

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 M05H Re:

47-051-02148-00-00

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 M05H

Farm Name:

JOSEPH L. FREELAND ET UX

U.S. WELL NUMBER:

47-051-02148-00-00

Date Issued: 3/1/2019

Horizontal 6A New Drill

Promoting a healthy environment.

API Number:	
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PERMIT CONDITIONS 47 0 5 1 002/08/4089

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply 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 N	Jun	ibe	r: _		_					
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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, cessation of drilling, 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.
- 2. Chevron Appalachia, LLC is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 611, Moon Township, Pennsylvania.
- 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:

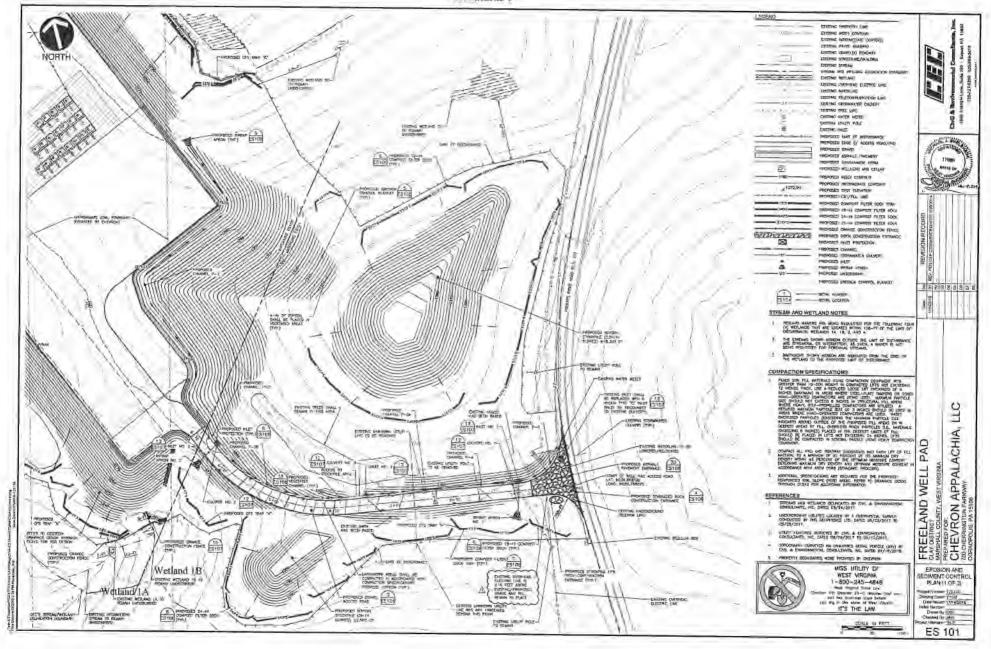
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment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

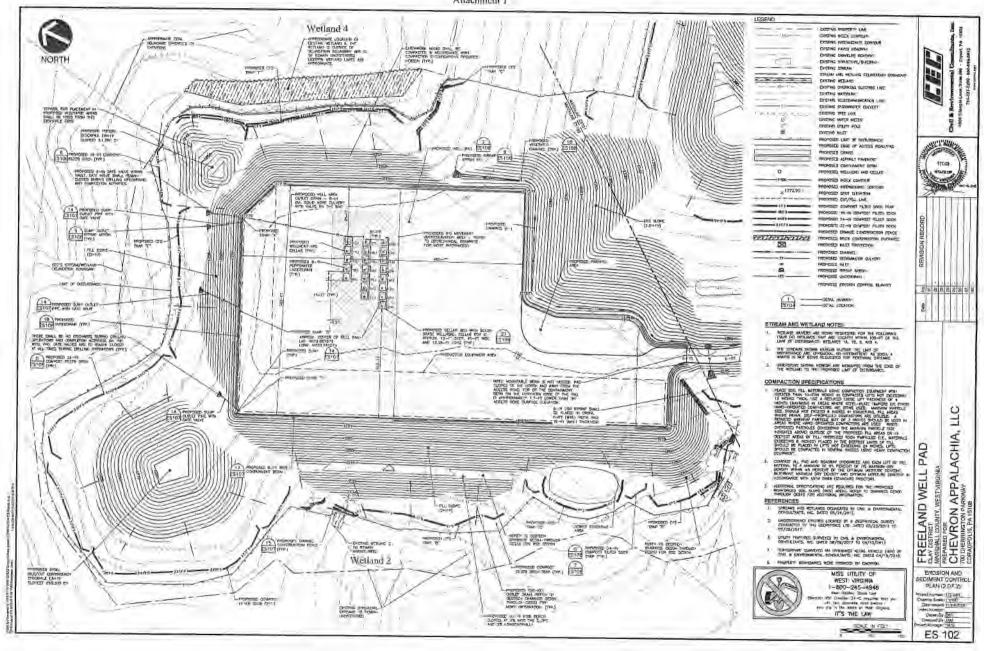
Thus ORDERED, the 24th day of February, 2019.

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





APINO 47-05-102148 OPERATOR WELL NO 3908/2019
Well Pad Name: Freeland

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

1) Well Opera	tor: Chevr	on Appalach	nia, LLC	49449935	Marshall	Clay	Powhatan Point,
				Operator ID	County	District	Quadrangle
2) Operator's	Well Numbe	er: M05H		Well P	ad Name: Free	eland	
3) Farm Name	/Surface Ow	vner: Freela	nd	Public R	oad Access: Cl	R 21 Rober	t Ridge Road
4) Elevation, c	urrent groun	nd: 1274'	E	levation, propose	d post-construc	tion: 1275	
5) Well Type	(a) Gas Other	X	Oil _	Un	derground Stor	age	
	(b)If Gas	Shallow	X	Deep			2
6) Existing Page	d: Yes or No	Horizontal No	X			Just 1	5/18
7) Proposed Ta		ion(s), Depth	(s), Antic	ipated Thickness	and Expected		
8) Proposed To	otal Vertical	Depth: 6,39	95				
9) Formation a	t Total Verti	cal Depth:	Marcellus	3			
10) Proposed T	otal Measur	red Depth:	21,496				
11) Proposed H	Iorizontal Le	eg Length:	13,497				
12) Approxima	te Fresh Wa	ter Strata De	pths:	572' below GL			
13) Method to	Determine F	resh Water D	epths: E	Based on deepe	st water well w	ithin 2 mile	radius
14) Approxima	te Saltwater	Depths: 17	09', 1789	, 2120' below GL			
15) Approxima	te Coal Sear	n Depths: P	ittsburgh	Coal top 794' be	elow GL		
16) Approxima	te Depth to l	Possible Voic	l (coal mi	ne, karst, other):	No Void - In s	olid coal pi	RECEIVED Mar Ou and Gas
17) Does Propo directly overlyi	osed well loc ng or adjace	ation contain nt to an activ	coal sear e mine?	yes	N	x . L	DEC 1 7 2018
(a) If Yes, pro	vide Mine I	nfo: Name:					Department of mental Protection
		Depth:	-				
		Seam:					
		Owner	;				

WW-6B (04/15)

API NO.447- 0 5 - 1 0 2 1 4 8

OPERATOR WELL NO.3978/2019

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	X52	78.67	60	60	CTS
Fresh Water	13.375	New	J-55	54.5	622	622	CTS
Coal							
Intermediate	9.625	New	L-80	40	2,170	2,170	CTS
Production	5.5	New	P110	20	21,496	21,496	2,670' (500' below 9.625" shoe)
Tubing							
Liners							

Diz/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			- 33				
Liners							

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API NO. 47-7 0 5 1 0 2 1 4 8 OPERATOR WELL NO.3/08/2019

Well Pad Name: Freeland

Di2/5/18

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

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

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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.

Environmental Protection

*Note: Attach additional sheets as needed.

Cement Additives

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

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

The Production cement will have a lead and tail cement.

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

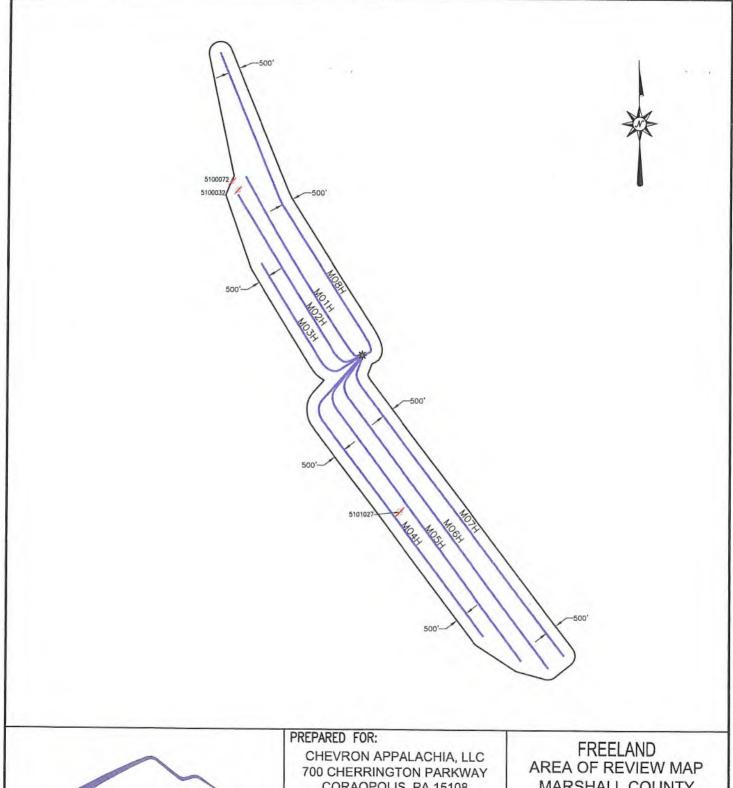
The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

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DEC 1 7 2018

WV Department of Environmental Protection

Cherron				F	reeland	M05H		
Clay Twp, Marshall Co	o, WV						Ground Level Elev. (ft above SL):	1,274
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION -	MD (FT)	TVD (FT)	WELLHEAD DESIGN	HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger	2 Bowspring per Jt	20" Conductor	65	65	INC AZM	30	Conductor 20" API 5L Minimum 40 ft from GL or at lea	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per it over coupling to surface						Surface Casing 13-3/8" 54.5% J-55 BTC 0.360" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (pa) 2,730 Collagre (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 ft past deepest k	nown fresh water
	Bow Spring: (1) en ahoe track will otep collar & (1) per 3 its over coupling						(ntermediate Casing 9-5/8* 40# L-80 BTC 0.395* Wall Coupling OD (in) 10.625 ID (in) 8-835 Drift ID (in) 8-679 Burst (psi) 5.750 Collapse (psi) 3.080 Vield (Jt Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
		9-5/8" Casing	2,170	2,170		12.375 - 12.25		
	Bow Spring: (1) per every other it over coupling SpiraGlider or Centek: (1) per it of cag to KCP						Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Dnl1 ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry Cement to 500' below 9-5/8" shoe
							Office of DEU	CEIVED Oil and Gas 17 ZUI8 partment of Production Tall Stury Proceedings of the Proceedin
	Float Equip.					8.75 -		
	Float Equip.	5-1/2" Casing	21,496	J	M Ni	8.5		





10125 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486

CORAOPOLIS, PA 15108

LEGEND

PLUGGED WELL

ABANDON WELL

MARSHALL COUNTY CLAY DISTRICT WEST VIRGINIAND Gas

TOPO QUAD: POWHATAN POINT, WV SCALE: 1" = 4000' 1 1 7 2010

DATE: SEPTEMBER 7, 2018

W/V Department of Environmental Protection

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Pro	oducing Zone	s NOT Perfo	orated =
47-051-00072	Wasmuth-Callahan Gas Co.	Operator Unknown	ABANDONED	39.887867	-80.781834	N/A	N/A	None	(n	Name and the Contract of	0
47-051-00032	R L McDowdell	Operator Unknown	ABANDONED	39.886851	-80.780892	N/A	N/A	None	ଗ		U
47-051-01027	CNX Gas Company	CNX Gas Company LLC	ABANDONED	39.849249	-80.75489	N/A	N/A	None	Ö		23
02148									RECEIVED	Unit 3 7 2013	You Dougramen Enmenal Pel

47 0 5 * 0 2 13/08/2019

API Number 47 -	(A)
Operator's Well	No. MOSH

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

PEUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name Chevron Appalachia, LLC OP Code 4944	9935
Watershed (HUC 10) Short Creek - Ohio River Quadrangle Powhatan Point, W	V 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes_	✓ No
Will a pit be used? Yes No✓	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number Reuse (at API Number at next anticipated well	
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
Will closed loop system be used? If so, describe: Yes, we will be utilizing multiple open/closed top ta	nks
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	Air to KOP & Oil from KOP to TMD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological control	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? Short Creek Landfill/SWF-1034/WV0109517 and Arden	Landfill/#100172
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or ass West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the pathwer it was properly disposed.	ociated waste rejected at any permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATEI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental provisions of the permit are enforceable by law. Violations of any term or condition of the general law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the application form and all attachments thereto and that, based on my inquiry of those individual obtaining the information, I believe that the information is true, accurate, and complete. I am appenalties for submitting false information, including the possibility of fine or imprisonment.	Protection. I understand that the all permit and/or other applicable BECEIVED information submitted on this all submitted by the submitted or this area.
Company Official Signature WWW DULTHARD	
Company Official (Typed Name) Jenny Butchko	Francian State Color
Company Official Title Permitting Team Lead	Froiection
Subscribed and swom before me this 24th day of September, 2018 Motary Pub	olic Principality
My commission expires September 17, 2022	Commonwealth of Pennsylvania - Notary Seal Laura Savage, Notary Public Allegheny County My commission expires September 17, 2022 Commission number 1285773 Membar, Pennsylvania Association of Notarias

Operator's Well No. M05H

Chevron Appalachia, LLC		
Proposed Revegetation Treatment: Acres Disturbed 18.8	Prevegetation pl	H 6.5-7.0
Lime 3 tons/acre Tons/acre or to correct to pH		
Fertilizer type 10-20-20 or as directed by soil test		
Fertilizer amount 300#/acre or as directed by soil test lbs/	acre	
Mulch 3 tons/acre or 5 tons/acre for winter stabilization Tons/acr	re	
Seed I	Mixtures	
Temporary	Perma	nent
Seed Type lbs/acre	Seed Type	lbs/acre
Annual Ryegrass - 50	See Attached	
Winter Wheat - 75		
Cereal Ryegrass - 50		
Iaps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include dime creage, of the land application area.	on (unless engineered plans includ nsions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area in
laps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include dime creage, of the land application area. Inthotocopied section of involved 7.5' topographic sheet. In Approved by: June Warlender	on (unless engineered plans includ nsions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), and area in
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		0.26	4%	Red Top
<u> </u>	Ladino Clover	6.50	10%	Birdsfoot - Trefoil
ᆫ	Birdsfoot - Trefoil	64.98	10%	Ladino Clover
4	Timothy	19% 649.80	19%	Perennial Ryegrass
4	Orchard Grass	3420.00	57%	Tall Fescue
	Hayfield, Pastureland, and Cropland	6000 and		Non Agricutlural Upland
	Seed Type	lbs/acre	3ton/ac lbs/acre	Seed Type
	ר כו ווומוזכוינ			
	Dermanent		ent	Permanent
		•		
			ß	Seed Mixtures

9.60 00 00 DEC 1.7 2018

The Department of Protection



Chevron

Appalachian LLC
WV Well Site Safety Plan

Pad: Freeland Pad A Well # M05H DUS/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

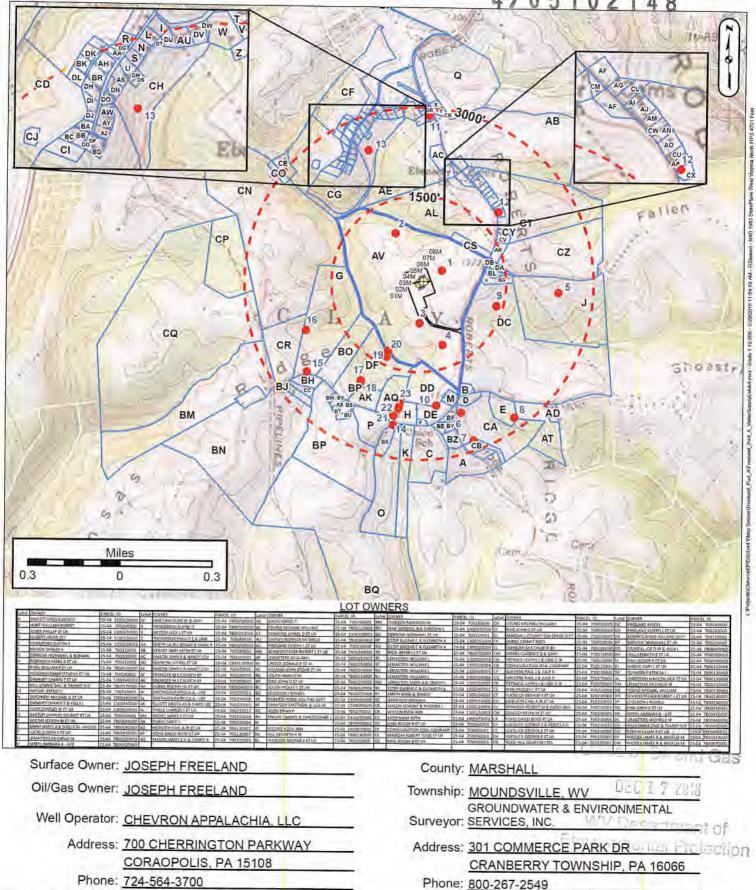
DEC 1 7 2018

WV Department of Environmental Protection



WATER SUPPLY EXHIBIT FREELAND PAD A

03/08/2019



SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

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	KRISTA JO & DAVID LEE ELLIOTT	4-7/32.2
4	WILLIAM L. & LINDA L. LEMASTERS	4-13/1.7
5	*WILLIAM L. LEMASTERS	4-13/1.6
6	WILLIAM L. LEMASTERS	4-13/1.2
7	WILLIAM L. LEMASTERS	4-13/1.4
8	WILLIAM L. LEMASTERS	4-13/1.5
9	WILLIAM L. LEMASTERS	4-13/1.3
10	CHARLES W. ELLER ET UX	4-13/1.1
11	EUGENE C. & ELIZABETH A. ESTEP	4-13/4.1
12	EUGENE C. & ELIZABETH A. ESTEP	4-13/1
13	SHAWN T. & KELLY J. DANAHEY	4-13/4
14	SHAWN T. DANAHEY ET UX	4-13/4.2
15	TERRY LEE CAMPBELL	4-13/5.6
16	TERRY LEE CAMPBELL	4-13/5.10
17	*LAKEN H. DRAKE	4-13/5
18	PNC BANK N/A	4-13/6
19	*JOHN STOCKLASK	4-13/5.11
20	*LAKEN H. DRAKE	4-13/5.7
21	JOHN DRAKE ET UX	4-13/5.3
22	*JOHN DRAKE ET UX	4-13/5.5
23	LAKEN H. DRAKE	4-13/5.2
24	LAKEN H. DRAKE	4-13/5.8
25	IMOGENE WHITFIELD - LIFE	4-13/21
26	IMOGENE WHITFIELD - LIFE	4-13/23
27	LINDA LEE WILLIAMS - TOD	4-13/25.1
28	LLOYD BAKER	4-13/25.2
29	DONALD WAYT	5-3/3
30	ROGER WAYNE RINE	5-3/32.11
31	RALPH A. & ELLA BEA CHAPLIN	5-3/32.1
32	DALLAS PAUL RINE	5-3/32.12
33	KEITH A. & STACY HILL	5-3/32.10
34	JOHN ROBERT HILL ET UX - LIFE	5-3/32.4
	JEFFREY A. SZAFRAN	5-3/6
35		5-3/9
36	THOMAS MONTI ET AL	5-3/11.1
37	JOAN JORDAN	5-3/10
38	RAYMOND L. & DOROTHY L. MIDCAP	5-3/11
39	RALPH ALLEN & ROBIN HOLMES	5-3/12
40	RALPH ALLEN & ROBIN HOLMES	5-3/23
41	CNX LAND RESOURCES INC	5-3/14
42	GLEN L. CUNNINGHAM ET UX	5-3/14
43	*GLENN L. CUNNINGHAM ET UX	13-4/4



03/08/2019

SE BE

s, s.

located

on on

map

7,677 3,277

feet

west

9 9

Longitude: Longitude:

80

42 30"

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413093.48
E:520432.09

NAD83, WV NORTH N:500621.702 E:1614535.717

APPROX. (ANDING POINT UTM 17—NAD83(M) N:4412395.45 E:520096.83 NAD83, WV NORTH

N:498349.518 E:1613397.260

BOTTON HOLE LOCATION (BHL)

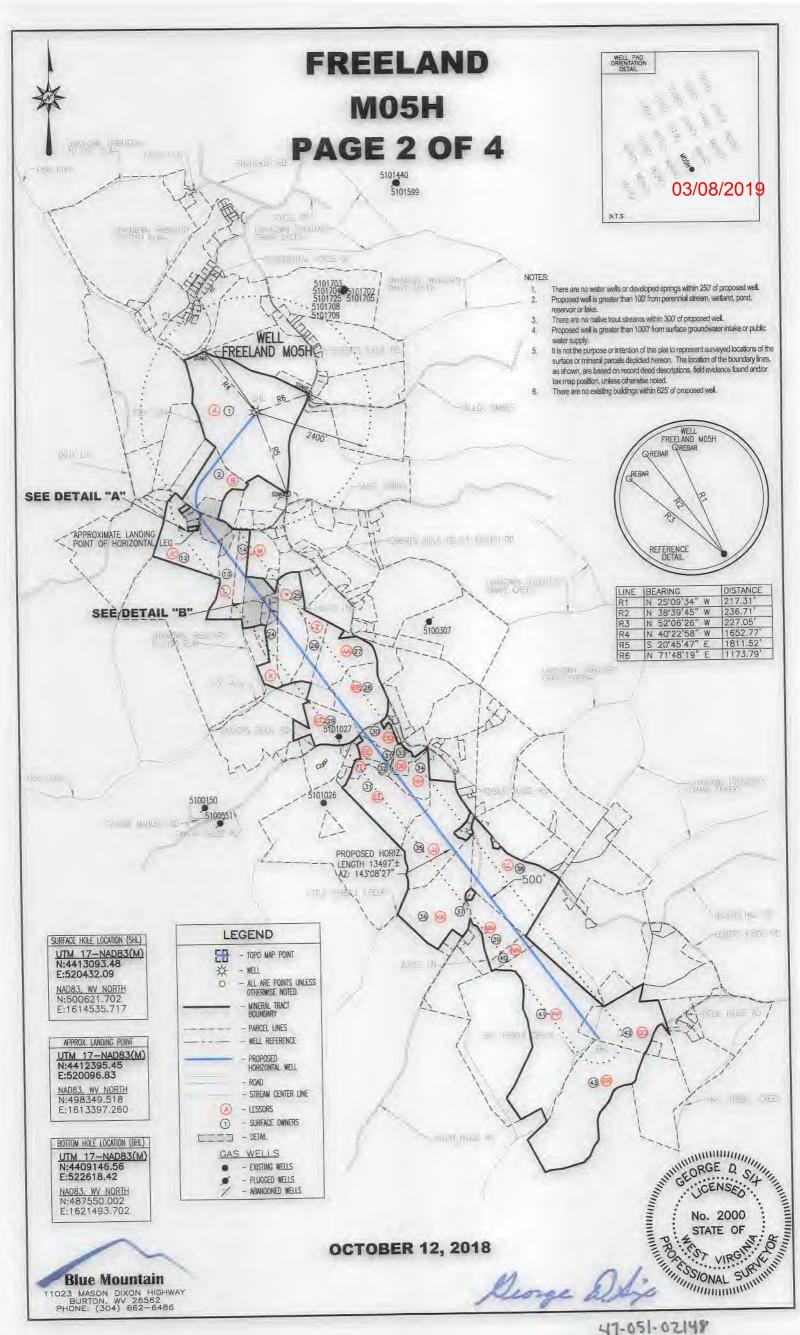
UTM 17-NAD83(M)
N:4409146.56
E:522618.42

NAD83. WY NORTH
N:487550.002
E:1621493.702

Blue Mountain

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

PHONE: (304) 662-6486	
DRAWING #: FREELAND MO5H BELIEF LAW AN	I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS CORRECT TO THE BEST OF MY KNOWLEDGE AND AND SHOWS ALL THE INFORMATION REQUIRED BY ID THE REGULATIONS ISSUED AND PRESCRIBED BY EPARTMENT OF ENVIRONMENTAL PROTECTION. L.L.S.: P.S. No. 2000 PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON	DATE: OCTOBER 12, 2018
UNITED STATES TOPOGRAPHIC MAPS WVDEP	OPERATOR'S WELL #: FREELAND M05H
OFFICE OF OIL & GAS 601 57TH STREET	API WELL#: 47 51 02 148
CHARLESTON, WV 25304	STATE COUNTY PERMIT
Well Type: Oil Waste Disposal Product WATERSHED: SHORT CREEK-OHIO RIVER COUNTY/DISTRICT: MARSHALL / CLAY	ction Deep X Gas Liquid Injection Storage X Shallow ELEVATION: 1274.00' QUADRANGLE: POWHATAN POINT, WV 7.5'
SURFACE OWNER: JOSEPH L, FREELAND ET UX	
OIL & GAS ROYALTY OWNER: JOSEPH FREELAND ET UX	774.0074
DRILL X CONVERT DRILL DEEPER RE	EDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ON CLEAN OUT & REPLUG OTHER CHANGE
TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: TVD: 6,395'± TMD: 21,496.45'±
WELL OPERATOR CHEVRON APPALACHIA, LLC	DESIGNATED AGENT KENNETH E. TAWNEY
Address 700 CHERRINGTON PARKWAY City CORAOPOLIS State PA Zip Code 1	Address 500 LEE STREET, EAST SUITE 1600 City CHARLESTON State WV Zip Code 25301-3202
City Sound one State In Edge	



FREELAND M05H PAGE 3 OF 4

	LESSOR	DIST-TM/PAF
	JOSEPH FREELAND ET UX	4-7/21
3	NORMAN L. DERROW ET UX	4-7/32
	KRISTA JO ELLIOTT ET VIR	4-7/32.2
)	*WILLIAM L. LEMASTERS ET UX	4-13/1.6
	WILLIAM L. LEMASTERS ET UX	4-13/1.2
5	EUGENE C. ESTEP ET UX	4-13/1.4
3	EUGENE C. ESTEP ET UX	4-13/1.3
H	EUGENE C. ESTEP ET UX	4-13/1.1
J	EUGENE C. ESTEP ET UX	4-13/4.1
K	EUGENE C. ESTEP ET UX	4-13/1
	SHAWN T. DANAHEY ET UX	4-13/4
М	SHAWN T. DANAHEY ET UX	4-13/4.2
N	TERRY L, CAMPBELL ET VIR	4-13/5.6
P	TERRY L. CAMPBELL ET VIR	4-13/5.10
0	*H3 LLC	4-13/5
R	JOHN M. STOCKLASK	4-13/6
S	*JOHN DRAKE ET UX	4-13/5.11
T	*STANLEY W. HUNT	4-13/5.7
Ü	JOHN DRAKE ET UX	4-13/5.3
V	*H3 LLC	4-13/5.5
W	STANLEY W. HUNT	4-13/5.2
X	STANLEY W. HUNT	4-13/5.8
Y	IMOGENE WHITFIELD	4-13/21
Z	IMOGENE WHITFIELD	4-13/23
AA	CHARLES WILLIAMS ET UX	4-13/25.1
BB	LLOYD G. BAKER	4-13/25.2
CC	DONALD L. WAYT	5-3/3
DD	AMP FUND II GP LLC	5-3/32.11
EE	AMP FUND II GP LLC	5-3/32.1
FF	AMP FUND II GP LLC	5-3/32.12
GG	KEITH A. HILL ET UX	5-3/32.10
HH	CAROL ELLEN HILL	5-3/32.4
1111	MARK O. HILL	
	MELISSA J. DAVIS	
	KEITH A. HILL	
JJ	CHARLOTTE S. SZAFRAN	5-3/6
UU.	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	

		DIST-03/08	
	LESSOR		
7-11	MAUREEN C. COOPER	5-3/6	
1	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	1	
	PATTE S. MADRID FRA PATTE S. SPEAK	5-3/9	
	STEPHEN M. THOMAS ET UX	3-3/3	
	R. STEPHEN THOMAS ET UX		
	JOHN RESSEGER		
	LAURA VIRGINIA RESSEGER		
	WILLIAM ELMER RESSEGER	E 7/10	
	DOROTHY L. MIDCAP	5-3/10	
M	RALPH ALLEN HOLMES	5-3/11	
N	RALPH ALLEN HOLMES	5-3/12	
P	LARRY E. HILL	5-3/23	
00	GLENN L. CUNNINGHAM ET UX	5-3/14	

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413093.48
E:520432.09

NAD83, WV NORTH N:500621.702 E:1614535.717

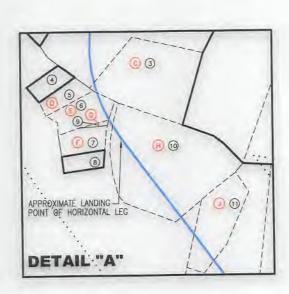
APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4412395.45
E:520096.83

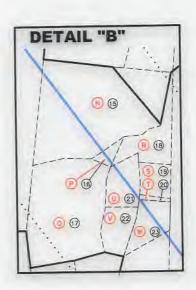
N:498349.518 E:1613397.260

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4409146.56
E:522618.42

NAD83, W NORTH
N:487550.002
E:1621493.702





OCTOBER 12, 2018



FREELAND M05H PAGE 4 OF 4

03/08/2019

T	LESSOR	DIST-TM/PA
1	*MICHAEL GORDON WHITE ET UX	5-4/4
Ì	*DANIEL JOSEPH HAMMEL	
t	*DAVID ANTHONY HAMMEL SR.	
İ	*JAMES ROBERT EVANS SR.	
Ì	*ELIZABETH S. HUDSON	
Ì	*PAUL PATTERSON ET UX	
İ	*RONALD L. PATTERSON	
Ì	*HEATHER LEE DAVIS	
Ì	*JAMES PATTERSON	
1	*DAVID LEE MARTIN	
1	*JUDITH PEARCE	
1	*WENDELL W. JONES SR., ET UX	
	*JODIE CAROL WIGNER	
	*GERALDINE ANNE BRACKEN	
1	*MARY LOU SNYDER	
	*PATRICIA A. PEARCE	
	*ANDREA EVANS HORTON	
	*MARY CATHERINE HOOD	
	*JANET F. HIGGINS	
	*TIMOTHY P. EVANS	
	*HEATHER NICOLE EVANS	
	*BARBARA THOMSEN	
	*GLORIA YEAGER	
	*BECKY OLIVER	
	*GERALD WAYNE MARTIN ET UX	
	*GARY D. ALLEN	
	*MARTIE JO MARTIN	
	*HUGH L. JONES ET UX	
	*KAROL L. BABEL	
	*WILLIAM S. MILLER ET UX	
	*GLADYS JANE BALDERSON	
	*MARGARET ROBERTA DAVIS	
	*RICHARD DOUGLAS WAYT ET UX	
	*RUTH ANN HARRIGAN	
	*LINDA FAYE SCOLLICK	
	*GERALD CLINTON OLIVER ET UX	
	*JOSEPH W. OLIVER	
	*JUDITH K. SHARP	
	*GERALD C. OLIVER ET UX	
	*CARL ALLEN ET UX	
	*HOLLY K. WAYT	
	*JOHN D. OLIVER	
	*MICHAEL CHAMBERS	
	*TED IANNARELLI ET UX	
	*CARRIE LEE HENDERSON	
	*JAMES A. OLIVER	
	*SUSAN M. MCGILL	
	*MICHAEL A. MAY	
	*ROBERT LEO ALLEN ET UX	
	*LAWRENCE MANNELLA ET UX	
	*PEGGY MARTIN	
	*GLENN L. CUNNINGHAM ET UX	
	*DELORES J. MYERS	
	*JOHN G. CALVERT	

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413093.48
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NAD83, W NORTH N:500621.702 E:1614535.717 APPROX. LANDING POINT

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BOTTOM HOLE LOCATION (BHL)

UTM 17—NAD83(M)
N:4409146.56
E:522618.42

NAD83, W NORTH
N:487550.002
E:1621493.702

OCTOBER 12, 2018



Operator's Well No. M05H

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

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

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

Lease Name or
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

(Page Def Zartment of Environmental Protection

Gas

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 L ET UX	Chevron U.S.A. Inc.	0.18	852/409	n/a	n/a	n/a C
C	4-7-32.2	ELLIOT KRISTA JO ET VIR	Chevron U.S.A. Inc.	0.18	852/406	n/a	n/a	n/a ii c
D	4-13-1.6	LEMASTERS WILLIAM L ET UX	Noble Energy, Inc.	0.15	797/432	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. inc.	CC g
E	4-13-1.2	LEMASTERS WILLIAM L ET UX	Noble Energy, Inc.	0.15	797/432	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	
F	4-13-1.4	ESTEP EUGENE C ET UX	Chevron U.S.A. Inc.	0.18	861/613	n/a	n/a	n/a
3 G	4-13-1.3	ESTEP EUGENE C ET UX	Chevron U.S.A. Inc.	0.18	861/613	n/a	n/a	n/a
<u> </u>	4-13-1.1	ESTEP EUGENE C ET UX	Chevron U.S.A. Inc.	0.18	861/613	n/a	n/a	n/a
J	4-13-4.1	ESTEP EUGENE C ET UX	Chevron U.S.A. Inc.	0.18	861/613	n/a	n/a	n/a
K	4-13-1	ESTEP EUGENE C ET UX	Chevron U.S.A. Inc.	0.18	861/613	n/a	n/a	n/a
L	4-13-4	DANAHEY SHAWN T ET UX	TH Exploration, LLC	0.18	876/64	36/168 TH Exploration, LLC to Chevron U.S.A. Inc.	n/a	n/a
М	4-13-4.2	DANAHEY SHAWN T ET UX	TH Exploration, LLC	0.18	876/64	36/168 TH Exploration, LLC to Chevron U.S.A. Inc.	n/a	n/a
N	4-13-5.6	CAMPBELL TERRY L ET VIR	Tri Energy Holdings, LLC	0.16	705/492	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
Р	4-13-5.10	CAMPBELL TERRY L ET VIR	Tri Energy Holdings, LLC	0.16	705/492	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
Q	4-13-5	H3 LLC	Chevron U.S.A. Inc.	0.18	949/7	n/a	n/a	n/a
R	4-13-6	STOCKLASK JOHN M	Chesapeake Appalachia, LLC	0.17	701/392	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshor Properties Inc. to Chevron U.S.A. Inc

Plat ID	Tax Parcel	Lessor	Freeland Unit #5H - E	Royalty	Book/Page	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Assignment #2	Assignment 3
Z	4-13-23	WHITFIELD IMOGENE	AB Resources, LLC	0.125	689/89	24/466 AB Resources et al to Chief Exploration and Development et al	25/105 Chief Exploration and Development et al to Chevron U.S.A. inc.	75 7397 C. AB Resources, H.C to Chevron, U.S.A.
AA	4-13-25.1	WILLIAMS CHARLES ET UX	Chevron U.S.A. Inc.	0.18	838/545	n/a	n/a	n)al O
BB	4-13-25.2	BAKER LLOYD G	Chevron U.S.A. Inc.	0.18	861/583	n/a	n/a	n/a ()
сс	5-3-3	WAYT DONALD L.	Noble Energy, Inc.	0.16	796/127	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a O
DD	5-3-32.11	AMP FUND II GP LLC	American Petroleum Partners Operating, LLC	0.125	919/380	40/267 American Petroleum Partners Operating, LLC to Chevron U.S.A. Inc.	n/a	n/a
EE	5-3-32.1	AMP FUND II GP LLC	American Petroleum Partners Operating, LLC	0.125	919/380	40/267 American Petroleum Partners Operating, LLC to Chevron U.S.A. Inc.	n/a	n/a
FF	5-3-32.12	AMP FUND II GP LLC	American Petroleum Partners Operating, LLC	0.125	919/380	40/267 American Petroleum Partners Operating, LLC to Chevron U.S.A. Inc.	n/a	n/a
GG	5-3-32.10	KEITH A HILL ET UX	Noble Energy, Inc.	0.17	845/189	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 CAROL ELLEN	Noble Energy, Inc.	0.17	845/185	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a

Freeland Unit #5H - E	BATCH 1 - MRCL FULL
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_	4. 1		r	Trecland One #311 - DATENT - WINCE FOLE					অ
	Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
2 1 4 8	S	4-13-5.11	DRAKE JOHN ET UX	Chesapeake Appalachia, LLC	0.17	701/389	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404
050	Τ.	4-13-5.7	HUNT STANLEY W	Chesapeake Appalachia, LLC	0.17	701/386	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshofe Properties Inc. to Chevron U.S.A. Inc.
14	U	4-13-5.3	DRAKE JOHN ET UX	Chesapeake Appalachia, LLC	0.17	701/389	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
	V	4-13-5.5	H3 LLC	Chevron U.S.A. Inc.	0.18	949/7	n/a	n/a	n/a
	w	4-13-5.2	HUNT STANLEY W	Chesapeake Appalachia, LLC	0.17	701/386	29/325	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404
	x	4-13-5.8	HUNT STANLEY W	Chesapeake Appalachia, LLC	0.17	701/386	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
	Y	4-13-21	WHITFIELD IMOGENE	AB Resources, LLC	0.125	689/89	24/466 AB Resources et al to Chief Exploration and Development et al	25/105 Chief Exploration and Development et al to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.

Freeland Unit #5H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment#3
нн	5-3-32.4	HILL MARK O	Noble Energy, Inc.	0.17	845/187	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a O
	3 3 32.4	DAVIS MELISSA J	Noble Energy, Inc.	0.17	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.	0.17	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
		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
		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
JJ	1	FURBEE CHRISTOPHER G - SFX	Chevron U.S.A. Inc.	0.180	873/613	n/a	n/a	n/a
Jå		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
	1	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

[Freeland Unit #5H - BATCH 1 - MRCL FULL							o G	
	Plat ID	Tax Parcel	Lessor.	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
4 8			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.	307461 Chesapeake Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
		I	STARKEY ETHEL E AKA STARKEY ETHEL ELAINE - SFX	Chevron U.S.A. Inc.	0.180	871/152	n/a	n/a	n/a 🢆
		I	PETERSON CALLENE M FKA STARKEY CALLENE M - SFX	Chevron U.S.A. Inc.	0.180	871/114	n/a	n/a	n/a O
			BROWN REBECCA JEAN - SFX	Chevron U.S.A. Inc.	0.180	873/309	n/a	n/a	n/a
7			ROHRER PAULA J - SFX	Chevron U.S.A. Inc.	0.180	873/312	n/a	n/a	n/2

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment#3
		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 O
		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
וו	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
		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
	6	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

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #35
		ALBERT CAROL JEAN MALILKA - SFX	Chevron U.S.A. Inc.	0.180	893/268	n/a	n/a	r@ T
		SCHARTIGER SHARON L - SFX	Chevron U.S.A. Inc.	0.180	893/205	n/a	n/a	n/al 🗮
		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	W O
	:	ST GEORGE REGINA KAY ET VIR - SFX	Chevron U.S.A. Inc.	0.180	872/104	n/a	n/a	nyā;
		STARKEY BETTY LOU - SFX	Chevron U.S.A. Inc.	0.180	872/107	n/a	n/a	nze o
		MADRID PATTIE S FKA SPEAR PATTIE S - SFX	Chevron U.S.A. Inc.	0.180	871/120	n/a	n/a	n/a
		THOMAS STEPHEN M ET UX - SFX				24/180	756/332	0
			TriEnergy Holdings, LLC	0.180	704/374	TriEnergy Holdings, LLC	NPAR, LLC to Chevron	n/a
		THOMAS P STEPHEN STAN SEV			_	to NPAR, LLC	U.S.A. Inc.	
		THOMAS R STEPHEN ET UX - SFX	TriFanam. Haldings 11.6	0.100	704/276	24/180	756/332	,
KK	5-3-9		TriEnergy Holdings, LLC	0.180	704/376	TriEnergy Holdings, LLC	NPAR, LLC to Chevron	n/a
		RESSEGER JOHN - SFX	Chevron U.S.A. inc.	0.160	891/78	to NPAR, LLC n/a	U.S.A. Inc. n/a	n/a
		RESSEGER LAURA VIRGINIA - SFX	Chevron U.S.A. Inc.	0.160	893/183	n/a	n/a	n/a
ĺ		RESSEGER WILLIAM ELMER - SFX	Chevron U.S.A. Inc.	0.160	893/186	n/a	n/a	n/a
LL	5-3-10	MIDCAP DOROTHY L	Chevron U.S.A. Inc.	0.16	899/535	n/a	n/a	n/a
MM	5-3-11	HOLMES RALPH ALLEN - SFX	Chevron U.S.A. Inc.	0.18	914/566	n/a	n/a	n/a
NN	5-3-12	HOLMES RALPH ALLEN - SFX	Chevron U.S.A. Inc.	0.18	914/566	n/a	n/a	n/a
PP	5-3-23	HILL LARRY E	Chevron U.S.A. Inc.	0.15	911/588	n/a	n/a	n/a
QQ	5-3-14	CUNNINGHAM GLENN L ET UX	Chevron U.S.A. Inc.	0.15	683/509	n/a	n/a	n/a
					1 000/303	11/4	n/a	11/4



September 10, 2018

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

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

To Whom It May Concern,

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

Sincerely

Kevin J Cruz

Land Representative

RECEIVED
Office of Oil and Gas

DEC 1 7 2018

4705102 p3/08/2019

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

Date of Notice	ce Certification: <u>13/13/18</u>	1	API No. 47	7		
	• •			Well No. MOS	Н	
X T /*				lame: Freelar		
Notice has l	been given:					
Pursuant to the	ne provisions in West Virginia Code	§ 22-6A, the Operator has provi	ded the req	uired parties	with the Notice Forms liste	ed
State:	tract of land as follows: West Virginia					
County:	Marshall		Easting:	520432.09		
District:	Clay		Northing:	4413093.48		
Quadrangle:	Powhatan Point, WV 7.5'	Public Road Acces		CR 21 Robert Ridge Road		
Watershed:	Short Creek - Ohio River	Generally used far	m name:	Freeland		_
it has provided by it has provided information report giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface described and control of the surface described and control of the surface described and control of the surface owner notice of entry to so of subsection (b), section sixteen control of subsection (b), the applicant shall have been completed by the applicant	shall contain the following information bed in subdivisions (1), (2) and ection sixteen of this article; (ii) curvey pursuant to subsection (a) of this article were waived in watender proof of and certify to the	mation: (14) d (4), substhat the reconstruction to the criting by the critical cr	A) A certification (b), section (b), section (c), section (d), section	on from the operator that operator ten of this article, the deemed satisfied as a resuccle six-a; or (iii) the notice tener and Pursuant to Western and Pursuant to Western and Pursuant to Western and Pursuant to Western	(i) he ılt ce
Pursuant to V that the Open	West Virginia Code § 22-6A, the Operator has properly served the require	perator has attached proof to this ed parties with the following:	s Notice Co	ertification		
*PLEASE CHE	CCK ALL THAT APPLY				OOG OFFICE USE ONLY	
□ 1. NOT	CICE OF SEISMIC ACTIVITY or	☐ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED	
☐ 2. NOT	TICE OF ENTRY FOR PLAT SURV	/EY or D NO PLAT SURVE	Y WAS CO	NDUCTED	☐ RECEIVED	
■ 3. NOT	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PLUAS CONDUCTED or			RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFAC	E OWNER		
4. NOT	TICE OF PLANNED OPERATION				RECEIVED	
■ 5. PUB	LIC NOTICE				RECEIVED	
■ 6. NOT	ICE OF APPLICATION				RECEIVED	
Required At	tachments:			,: _	BECENED	

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 IF Segal 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. WV Department of

Environmental Protection

4705102148

Certification of Notice is hereby given:

6A. I certify the above, to the resignature confirment in this Notice obtaining the in	equired under West Virginia equired parties through personal se mation. I certify under penalty of la Certification and all attachments, formation. I believe that the inform	have read and understand the notice requirements within West Virginia Code § 22-Code § 22-6A, I have served the attached copies of the Notice Forms, identified rvice, by registered mail or by any method of delivery that requires a receipt or aw that I have personally examined and am familiar with the information submitted and that based on my inquiry of those individuals immediately responsible for ation is true, accurate and complete. I am aware that there are significant penalties ibility of fine and imprisonment
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 Cor	NOTARY SEAL vealth of Pennsylvania - Notary Seal ura Savage, Notary Public Allegheny County ission expires September 17, 2022 mmission number 1285773	Country of Alleghenry Subscribed and sworn before me this 24th day of September 2618 My Commission Expires September 17, 2022
Member, F	Pennsylvania Association of Notaries	

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.

HESEIVED Once of Oil and Gas

DEC 1 7 ZU18

WV Desputment of Environmental Protection

4705102148

API NO. 47-OPERATOR WELL NO. MO 3/08/2019 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 that	in the filing date of permit application.
Date of Notice: 1151 Date Permit Application Filed: 12	11418
Notice of:	1. 11.0
Notice of:	
☑ PERMIT FOR ANY ☐ CERTIFICATE OF APP	PROVAL FOR THE
	AN IMPOUNDMENT OR PIT
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Delivery method pursuant to West Virginia Code § 22-6A-10	(b)
☐ PERSONAL ☐ REGISTERED ☑ METHO	OD OF DELIVERY THAT REQUIRES A
SERVICE MAIL RECEI	PT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be loca oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursua operator or lessee, in the event the tract of land on which the well pr more coal seams; (4) The owners of record of the surface tract or tra well work, if the surface tract is to be used for the placement, constraint impoundment or pit as described in section nine of this article; (5) A have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section exprovision of this article to the contrary, notice to a lien holder is not	the well plat to each of the following persons: (1) The owners of record of the det; (2) The owners of record of the surface tract or tracts overlying the of the surface tract is to be used for roads or other land disturbance as and to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed function, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the elemants in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. tovide the Well Site Safety Plan ("WSSP") to the surface owner and any
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice	
SURFACE OWNER(s)	□ COAL OWNER OR LESSEE
Name: Joseph L. Freeland and Debra J. Freeland	Name: Consol 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
	SURFACE OWNER OF WATER WELL
Name:	AND/OR WATER PURVEYOR(s)
Address:	Names See Attachment
Nama	Name: See Attachment Address:
Name:	Address:
Address:	= OPER LEGR OF LARLY LETT LE CASSETOR LET PRESE
- CLIDEACE OWNER (A) (I	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: Gas
Name:	Address:
Address:	U=U 1-7 20,8
	*Please attach additional forms if necessary
	TAA A STATE OF THE
	77 - 12 22
	The state of the section

4705102148

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

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any as 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

4705102148 API NO. 47-__-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: Filting of Oil and Gas

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

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

WW-6A (8-13)

API NO. 47-4705102148 OPERATOR WELL NO 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

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W/W Dun atment of Environmental Protection WW-6A (8-13)

4705102148

API NO. 47-OPERATOR WELL NO. MOST // 198/2019 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 deprivacyofficer@wv.gov.

Commonwealth of Pennsylvania - Notary Seal Laura Savage, Notary Public Allegheny County My commission expires September 17, 2022 Commission number 1285773 Commanwealth of ferms ylvania County of Alleghery

Subscribed and sworn, before me this 24th day of September 2018.

Notary Public

My Commission Expires September 17, 2022

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Office of Oil and Gas

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WV Department of Environmental Protection Attachment to WW-6A

4705102148

	API No. 47
	OPERATOR WELL NO. MO5H
	Well Pad Name: Freeland
	SURFACE OWNER
	Name:
	Address:
	COAL OWNER OR LESSEE
	Name:
	Address:
	COAL OPERATOR
	Name:
	Address:
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Joseph L. Freeland ET UX
	Address: 813 Clearview Terrace
	New Martinsville, WV 26155
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Cathy J. and Carl F Petrucci, Jr.
	Address: 863 Petrucci Lane Moundsville, WV 26041
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Norman L. Derrow, ET UX \
	Address: 97 Old Homestead Lane
	Moundsville, WV 26041
	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name:
	Address:
	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name:
	Address:

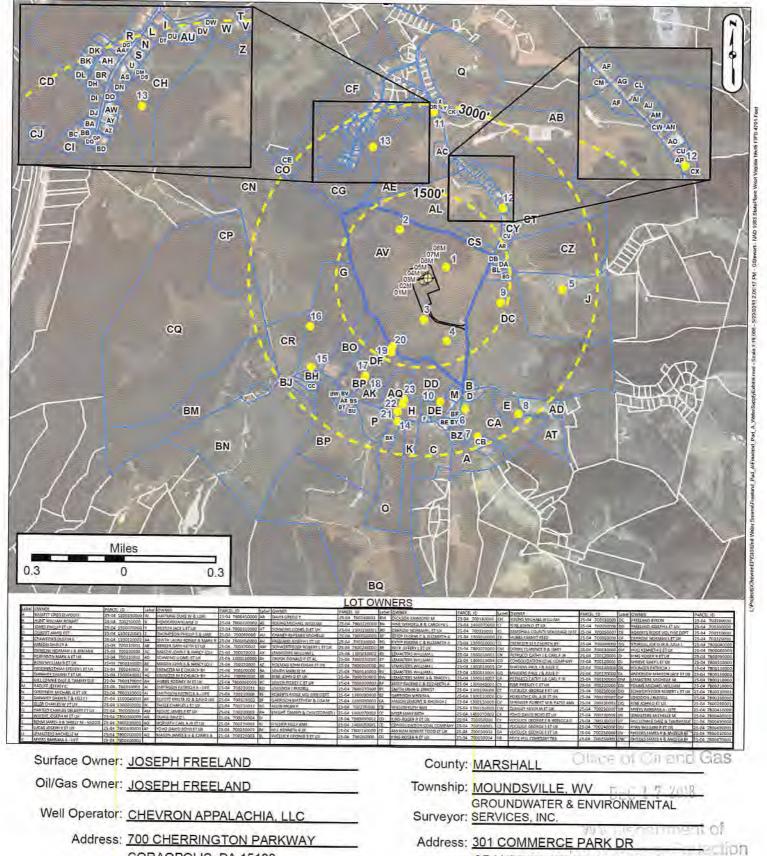
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Office of Oil and Gas

DEC 1 7 2018

VVV Denartment of Environmental Protection







CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549

CORAOPOLIS, PA 15108

Phone: 724-564-3700



Water Supply Exhibit Freeland Pad

4705102148



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

No.	SUPPLY COORDINATES	01M	02M	03M	04M	05M	06M	07M	08M
1	39°52'05.45988000"N 80°45'35,69004000"W	451	434	418	405	386	371	360	347
2	39°52'11.61012000"N 80°45'46.06992000"W	947	948	950	951	951	953	954	956
3	39°51'56.54016000"N 80°45'40,34016000"W	676	682	688	694	704	710	716	723
4	39°51'52.99992000"N 80°45'35.16984000"W	1,120	1,120	1,120	1,121	1,124	1,125	1,127	1,129
5	39°52'02.17992000"N 80°45'09.90000000"W	2,403	2,388	2,372	2,361	2,345	2,332	2,322	2,310
6	39°51'41.64480000"N 80°45'30.77640000"W	2,316	2,317	2,317	2,319	2,323	2,324	2,326	2,328
7	39°51'37.06560000"N 80°45'27.90720000"W	2,828	2,828	2,829	2,830	2,833	2,834	2,835	2,837
8	39°51'41.01840000"N 80°45'19.02240000"W	2,811	2,807	2,802	2,800	2,798	2,794	2,792	2,790
9	39°51'59.73120000"N 80°45'23.52960000"W	1,384	1,370	1,357	1,347	1,334	1,323	1,314	1,304
10	39°51'42.75000000"N 80°45'36.29160000"W	2,099	2,103	2,107	2,111	2,117	2,121	2,125	2,129
11	39°52'31.55016000"N 80°45'39.21984000"W	2,869	2,862	2,855	2,849	2,840	2,834	2,829	2,823
12	39°52'15.61440000"N 80°45'23.52960000"W	1,834	1,818	1,802	1,790	1,772	1,758	1,747	1,735
13	39°52'25,44996000"N 80°45'52.44012000"W	2,429	2,429	2,429	2,429	2,427	2,427	2,427	2,427
14	39°51'39.31200000"N 80°45'45.64800000"W	2,450	2,510	2,475	2,467	2,458	2,486	2,495	2,502
15	39°51'48.06000000"N 80°46' 04,92600000"W	2,434	2,536	2,479	2,466	2,450	2,497	2,511	2,523

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WW Deliariment of Environmental Protection



Water Supply Exhibit Freeland Pad



4705102148

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

No.	SUPPLY COORDINATES	01M	02M	03M	04M	05M	06M	07M	08M
16	39°51'54.98280000"N 80°46' 05.36880000"W	2,097	2,202	2,144	2,131	2,114	2,162	2.177	2,189
17	39°51'46'.75680000"N 80°45'52.92720000"W	1,920 ~	2,006	1,957	1,946	1,933	1,973	1,985	1,995
18	39°51'46'.49400000"N 80°45'53.03520000"W	1,947	2,033	1,984	1,974	1,960	2,000	2,012	2,022
19	39°51'50.80680000"N 80°45'47.37960000"W	1,360	1,439	1,394	1,384	1,372	1,408	1.419	1,429
20	39°51'51.82200000"N 80°45'47.13120000"W	1,258	1,338	1,292	1,282	1,270	1.307	1,318	1.327
21	39°51'40.91760000"N 80°45'45.67680000"W	2,290	2,351	2,315	2,308	2,299	2.327	2,336	2,343
22	39°51'42.18120000"N 80°45'44.55000000"W	2,150	2,208	2,174	2,167	2.158	2,186	2,194	2,201
23	39°51'42.99120000"N 80°45'44.33040000"W	2,066	2,125	2,091	2,083	2,075	2,102	2,110	2,117

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WV Department of

03/08/2019

4705102148 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

	ice:	118	Date Permit	st TEN (10) days prior to fi Application Filed:	14/19	g application.	
Delivery me	ethod pursuan	t to West Virgin	iia Code § 22-6	A-16(b)	, 1,,		
☐ HAND		CERTIFIED	TATE				
DELIV				uusa.			
			CEIPT REQUES				
drilling a ho of this subse subsection n	rizontal well: ction as of the nay be waived i	Provided, That n date the notice w	otice given purs as provided to the	tior to filing a permit application to filing a permit application of its intent to enter upon the surface owner: <i>Provided</i> The notice, if required, shall asso of the operator and the operator and the operator.	pon the si ion ten of <i>l, howeve</i>	urface owner's last this article satisfy. That the notice	and for the purpose sfies the requirement e requirements of the
Notice is he	ereby provide	ed to the SURI	FACE OWNE	R(s):			
Name: Joseph	L. Freeland and Debi	a J. Freeland		Name: Joseph L. Free	eland		
Address: 813 New Martinsville	Clearview Terrace	-		Address: 813 Clearvie			
ivew Martinsville	, WV 26155		<u> </u>	New Martinsville, WV 26	155		
Pursuant to V the surface of State:	West Virginia C Wner's land for West Virginia Marshall	Code § 22-6A-16 the purpose of d	(b), notice is her rilling a horizon	reby given that the undersignatal well on the tract of land UTM NAD 83 Leasting	as follow 5204	/S: 132.09	intent to enter upo
Pursuant to V the surface of State: County: District: Quadrangle:	West Virginia C wner's land for West Virginia	WV 7.5'	(b), notice is her rilling a horizon	tal well on the tract of land	as follow g: 5204 ng: 4413 CR 2	/s: 132.09 8093.48 21 Robert Ridge Road	
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	West Virginia (wner's land for West Virginia Marshall Clay Powhatan Point, Short Creek - Ohi Shall Includ West Virginia mber and electriziontal drilling	WV 7.5' o River e: Code § 22-6A-1 ronic mail addre	6(b), this notices of the operated from the Secre	UTM NAD 83 Easting Northir Public Road Access: Generally used farm nam e shall include the name, for and the operator's auth	as follow 3: 5204 ag: 4413 CR 2 e: Freel address, orized re	'S: 132.09 1093.48 21 Robert Ridge Road land telephone numb presentative. Ad	per, and if available
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601	West Virginia Comer's land for West Virginia Marshall Clay Powhatan Point, Short Creek - Ohi Shall Includ West Virginia mber and electrizontal drilling	WV 7.5' o River e: Code § 22-6A-1 conic mail addre may be obtaine	6(b), this notices of the operated from the Secre	UTM NAD 83 Easting Northir Public Road Access: Generally used farm nam e shall include the name,	as follow 3: 5204 ag: 4413 CR 2 e: Freel address, orized re	'S: 132.09 1093.48 21 Robert Ridge Road land telephone numb presentative. Ad	per, and if available
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he	West Virginia Comer's land for West Virginia Marshall Clay Powhatan Point, Short Creek - Ohi Shall Includ West Virginia mber and electrizontal drilling 57th Street, SE reby given by	WV 7.5' o River e: Code § 22-6A-1 ronic mail addre may be obtaine c, Charleston, WV	6(b), this notices of the operated from the Secre	UTM NAD 83 Easting Northir Public Road Access: Generally used farm nam e shall include the name, for and the operator's auth etary, at the WV Departme 26-0450) or by visiting ww	as follow g: 5204 ag: 4413 CR 2 e: Freel address, orized re ent of Enw.dep.wy	'S: 132.09 1093.48 21 Robert Ridge Road land telephone numb presentative. Ad	per, and if available
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor ocated at 601 Notice is he Well Operato	West Virginia Comer's land for West Virginia Marshall Clay Powhatan Point, Short Creek - Ohi Shall Includ West Virginia mber and electrizontal drilling	WV 7.5' o River e: Code § 22-6A-1 conic mail addre may be obtaine c, Charleston, WV	6(b), this notices of the operated from the Secre	UTM NAD 83 Easting Northir Public Road Access: Generally used farm names and the operator's autherary, at the WV Department 26-0450) or by visiting www.	as follow g: 5204 ag: 4413 CR 2 e: Freel address, orized re ent of Enw.dep.wy	'S: 132.09 1093.48 21 Robert Ridge Road land telephone numb presentative. Ad	per, and if available
Pursuant to Varies of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Varies of the Notice acsimile nurrelated to horocated at 601 Notice is he Well Operato Address:	West Virginia Comer's land for West Virginia Marshall Clay Powhatan Point, Short Creek - Ohi Shall Includ West Virginia mber and electrizontal drilling 57th Street, SE reby given by Chevron Appal 700 Cherringto	WV 7.5' o River e: Code § 22-6A-1 conic mail addre may be obtaine c, Charleston, WV	6(b), this notices of the operated from the Secre	UTM NAD 83 Easting Northir Public Road Access: Generally used farm nam e shall include the name, for and the operator's auth etary, at the WV Departme 26-0450) or by visiting ww	as follow g: 5204 ag: 4413 CR 2 e: Freel address, orized re ent of Enw.dep.wy	'S: 132.09 1093.48 21 Robert Ridge Road land telephone numb presentative. Ad	per, and if available
Pursuant to Varies of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Varies of the Notice Pursuant to Varies of the Notice of the Notice of the Well Operato Address: Coreopolis, PA 1	West Virginia Comer's land for West Virginia Marshall Clay Powhatan Point, Short Creek - Ohi Shall Includ West Virginia mber and electrizontal drilling 57th Street, SE reby given by Chevron Appal 700 Cherringto	WV 7.5' o River e: Code § 22-6A-1 conic mail addre may be obtaine c, Charleston, WV	6(b), this notices of the operated from the Secre	UTM NAD 83 Easting Northir Public Road Access: Generally used farm nam e shall include the name, for and the operator's auth etary, at the WV Departme 26-0450) or by visiting ww Authorized Representat Address:	as follow g: 5204 ag: 4413 CR 2 e: Freel address, orized re ent of Enw.dep.wy	'S: 132.09 1093.48 21 Robert Ridge Road land telephone numb presentative. Ad	per, and if available
Pursuant to Varies of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Varies of State of State: Consider the Notice of State of St	West Virginia Commer's land for West Virginia Marshall Clay Powhatan Point, Short Creek - Ohi Shall Includ West Virginia mber and electrizontal drilling 57th Street, SE reby given by Chevron Appal 700 Cherringto 5108	WV 7.5' o River e: Code § 22-6A-1 ronic mail addre may be obtaine c, Charleston, WV 7: achia, LLC n Parkway	6(b), this notices of the operated from the Secre	UTM NAD 83 Easting Northir Public Road Access: Generally used farm names and the operator's autherary, at the WV Department 26-0450) or by visiting www.	as follow g: 5204 ag: 4413 CR 2 e: Freel address, orized re ent of Enw.dep.wy	'S: 132.09 1093.48 21 Robert Ridge Road land telephone numb presentative. Ad	per, and if available
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T 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. Environmental Protection

470510 23/08/2019 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Delivery me	ethod pursuant to West Virginia (Code § 22-6A-	16(c)		
	IFIED MAIL				
		☐ HAN			
KEIU	RN RECEIPT REQUESTED	DEL.	IVERY		
the planned required to b drilling of a damages to t	operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of	he surface own this subsection ten of this a ed surface use perations to the	ner whose lan on shall inclu rticle to a sur and compen e extent the d	d will be used for ide: (1) A copy face owner who sation agreement amages 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 at containing an offer of compensation for upensable under article six-b of this chapter, sted in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE C	OWNER(s)			
(at the address	ss listed in the records of the sheriff	at the time of	notice):		
	L. Freeland and Debra J. Freeland		Name:	Joseph L. Freeland	
A J.J	Observations Transport	_			
	Clearview Terrace WV 26155			S: 813 Clearview Ter	Tace
New Martinsville,	wv 26155 reby given:	notice is barab	New Ma	rtinsville, WV 26155	
Notice is her Pursuant to V operation on State: County:	wv 26155 reby given:	notice is hereb	New Ma by given that t ng a horizonta UTM NAD 8	the undersigned al well on the tra Easting: Northing:	well operator has developed a planned
Notice is her Pursuant to V operation on State: County: District:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu	notice is hereb urpose of drilli	New Ma by given that t ng a horizonta UTM NAD 8 Public Road	the undersigned al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 520432.09
Notice is her Pursuant to V operation on State: County: District: Quadrangle:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Marshall Clay Powhatan Point, WV 7.5'	notice is hereb	New Ma by given that t ng a horizonta UTM NAD 8 Public Road	the undersigned al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 520432.09 4413093.48
New Martinsville, Notice is her Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu	notice is hereb urpose of drilli	New Ma by given that t ng a horizonta UTM NAD 8 Public Road	the undersigned al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 520432.09 4413093.48 CR 21 Robert Ridge Road
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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.

DEC 1 7 2018

API NO. 47-___OPERATOR WELL NO. 0'5#08/2019
Well Pad Name: Freeland

4705102148

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:	the well plat, all for proposed well work on the tra	JTM NAD 83 Easting:	520432.09 4413093.48 CR 21 Robert Ridge Road Freeland	
County: District:	Worshall	Northing:		
Quadrangle:		Public Road Access:		
Watershed:	Powhatan Point, WV 7.5' Short Creek - Ohio River	Generally used farm name:		
		FOR EXECUT	ION BY A NATURAL PERSON	
th.				
	the box that applies	FOR EXECUT	ION BY A NATURAL PERSON	
1 SURFAC	CE OWNER	Signature		
		Print Name:	L'A Filed	
SURFA(CE OWNER (Road and/or Other Disturbance)	Print Name: // Date: _// - 2	OSEPH L FIELVEN	
SURFA(SURFA(Print Name:	OSEPH L FIEETVEND 20-18 ION BY A CORPORATION, ETC.	
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SURFAC SURFAC COAL C COAL C WATER	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) WNER OR LESSEE	Print Name:	OSEPH L. FIECTION 20-18 ION BY A CORPORATION, ETC.	

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 4705102148 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

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VOLUNTARY STATEMENT OF NO OBJECTION

I, Mason Smith	, hereby state that I have read the	e Instructions to Persons N	amed on Page WW-6A and the associate	
WW-6A and	sted above, and that I have received copies of a No attachments consisting of pages one (1) through the well plat, all for proposed well work on the trac West Virginia	n, including ct of land as follows:		
County:	Marshall	JTM NAD 83 Rasting: Northing:	4413093.478	
District:		ublic Road Access:	Robers Ridge Road	
Quadrangle:	Powhatan Point 7.5'	Generally used farm name:	Freeland	
Watershed:	Upper Ohio-Beaver			
*Please check	k the box that applies	FOR EXECUT	TON BY A NATURAL PERSON	
□ SURFA	CE OWNER CE OWNER (Road and/or Other Disturbance)	Signature: Print Name:		
	CE OWNER (Impoundments/Pits)	Date:	TION BY A CORPORATION, ETC.	
□ COAL C	OWNER OR LESSEE		rray American Energy Inc	
■ COAL C	PERATOR	Its: (Onl, Of	topis relations manager	
□ WATER	RPURVEYOR	Signature: M	USOS SWS	
□ OPERA	TOR OF ANY NATURAL GAS STORAGE F	Date: (- 24	-18	

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer www.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 M05H

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

Dany K. Clayton

Cc: Nikolai Softcheck Chevron Appalachia, LLC CH, OM, D-6 File

DEC 1 7 2018

RECEIVED

Office of Oil and Gas

MW Department of Environmental Protection

Hydraulic Fracturing Fluid Additives

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

RECEIVED
Office of Oil and Gas

DEC 1 7 2018

WV Department of Environmental Protection

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

CIVIL/SITE ENGINEER CONTACT: JOSH MAGARGEE EMA'L ADDRESS: jmogargee@cecinc.com GEOTECHNICAL ENGINEER CONTACT: AARON LAVAGE EMAIL ADDRESS: diovoge@cecing.com

SITE COORDINATES AND WATERSHED

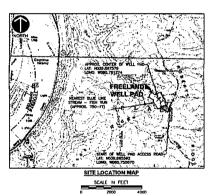
START OF WELL PAD ACCESS ROAD LATITUDE: 39.865592 N, LONGITUDE: 80.758670 W

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

*BASED ON HAD 83, WEST VIRGINIA NORTH ZONE

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

				
		West Verious		
Welfre ad No.	Northing	Lasting	Lattivde [North]	
O1M	500597.5170	1616450 5066	59 2675665	80.7632906
02M	500603.5633	1614494 5141	39.2675837	80.7612420
O DAG	500609 6094	1614504.2615	39.667600R	80,7611934
04M	500615,6555	1614521 9850	39 R676179	80 761144R
0544	500621.7017	1614535.7165	19.8676151	80.7610962
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олы	500633.7941	1614563.1715	39.6578493	80,7609990
OSM	500639.8403	1614576 2989	39.2576864	80,7609504
010	500631.0181	1614492 6417	39.8676586	EO 7612864
020	500637.0643	1614495.1692	59 2676757	80.NS22179
830	500643.1105	1514509.8966	39.0676938	80.7616892
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060	500661.2491	1614551.0731	39 8677442	80.7610434
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GE SOB RSS CROSS-SECTION (3 OF 3) X	11/14/2018
GE 509 RSS SPECIFICATIONS AND QUANTITIES X	11/14/2018
GE SID RSS DETAILS X	11/14/2018
PC 600 SITE PLAN WITH AFRIAL X	11/14/7018
PC 601 P057-CONSTRUCTION RECLAMATION PLAN X	
PC 602 POST-CONSTRUCTION RECLAMATION DETAILS X	11/14/2018

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

WETLAND 2 (PSS) - 2 LF FROM LOD WETLAND 4 (PEM/PSS) - 10 LF FROM LOD

- PROPERTY BOUNDARIES MEDIT PROMOTED BY CANADISM BACKGROUND AERIAL DIAGE FROM GOOGLE EARTH PRO, DATED 2016

	West Virginia North West Virginia North Latting Latting (Morth) Longitude (West						
Wellhead No.	Northing	Lasting	Lattude [North]	Longitude (West			
OLM	500597.5170	1616450 5066	39 2675645	80.7632906			
02M	500603.5632	16144945141	39.2675837	80.7612420			
03M	500609 6094	1614504.2615	39.667600R	80.7611934			
04149	500615,6555	1614521 9893	39 R676179	80 7611448			
05M	500621.7017	1614535.7165	19.8676151	80.7610962			
0644	500627 7479	1614549,4440	39.0576572	RD.7610476			
07NA	500633.7941	1614563.1715	39.6578493	60.7609990			
OSM	500639.8403	1614576 2989	39.2576864	80,7609504			
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110	500688,7840	2614538.9867	39 8678191	80,7610679			

EXISTING LITTLITY POLE



PROPOSED STRONEDME CO.
PROPOSED CO.T./FILL LINE
PROPOSED CO.T./FILL LINE
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PROPOSED COMPOST FILTER SOCK TRAP PROPOSED 18-01 COMPOST FILTER SOCK PROPOSED 32-OI COMPOST FILTER SOCK PROPOSED INLET PROTECTION



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