on the tra	well operator has developed a planned
Address: 813 of New Martinsville, 19 Notice is here Pursuant to Woperation on State: County: District:	eby given: Set Virginia Code § 22-6A-16(c), not the surface owner's land for the pur West Virginia	Addres New Ma otice is hereby given that to pose of drilling a horizonta	rtinsville, WV 26155 the undersigned of well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 520444.55
Address: 813 of New Martinsville, 10 Notice is here Pursuant to Woperation on State: County: District: Quadrangle:	Reby given: Test Virginia Code § 22-6A-16(c), not the surface owner's land for the pur West Virginia Marshall	Addres New Ma otice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road	rtinsville, WV 26155 the undersigned of well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 520444.55 4413099.21
Address: 813 of New Martinsville, 19 Notice is here Pursuant to Woperation on State: County: District:	Relearview Terrace NV 26155 Reby given: Test Virginia Code § 22-6A-16(c), not the surface owner's land for the pury West Virginia Marshall Clay	Addres New Ma otice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road	the undersigned all well on the transitions: Easting: Northing: Access:	well operator has developed a planned act of land as follows: 520444.55 4413099.21 CR 21 Robert Ridge Road
Address: 813 G New Martinsville, Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affects information re-	Eby given: Test Virginia Code § 22-6A-16(c), not the surface owner's land for the pury West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River hall Include: Test Virginia Code § 22-6A-16(c), the distribution of the pury West Virginia Code § 22-6A-10(b) and (3) A proposed surface use a ged by oil and gas operations to the clated to horizontal drilling may be located at 601 57th Street, SE,	Address New Ma otice is hereby given that to pose of drilling a horizontal UTM NAD and Generally us this notice shall include: (1 to a surface owner whose and compensation agreement the damages are contained from the Secretal	the undersigned all well on the transitions: Access: ed farm name: Acopy of this e land will be undersigned all well on the transitions. Access: ed farm name:	well operator has developed a planned act of land as follows: 520444.55 4413099.21 CR 21 Robert Ridge Road Freeland code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional
Address: 813 G New Martinsville, 1 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide norizontal we surface affects information re neadquarters, gas/pages/defa	Reby given: Yest Virginia Code § 22-6A-16(c), not the surface owner's land for the pury West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River hall Include: Yest Virginia Code § 22-6A-16(c), the distribution of the pury west virginia Code § 22-6A-10(b), the distribution of the pury west of the pury west of the pury west virginia Code § 22-6A-16(c), the distribution of the pury west virginia Code § 22-6A-10(b), the distribution of the pury west virginia Code § 22-6A-10(b), the pury west virginia Code § 22-6A	Address New Ma otice is hereby given that to pose of drilling a horizontal UTM NAD and Generally us this notice shall include: (1 to a surface owner whose and compensation agreement the damages are contained from the Secret Charleston, WV 25304	the undersigned all well on the transville, WV 26155 The undersigned all well on the transville, WV 26155 Access: Access: Access: Accepy of this e land will be undersining arompensable undersigned at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 520444.55 4413099.21 CR 21 Robert Ridge Road Freeland code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Address: 813 G New Martinsville, 1 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide thorizontal we surface affects information re the adquarters, pas/pages/defa	Clearview Terrace NV 26155 Ceby given: Test Virginia Code § 22-6A-16(c), not the surface owner's land for the pury West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River hall Include: Test Virginia Code § 22-6A-16(c), the distribution of the pury West Virginia Code § 22-6A-10(b) (a); and (3) A proposed surface use and by oil and gas operations to the clated to horizontal drilling may be located at 601 57th Street, SE, and aspx. Chevron Appalachia, LLC	Address New Ma otice is hereby given that to pose of drilling a horizontal UTM NAD and Generally us this notice shall include: (1 to a surface owner whose and compensation agreement the damages are contained from the Secretal	the undersigned all well on the transville, WV 26155 The undersigned all well on the transville, WV 26156 The undersigned all well on the transville, WV 26156 The undersigned all well on the transville, WV 26156 The undersigned are undersigned as a compensable undersigned as a compensable undersigned are undersigned as a compensable undersigned as a compensable undersigned are undersigned as a compensable undersigned a	well operator has developed a planned act of land as follows: 520444.55 4413099.21 CR 21 Robert Ridge Road Freeland code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-twway
Address: 813 of New Martinsville, 19 Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Woo be provide horizontal we surface affects information remeadquarters,	Reby given: Yest Virginia Code § 22-6A-16(c), not the surface owner's land for the pury West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River hall Include: Yest Virginia Code § 22-6A-16(c), the distribution of the pury west virginia Code § 22-6A-10(b), the distribution of the pury west of the pury west of the pury west virginia Code § 22-6A-16(c), the distribution of the pury west virginia Code § 22-6A-10(b), the distribution of the pury west virginia Code § 22-6A-10(b), the pury west virginia Code § 22-6A	Address New Ma otice is hereby given that to pose of drilling a horizontal UTM NAD and Generally us this notice shall include: (1 to a surface owner whose and compensation agreement the damages are contained from the Secret Charleston, WV 25304	the undersigned all well on the transville, WV 26155 The undersigned all well on the transville, WV 26155 Access: Access: Access: Accepy of this e land will be undersining arompensable undersigned at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 520444.55 4413099.21 CR 21 Robert Ridge Road Freeland code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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.

> RECEIVED Office of Oil and Gas

DEC 1 7 2018

API NO. 47-___OPERATOR WELL NO. MOBH
Well Pad Name: Freeland 03/08/2019

STATE OF WEST VIRGINIA 4705102154 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

County:		UTM NAD 83 Easting:	520444.55	
District:	Marshall Clay	Northing:		
Quadrangle:	Powhatan Point, WV 7.5'	Public Road Access:	CR 21 Robert Ridge Road	
Watershed:	Short Creek - Ohio River	Generally used farm name:	Freeland	
□ SURFAC	CE OWNER	Signature:	LA Audio	
	the box that applies CE OWNER		ION BY A NATURAL PERSON	
		1 Signanne		
SURFAC	CE OWNER (Road and/or Other Disturbance	Print Name () o	SEPH LIFEE /AI	
		Print Name() c Date: $// - \ge$	18	
□ SURFAC	CE OWNER (Road and/or Other Disturbance CE OWNER (Impoundments/Pits) WNER OR LESSEE	Print Name () o Date: // - >	ION BY A CORPORATION, ETC.	
SURFAC	CE OWNER (Impoundments/Pits)	Print Name () o Date: _// - 20 FOR EXECUTI Company:	ION BY A CORPORATION, ETC	
□ SURFAC □ COAL C □ COAL O	CE OWNER (Impoundments/Pits) WNER OR LESSEE	Print Name () o Date: _// - 30 FOR EXECUTE Company:	ION BY A CORPORATION, ETC.	
□ SURFAC □ COAL C □ COAL C □ WATER	CE OWNER (Impoundments/Pits) WNER OR LESSEE PERATOR	Print Name() o Date: // - > FOR EXECUTE Company: By: Its: Signature:	ION BY A CORPORATION, ETC. RECEIVED Office of Oil and Gas	

Oil and Gas Privacy Notice:

WV Department of Environmental Protection

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.

API NO. 47-OPERATOR WELL NO. MO3/08/2019 Well Pad Name: Freeland Pad A

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I, Mason Smith	, hereby state that I have read	the Instructions	to Persons N	amed on Page WW-6A and the associated	
WW-6A and required, and	attachments consisting of pages one (1) throu the well plat, all for proposed well work on the tr	gh	_, including ollows:	the erosion and sediment control plan, if	
State:	West Virginia	UTM NAD 83	Easting:	520444.546	
County: District: Quadrangle:	Marshall Clay	Public Road Access: Generally used farm name:		A413099,214 Robers Ridge Road Freeland	
	Powhatan Point 7.5'				
Watershed:	Upper Ohio-Beaver			1100iana	
*Please check	s the box that applies	FC	R EXECUT	ION BY A NATURAL PERSON	
oet .		1	AC (00 1 0 00 00 00 00 00 00 00 00 00 00 00		
		1.0	K EXECUT	ION BI A NATURAL LERSON	
☐ SURFA	CE OWNER	Sig	nature:		
☐ SURFAC	CE OWNER (Road and/or Other Disturbance	3.1	nt Name: te:		
□ SURFAC	CE OWNER (Impoundments/Pits)	FC	R EXECUT	ION BY A CORPORATION, ETC.	
□ COAL C	OWNER OR LESSEE	Co	mpany: Mw	man American Energy Inc.	
■ COAL C	PERATOR	Its	Coal, oil	+ Gas relations manager	
□ WATER	PURVEYOR	Sig	nature: M	Uson Solos	
□ OPERA	TOR OF ANY NATURAL GAS STORAGE	FIELD Da	te: 10-70	1-18	

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 deprivacyofficer@wv.gov.

Office of Oil and Gas



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

November 2, 2018

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Freeland Pad, Marshall County Freeland M08H

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

RECEIVED Office of Oil and Gas

DEC 1 7 2018

Hydraulic Fracturing Fluid Additives

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

RECEIVED Office of Oil and Gas

DEC 1 7 2018

FREELAND WELL PAD **EROSION AND SEDIMENT CONTROL PLAN**

3599 RIDGE ROAD (COUNTY ROUTE 21) CLAY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA



PREPARED FOR:

CHEVRON APPALACHIA, LLC

700 CHERRINGTON PARKWAY CORAOPOLIS, PA 15108

CONSULTANTS

LIVE & ENVIRONMENTAL CONSULTANTS, INC. 4000 TRIANSLE LANE, SUITE DOD EXPORT, IN 15637 BHOME: 774-377-3700

CVL/SITE ENGINEER CONTACT: JOSH MACAROLE EMAIL ADDRESS: Imagorgaefficecinc.com CENTED-NICAL ENGINEER CONTACT MARON LAVAGE

SITE COORDINATES AND WATERSHED

START OF WELL PAD ACCESS ROAD LATTERING TO ASSESS W. LONGITURE DO ASSESS W.

ATTWOMEN 19.867578" M. LOCHTUSE, NO.704274" W.

PRASET DIN MAD BS, WEST VIRISMIA HITRE- TIME

WATERSHEE NAME UPPER OND SOUTH RECEIVING STREAM UNITABLE TRIBUTORIES TO VISIT FROM

		the of Section 1	prosts-	
Wellterso Wit	Winthing	Louis	Lafturie (Morth)	Sameticite (eVe
0.10	905007-5155	103 641 Auf2rei	Th EGOMENT	antintes:
DOM:	1004011642	DAMPSHIEM.	131A075137	807618415
.63941	Sandyout America	AMASSEZA15	2.675200	165611914
1980	SEWES-SOLD	SELECTIONS	22/86/63/29	ALL/ALFRES
TOWN:	5010-21-2012	301501705	0 07631	-69.7E199Q
1900/	IDDIO CAND	161707911009	19A6701.62	W171.4200
- 07HX	570033 R011	1810553-1719	40.6877893	NO. 2100/07/03
10080	Scores seva.	19142/11/09	Tensoure.	71.1.1M7950M
010	55051 DULL	COANCESTO	19.661.0569	30.0613964
(32).5	Amstratt.	DOLERRADEL.	Of threezy	A67652319
MM.	Americans.	Distantique.	19 to Hn 13	80.051990
2000	Somrac Vices	ISTATE FATOR	19.6527.000	80.70.03%
1000	Arabidian.	HEPVOYALL.	104017741	PROTESTA
1068	H000613394L	1838411.0798	08/98/3862	NO TO HOUSE
1001	Acquirements.	Abjanofilms	10.000000	900 December
7544	ADMITTEN SA	INTRACT SOAR	23/46/2012	562634317
1883	American.	1014515550	TERRITARE.	ARTHOUGH
1162	5000000000	J# 1852# 25/12	Olivernate -	MELESTER.
3.00	DOMESTICAL	TATAS SEGURO	OF STREET	-000000000

CHITTING CONCRE POLE

O MET YE	(i) (i)	
(Continue of the continue of t	APPROX. CONTENT OF BILL PAGE- IAN MYPO APETER ICAG. ANNO, PILETA	
	FREELAND WELL PAD	
3	* \ \ \ \	
~	STATE OF WELL PAIR ADDRESS WHAT LIST ADDRESS WHA	8
	STIE EUCATION MAP	

CONTRACTOR OF THE THROUGH A FINANCIAL PROPERTY OF THE PROPERTY	
TOTAL AREA	124
WOODDARFA DSPIRED	12
WELLPAD	12.1
ACCESSADAD	1.0
MIDDINEN AREA	166

C1 000	COVERSIMEN	X	31/2A/3018
13.mir	EXISTRACTOPOGRAPHIC PLAN	8	11/14/1018
10.100	DVINALL PROVIDE AND STOREM FOR CONTROL PLANS	8	MANAGER
PS 920	ERCECH AND STEMENT DOWNED PLANTAULT I	8	#3/54/300E
3.97	EROSION AND SETSMENT CONTROL PLAN (7 OF 7)	8.	11/34/2018
T 193	EROSIDH AND SEDMENT CONTROL DETAILS LLDF 60	8	31/34/2018
ES-10Y	ERISBULANUSEDMANN CONTROL DETAILS (JOBER)	9.11	11/19/2018
13.1m	EROSIGNIAND SEDMENT CONTROL DETAILS (1) OF 60	14	12/14/2013
17 109	FERSION AND SEDIMENT CONTROL DETAILS (4 OF II)	8:	11/14/2018
17 107	EROSION AND SEDIMENT CONTROL DETAILS IS OF EA	W	10/14/2011
17109	FERTIS CON AND ADDRAF ME CONTROL DETAILS IS OF 10	K	41/04/2018
15 129	WELL PARTITION AND LIBESSALF TOWNS	X.	11/14/2018
T3 LID	ACCESS POABITIAN AND PROTILE	×	31/34/800
5.01	ALLESS ADAD CROSS SECTIONS	2	11/14/2018
0.02	VISCOURFERING-SECTIONS		33/3A/2009
UT 500	GEOTIC PHIEAL GUBULATACE SUAMANY		11/14/1003
GE 90A	GEDTTERMICAL WIRELINFACE CROSS-SECTIONS	A.	33/34/2019
GT.70%	SERVICEUNICAL NOTES AND TAMES	X.	TWINDOWS
GE SEF	GERTECHNICAL DETAILS:	8	3.171A/BD
GF 504	835 PLAN AND ELEVATION VIEW (1 DF 2)		11/14/200
DE RE	553 PLAN AND DEVATION VIEW (2CS 7)		1373.4/2003
WE SHO	RESERVATION (LIDE III	100	11/14/2010
GI 507	ISS CADIS-AFETTOWOOD DE N	X	13/14/2014
GE 508	RES LEDSA SECTION (3 OF 1)	2.	11/14/2018
BE 509	ALESPECIFICATIONS AND QUANTITIES		12/14/2011
OT 510	- RSS DETART	7	13/2/77031
man.	STEPLAN WITH ATHE	W-1	15/14/1091
PCSO	POST CONSTRUCTION RECLAMATION PLAN		19/94/9BH
96.30	POST-CONSTRUCTION RECUMMATION PETAILS	= x	11/14/2010

SHEET THE

WETLANDS WITHIN 100 LF OF THE LIMIT OF DISTLINGANCE YOURJECT TO WETLAND WAIVER REQUESTS

WEILAND IA (PEM) 7 FI FROM LOO WEILAND IB (PEM) - 5 LF FROM LOD WEILAND I (PEM/PSS) - 10 LF FROM LOD WEILAND I (PEM/PSS) - 10 LF FROM LOD

- PROPERTY BILLINGWISS MICH. PROVIDED BY DESPITEM
- INCREMENTAL ARTHUR HAVE LEAVE GOOGLE SAFETY BEEN THEFTO BEEN









MISS LITILITY OF WEST VIRGINIA 1-600-245-4848



INCOUNT LAST PRIVATE

EVRON APPALACHIA, FREELAND WELL PAD
ALAY DESTRICT
MASSINGLE COURTY WEST WITCHING
PREPARED FOR
CHEVRON APPAIR

CH

him 5 Taker Selection to 145016 Change of Branch

CS 000

