

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

Permit approval for FREELAND M06H Re:

47-051-02151-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number:

FREELAND M06H

Farm Name:

JOSEPH L. FREELAND ET UX

U.S. WELL NUMBER:

47-051-02151-00-00

Horizontal 6A New Drill

Date Issued: 3/1/2019

API Number:	
	00/00/00/0

PERMIT CONDITIONS 4 7 0 5 1 0 2 1 5 1

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

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

API Number: 4 63/08/2019

PERMIT CONDITIONS

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:

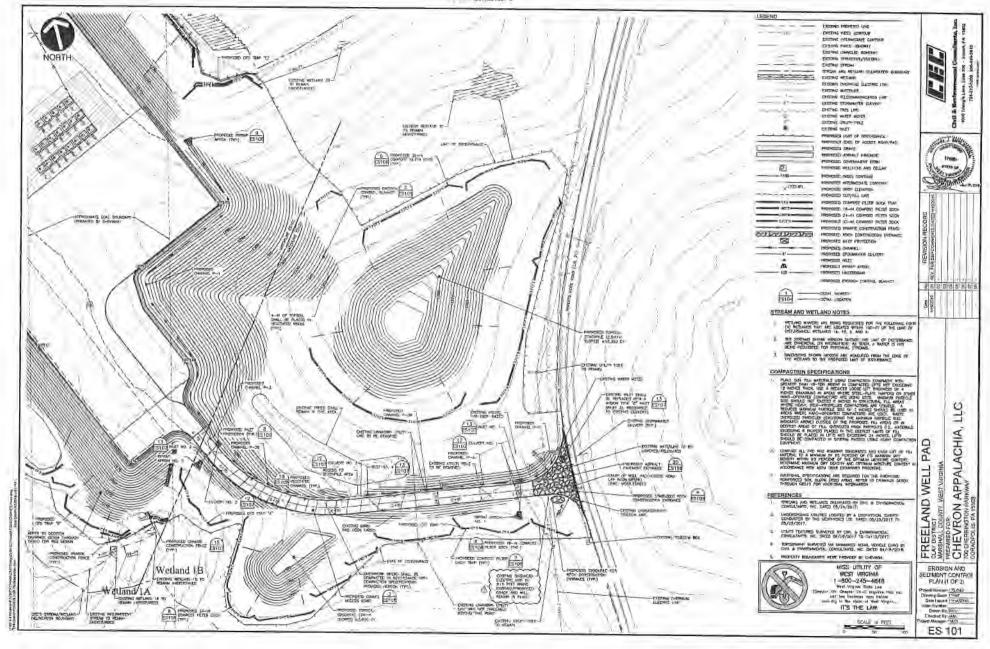
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment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

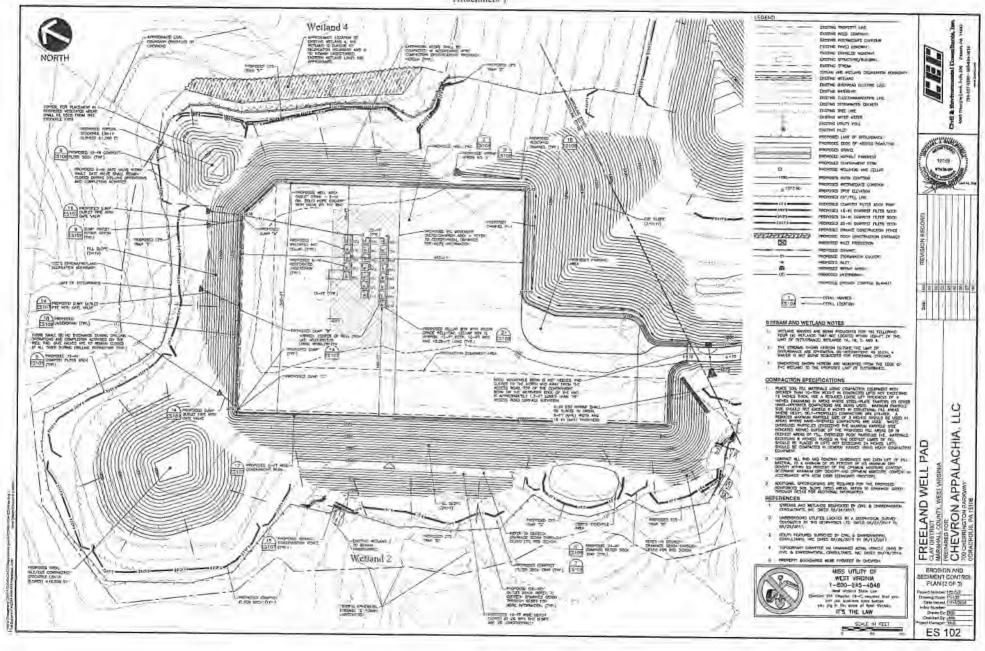
Thus ORDERED, the 24th day of February, 2019.

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) 47 0 5 1 0 2 1 5 1

API NO. 47
OPERATOR WELL NO 08/08/2019

Well Pad Name: Freeland

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

1) Well Operator: Chevron Appalachia, LL	.C 49449935	Marshall	Clay	Powhatan Point,
	Operator ID	County	District	Quadrangle
2) Operator's Well Number: M06H	Well P	ad Name: Free	eland	
3) Farm Name/Surface Owner: Freeland	Public Re	oad Access: Cl	R 21 Rober	t Ridge Road
4) Elevation, current ground: 1274'	Elevation, propose	d post-construc	tion: 1275'	
5) Well Type (a) Gas X Oil Other		derground Stor		
(b)If Gas Shallow X Horizontal X	Deep			id
6) Existing Pad: Yes or No No			Ju 15	P
7) Proposed Target Formation(s), Depth(s), An Marcellus, 6370' bolow GL, 50' thick; Pore Pressure Gradient 0.64 psi/ft	nticipated Thickness	and Expected	Pressure(s):	
8) Proposed Total Vertical Depth: 6,395				RECEIVED Office of Oil and Gas
9) Formation at Total Vertical Depth: Marce	llus			
10) Proposed Total Measured Depth: 21,961				DEC 1 7 2018
11) Proposed Horizontal Leg Length: 14,481			Е	WV Department of nvironmental Protection
12) Approximate Fresh Water Strata Depths:	572' below GL			
13) Method to Determine Fresh Water Depths:14) Approximate Saltwater Depths: 1709', 17			vithin 2 mile	radius
15) Approximate Coal Seam Depths: Pittsbur	gh Coal top 794' be	elow GL		
16) Approximate Depth to Possible Void (coal	mine, karst, other):	No Void - In s	olid coal pi	llar
17) Does Proposed well location contain coal s directly overlying or adjacent to an active mine		No.	X	
(a) If Yes, provide Mine Info: Name:				
Depth:				
Seam:				
Owner:				

API NO. 47-05-102151

OPERATOR WELL NO03/10/8/2019
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	21,961	21,961	2,670' (500' below 9.625" shoe)
Tubing							
Liners							

Jul 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		[7		
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

Office of Oil and Gas

DEC 1 7 2018

WW-6B	
(10/14)	

API NO. 47-05 102151

OPERATOR WELL NO 3/08/2019

Well Pad Name: Freeland

gre/18

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.2
- 22) Area to be disturbed for well pad only, less access road (acres): 5.0

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

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

For the Water String the blend will contain class A cement, 3% 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.

Office of Oil and Gas

DEC 1 7 2018

*Note: Attach additional sheets as needed.

WV Department of Environmental Protection

03/08/2019

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

WV Department of Environmental Protection

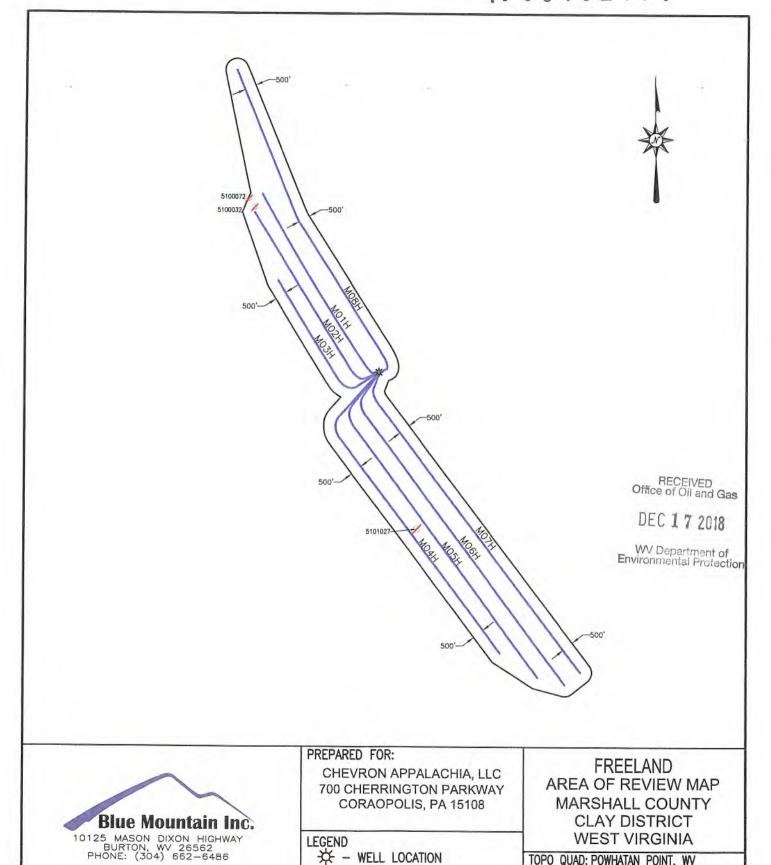
03/08/2019

Лечно				F	reeland I	M06	6H	
ay Twp, Marshall Co,	WV			-			Ground Level Elev. (ft above SL):	1,274
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DE MD	TVD	WELLHEAD DESIGN	HOLE	CASING	CEMENT
Core Barrel / Auger	2 Bowspring per Jt	FORMATION	(FT)	(FT)	INC AZM	SIZE (IN)	SPECS	PROGRAM
	4	20* Conductor	65	65	IIIC AZII	30	Conductor 20" API 5L Minimum 40 ft from GL or at let	Grout to Surface
	Bow Spring: (1) on shoe track w' step collar & (1) per it over coupling to surface						Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Doi:10 (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Vield (it Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
		13-3/8" Casing	622	622		17,5	Minimum 50 It past deepest I	nown fresh water
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 its oven coupling						Intermediate Casing 9-5/8" 408 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 (Jf Strength 1.000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
70.0	Bow Spring: (1) per every other it over coupling SpiraGlider or Centek:	9-5/8* Casing	2,170	2,170		12.375 - 12.25	Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.390	Production Lead Sturry Cernent to 500' below 9-5/8" shoe
	(1) per jt of cog to KOP						ID (in) 4,778 Dnitt ID (in) 4,653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	
							RECEIVED Office of Oil and Gas	
							DEC 1 7 2018	
							W/ Department of Environmental Protection	
							Environmental Piotocian	Production Tail Slurry TOC minimum 200' above Marcell
			2				12/5/18	
	Float Equip.						121	
	Float Equip.	5-1/2" Casing	21,961			8.75 - 8.5	0-	

TOPO QUAD: POWHATAN POINT, WV

DATE: SEPTEMBER 7, 2018

SCALE: 1" = 4000'



→ WELL LOCATION

PLUGGED WELL

ABANDON WELL

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

Office of Oil and Gas

WV Department of Environmental Protection

47 0 5 ° 0 2 1 5 1 03/08/2019

Member, Pennsylvania Association of Notaries

API Number 47 -

Operator's Well No. MOGH

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC	OP Code 49449935
Watershed (HUC 10) Short Creek - Ohio River	Quadrangle Powhatan Point, WV 7.5'
Do you anticipate using more than 5,000 bbls of water to complet	te the proposed well work? Yes No
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	RECEIVED Office of Oil and Gas
Land Application	
Underground Injection (UIC Permit N Reuse (at API Number at next anticipated	Jumber DEC 1 7 2018
Off Site Disposal (Supply form WW-9 Other (Explain	
Will closed loop system be used? If so, describe; Yes, we will be	utilizing multiple open/closed top tanks
Drilling medium anticipated for this well (vertical and horizontal)	? Air, freshwater, oil based, etc. Air to KOP & Oil from KOP to TMD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Bante, fluid loss, emulsifier	rs, rheological control
Drill cuttings disposal method? Leave in pit, landfill, removed off	fsite, etc. Removed offsite
-If left in pit and plan to solidify what medium will be use	
-Landfill or offsite name/permit number? Short Creek Land	A STATE OF THE STA
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided wi where it was properly disposed.	of any load of drill cuttings or associated waste rejected at any thin 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. Violations of an law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based o obtaining the information, I believe that the information is true, penalties for submitting false information, including the possibility	. (4 / -1)
Company Official Signature	x state ino
Company Official (Typed Name) Jenny Butchko	
Company Official Title Permitting Team Lead	
Subscribed and sworn before methis 24th day of Sep	Lember 2018, 20 country of Alleghung Notary Public Commonwealth of Pennsylvania - Notary Se
My commission expires Syphulser 17, 207	Laure Source Matery Public

Operator's Well No. M06H

lizer type 10-20-20 or as directed by soil test Ibs/acre	Fertilizer type 10-20-20 or as directed by soil test Ibs/acre	
lizer type Seed Mixtures	Fertilizer amount 300#/acre or as directed by soil test lbs/acre Mulch 3 tons/acre or 5 tons/acre for winter stabilization Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre al Ryegrass - 50 See Attached	
Seed Mixtures Temporary Permanent Type Ibs/acre Seed Type Seed Type Ibs/acre See Attached A, location, pit and proposed area for land application (unless engineered plans including this info have been ater from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.	Mulch 3 tons/acre or 5 tons/acre for winter stabilization Tons/acre Seed Mixtures Temporary Permanent Seed Type Ibs/acre Seed Type Ibs/acre al Ryegrass - 50 See Attached	
Temporary Type lbs/acre Ryegrass - 50 See Attached A location, pit and proposed area for land application (unless engineered plans including this info have been atter from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.	Seed Mixtures Temporary Permanent Seed Type Ibs/acre Ibs/acre	
Temporary Type lbs/acre Ryegrass - 50 See Attached A location, pit and proposed area for land application (unless engineered plans including this info have been atter from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.	Seed Mixtures Temporary Permanent Seed Type Ibs/acre Ibs/acre	
Type Ibs/acre Seed Type Ibs/acre Ryegrass - 50 See Attached Theat - 75 Ryegrass - 50 d, location, pit and proposed area for land application (unless engineered plans including this info have been atter from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.	Temporary Permanent Seed Type Ibs/acre Seed Type Ibs/ac al Ryegrass - 50 See Attached	
Type Ibs/acre Seed Type Ibs/acre Ryegrass - 50 See Attached Theat - 75 Ryegrass - 50 d, location, pit and proposed area for land application (unless engineered plans including this info have been atter from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.	Seed Type Ibs/acre Seed Type Ibs/ac al Ryegrass - 50 See Attached	
Ryegrass - 50 See Attached A location, pit and proposed area for land application (unless engineered plans including this info have been atter from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.	al Ryegrass - 50 See Attached	
Alpheat - 75 Ryegrass - 50 d, location, pit and proposed area for land application (unless engineered plans including this info have been atter from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.		acre
d, location, pit and proposed area for land application (unless engineered plans including this info have been atter from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.		
d, location, pit and proposed area for land application (unless engineered plans including this info have been ater from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), a land application area.	r Wheat - 75	
land application area.	al Ryegrass - 50	
land application area. ection of involved 7.5' topographic sheet.		
	oved by: Juliolo	
16-1-1	146-1-1	
+ 6as Inspector Date: 12/5/18		
? () Ves () No	ewed? () Yes () No	

DEC 1 7 2018

Seed Mixtures

Permanen	ent		Permanent		
Seed Type	3ton/ac lbs/acre	lbs/acre	Seed Type	_	bs/acre
Non Agricutlural Upland		6000 and	Hayfield, Pastureland, and Cropland		6000
Tall Fescue	57%	57% 3420.00	Orchard Grass		2400.00
Perennial Ryegrass	19%	649.80	Timothy		00.00
Ladino Clover	10%	64.98	Birdsfoot - Trefoil		00.96
Birdsfoot - Trefoil	10%	6.50	Ladino Clover	10%	09.60
Red Top	4%				

RECEIVED
Office of Oil and Gas

DEC 17 2018

WV Department of Environmental Protection



Chevron

Appalachian LLC
WV Well Site Safety Plan

Pad: Freeland Pad A Well # M06H pr/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

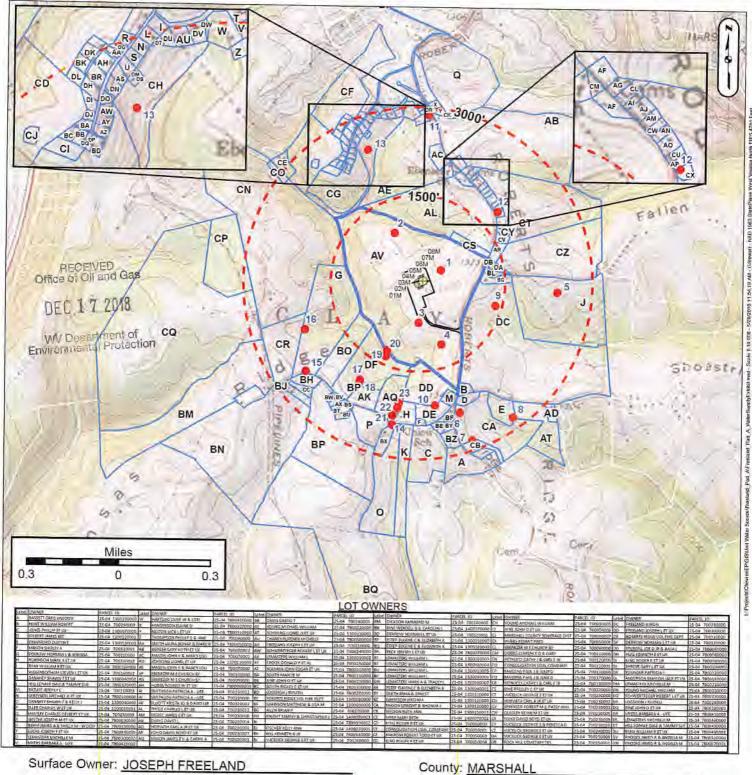
DEC 1 7 2018

WV Department of Environmental Protection



WATER SUPPLY EXHIBIT FREELAND PAD A





Oil/Gas Owner: JOSEPH FREELAND

Well Operator: CHEVRON APPALACHIA, LLC

Address: 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Phone: 724-564-3700

Township: MOUNDSVILLE, WV

GROUNDWATER & ENVIRONMENTAL

Surveyor: SERVICES, INC.

Address: 301 COMMERCE PARK DR

CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549

PAGE FOR PLAT TO LENGTH

SEE PAGE 3 FOR LESSORS

	SURFACE OWNER	DIST-TM/PAR
1	JOSEPH L. FREELAND ET UX	4-7/21
2	NORMAN L. DERROW ET UX	4-7/32
3	CARRIE ANN MASON	4-7/32.3
4	MARK A. & NORMA S. ROBINSON	4-7/31.2
5	PHILLIP JONES ET UX	4-13/7
6	SHAWN T. DANAHEY ET UX	4-13/4.2
7	*CHRISTY L. MCCLELLAND	4-13/7.1
8	GREG ELWOOD BASSETT	4-13/19
9	IMOGENE WHITFIELD - LIFE	4-13/20
10	IMOGENE WHITFIELD - LIFE	4-13/21
1.1	IMOGENE WHITFIELD - LIFE	4-13/22
12	IMOGENE WHITFIELD - LIFE	4-13/23
13	LINDA LEE WILLIAMS - TOD	4-13/25.1
14	LLOYD BAKER	4-13/25.2
15	JASON K. AMOS	4-13/25.4
16	DEAN E. PETTIT ET UX	5-3/34
17	FRANKLIN J. WILLIAMS II	5-3/35
18	PAUL E. JR. BARLOW ET UX	5-3/33
19	JIMMIE REGIEC ET UX	4-13/25.5
20	ROBERT L. JONES JR.	4-13/29.1
21	LOYE A. BLAKE SR., EST	5-3/32.2
22	KEITH A. & STACY HILL	5-3/32.10
23	JOHN ROBERT HILL ET UX - LIFE	5-3/32.4
24	RALPH A. & ROBIN R. HOLMES	5-3/6.1
25	JEFFREY A. SZAFRAN	5-3/6
26	DOUG & TERRI ALLMAN	5-3/6.3
27	CHARLENE L. BAKER	5-3/10.2
28	CHARLENE LORRAINE BAKER	5-3/10.1
29	RAYMOND L. & DOROTHY L. MIDCAP	5-3/10
30	TRACY MERCER	5-3/13.2
31	DOUGLAS G. & MICHAEL W. & STEPHEN S. DERROW	5-3/13
32	MICHAEL WILLIAM DERROW	5-3/13.4
33	GLEN L. CUNNINGHAM ET UX	5-3/14
34	BRENT C. & SATONA L. CUNNINGHAM	5-3/15

03/08/201

map map 3,263 feet feet west of of Longitude: Longitude: 80. 45

00

2. S.

located located

- DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

Blue Mountain

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

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83(M) N:4413095.39 E:520436.24 NAD83, WV NORTH N:500627,748

E:1614549.444

UTM 17-NAD83(M) N:4412531.29 E:520257.60 NAD83, WV NORTH N:498786.447 E:1613932.298

APPROX. LANDING POINT

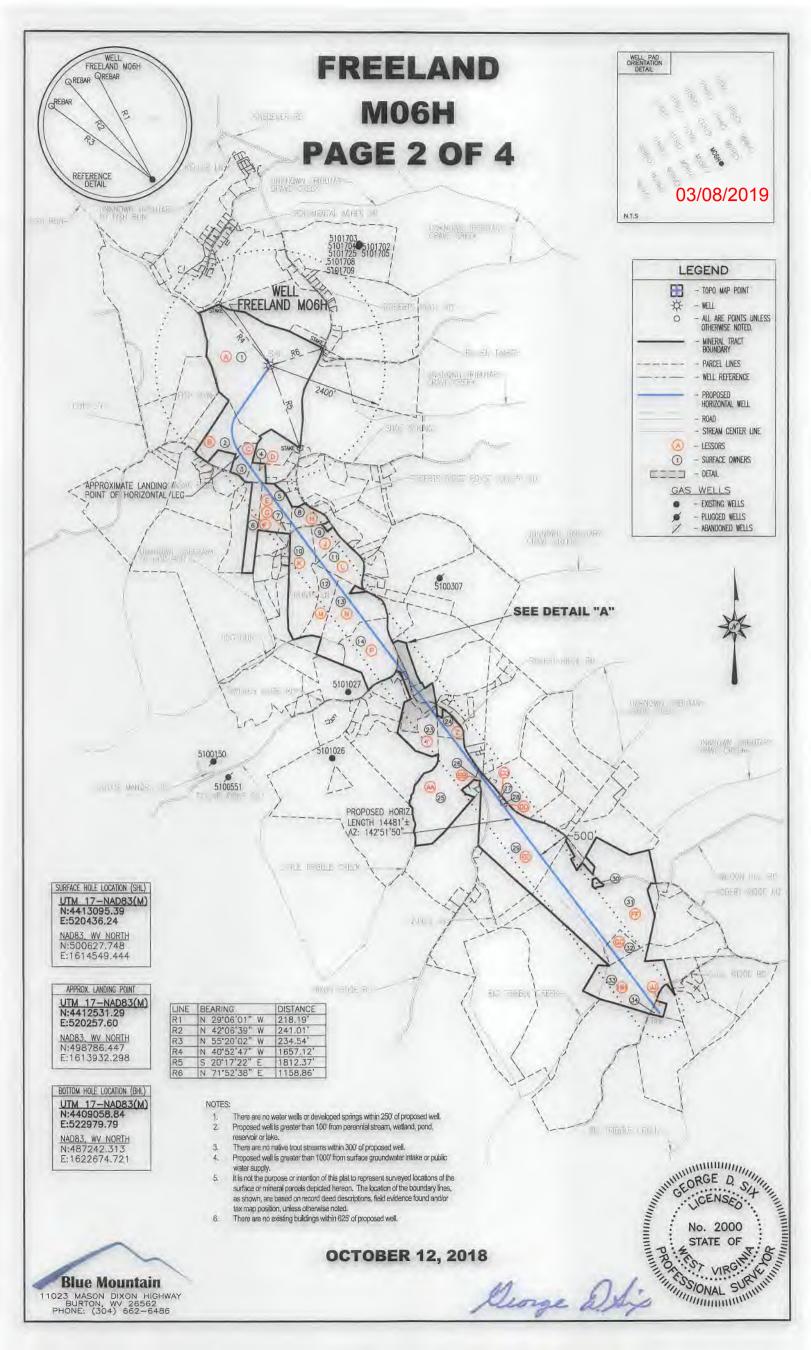
BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83(M) N:4409058.84 E:522979.79 NAD83, W NORTH N:487242.313 E:1622674.721

No. 2000
STATE OF
VIRGINIA I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS FILE #: PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND FREELAND MO6H BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY DRAWING #: FREELAND MO6H LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY SCALE: 1" = 2000' THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. MINIMUM DEGREE OF ACCURACY: Signed: 1/2500 PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.81 R.P.E .: L.L.S.: P.S. No. 2000 PLACE SEAL HERE WEST V DATE: OCTOBER 12, 2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



WVDEP OFFICE OF OIL & GAS	OPERATOR'S WELL#: FREELAND M06H
601 57TH STREET CHARLESTON, WV 25304	API WELL#: 47 51 02151
CHARLESTON, WY 25504	STATE COUNTY PERMIT
Well Type: Oil Waste Disposal Production	Deep X Gas Liquid Injection Storage X Shallow
WATERSHED: SHORT CREEK-OHIO RIVER	ELEVATION: 1274.00'
COUNTY/DISTRICT: MARSHALL / CLAY	QUADRANGLE: POWHATAN POINT, WV 7.5"
SURFACE OWNER: JOSEPH L, FREELAND ET UX	ACREAGE: 104.22±
OIL & GAS ROYALTY OWNER: JOSEPH FREELAND ET UX	ACREAGE: 529.943±
DRILL X CONVERT DRILL DEEPER REDRILL	FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION PLUG & ABANDON O	CLEAN OUT & REPLUG OTHER CHANGE
(SPECIFY):	
TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: TVD: 6,395'± TMD: 21,961.46'±
WELL OPERATOR CHEVRON APPALACHIA, LLC	DESIGNATED AGENT KENNETH E. TAWNEY
Address 700 CHERRINGTON PARKWAY	Address 500 LEE STREET, EAST SUITE 1600
City CORADPOLIS State PA Zin Code 15108	City CHARLESTON State WV Zip Code 25301-3202



FREELAND M06H PAGE 3 OF 4

\sim	10	\mathbf{a}	10	\sim	
03	/(J	റ	Z	UT	19

	LESSOR	DIST-TM/PA
4	JOSEPH FREELAND ET UX	4-7/21
3	NORMAN L. DERROW ET UX	4-7/32
3	CARRIE ANN MASON	4-7/32.3
)	MARK A. ROBINSON	
-	PHILLIP D. JONES ET UX	4-7/31.2
-	SHAWN T. DANAHEY ET UX	4-13/7
		4-13/4.2
3	*CHAD W. MCCLELLAND ET UX	4-13/7.1
1	GREG E. BASSETT ET UX	4-13/19
	IMOGENE WHITFIELD	4-13/20
(IMOGENE WHITFIELD	4-13/21
	IMOGENE WHITFIELD	4-13/22
A	IMOGENE WHITFIELD	4-13/23
1	CHARLES WILLIAMS ET UX	4-13/25.1
	LLOYD G. BAKER	4-13/25.2
)	JASON K. AMOS	4-13/25.4
	DEAN E. PETTIT ET UX	5-3/34
	FRANKLIN J. WILLIAMS II	5 7/75
_	PAUL E. BARLOW JR., ET UX	5-3/35
		5-3/33
_	JIMMY REGIEC ET UX	4-13/25.5
	ROBERT L. JONES JR., ET UX	4-13/29.1
/	BRIAN E. BLAKE	5-3/32.2
	KEITH A. HILL	5-3/32.10
	CAROL ELLEN HILL	5-3/32.4
	MARK O. HILL	
	MELISSA J. DAVIS	
	KEITH A. HILL	
	CHARLOTTE S. SZAFRAN	5-3/6.1
	JEFFREY A. SZAFRAN	0 0/0.1
	JEFFREY D. ROBINSON UX	
	RANDY D. ROBINSON	
	MARK A. ROBINSON	
	BRIAN FURBEE	
	GREGORY D. FURBEE	
	MARSHA A. SINGER	l.
	EDMOND J. FURBEE	
	CHRISTOPHER G. FURBEE	1
	MATTHEW R. FURBEE	
	MAUREEN C. COOPER	
	REXENA A. CUNNINGHAM	
	RICHARD CECIL ET UX	
	SHERRY L. MORRIS	
	WILLIAM R. POLEN	51
	DEBBIE MAE MOORE	
	ETHEL E. STARKEY AKA ETHEL ELAINE STARKEY	
	CALLENE M. PETERSON FKA CALLENE M. STARKEY	9
	REBECCA JEAN BROWN	
	PAULA J. ROHRER	
	MARLA K. STRUHAR	
	SARAH SISLEY FKA SARAH SALSBERRY ET VIR	0
	CARALOTTA J. GIBSON FKA CARALOTTA SALSBERRY	
	JOHN M. SALSBERRY BY JASON L. JACKSON GUARDIAN	5
	DELLA J. COVERDALE ET UX	
	TRACY M. SALSBERRY AKA TRACY SALSBERRY	l.
	GINGER L. SALSBERRY AKA GINGER SALSBERRY	
	DALE A. SALSBERRY AKA DALE ADORIN SALSBERRY	
	JODIE R. MORRIS FKA JODIE SALSBERRY	
	BARBARA L. MCGAHA	
	ELAINE M. KEENER	
	SHERRY KAY RISHER	
	SANDRA LEE KNAPSKI	
	BRENT LEE STARKEY	
	FORREST STARKEY ET UX	
	ANITA STANLEY FKA ANITA STARKEY	
	LINDA D. MAYO ET VIR	
	CAROL JEAN MALILKA ALBERT	
	SHARON L. SCHARTIGER	
	JANET SHADDICK	
	DUANE M. STARKEY ET UX	1
	REGINA KAY ST GEORGE ET VIR	
	BETTY LOU STARKEY	
	PATTIE S. MADRID FKA PATTIE S. SPEAR	
A	CHARLOTTE S. SZAFRAN	5-3/6
	JEFFREY A. SZAFRAN	
	JEFFREY D. ROBINSON UX	
	RANDY D. ROBINSON	

		03/00/2
	LESSOR	DIST-TM/PAR
IA.	BRIAN FURBEE	5-3/6
	GREGORY D. FURBEE	
	MARSHA A. SINGER	
	EDMOND J. FURBEE	
	CHRISTOPHER G. FURBEE	
	MATTHEW R. FURBEE	
	MAUREEN C. COOPER	
	REXENA A. CUNNINGHAM	
	RICHARD CECIL ET UX	
	SHERRY L. MORRIS	
	WILLIAM R. POLEN	
	DEBBIE MAE MOORE	
	ETHEL E. STARKEY AKA ETHEL ELAINE STARKEY	
	CALLENE M. PETERSON FKA CALLENE M. STARKEY	
	REBECCA JEAN BROWN	
	PAULA J. ROHRER	
	MARLA K. STRUHAR	
	SARAH SISLEY FKA SARAH SALSBERRY ET VIR	
	CARALOTTA J. GIBSON FKA CARALOTTA SALSBERRY	
	JOHN M. SALSBERRY BY JASON L. JACKSON GUARDIAN	
	DELLA J COVERDALE ET UX	
	TRACY M. SALSBERRY AKA TRACY SALSBERRY	
	GINGER L. SALSBERRY AKA GINGER SALSBERRY	
	DALE A. SALSBERRY AKA DALE ADORIN SALSBERRY	
	JODIE R. MORRIS FKA JODIE SALSBERRY	
	BARBARA L. MCGAHA	
	ELAINE M. KEENER	
	SHERRY KAY RISHER	
	SANDRA LEE KNAPSKI	
	BRENT LEE STARKEY	
	FORREST STARKEY ET UX	
	ANITA STANLEY FKA ANITA STARKEY	
	LINDA D. MAYO ET VIR	
	CAROL JEAN MALILKA ALBERT	
	SHARON L. SCHARTIGER	
	JANET SHADDICK	
	DUANE M. STARKEY ET UX	
	REGINA KAY ST GEORGE ET VIR	
	BETTY LOU STARKEY	
	PATTIE S. MADRID FKA PATTIE S. SPEAR	

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413095.39
E:520436.24

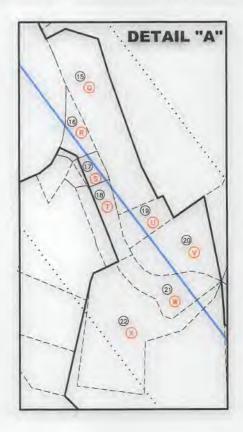
NAD83, WV NORTH N:500627.748 E:1614549.444 APPROX. LANDING POINT

UTM 17—NAD83(M)
N:4412531.29
E:520257.60

UTM 17-NAD83(M) N:4409058.84 E:522979.79 NAD83, WV NORTH N:487242.313 E:1622674.721

BOTTOM HOLE LOCATION (BHL)

NAD83, WV NORTH N:498786.447 E:1613932.298



* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

OCTOBER 12, 2018

FREELAND M06H PAGE 4 OF 4

03/08/2019

	LESSOR	DIST-TM/PAR
В	CHARLOTTE S. SZAFRAN	5-3/6.3
	JEFFREY A. SZAFRAN	/ -/-
	JEFFREY D. ROBINSON UX	
	RANDY D. ROBINSON	
	MARK A. ROBINSON	
	BRIAN FURBEE	
	GREGORY D. FURBEE	
	MARSHA A. SINGER	
	EDMOND J. FURBEE	
	CHRISTOPHER G. FURBEE	
	MATTHEW R. FURBEE	
	MAUREEN C. COOPER	
	REXENA A. CUNNINGHAM	
	RICHARD CECIL ET UX	
	SHERRY L. MORRIS	
	WILLIAM R. POLEN	
	DEBBIE MAE MOORE	
	ETHEL E. STARKEY AKA ETHEL ELAINE STARKEY	
	CALLENE M. PETERSON FKA CALLENE M. STARKEY	
	REBECCA JEAN BROWN	
	PAULA J. ROHRER	
	MARLA K. STRUHAR	
	SARAH SISLEY FKA SARAH SALSBERRY ET VIR	
	CARALOTTA J. GIBSON FKA CARALOTTA SALSBERRY	
	JOHN M. SALSBERRY BY JASON L. JACKSON GUARDIAN	
	DELLA J. COVERDALE ET UX	
	TRACY M. SALSBERRY AKA TRACY SALSBERRY	
	GINGER L. SALSBERRY AKA GINGER SALSBERRY	
	DALE A. SALSBERRY AKA DALE ADORIN SALSBERRY	
	JODIE R. MORRIS FKA JODIE SALSBERRY	
	BARBARA L. MCGAHA	
	ELAINE M. KEENER	-
	- Control of the Cont	
	SHERRY KAY RISHER	
	SANDRA LEE KNAPSKI	
	BRENT LEE STARKEY	
	FORREST STARKEY ET UX	
	ANITA STANLEY FKA ANITA STARKEY	
	LINDA D. MAYO ET VIR	
	CAROL JEAN MALILKA ALBERT	
	SHARON L. SCHARTIGER	
	JANET SHADDICK	
	DUANE M. STARKEY ET UX	
	REGINA KAY ST GEORGE ET VIR	
	BETTY LOU STARKEY	
	PATTIE S. MADRID FKA PATTIE S. SPEAR	
С	DOROTHY L. MIDCAP	5-3/10.2
_	CHARLENE LORRAINE BAKER	5-3/10.1
1.7	DOROTHY L. MIDCAP	5-3/10
	IDURUIHT L. MIDCAP	
E		
E	MICHAEL WILLIAM DERROW	5-3/13
D E G		

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413095.39
E:520436.24

NAD83, WV NORTH N:500627.748 E:1614549.444 APPROX. LANDING POINT

UTM 17-NAD83(M) N:4412531.29 E:520257.60 NAD83, WV NORTH N:498786.447 E:1613932.298 BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M) N:4409058.84 E:522979.79

NAD83, W NORTH N:487242.313 E:1622674.721



Operator's Well No. M06H

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

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

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

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

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

Well Operator: Chevron Appalachia, LLC

By:

Jenny Butchko

Its:

Permitting Team Lead

RECEIVED Office of Oil and Gas

Page 1 of 10

DEC 1 7 2018

WV Department of Environmental Protection

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
Α	4-7-21	FREELAND JOSEPH ET UX	Chevron U.S.A. Inc.	0.180	932/374	n/a	n/a	n/a
В	4-7-32	DERROW NORMAN LET UX	Chevron U.S.A. Inc.	0.180	852/409	n/a	n/a	n/a
С	4-7-32.3	MASON CARRIE ANN	Chevron U.S.A. Inc.	0.180	852/378	n/a	n/a	n/a
D	4-7-31.2	ROBINSON MARK A - SFX	Chevron U.S.A. Inc.	0.180	915/513	n/a	n/a	п/а
E	4-13-7	JONES PHILLIP D ET UX	TriEnergy Holdings, LLC	0.160	705/264	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
F	4-13-4.2	DANAHEY SHAWN T ET UX	TH Exploration, LLC	0.180	876/64	36/168 TH Exploration, LLC to Chevron U.S.A. Inc.	n/a	n/a
G	4-13-7.1	MCCLELLAND CHAD W. ET UX	Chevron U.S.A. Inc.	0.140	773/506	n/a	n/a	n/a
н	4-13-19	BASSETT GREG E ET UX	TriEnergy Holdings, LLC	0.160	704/613	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
J	4-13-20	WHITFIELD IMOGENE	AB Resources, LLC	0.125	689/89	24/466 AB Resources et al to Chief Exploration and Development and Radier 2000 Limited Partnership	25/105 Chief Exploration and Development and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
к	4-13-21	WHITFIELD IMOGENE	AB Resources, LLC	0.125	689/89	24/466 AB Resources et al to Chief Exploration and Development and Radler 2000 Limited Partnership	25/105 Chief Exploration and Development and Radler 2000 Limited Partnership to Chevron U.S.A. Inc. 25/105	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
L	4-13-22	WHITFIELD IMOGENE	AB Resources, LLC	0.125	689/89	24/466 AB Resources et al to Chief Exploration and Development and Radier 2000 Limited Partnership	25/105 Chief Exploration and Development and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.

RECEIVED
Office of Oil and Gas
FEB 1 9 2019

WV Department of Environmental Protection

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		WHITFIELD IMOGENE				24/466	25/105	
	}					AB Resources et al to	Chief Exploration and	756/397
М	4-13-23		AB Resources, LLC	0.125	689/89	Chief Exploration and	Development and	AB Resources, LLC
141	7-13-23		Ab Resources, LLC	0.123	003/03	Development and Radier	Radler 2000 Limited	to Chevron U.S.A.
	1	ł				2000 Limited	Partnership to Chevron	Inc.
						Partnership	U.S.A. Inc.	
N		WILLIAMS CHARLES ET UX	Chevron U.S.A. Inc.	0.180	838/545	n/a	n/a	n/a
Р	4-13-25.2	BAKER LLOYD G	Chevron U.S.A. Inc.	0.180	861/583	n/a	n/a	n/a
Q	4-13-25.4	AMOS JASON K	Chevron U.S.A. Inc.	0.160	803/549	n/a	n/a	n/a
		PETTIT DEAN E ET UX				25/489	756/332	
R	5-3-34	ļ	TriEnergy Holdings, LLC	0.160	739/571	TriEnergy Holdings, LLC	NPAR, LLC to Chevron	n/a
						to NPAR, LLC	U.S.A. Inc.	
S	5-3-35	WILLIAMS FRANKLIN J II	Chevron U.S.A. Inc.	0.170	899/520	n/a	n/a	n/a
		BARLOW PAUL E JR ET UX				25/489	756/332	
T	5-3-33	TriE	TriEnergy Holdings, LLC	0.160	740/23	TriEnergy Holdings, LLC	NPAR, LLC to Chevron	n/a
					ļ	to NPAR, LLC	U.S.A. Inc.	
U	4-13-25.5	REGIEC JIMMY ET UX	Chevron U.S.A. Inc.	0.160	772/438	n/a	n/a	n/a
		JONES ROBERT L JR ET UX				24/490	25/1	
				0.125	1	AB Resources, LLC to	Chief Exploration &	756/3 9 7
V	4-13.29.1	.1	AB Resources, LLC		689/87	Chief Exploration &	Development LLC and	AB Resources, LLC
-			110 1105011050, 220			Development LLC and	Radler 2000 Limited	to Chevron U.S.A.
		ļ				Radler 2000 Limited	Partnership to Chevron	Inc.
		OLAWE DRIAN E				<u>Partnership</u>	U.S.A. Inc.	
W		BLAKE BRIAN E	Chevron U.S.A. Inc.	0.160	771/633	n/a	n/a	n/a
		HILL KEITH A				39/1	40/577	
Х	5-3-32.10	•	Noble Energy, Inc.	0.170	845/252	Noble Energy, Inc. to HG	HG Energy II Appalachia	n/a
						Energy II Appalachia	to Chevron U.S.A. Inc.	
		HILL CAROL ELLEN				39/1	40/577	
]	Noble Energy, Inc.	0.170	845/185	Noble Energy, Inc. to HG		n/a
•			Noble Chergy, Inc.	0.170	043/103	Energy II Appalachia	to Chevron U.S.A. Inc.	14/4
		THILL BARRY O				Chergy ii Appaiachia	to cheston o.s.A. mc.	
		HILL MARK O			1	39/1	40/577	
			Nobie Energy, Inc.	0.170	845/187	Noble Energy, Inc. to HG	HG Energy II Appalachia	n/a
		[Energy II Appalachia	to Chevron U.S.A. Inc.	

RECEIVED
Office of Oil and Gas
FEB 192019

WV Department of Environmental Protection

Plat iD	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	3332.4	DAVIS MELISSA J	Noble Energy, Inc.	0.170	845/167	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		HILL KEITH A	Noble Energy, Inc.	0.170	845/252	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		SZAFRAN CHARLOTTE S - SFX	Chevron U.S.A. Inc.	0.200	939/124	n/a	n/a	n/a
	İ	SZAFRAN JEFFREY A - SFX	Chevron U.S.A. Inc.	0.200	939/223	n/a	n/a	n/a
		ROBINSON JEFFREY D UX - SFX	Chevron U.S.A. Inc.	0.180	887/576	n/a	n/a	n/a
]		ROBINSON RANDY D - SFX	Chevron U.S.A. Inc.	0.180	880/539	n/a	n/a	n/a
1		ROBINSON MARK A - SFX	Chevron U.S.A. Inc.	0.180	887/573	n/a	n/a	n/a
İ		FURBEE BRIAN - SFX	Chevron U.S.A. Inc.	0.180	939/136	n/a	n/a	n/a
		FURBEE GREGORY D - SFX	Chevron U.S.A. inc.	0.180	939/139	n/a	n/a	n/a
		SINGER MARSHA A - SFX	Chevron U.S.A. Inc.	0.180	890/469	n/a	n/a	n/a
	İ	FURBEE EDMOND J - SFX	Chevron U.S.A. Inc.	0.180	926/68	n/a	n/a	n/a
		FURBEE CHRISTOPHER G - SFX	Chevron U.S.A. Inc.	0.180	873/613	n/a	n/a	n/a
	ł	FURBEE MATTHEW R - SFX	Chevron U.S.A. Inc.	0.180	880/440	n/a	n/a	n/a
		COOPER MAUREEN C - SFX	Chesapeake Appalachia, LLC	0.125	691/26	24/338 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
		CUNNINGHAM REXENA A - SFX	Chevron U.S.A. Inc.	0.180	873/610	n/a	n/a	n/a
		CECIL RICHARD ET UX - SFX	Chevron U.S.A. Inc.	0.180	871/132	n/a	n/a	n/a
		MORRIS SHERRY L - SFX	Chevron U.5.A. Inc.	0.160	929/526	n/a	n/a	n/a
		POLEN WILLIAM R - SFX	Chevron U.S.A. Inc.	0.160	880/419	n/a	n/a	n/a
	:	MOORE DEBBIE MAE - SFX	Chesapeake Appalachia, LLC	0.125	690/564	24/338 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.

C 0 C ---**b**

Page 4

RECEIVED
Office of Oil and Gas

Plat (D	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		STARKEY ETHEL E AKA STARKEY ETHEL ELAINE - SFX	Chevron U.S.A. Inc.	0.180	871/152	n/a	n/a	n/a
		PETERSON CALLENE M FKA STARKEY CALLENE M - SFX	Chevron U.S.A. Inc.	0.180	871/114	n/a	n/a	n/a
		BROWN REBECCA JEAN - SFX	Chevron U.S.A. Inc.	0.180	873/309	n/a	n/a	n/a
	İ	ROHRER PAULA J - SFX	Chevron U.S.A. Inc.	0.180	873/312	n/a	n/a	n/a
Z	5-3-6.1	STRUHAR MARLA K - SFX	Chevron U.S.A. Inc.	0.180	873/321	n/a	n/a	n/a
		SISLEY SARAH FKA SALSBERRY SARAH ET VIR - SFX	Chevron U.S.A. Inc.	0.180	871/145	n/a	n/a	n/a
		GIBSON CARALOTTA J FKA SALSBERRY CARALOTTA - SFX	Chevron U.S.A. Inc.	0.180	871/138	n/a	n/a	n/a
		SALSBERRY JOHN M BY JASON L JACKSON GUARDIAN - SFX	Chevron U.S.A. Inc.	0.180	882/203	n/a	n/a	n/a
	1	COVERDALE DELLA J ET UX - SFX	Chevron U.S.A. Inc.	0.180	871/173	n/a	n/a	n/a
		SALSBERRY TRACY M AKA SALSBERRY TRACY - SFX	Chevron U.S.A. Inc.	0.180	871/159	n/a	n/a	n/a
		SALSBERRY GINGER L AKA SALSBERRY GINGER SFX	Chevron U.S.A. Inc.	0.180	871/167	n/a	n/a	n/a
		SALSBERRY DALE A AKA SALSBERRY DALE ADORIN - SFX	Chevron U.S.A. Inc.	0.180	871/315	n/a	n/a	n/a
		MORRIS JODIE R FKA SALSBERRY JODIE - SFX	Chevron U.S.A. Inc.	0.180	871/126	n/a	n/a	n/a
]	MCGAHA BARBARA L - SFX	Chevron U.S.A. Inc.	0.180	872/98	n/a	n/a	n/a
		KEENER ELAINE M - SFX	Chevron U.S.A. Inc.	0.180	872/101	n/a	n/a	n/a
		RISHER SHERRY KAY - SFX	Chevron U.S.A. Inc.	0.160	803/562	n/a	n/a	n/a
		KNAPSKI SANDRA LEE - SFX	Chevron U.S.A. Inc.	0.180	873/315	n/a	n/a	n/a
		STARKEY BRENT LEE - SFX	Chevron U.S.A. Inc.	0.180	873/318	n/a	n/a	n/a
		STARKEY FORREST ET UX - SFX	Chevron U.S.A. Inc.	0.180	872/154	n/a	n/a	n/a
		STANLEY ANITA FKA STARKEY ANITA - SFX	Chevron U.S.A. Inc.	0.180	872/151	n/a	n/a	n/a
		MAYO LINDA D ET VIR - SFX	Chevron U.S.A. Inc.	0.180	872/157	n/a	n/a	n/a
		ALBERT CAROL JEAN MALILKA - SFX	Chevron U.S.A. Inc.	0.180	893/268	n/a	n/a	n/a
		SCHARTIGER SHARON L - SFX	Chevron U.S.A. Inc.	0.180	893/205	n/a	n/a	n/a
		SHADDICK JANET - SFX	Chevron U.S.A. Inc.	0.180	893/271	n/a	n/a	n/a
		STARKEY DUANE M ET UX - SFX	Chevron U.S.A. Inc.	0.180	893/265	n/a	n/a	n/a

PECEIVED
Office of Oil and Gas
FEB 1 9 2019
WV Department of Environmental Protection

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		ST GEORGE REGINA KAY ET VIR - SFX	Chevron U.S.A. Inc.	0.180	872/104	n/a	n/a	n/a
		STARKEY BETTY LOU - SFX	Chevron U.S.A. Inc.	0.180	872/107	n/a	n/a	n/a
		MADRID PATTIE S FKA SPEAR PATTIE S - SFX	Chevron U.S.A. Inc.	0.180	871/120	n/a	n/a	n/a
		SZAFRAN CHARLOTTE S - SFX	Chevron U.S.A. Inc.	0.200	939/124	n/a	n/a	n/a
	1	SZAFRAN JEFFREY A - SFX	Chevron U.S.A. Inc.	0.200	939/223	n/a	n/a	n/a
		ROBINSON JEFFREY D UX - SFX	Chevron U.S.A. Inc.	0.180	887/576	n/a	n/a	n/a
		ROBINSON RANDY D - SFX	Chevron U.S.A. Inc.	0.180	880/539	n/a	n/a	n/a
		ROBINSON MARK A - SFX	Chevron U.S.A. Inc.	0.180	887/573	n/a	n/a	n/a
		FURBEE BRIAN - SFX	Chevron U.S.A. Inc.	0.180	939/136	n/a	n/a	n/a
1		FURBEE GREGORY D - SFX	Chevron U.S.A. Inc.	0.180	939/139	n/a	n/a	n/a
-		SINGER MARSHA A - SFX	Chevron U.S.A. Inc.	0.180	890/469	n/a	n/a	n/a
		FURBEE EDMOND J - SFX	Chevron U.S.A. Inc.	0.180	926/68	n/a	n/a	n/a
	1	FURBEE CHRISTOPHER G - SFX	Chevron U.S.A. Inc.	0.180	873/613	n/a	n/a	n/a
		FURBEE MATTHEW R - SFX	Chevron U.S.A. Inc.	0.180	880/440	n/a	n/a	n/a
		COOPER MAUREEN C - SFX	Chesapeake Appalachia, LLC	0.125	691/26	24/338 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
		CUNNINGHAM REXENA A - SFX	Chevron U.S.A. Inc.	0.180	873/610	n/a	n/a	n/a
		CECIL RICHARD ET UX - SFX	Chevron U.S.A. Inc.	0.180	871/132	n/a	n/a	n/a
		MORRIS SHERRY L - SFX	Chevron U.S.A. Inc.	0.160	929/526	n/a	n/a	n/a
		POLEN WILLIAM R - SFX	Chevron U.S.A. Inc.	0.160	880/419	n/a	n/a	n/a
		MOORE DEBBIE MAE - SFX	Chesapeake Appalachia, LLC	0.125	690/564	24/338 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. inc.
		STARKEY ETHEL E AKA STARKEY ETHEL ELAINE - SFX	Chevron U.S.A. Inc.	0.180	871/152	n/a	n/a	n/a
		PETERSON CALLENE M FKA STARKEY CALLENE M - SFX	Chevron U.S.A. Inc.	0.180	871/114	n/a	n/a	n/a
		BROWN REBECCA JEAN SFX	Chevron U.S.A. Inc.	0.180	873/309	n/a	n/a	n/a

RECEIVED Office of Oil and Gas
FEB 1 9 2019

WV Department of Environmental Protection

Piat (D	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		ROHRER PAULA J - SFX	Chevron U.S.A. inc.	0.180	873/312	n/a	n/a	n/a
AA	5-3-6	STRUHAR MARLA K - SFX	Chevron U.S.A. Inc.	0.180	873/321	n/a	n/a	n/a
		SISLEY SARAH FKA SALSBERRY SARAH ET VIR - SFX	Chevron U.S.A. Inc.	0.180	871/145	n/a	n/a	n/a
		GIBSON CARALOTTA J FKA SALSBERRY CARALOTTA - SFX	Chevron U.S.A. Inc.	0.180	871/138	n/a	n/a	n/a
		SALSBERRY JOHN M BY JASON L JACKSON GUARDIAN - SFX	Chevron U.S.A. Inc.	0.180	882/203	n/a	n/a	n/a
ļ ·	1	COVERDALE DELLA J ET UX - SFX	Chevron U.S.A. Inc.	0.180	871/173	n/a	n/a	n/a
		SALSBERRY TRACY M AKA SALSBERRY TRACY - SFX	Chevron U.S.A. Inc.	0.180	871/159	n/a	n/a	n/a
		SALSBERRY GINGER L AKA SALSBERRY GINGER - SFX	Chevron U.S.A. Inc.	0.180	871/167	n/a	n/a	n/a
		SALSBERRY DALE A AKA SALSBERRY DALE ADORIN - SFX	Chevron U.S.A. Inc.	0.180	871/315	n/a	n/a	n/a
		MORRIS JODIE R FKA SALSBERRY JODIE - SFX	Chevron U.S.A. Inc.	0.180	871/126	n/a	n/a	n/a
		MCGAHA BARBARA L - SFX	Chevron U.S.A. Inc.	0.180	872/98	n/a	n/a	n/a
	İ	KEENER ELAINE M - SFX	Chevron U.S.A. Inc.	0.180	872/101	n/a	n/a	n/a
	1	RISHER SHERRY KAY - SFX	Chevron U.S.A. Inc.	0.160	803/562	n/a	n/a	n/a
		KNAPSKI SANDRA LEE - SFX	Chevron U.S.A. Inc.	0.180	873/315	n/a	n/a	n/a
		STARKEY BRENT LEE - SFX	Chevron U.S.A. Inc.	0.180	873/318	n/a	n/a	n/a
		STARKEY FORREST ET UX - SFX	Chevron U.S.A. Inc.	0.180	872/154	n/a	n/a	n/a
		STANLEY ANITA FKA STARKEY ANITA - SFX	Chevron U.S.A. inc.	0.180	872/151	n/a	n/a	n/a
		MAYO LINDA D ET VIR - SFX	Chevron U.S.A. Inc.	0.180	872/157	n/a	n/a	n/a
		ALBERT CAROL JEAN MALILKA - SFX	Chevron U.S.A. Inc.	0.180	893/268	n/a	n/a	n/a
		SCHARTIGER SHARON L - SFX	Chevron U.S.A. Inc.	0.180	893/205	n/a	n/a	n/a
		SHADDICK JANET - SFX	Chevron U.S.A. Inc.	0.180	893/271	n/a	n/a	n/a
		STARKEY DUANE M ET UX - SFX	Chevron U.S.A. Inc.	0.180	893/265	n/a	n/a	n/a
		ST GEORGE REGINA KAY ET VIR - SFX	Chevron U.S.A. Inc.	0.180	872/104	n/a	n/a	n/a
		STARKEY BETTY LOU - SFX	Chevron U.S.A. Inc.	0.180	872/107	n/a	n/a	n/a
		MADRID PATTIE S FKA SPEAR PATTIE S - SFX	Chevron U.S.A. Inc.	0.180	871/120	n/a	n/a	n/a
		SZAFRAN CHARLOTTE S - SFX	Chevron U.S.A. Inc.	0.200	939/124	n/a	n/a	n/a

4705102151

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		SZAFRAN JEFFREY A - SFX	Chevron U.S.A. Inc.	0.200	939/223	n/a	n/a	n/a
		ROBINSON JEFFREY D UX - SFX	Chevron U.S.A. Inc.	0.180	887/576	n/a	n/a	n/a
		ROBINSON RANDY D - SFX	Chevron U.S.A. Inc.	0.180	880/539	n/a	n/a	n/a
	ļ	ROBINSON MARK A - SFX	Chevron U.S.A. Inc.	0.180	887/573	n/a	n/a	n/a
	ļ	FURBEE BRIAN - SFX	Chevron U.S.A. Inc.	0.180	939/136	n/a	n/a	n/a
		FURBEE GREGORY D - SFX	Chevron U.S.A. Inc.	0.180	939/139	n/a	n/a	n/a
		SINGER MARSHA A - SFX	Chevron U.S.A. Inc.	0.180	890/469	n/a	n/a	n/a
		FURBEE EDMOND J - SFX	Chevron U.S.A. Inc.	0.180	926/68	n/a	n/a	n/a
	1	FURBEE CHRISTOPHER G - SFX	Chevron U.S.A. Inc.	0.180	873/613	n/a	n/a	n/a
		FURBEE MATTHEW R - SFX	Chevron U.S.A. Inc.	0.180	880/440	n/a	n/a	n/a
	į	COOPER MAUREEN C - SFX	Chesapeake Appalachia, LLC	0.125	691/26	24/338 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
		CUNNINGHAM REXENA A - SFX	Chevron U.S.A. Inc.	0.180	873/610	n/a	n/a	n/a
		CECIL RICHARD ET UX - SFX	Chevron U.S.A. Inc.	0.180	871/132	n/a	n/a	n/a
		MORRIS SHERRY L - SFX	Chevron U.S.A. Inc.	0.160	929/526	n/a	n/a	n/a
		POLEN WILLIAM R - SFX	Chevron U.S.A. Inc.	0.160	880/419	n/a	n/a	n/a
		MOORE DEBBIE MAE - SFX	Chesapeake Appalachia, LLC	0.125	690/564	24/338 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. inc.
		STARKEY ETHEL E AKA STARKEY ETHEL ELAINE - SFX	Chevron U.S.A. Inc.	0.180	871/152	n/a	n/a	n/a
		PETERSON CALLENE M FKA STARKEY CALLENE M - SFX	Chevron U.S.A. Inc.	0.180	871/114	n/a	n/a	n/a
		BROWN REBECCA JEAN - SFX	Chevron U.S.A. Inc.	0.180	873/309	n/a	n/a	n/a
		ROHRER PAULA J - SFX	Chevron U.S.A. Inc.	0.180	873/312	n/a	n/a	n/a
88	5-3-6.3	STRUHAR MARLA K - SFX	Chevron U.S.A. Inc.	0.180	873/321	n/a	n/a	n/a
		SISLEY SARAH FKA SALS8ERRY SARAH ET VIR - SFX	Chevron U.S.A. Inc.	0.180	871/145	n/a	n/a	n/a

RECEIVED
Office of Oil and Gas
FEB 1 9 2019
WV Department of
Environmental Protection

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		GIBSON CARALOTTA J FKA SALSBERRY CARALOTTA - SFX	Chevron U.S.A. Inc.	0.180	871/138	n/a	n/a	n/a
		SALSBERRY JOHN M BY JASON L JACKSON GUARDIAN - SFX	Chevron U.S.A. Inc.	0.180	882/203	n/a	n/a	n/a
		COVERDALE DELLA J ET UX - SFX	Chevron U.S.A. Inc.	0.180	871/173	n/a	n/a	n/a
		SALSBERRY TRACY M AKA SALSBERRY TRACY - SFX	Chevron U.S.A. Inc.	0.180	871/159	n/a	n/a	n/a
		SALSBERRY GINGER L AKA SALSBERRY GINGER - SFX	Chevron U.S.A. Inc.	0.180	871/167	n/a	n/a	n/a
		SALSBERRY DALE A AKA SALSBERRY DALE ADORIN - SFX	Chevron U.S.A. Inc.	0.180	871/315	n/a	n/a	n/a
		MORRIS JODIE R FKA SALSBERRY JODIE - SFX	Chevron U.S.A. Inc.	0.180	871/126	n/a	n/a	n/a
		MCGAHA BARBARA L - SFX	Chevron U.S.A. Inc.	0.180	872/98	n/a	n/a	n/a
		KEENER ELAINE M - SFX	Chevron U.S.A. Inc.	0.180	872/101	n/a	n/a	n/a
		RISHER SHERRY KAY - SFX	Chevron U.S.A. Inc.	0.160	803/562	n/a	n/a	n/a
		KNAPSKI SANDRA LEE - SFX	Chevron U.S.A. inc.	0.180	873/315	n/a	n/a	n/a
		STARKEY BRENT LEE - SFX	Chevron U.S.A. Inc.	0.180	873/318	n/a	n/a	n/a
		STARKEY FORREST ET UX - SFX	Chevron U.S.A. Inc.	0.180	872/154	n/a	n/a	n/a
		STANLEY ANITA FKA STARKEY ANITA - SFX	Chevron U.S.A. Inc.	0.180	872/151	n/a	n/a	n/a
		MAYO LINDA D ET VIR - SFX	Chevron U.S.A. Inc.	0.180	872/157	n/a	n/a	n/a
		ALBERT CAROL JEAN MALILKA - SFX	Chevron U.S.A. Inc.	0.180	893/268	n/a	n/a	n/a
	-	SCHARTIGER SHARON L - SFX	Chevron U.S.A. Inc.	0.180	893/205	n/a	n/a	n/a
		SHADDICK JANET - SFX	Chevron U.S.A. Inc.	0.180	893/271	n/a	n/a	n/a
		STARKEY DUANE M ET UX - SFX	Chevron U.S.A. Inc.	0.180	893/265	n/a	n/a	n/a
		ST GEORGE REGINA KAY ET VIR - SFX	Chevron U.S.A. Inc.	0.180	872/104	n/a	n/a	n/a
		STARKEY BETTY LOU - SFX	Chevron U.S.A. Inc.	0.180	872/107	n/a	n/a	n/a
		MADRID PATTIE S FKA SPEAR PATTIE S - SFX	Chevron U.S.A. Inc.	0.180	871/120	n/a	n/a	n/a
CC	5-3-10.2	MIDCAP DOROTHY L	Chevron U.S.A. Inc.	0.160	899/535	n/a	n/a	n/a
DO	5-3-10.1	BAKER CHARLENE LORRAINE	Chevron U.S.A. Inc.	0.160	899/535	n/a	n/a	n/a
EE	5-3-10	MIDCAP DOROTHY L	Chevron U.S.A. Inc.	0.160	899/535	n/a	n/a	n/a

RECEIVED
Office of Oil and Gas
FEB 1 9 2019

WV Department of Environmental Protection

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
FF	5-3-13	DERROW MICHAEL WILLIAM	Chesapeake Appalachia, LLC	0.150	681/341	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
GG	5-3-13.4	DERROW MICHAEL WILLIAM	Chesapeake Appalachia, LLC	0.150	681/341	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
нн	5-3-14	CUNNINGHAM GLENN L ET UX	Chevron U.S.A. Inc.	0.150	683/509	n/a	n/a	n/a
נו	5-3-15	CUNNINGHAM BRENT C ET UX	TriEnergy Holdings, LLC	0.160	737/271	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. inc.	n/a

RECEIVED
Office of Oil and Gas
FEB 1 9 2019
WV Department of
Environmental Protection



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

kevinoniz@chevron.com

RECEIVED Office of Oil and Gas

DEC 1 7 2018

WW-6AC (1/12)

47 0 5 9 **0 2 1 5 1** 03/08/2019

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION Date of Notice Certification: _/2/13/18 ADI No. 47

District: Quadrangle: Powhatan Point, WV 7.5' Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the notice requirements of section tender to the secretary that the	Date of Noti	ce Certification: 12/13/18	API No	. 47	
Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows: State: West Virginia Clay Public Road Access: Generally used farm name: Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-1(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of subcine that the Operator has properly served the required parties with the following: **PLEASE CHECK ALL THAT APPLY** 1. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 4. NOTICE OF PLANNED OPERATION **PLEASE ATTACH) **WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) **WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) **Office of Oil and Gas** **TRECEIVED **Office of Oil and Gas** **TRECEIVED **Office of Oil and Gas** **TRECEIVED **TRECEIVED **TRECEIVED **TRECEIVED **TRECEIVED **TRECEIVED **TRECEIVED **TRECEIVED **TRECEIVED **TRECEIVED **TRECE		•	Operato	r's Well No. MO	БН
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows: State: West Virginia County: Marshal UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: Powhstan Point, WY 7.5 Short Creek - Ohio River Pursuant to West Virginia Code § 22-6A-7(b), every permit application filled under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner; and Pursuant to West Virginia Code § 22-6A-1(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of subsection (b), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner; and Pursuant to West Virginia Code § 22-6A-1(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of subsection (b), section sixteen of this article; (iii) that the requirements of subsection (b), section tender proof of and certify to the secretary that the notice requirements of subsection (b), section tender proof of and certify to the secretary that the notice requirements of subsection (b), section tender proof of and certify to the secretary that the notice requirements of section tender proof of and certify to the secretary that the notice requirements of section tender proof of and certify to the secretary that the notice requirements of section tender proof of and certify to the secretary that the notice requirements of section tender proof of and certify to the secretary that the noti	TATE AT 1		Well Pa	d Name: Freelan	nd
State: West Virgina UTM NAD 83 Easting: Northing: Morthing: Public Road Access: Generally used farm name: State West Virgina Present Watershed: Short Creek - Ohio River Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: **PLEASE CHECK ALL THAT APPLY** 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 4. NOTICE OF PLANNED OPERATION **RECEIVED NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED Office of Oil and Gas **PLEASE ATTACH) **PLEASE ATTACH) **RECEIVED RECEIVED RECEIVED OFFIce of Oil and Gas **PLEASE CHECK ALL THAN PLAY PLAY PLAY PLAY PLAY PLAY PLAY PLAY					
Static: West Virginia UTM NAD 83 Easting: Northing: Marshail Marshail Public Road Access: Public Road Access: Public Road Access: Generally used farm name: Freeland	helow for the	tract of land as follows:	22-6A, the Operator has provided the	required parties	with the Notice Forms listed
County: Marshall District: Clay Public Road Access: Generally used farm name: Public Road Access: Generally used farm name: Generally used farm name: Freeland Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article, the information required by subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-1(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) PRECEIVED NOT REQUIRED RECEIVED NOT REQUIRED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED		· · · - ·	There		
District: Quadrangle: Powhatan Point, WV 7.5' Powhatan Point, WV 7.5' Powhatan Point, WV 7.5' Province of Powhatan Point, WV 7.5' Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section en fis article six-a; or (iii) the notice requirements of subsection (b), section is sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ent of this article in state of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: **PLEASE CHECK ALL THAT APPLY** 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY or NOT REQUIRED RECEIVED **PLEASE CHECK ALL THAT APPLY** 2. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED **PLEASE CHECK ALL THAT APPLY** 4. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)* **PLEASE ATTACH)					
Quadrangle: Powhatan Point, WV 7.5 Short Creek - Ohio River Short Creek	•				
Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: **PLEASE CHECK ALL THAT APPLY* 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 4. NOTICE OF PLANNED OPERATION BECEIVED Office of Oil and Gas 5. PUBLIC NOTICE DEC 17 2018 PRECEIVED PROPRIED					lage Road
is has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section from the operator that (i) that provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner, and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED Or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION RECEIVED NOT REQUIRED AND RECEIVED RECEIVED			Generally used farm hame	. Freeland	-
that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED Or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION RECEIVED TRECEIVED RECEIVED	it has provide information re of giving the requirements Virginia Code	ed the owners of the surface describe equired by subsections (b) and (c), see surface owner notice of entry to sur of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall te	eall contain the following information: ed in subdivisions (1), (2) and (4), section sixteen of this article; (ii) that the every pursuant to subsection (a), section this article were waived in writing lander proof of and certify to the secretary	(14) A certificat ubsection (b), se requirement was on ten of this art	ion from the operator that (i) ection ten of this article, the side deemed satisfied as a result icle six-a; or (iii) the notice where and Pursuant to West
SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED	that the Ope	rator has properly served the required	erator has attached proof to this Notice parties with the following:	e Certification	
■ 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) ■ 4. NOTICE OF PLANNED OPERATION ■ 5. PUBLIC NOTICE DEC 17 2018 ■ 6. NOTICE OF APPLICATION	☐ 1. NOT	TICE OF SEISMIC ACTIVITY or			1
NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION RECEIVED Office of Oil and Gas DEC 17 2018 RECEIVED RECEIVED RECEIVED RECEIVED	☐ 2. NOT	TICE OF ENTRY FOR PLAT SURVI	EY or \square NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED
(PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION RECEIVED Office of Oil and Gas DEC 17 2018 RECEIVED RECEIVED	■ 3. NOT		NOTICE OF ENTRY FOR PLAT SU		
5. PUBLIC NOTICE DEC 17 2018 RECEIVED AND Department of DEC 18 PROCEIVED				ACE OWNER	
NOTICE OF APPLICATION NAV Department of DECT 2010	■ 4. NOT	TICE OF PLANNED OPERATION	RECEIVED Office of Oil and	Gas	RECEIVED
6. NOTICE OF APPLICATION WV Department of Environmental Protection RECEIVED	■ 5. PUB	ELIC NOTICE	DEC 17 20	18	1 RECEIVED
	■ 6. NOT	TICE OF APPLICATION	WV Departmer Environmental Pro	t of tection	RECEIVED .

Required Attachments:

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

Certification of Notice is hereby given:

4705102151

	Jenny Butchko , h	ave read and understand	the notice requirements within West Virginia Code § 22-
signature confirming this Notice (equired under West Virginia equired parties through personal ser mation. I certify under penalty of la Certification and all attachments, a	Code § 22-6A, I have s vice, by registered mail w that I have personally and that based on my i	or by any method of delivery that requires a receipt or examined and am familiar with the information submitted nquiry of those individuals immediately responsible for d complete. I am aware that there are significant penalties onment.
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
My comm Coi	NOTARY SEAL. vealth of Pennsylvania - Notary Seal ura Savage, Notary Public Allegheny County ission expires September 17, 2022 mmission number 1285773 Pennsylvania Association of Notaries	Country of Subscribed and swo	A legheny Allegheny orn before me this 24 day of September 2018. Notary Public spires September 17, 2022

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

DEC 1 7 2018

4705102151

API NO. 47-OPERATOR WELL NO. MOSA 108/2019 Well Pad Name: Freeland

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

Notice Time Requirement: notice shall be provided no later	than the filing date of permit application.
Date of Notice Double Permit Application Filed: J	12/14/18
- -	APPROVAL FOR THE OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A	-10(b)
	THOD OF DELIVERY THAT REQUIRES A CEIPT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be loil and gas leasehold being developed by the proposed well work described in the erosion and sediment control plan submitted pur operator 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; (4) have a water well, spring or water supply source located within opprovide 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 appliance of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is a	and the well plat to each of the following persons: (1) The owners of record of located; (2) The owners of record of the surface tract or tracts overlying the content of the surface tract is to be used for roads or other land disturbance as resuant to subsection (c), section seven of this article; (3) The coal owner, all 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 instruction, enlargement, alteration, repair, removal or abandonment of any (5) Any surface owner or water purveyor who is known to the applicant to one thousand five hundred feet of the center of the well pad which is used to land (6) The operator of any natural gas storage field within which the hree tenants in common or other co-owners of interests described in licant may serve the documents required upon the person described in the on eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. to provide the Well Site Safety Plan ("WSSP") to the surface owner and any ng as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Noti	• •
SURFACE OWNER(s) Name: Joseph L. Freeland and Debra J. Freeland	☐ COAL OWNER OR LESSEE Name: Cónsol Mining Company, LLC
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:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary Office of Oil and Gas
	DEO 4 m aan

DEC 1 7 2018

WW-6A (8-13)

RECEIVED Office of Oil and Gas

DEC 1 7 2018

API NO. 47-OPERATOR WELL NO. 037 Well Pad Name: Freeland

Notice is hereby given: WV Department of 470510215 1

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/oiland-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

WW-6A (8-13)

4705102151

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

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:

RECEIVED

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 17 2018

WV Department of Environmental Protection

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

WW-6A (8-13)

4705102151

API NO. 47-____OPERATOR WELL NO. MOGH 03/08/2019
Well Pad Name: Freeland

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED Office of Oil and Gas

DEC 1 7 2018

WW-6A (8-13)

4705102151 API NO. 47-___- 03/08/2019 OPERATOR WELL NO. Well Pad Name: Freeland

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC

Telephone: 412-865-1533

Email: JZYK@chevron.com

Address: 700 Cherrington Parkway

Coraopolis, PA 15108

Facsimile: 412-865-2403

Oil and Gas Privacy Notice:

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

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

County of Alleghany

Subscribed and sworn before me this ZHEN day of September

Sama Savage

Notary Public

My Commission Expires

September

2622

RECEIVED Office of Oil and Gas

DEC 1 7 2018

Attachment to WW-6A

	API No. 47
	OPERATOR WELL NO. M06H
	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
	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:

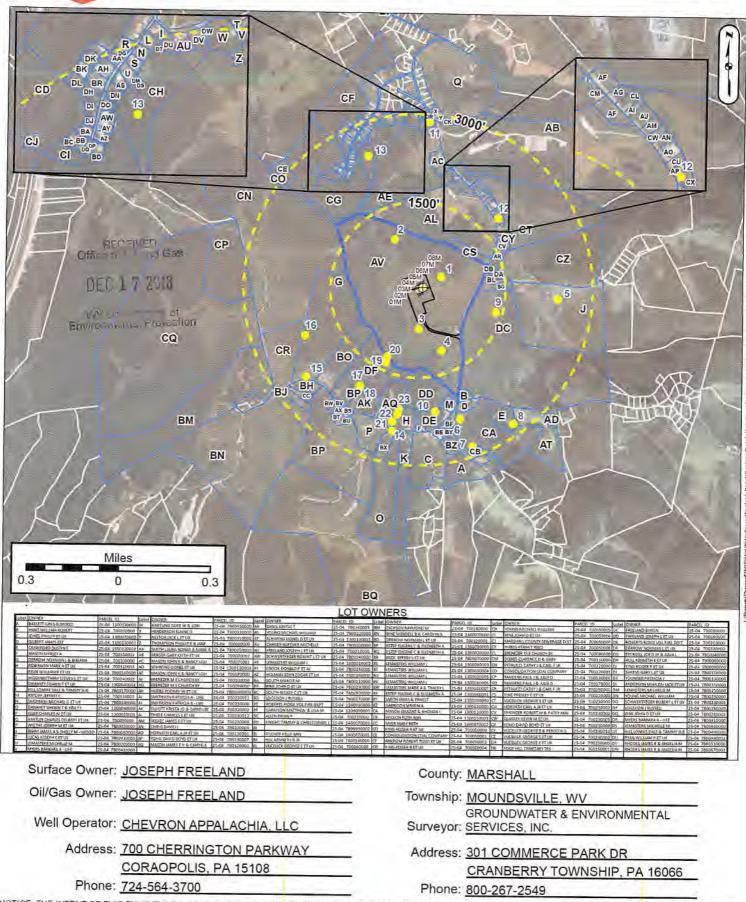
RECEIVED
Office of Oil and Gas

DEC 1 7 2018



WATER SUPPLY EXHIBIT 470510 2340 FREELAND PAD A





47051023408/2019

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 Not	e Requirement: Notice shall be provide tice: Date	Permit Application Filed: /2[14/18
Delivery me	ethod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIV		REQUESTED	
drilling a ho of this subse subsection n and if availa	rizontal well: <i>Provided</i> , That notice givection as of the date the notice was provided.	owner notice of its intent to enter upon yen pursuant to subsection (a), section ded to the surface owner: <i>Provided, ha</i> owner. The notice, if required, shall incil il address of the operator and the opera-	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements owever, That the notice requirements of this clude the name, address, telephone number tor's authorized representative.
Name: Joseph	L. Freeland and Debra J. Freeland	Name: Joseph L. Freeland	
	Clearview Terrace	Address: 813 Clearview Te	
New Martinsville	e, WV 26155	New Martinsville, WV 26155	
Pursuant to V the surface o	wher stand for the purpose of drilling a	norizontal well on the tract of land as f	
Pursuant to V	West Virginia Code § 22-6A-16(b), notice	norizontal well on the tract of land as f Easting:	follows: 520436.24
Pursuant to V the surface o State: County: District:	West Virginia Code § 22-6A-16(b), notional water's land for the purpose of drilling a West Virginia Marshall Clay	UTM NAD 83 Easting: Northing:	520436.24 4413095.39
Pursuant to V the surface o State: County: District: Quadrangle:	West Virginia Code § 22-6A-16(b), notion wher's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5'	norizontal well on the tract of land as f Easting:	follows: 520436.24
Pursuant to V the surface o State: County: District:	West Virginia Code § 22-6A-16(b), notional water's land for the purpose of drilling a West Virginia Marshall Clay	UTM NAD 83 Easting: Northing: Public Road Access:	Ollows: 520436,24 4413095.39 CR 21 Robert Ridge Road
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hor	West Virginia Code § 22-6A-16(b), notion wher's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from the contained from	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Deportment.	Ollows: 520436,24 4413095.39 CR 21 Robert Ridge Road
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hor located at 600	West Virginia Code § 22-6A-16(b), notion wher's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from the contained from	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Deportment.	ollows: 520436.24 4413095.39 CR 21 Robert Ridge Road Freeland ress, telephone number, and if available, and representative. Additional information
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hor located at 601 Notice is he	West Virginia Code § 22-6A-16(b), notioner's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from the street of t	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.d	520436.24 4413095.39 CR 21 Robert Ridge Road Freeland Aress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the environmental Prote
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600 Notice is he Well Operato	West Virginia Code § 22-6A-16(b), notion wher's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from the street of the street o	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Deportment.	520436.24 4413095.39 CR 21 Robert Ridge Road Freeland Aress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the environmental Prote
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hor located at 600 Notice is he Well Operato Address: Coraopolis, PA	West Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from the street of the street o	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorized Representative. Authorized Representative.	520436.24 4413095.39 CR 21 Robert Ridge Road Freeland Aress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the environmental Prote
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to S facsimile nur related to hor located at 600 Notice is he Well Operato Address: Coraopolis, PA Telephone:	West Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from the street of the street o	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorized Representative. Authorized Representative.	520436.24 4413095.39 CR 21 Robert Ridge Road Freeland Aress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the environmental Prote
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hor located at 601 Notice is he Well Operato Address:	West Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from the street of the street o	UTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.d Authorized Representative: Address:	520436.24 4413095.39 CR 21 Robert Ridge Road Freeland Aress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the environmental Prote

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

WW-6A5 (1/12)

Operator Well No. M06H

47051003/08/2019 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Noti	ce: 11 15 18 Date Perr		1.1.	
Delivery me	thod pursuant to West Virginia Co	de § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
the planned required to be drilling of a damages to the damages to	operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed the surface affected by oil and gas one	his subsection shall inc ten of this article to a su surface use and compe erations to the extent the iven to the surface owne VNER(s) t the time of notice):	nd will be used f lude: (1) A copy rface owner who nsation agreement damages are com-	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for appensable under article six-b of this chapter. Ested in the records of the sheriff at the time
	Treciting and Debia 3. Freeland	Name	Joseph L. Freeland	
	Clearview Terrace	A 44.		
Address: 813 (New Martinsville, Notice is her	eby given:	New M	SS: 813 Clearview Tea artinsville, WV 26155	
Notice is her Pursuant to Woperation on State:	eby given:	New M	the undersigned tal well on the tra	well operator has developed a planned
Notice is her Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Marshall Clay	New Motice is hereby given that pose of drilling a horizon	the undersigned tal well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 520436.24
New Martinsville, Notice is her Pursuant to W operation on State: County: District: Quadrangle:	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Marshall	otice is hereby given that cose of drilling a horizon UTM NAD Public Road	the undersigned tal well on the transitions: 83 Easting: Northing:	well operator has developed a planned act of land as follows: 520436.24 4413095.39
Address: 813 (New Martinsville, Notice is her Pursuant to W	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Marshall Clay	otice is hereby given that cose of drilling a horizon UTM NAD Public Road	the undersigned tal well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 520436.24 4413095.39 CR 21 Robert Ridge Road
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Woo be provide horizontal we surface affect information refered.	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: Vest Virginia Code § 22-6A-16(c), thid by W. Va. Code § 22-6A-10(b) to the distribution of the elated to horizontal drilling may be located at 601 57th Street, SE.	New Motice is hereby given that pose of drilling a horizon UTM NAD Public Road Generally use the description of the position the undersigned tal well on the transition of th	well operator has developed a planned act of land as follows: 520436.24 4413095.39 CR 21 Robert Ridge Road	
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Woo be provide horizontal we surface affect information reheadquarters, gas/pages/defa	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: Vest Virginia Code § 22-6A-16(c), thid by W. Va. Code § 22-6A-10(b) to all; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, Coult.aspx.	New Motice is hereby given that pose of drilling a horizon UTM NAD Public Road Generally use the description of the position the undersigned tal well on the tra Easting: Northing: I Access: sed farm name: I)A copy of this se land will be trent containing are compensable undersigned tal well on the transport of the t	well operator has developed a planned act of land as follows: 520436.24 4413095.39 CR 21 Robert Ridge Road Freeland code section; (2) The information required ased in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-developmental-action-decomposition-www.dep.wv.gov/oil-and-decomposition-dec</td></tr><tr><td>Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Woperation on State: County: District: Quadrangle: Watershed:</td><td>eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Vest Virginia Code § 22-6A-16(c), this dip W. Va. Code § 22-6A-10(b) to all; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, Coult.aspx.</td><td>New Motice is hereby given that pose of drilling a horizon UTM NAD Public Road Generally under the description of the description of the secretary of the description of the secretary of the</td><td>the undersigned tal well on the transition of th</td><td>well operator has developed a planned act of land as follows: 520436.24 4413095.39 CR 21 Robert Ridge Road Freeland code section; (2) The information required ased in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href=" https:="" o<="" oil-and-www.dep.wv.gov="" oil-and-www.gov="" td="" www.dep.wv.gov="">	

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

WW-6AW (1-12)

API NO. 47OPERATOR WELL NO. M06H
Well Pad Name: Freeland 03/08/2019

4705102151

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

State: County: District: Quadrangle:	the well plat, all for proposed well work on the to West Virginia	LITM NAD 83 Easting:	520436.24
	Maranan	Northing:	4413095.39
		Public Road Access:	CR 21 Robert Ridge Road
Watershed:	Short Creek - Ohio River	Generally used farm name:	Freeland
*Please check the box that applies		FOR EXECUT	TON BY A NATURAL PERSON
	ATT THE PARTY OF T		
			TON BY A NATURAL PERSON
□ SURFAC	CE OWNER	Signature:	July & Fulus
SURFAC	CE OWNER (Road and/or Other Disturbance)	Signature: Print Name: Jo	seph A FREIR.
SURFAC	CE OWNER	Signature: Print Name: Jo	SEPA FREETA.
SURFACE SURFACE SURFACE	CE OWNER (Road and/or Other Disturbance)	Signature: Print Name: Jo	seph A FREIR.
SURFACE SURFACE SURFACE COAL O	CE OWNER (Road and/or Other Disturbance CE OWNER (Impoundments/Pits) WNER OR LESSEE	Signature: Print Name: Jo Date:/ FOR EXECUT Company: By:	ION BY A CORPORATION, ETC.
SURFACE SURFACE SURFACE COAL OF	CE OWNER (Road and/or Other Disturbance CE OWNER (Impoundments/Pits) WNER OR LESSEE	Signature: Print Name: Jo Date:	TON BY A CORPORATION, ETC. RECEIVED Office of Oil and Gas
SURFACE SURFACE SURFACE COAL OF COAL OF WATER	CE OWNER (Road and/or Other Disturbance CE OWNER (Impoundments/Pits) WNER OR LESSEE PERATOR	Signature: Print Name: Date: // FOR EXECUT Company: By: Its: Signature:	TON BY A CORPORATION, ETC. RECEIVED Office of Oil and Gas

Oil and Gas Privacy Notice:

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

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

required, and State:	the well plat, all for proposed well work on West Virginia	the tract of land as fo UTM NAD 83	llows: Easting:	520436.243	RECEI Office of Oil	VED and Ga
County:	Marshall		Northing: d Access:	4413095.390	DEC 10	0010
District:		Public Road Ac		Robers Ridge Road	DEC 17	2018
Quadrangle: Watershed:	Powhatan Point 7,5' Upper Ohio-Beaver	_ Generally used	farm name:	Freeland	WV Depart	
I further state issued on tho	that I have no objection to the planned wor se materials.	k described in these m	naterials, and	I have no objection	to a permit being	g
*Please check	k the box that applies	FO	R EXECUT	ION BY A NATUR	RAL PERSON	
□ SURFA	CE OWNER	Sig	nature:			
☐ SURFAC	CE OWNER (Road and/or Other Disturt	nancei	nt Name: te:			
□ SURFAC	CE OWNER (Impoundments/Pits)			ION BY A CORPO	PATION ETC	-
□ COAL C	OWNER OR LESSEE	Cor	mpany: Mu	was American		
■ COAL C	PERATOR	Its:	(out oil	Tgas relation	us manager	-
□ WATER	RPURVEYOR		nature: M	weepfull	SES .	

Oil and Gas Privacy Notice:

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



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 M06H

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

Dang K. Clayton

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

CIVIL & ENVIRONNENTAL CONSULTANTS, INC. 4000 TRIANGLE LANE, SUITE 200 EXPORT, PA 15832 PHONE: 724–327–5200

CIVIL/SITE ENGINEER CONTACT: JOSH MAGARGEE EMAIL ADDRESS: jmagarges@cecinc.com GEOTECHNICAL ENGINEER CONTACT: AARON LAVAGE EMAIL ADDRESS: glavage@cecling.com

SITE COORDINATES AND WATERSKED

START OF WELL PAD ACCESS ROAD LATITUDE: 39.865597 N. LONGITUDE: 80.7586707 W

APPROXIMATE CENTER OF WELL PAD LATITUDE: 39.867579" N, LONGITUDE: 80.761274" W

"BASED ON NAD B3, WEST VIRGINIA NORTH ZON

WATERSHED NAME: UPPER ONIO SOUTH RECEIVING STREAM: UNNAMED TRIBUTARIES TO FISH RUN

West Virginia North						
Wellhead No.	Northing	Easting	Letitude (North)	Langitude (West)		
MIO	500597.5170	1614480 8066	39 2675.665	80 7612906		
O25A	500603.5632	1614494.5341	39.8675837	80.7612420		
OSM	500609.6094	1614508.2615	39,8576008	80.7612934		
OEM	500615.6555	1614521 9RSO	39 8676179	80 7611448		
OSMI	500621.7017	1614535.7165	39.8676351	80.7610962		
0644	500621.7479	1614549,4440	39.0576522	NO.7610476		
07M	500633.7941	1614563.1715	39.8676693	10.7609990		
CISAA	500639.8403	1614576.8989	39.2676864	80.7609504		
D1U	500631,0181	1614482 4417	39.8676586	S0 7612364		
ΩĮŲ	\$00637.0643	1514495.1692	39.8676757	80.7612378		
DSU	500643.1105	15145/9.8966	59.8676928	80,7611892		
DHU	500649.1567	1614523.6741	39.8577100	80,7611406		
050	500655,2029	1614537 3516	39 8677271	80 7610970		
OSU	500661.2491	1514553.0791	39.8677442	80.7610434		
D7U	\$00667.2952	1614567,8066	39.8677613	£0.760994R		
ORU .	500670,5654	1614497.8043	39.5677677	\$0.7612337		
09U	500676.6116	16145115318	39.9677948	20 7611951		
180	500682,6578	1614525 2592	39.9678020	20 7611365		
110	500688.7040	1514538 9867	39.2678191	80 7610879		

Control of the second of the s
SS FREELINGS WELLIAMS WELLIAMS
FREELANDA
STREAM - FISH RUN (APPROX. 750-FT)
SITE LOCATION MAP
SCHE DI STOT

SITE LIMITS OF DISTURBANCE/IMPAC	IS TO NOW/FORMER
LANDOWNER - KOSEPHIL FRE	ELAND (AC)
TOTAL AREA	22.4
WDODED AREA DISTURGED	1.7
WELL PAD	12.7
ACCESS ROAD	3.1
STOCKPILE AREA	6.6

15 00	CS 0000	COVER SMEET	x	11/14/2018
15 101 FROSON AND STRUMENT CONTROL PLANT LOF 2) X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 2) X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 20 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 4 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 5 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 7 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 7 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 7 X 1.11/4/2018 TO 15 102 FROSON AND STRUMENT CONTROL PLANT LOF 7 X 1.11/4/2018 TO 15 102 TO 1		EXISTING TOPOGRAPHIC PLAN	x	11/14/2018
CS 102	£2 700	OVERALL EROSION AND SEDIMENT CONTROL PLAN	x	11/14/2018
B 100	12 101	EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)	x	11/14/2018
B JUN	C2 105	EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)	x	11/14/2018
B 100		EROSION AND SEDIMENT CONTROL DETAILS (1 OF 6)	x	11/14/2018
St. 100	ES 104	ERUSION AND SEDIMENT CONTROL DETAILS (2 OF 6)	x	11/14/2018
Style= Section and Separatin Confedents Sof of	£2 1725	FROSION AND SEDIMENT CONTROL DETAILS (3 OF 6)	x	11/14/2018
ES 199	ES 106	EROSION AND SEDIMENT CONTROL DETAILS (4 OF 6)	x	11/14/2018
ST 120	ES 107	EROSION AND SEDIMENT CONTROL DETAILS (5 OF 6)	x	11/14/2018
IS 110	801 23	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 6)	x	11/14/2018
STILL ACCESS AGNO CIDOSS-SECTIONS X 11/14/2018	£2 109	WELL PAD PLAN AND CROSS-SECTIONS	x	11/14/2018
ES 112 STOCPHILE CROSS-SECTIONS X 11/14/2018 GESD GEOTTICHNICAL MISSISPACE SIAMANEY X 11/14/2018 GESD GEOTTICHNICAL MISSISPACE SIAMANEY X 11/14/2018 GESD GEOTTICHNICAL MISSISPACE CROSS-SECTIONS X 11/14/2018 GESD GESTECHNICAL DETAILS X 11/14/2018 GESD GESTECHNICAL DETAILS X 11/14/2018 GESD GESD GESTECHNICAL DETAILS X 11/14/2018 GESD GESD GESTECHNICAL DETAILS X 11/14/2018 GESD GESD GESD GESD X 11/14/2018 GESD GESD GESCHONICAL DETAILS X 11/14/2018 GESD GESD GESCHONICAL DETAILS X 11/14/2018 GESD GESD GESCHONICAL DETAILS X 11/14/2018 GESD	E2 170	ACCESS ROAD PLAN AND PROFILE	X	11/14/2018
GESD GUITTENHICA SUBSIANALES SURMANEY X 11/14/2018 11/14/2018 15/14/20	12171	ACCESS ROAD CROSS-SECTIONS	×	11/14/2018
GE 500 GEOTICHICAL MASURFACE CROSS-SECTIONS X 11/14/2018 GE 502 GEOTICHICAL MASURFACE CROSS-SECTIONS X 11/14/2018 GE 503 GEOTICHICAL DETAILS X 11/14/2018 GE 504 GE 504 GE 504 GE 505 GE 504 AND ELYATION VEW 10: 07 7 X 11/14/2018 GE 505 GE 505 AND ELYATION VEW 10: 07 7 X 11/14/2018 GE 506 GE 505 AND ELYATION VEW 10: 07 7 X 11/14/2018 GE 506 GE 505 GE 5	ES 112	STOCKPILE CROSS-SECTIONS	x	11/14/20LB
GF 900 GEOTEONICAL MOTITS AND TRALES X 11/14/2018 GF 901 GEOTEONICAL MOTITS AND TRALES X 11/14/2018 GF 904 RSS PLAN AND EL EVATION FORW (COF 7) X 11/14/2018 GF 907 RSS CROSS SECTION (COF 9) X 11/14/2018 GF 907 RSS CROSS SECTION (COF 9) X 11/14/2018 GF 907 RSS CROSS SECTION (COF 9) X 11/14/2018 GF 907 RSS CROSS SECTION (COF 9) X 11/14/2018 GF 908 RSS CROSS SECTION (COF 9) X 11/14/2018 GF 909 RSS SECTION	GE 200	GEOTECKNICAL SUBSURFACE SUMMARY	×	11/14/2018
CS 500 GOTTECHNICAL DETAILS X 11/14/2018 CS 504 RSS PLAN AND IL PATRON **EW* GS 7) X 11/14/2018 GS 505 RSS PLAN AND IL PATRON **EW* GS 7) X 11/14/2018 GS 505 RSS PLAN AND IL PATRON **EW* CS 7) X 11/14/2018 GS 507 RSS CROSS-SECTION GO 9 S X 11/14/2018 GS 507 RSS CROSS-SECTION GO 9 S X 11/14/2018 GS 507 RSS CROSS-SECTION GO 9 S X 11/14/2018 GS 507 RSS CROSS-SECTION GO 9 S X 11/14/2018 GS 507 RSS CROSS-SECTION GO 9 S X 11/14/2018 GS 507 RSS RSS CROSS-SECTION GO 9 S X 11/14/2018 GS 507 RSS RSS CROSS-SECTION GO 9 S X 11/14/2018 CS 507 RSS RSS CROSS-SECTION GO 9 S X 11/14/2018 X 1	GE 501	GEOTECHNICAL SUBSURFACE CROSS-SECTIONS	×	11/14/2019
GS 504 RSS PAM AND ELVATION VERW (1GF 7) X 12/14/2008 GE 505 RSS PAM AND ELVATION VIEW (2GF 7) X 12/14/2008 GE 505 RSS PAM AND ELVATION VIEW (2GF 7) X 12/14/2008 GE 506 RSS PAM AND ELVATION (1GF 8) X 12/14/2008 GE 507 RSS CROSS-SECTION (1GF 8) X 12/14/2008 GE 508 RSS CROSS-SECTION (1GF 8) X 12/14/2008 GE 509 RSS SPECTACTION (3GF 8) X 12/14/2008 GE 510 RSS SPECTACTION (3GF 8) X 12/14/2008 GE 510 RSS SPECTACTION (3GF 8) X 12/14/2008 GE 510 PAM AND ELVATION (3GF 8) X 12	GE 502	GEOTECHNICAL MOTES AND TABLES	X	11/14/2019
GE 505 RSS RAN AND ELYMPHON (CP 7) X 13/14/2018 GE 505 RSS CASS-SECTION (LO 9 8) X 13/14/2018 GE 507 SSS CROSS-SECTION (LO 9 8) X 13/14/2018 GE 508 RSS CROSS-SECTION (LO 9 8) X 13/14/2018 GE 509 RSS CROSS-SECTION (LO 9 8) X 13/14/2018 GE 509 RSS SPECION (LO 9 8) X 13/14/2018 GE 500 RSS SPECION (LO 9 8) X 13/14/2018 GE 500 STEP ALM WITH A FEBAL FOR COD STEP ALM WIT	CE 203	GEOTECHNICAL DETAILS	x	11/14/2018
GE 505 SECROPAL DE 51 X 11/14/2018 GE 507 RSS CROSS-SECTION 12 OF 31 X 11/14/2018 GE 507 RSS CROSS-SECTION 12 OF 31 X 11/14/2018 GE 509 RSS CROSS-SECTION 13 OF 31 X 11/14/2018 GE 5101 RSS CROSS-SECTION 13 OF 31 X 11/14/2018 GE 5101 RSS CROSS-SECTION 13 OF 31 X 11/14/2018 GE 5101 RSS CROSS-SECTION 13 X 11/14/2018 GE 500 PST FUND WITH AIRBAIL GE 500 PST FUND WITH	GE 504	RSS PLAN AND ELEVATION VIEW (1 OF 2)	×	11/14/2018
GE 507 SS.CROSS-SECTION (2 OF 3) X 13/14/7203 CE 526 SS.CROSS-SECTION (3 OF 3) X 13/14/7203 CE 526 SS.CROSS-SECTION (3 OF 3) X 13/14/7203 CE 520 CE 520 SS.S.PCOPCATIONS AND QUANTITIES X 11/14/7203 CE 520 STEP ALM WITH A FEBAL X 11/14/7203 CE 520 STEP ALM WITH A FEBAL X 11/14/7203 CE 520 STEP ALM WITH A FEBAL X 11/14/7203 CE 520 STEP ALM WITH A FEBAL X 11/14/7203 CE 520 STEP ALM WITH A FEBAL X 11/14/7203 CE 520 STEP ALM WITH A FEBAL X 11/14/7203 CE 520 STEP ALM WITH A FEBAL X 11/14/7203 CE 520 STEP ALM X 11/14/7203 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7203 CE 520 STEP ALM X 11/14/7	GE 505	RSS PLAN AND ELEVATION VIEW (2 OF 2)	×	11/14/2018
GR 388 RS SCROPS-SECTION (3 OF 3) X 11/4/2018 (6 E 500 RS SPCEO/CATRONS AND QUANTITIES X 11/4/2018 (6 E 510 RS SPETALS X 11/4/2018 (7 E 500 STEP ALM WITH AREPAL X 11/4/2018 (7 E 600 STEP ALM WITH AREPAL X 11/4/2018 (7 E 600 POST-CONSTRUCTION RECLAMATION PIAN X 11/4/2018	GE 506	RSS CROSS-SECTION (2 OF 3)	×	11/14/2019
GE 309 RSS SPECIFICATIONS AND QUANTITIES X 11/14/2018 GE 510 RSS DETAILS X 11/14/2018 FC 620 SITE PLAN WITH AERIAL X 11/14/2018 PC 620 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018 PC 627 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018 PC 627 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018 PC 627 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018 PC 627 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018 PC 627 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018 PC 627 PC	GE 507	RSS CROSS-SECTION (2 OF 3)	×	11/14/2018
GESID RSS DETAILS X 1½/14/2018 CC00 SITE PLAN WITH ACENAL X 1½/14/2018 PC C07 POST-CONSTRUCTION RECHARACTION PLAN X 1½/14/2018 X 1½	GE 50B	RSS CROSS-SECTION (3 OF 3)	×	11/14/2016
PC 620 SITE PLAN WITH AFRIAL X 11/14/2018 PC 601 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018	GE 509	RSS SPECIFICATIONS AND QUANTITIES	×	11/14/2018
PC 601 POST-CONSTRUCTION RECLAMATION PLAN X 11/14/2018	GE SID	RSS DETAILS	×	11/14/2018
		SITE PLAN WITH AERIAL	×	11/14/2018
PC 602 POST-CONSTRUCTION RECLAMATION DETAILS X 11/14/2018				
	PC 602	POST-CONSTRUCTION RECLAMATION DETAILS	<u> </u>	11/14/2018

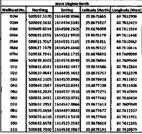
SHEET TITUE

DWG NO.

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

WETLAND 1A (PEM) - 7 FT FROM LOD WETLAND 1B (PEM) - 5 LF FROM LOD WETLAND 2 (PSS) - 2 LF FROM LOD WETLAND 4 (PEM/PSS) - 10 LF FROM LOD

- PROPERTY ROUNDARIES WEST PROVINCE BY CHINAGO
- RECOGNOTION AFTER MACE FROM GOOD F FARTH POR DATES 2010



EXISTING WILET







WEST VIRGINIA 1-800-245-4848

MISS UTILITY OF



	Г								
ORO OR									
ZEC									
REVISION RECORD									
æ	ĺ								
				١,					
ž	5	8	8	3	8	8	t		
Dete									
			I						

INCLUDED LASTREVISED

ON APPALACHIA, FREELAND WELL F CLAY DISTRICT MARSPALL COUNTY, WEST VIRGINIA PREPARED FOR: CHEVEN APPALA 700 CHERRINGTON PARRAWAY

COVER SHEET

Date Issued 11/14/2018

CS 000

