

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 M04H Re:

47-051-02146-00-00

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

Operator's Well Number: FREELAND M04H

Farm Name:

JOSEPH L. FREELAND ET UX

U.S. WELL NUMBER:

47-051-02146-00-00

Horizontal 6A New Drill

Date Issued: 3/1/2019

API N			_		
A T C	4	7	0	5	100/28/20496

PERMIT CONDITIONS

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

CONDITIONS

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

API N	Jum	ber	:-		
NS	4	7	0	5	03/08/2019

PERMIT CONDITIONS

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



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street Charleston, WV 25304 (304) 926-0450 fax (304) 926-0452 Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

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

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

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

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

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

CONCLUSIONS OF LAW

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

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands 1A 1B, 2 and 4 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s s 47-051-02142, 47-051-02143, 47-051-02145, 47-051-02146, 47-051-02148, 47-051-02151, 47-051-02153 and 47-051-02154. The Office of Oil and Gas hereby **ORDERS** that Chevron Appalachia, LLC shall meet the following site construction and operational requirements for the Freeland Well Pad:

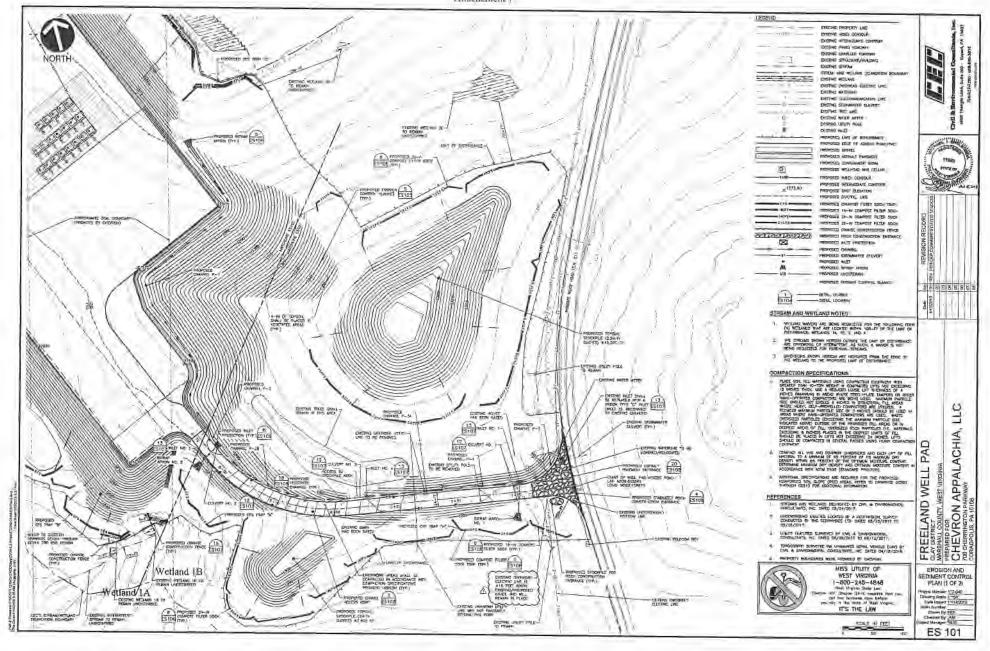
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland 1A, 1B and 2 shall have both a compost filter sock trap and a layer of thirty two-inch (32") compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with rip-rap aprons, temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Wetland 4 shall have a compost filter sock trap and a layer of thirty two-inch (32") compost filter sock or a layer of eighteen-inch (18") compost filter sock to prevent any sediment from reaching the wetland from the well pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- e. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- f. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- g. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- h. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- i. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- j. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- k. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- 1. All records from inspections shall be maintained on site for the life of the project and be available upon request.

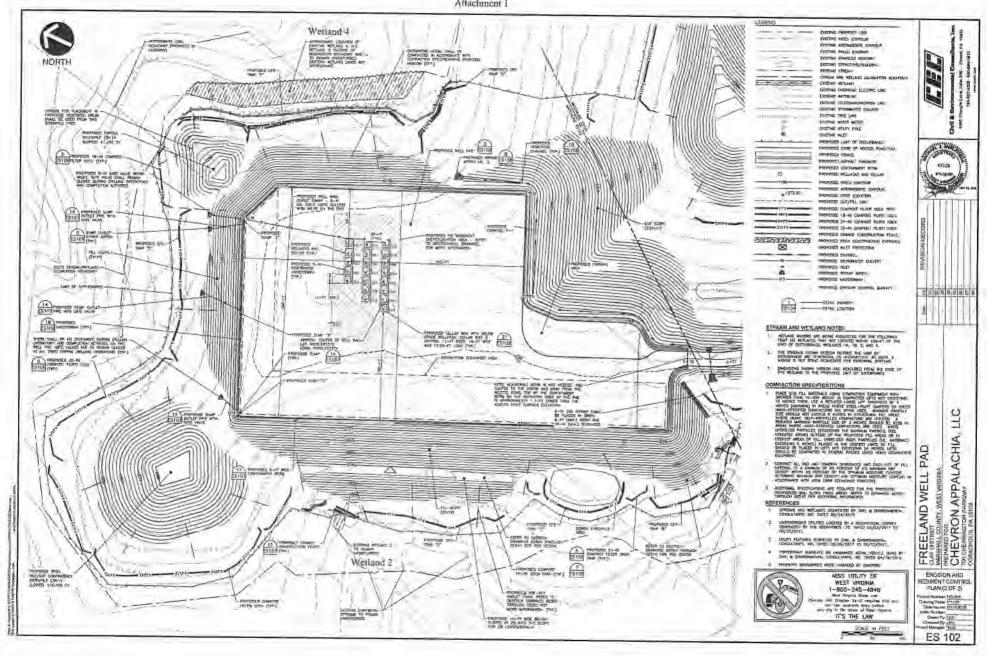
Thus ORDERED, the 24th day of February, 2019.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

Order No. 2019-W-5





WW-6B (04/15) API NO.47_ 0 5_9 0 2 1 4 6

OPERATOR WELL N@3/08/2019

Well Pad Name: Freeland

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

1) Well Operator: Chev	ron Appa	alachia, LLC	49449935	Marshall	Clay	Powhatan Point,
			Operator ID	County	District	Quadrangle
2) Operator's Well Numb	er: M04F	1	Well P	ad Name: Fre	eland	
3) Farm Name/Surface O	wner; Fr	eeland	Public Re	oad Access: C	R 21 Rober	t Ridge Road
4) Elevation, current grou	ind: 12	74' I	Elevation, propose	d post-construc	tion: 1275'	
5) Well Type (a) Gas Other	X	Oil _		derground Stor		
(b)If Gas	Shallo	-	Deep			
6) Existing Pad: Yes or N		mai 🔨			pu /2/5	1/18
7) Proposed Target Forma Marcellus, 6370' below GL, 50' thick; Pore Pre	ntion(s), D	Depth(s), Anti	cipated Thickness	and Expected	Pressure(s):	> *
8) Proposed Total Vertica	l Depth:	6,395				
9) Formation at Total Ver	tical Dept	h: Marcellu	S			
10) Proposed Total Measu	red Deptl	20,016				
11) Proposed Horizontal I	eg Lengtl	h: 11,589				
12) Approximate Fresh W	ater Strata	a Depths:	572' below GL			
13) Method to Determine 14) Approximate Saltwate					ithin 2 mile	radius
15) Approximate Coal Sea						
16) Approximate Depth to					olid coal pil	lar
17) Does Proposed well lo directly overlying or adjac	cation cor	ntain coal sea			X	
(a) If Yes, provide Mine	Info: Na	ıme:				RECEIVED.
	De	epth:				Office of Oil and Gas
	Se	am:				DEC 1 7 2018
	Ov	vner:			E	WV Department of Environmental Protection

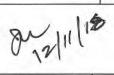
WW-6B (04/15) API NO. 47-____-OPERATOR WELL NO0 3 1 2 2 0 1 9

Well Pad Name: Freeland

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	20,016	20,016	2,670' (500' below 9.625" shoe)
Tubing							
Liners							



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

PACKERS

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Office of Oil and Gas

DEC 1 7 2018
WV Department of Environmental Projection
Environmental Protection

API NO. 44-7 0 5 1 0 2 1 4 6

OPERATOR WELL NO03/98/2019
Well Pad Name: Freeland

81/2/18

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

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DEC 1 7 2018

*Note: Attach additional sheets as needed.

Cement Additives

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

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

The Production cement will have a lead and tail cement.

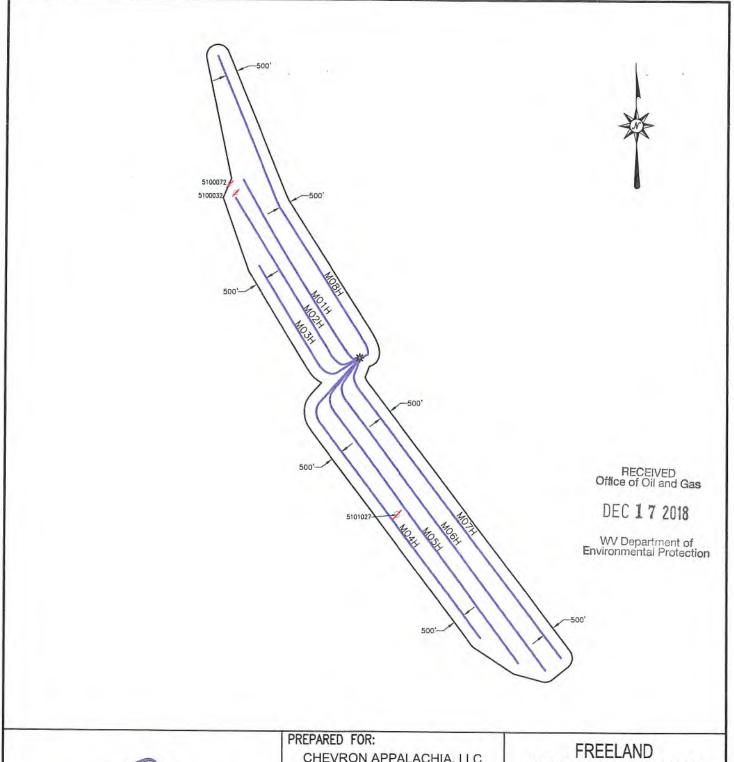
The lead will contain class A, G, or H cement, KCI, dispersant, suspension agent, and retarder.

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 17 2018

				F	eland M04H	-	
y Twp, Marshall Co	, wv					Ground Level Elev. (ft above SL):	1,274
DRILLING FLUID /	CENTRALIZER	CASING SIZE /	DE	PTH	LHEAD DESIGN HOLE	CACING	actions.
BIT TYPE / TFA	PROGRAM	FORMATION	MD (FT)	TVD (FT)	SIZE (IN)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger	2 Bowspring per Jr		-	1	NC AZM	Conductor 20" API 5L	Grout to Surface
		20" Conductor	65	65	30	Minimum 40 ft from GL or at le	ast 10 ft into bedrock
	Bow Spring: (1) on ahoe track w/ stop collar & (1) per it over coupling to auriace					Surface Casing 13-9/8" 64.5# J-55 BTC 0.380" Wall Coupling OD (in) 14 375 10 (in) 12 615 Drift IO (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (pt Strength 1,000 lts) 853	Surface Blend (Class A) Cement to Surface
		13-3/6" Casing	622	622	17.5	Minimum 50 ft past deepest	known fresh water
	Bow Spring: (1) on shoe track will stop collar & (1) per 3 its over coupling					Intermediate Casing 9-5/8* 409 L-80 BTC 0.395* Wall Coupling OD (in) 10.625 10 (in) 8 835 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,080 Yield (JI Strength 1,000 lbs) 916	Intermediate II Blend (Class I Cement to Surface
	La IV	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 cog to KOP					Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Vietd (Jt Strength 1,000 lbs) 729	Production Lead Sturry Cement to 500' below 9-5/8" sh
						RECEIVED Office of Oil and Gas DEC 1 7 2018 WV Department of Environmental Protection	Production Tail Slurry
	Float Equip. Float Equip.	5-1/2* Casing	20,016		8.75 - 8.5	m/2/2/1	TOC minimum 200' above Marce





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

LEGEND

PLUGGED WELL

ABANDON WELL

FREELAND AREA OF REVIEW MAP MARSHALL COUNTY CLAY DISTRICT WEST VIRGINIA

TOPO QUAD: POWHATAN POINT, WV

SCALE: 1" = 4000'

DATE: SEPTEMBER 7, 2018

47-051-00072 Wasmuth-Callahan Gas Co. Operator Unknown ABANDONED 39.887867 -80.781834 N/A N/	Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-00032 R E McDowdell Operator Unknown ABANDONED 39.886851 -80.780892 N/A N/A None 47-051-01027 CNX Gas Company CNX Gas Company			Operator Unknown	ABANDONED	39.887867	-80.781834	N/A	N/A	The second secon
147-051-01027 ICNX Gas Company ICNX Gas			Operator Unknown	ABANDONED	39.886851	-80.780892	N/A	N/A	
	47-051-01027	CNX Gas Company	CNX Gas Company LLC	ABANDONED	39.849249	-80.75489	N/A	N/A	None

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47 0 5 * 0 2 1 4 6 03/08/2019

Commission number 1285773

Member, Pennsylvania Association of Notaries

API Number 47 -

Operator's Well No. MO4H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code	49449935
Watershed (HUC 10) Short Creek - Ohio River Quadrangle Powhatan P	No. of the second
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what ml	
Proposed Disposal Method For Treated Pit Wastes:	RECEIVED Office of Oil and Gas
Land Application Underground Injection (UIC Permit Number	DEC 1 7 2018
Reuse (at API Number at next anticipated well	
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	WV Department of Environmental Protection
Will closed loop system be used? If so, describe: Yes, we will be utilizing multiple open/closed	top tanks
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based,	, etc. Air to KOP & Oil from KOP to TMD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological control	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Short Creek Landfill/SWF-1034/WV0109517 and	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection ar where it was properly disposed.	or associated waste rejected at any and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL Won August I, 2005, by the Office of Oil and Gas of the West Virginia Department of Environm provisions of the permit are enforceable by law. Violations of any term or condition of the law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar was application form and all attachments thereto and that, based on my inquiry of those incontaining the information, I believe that the information is true, accurate, and complete, penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Permitting Team Lead	nental Protection. I understand that the general permit and/or other applicable with the information submitted on this dividuals immediately responsible for I am aware that there are significant
Subscribed and sworn before me this 24th day of September, Note	20 18 Commonwealth of Pennsylvania ary Public
My commission expires September 17, 2022	Commonwealth of Pennsylvania - Notary Sea Laura Savage, Notary Public Allegheny County My commission expires Sentember 17, 2022

Operator's Well No. MO4H

03/08/2019

Chevron Appalachia, LLC Proposed Revegetation Treatment: Acres Disturbed 18.8 Prevegetation pH 6.5-7.0 Lime 3 tons/acre Tons/acre or to correct to pH 10-20-20 or as directed by soil test Fertilizer type Fertilizer amount 300#/acre or as directed by soil test lbs/acre 3 tons/acre or 5 tons/acre for winter stabilization Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Annual Ryegrass - 50 See Attached Winter Wheat - 75 Cereal Ryegrass - 50 Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Fin Unles Plan Approved by: Comments: RECEIVED Office of Oil and Gas DEC 17 2018 WV Department of Environmental Protection Field Reviewed?

Seed Mixtures

Permanen+

d Type	3ton/ac	lbs/acre
lural Upland		6000 and
	57%	57% 3420.00
/egrass	19%	649.80
er	10%	64.98
refoil	10%	6.50
	4%	0.26

Ladino Clover
Birdsfoot - Trefoil
Timothy
Orchard Grass
Hayfield, Pastureland, and Cropland
Seed Type
Permanent

1	10%	10%	40%	40%		
	9.60	96.00	960.00	2400.00	6000	lbs/acre

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Chevron

Appalachian LLC
WV Well Site Safety Plan

Pad: Freeland Pad A Well # M04H

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

Access Point – [39.865278°N, 80.758511°W] Well Site – [39.867578°N, 80.761275°W] Marshall County, West Virginia

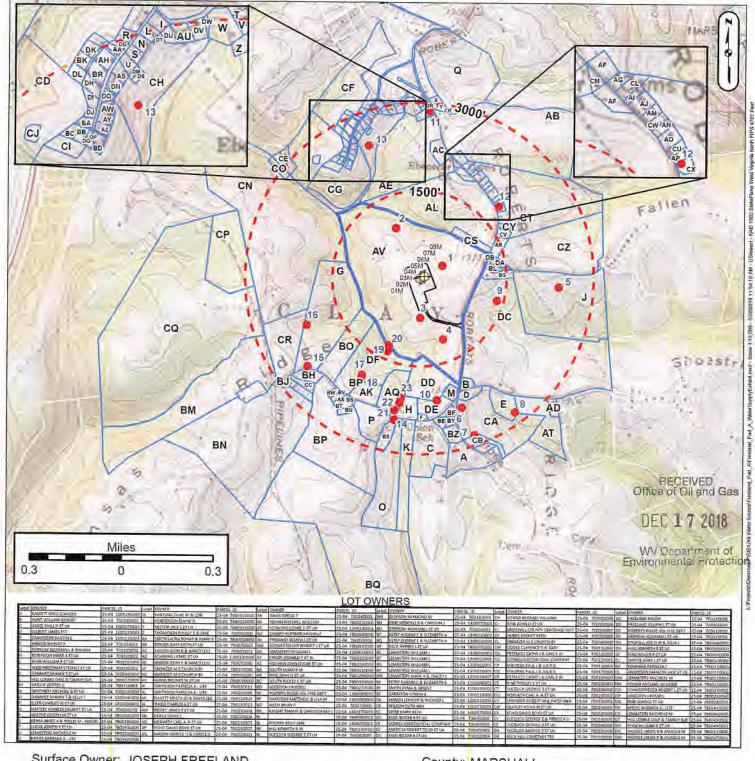
> RECEIVED Office of Oil and Gas

DEC 1 7 2018



WATER SUPPLY EXHIBIT 47 0 5 1 0 2 103/08/2019 FREELAND PAD A





Surface Owner: JOSEPH FREELAND

Oil/Gas Owner: JOSEPH FREELAND

Well Operator: CHEVRON APPALACHIA, LLC

Address: 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Phone: 724-564-3700

County: MARSHALL

Township: MOUNDSVILLE, WV

GROUNDWATER & ENVIRONMENTAL

Surveyor: SERVICES, INC.

Address: 301 COMMERCE PARK DR

CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549

BHL is located on topo map 14,620 feet south of Latitude: 39 52 30 SHL is located on topo map 2,715 feet south of Latitude: 39 52 30 7

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	4-7/32.1
3	NORMAN L. DERROW ET UX	4-7/32
4	EUGENE C. & ELIZABETH A. ESTEP	4-13/1
5	EUGENE C. & ELIZABETH A. ESTEP	4-13/2
6	SHAWN T. & KELLY J. DANAHEY	4-13/4
7	*SHAWN T. DANAHEY ET UX	4-13/4.2
8	LARRY & CATHERINE FOSTER	4-13/5.9
9	LAKEN H. DRAKE	4-13/5.8
10	DONALD WAYT	5-3/2
11	RALPH & ELLA BEA CHAPLIN	5-3/2.1
12	DONALD WAYT	5-3/3
13	RALPH A. & ELLA BEA CHAPLIN	5-3/32
	RICHARD & HEATHER L, ROBINSON	5-3/4.3
15	AV LAUTTAMUS COMMUNICATIONS INC	5-3/4.2
16	MARSHALL COUNTY PUB SER DIST	5-3/4.1
17	EDUCATIONAL MEDIA FOUNDATION	5-3/4.4
18	TELESPECTRUM INC DBA 360	5-3/4.5
19		5-3/4
20	DENNIS LEE WARD ET UX	5-3/32.5
21	DENNIS L. & TERRI JO WARD	5-3/32.7
22	PAUL M. & BRENDA E. RINE	5-3/32.6
23	DALLAS PAUL RINE	5-3/32.12
24	RALPH A. & ELLA BEA CHAPLIN	5-3/32.1
25	JEFFREY A. SZAFRAN	5-3/6
26	THOMAS MONTI ET AL	5-3/9
27	SIDNEY L. & FREDA JONES	5-3/25
28	RALPH ALLEN & ROBIN HOLMES	5-3/11
29	RALPH ALLEN & ROBIN HOLMES	5-3/12
30	RALPH A. & ROBIN R. HOLMES	5-3/24
31	CNX LAND RESOURCES INC	5-3/23

located on top map 9,353 feet west of Longitude: located on top map 3,291 feet west of Longitude: 03/08/2

울 물

S. S.

80° 42' 30"





SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413091.57
E:520427.94

N:500615.656 E:1614521.989 APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4412230.48
E:519918.92

NAD83, WV NORTH N:497817.922 E:1612804.401 BOTTOM HOLE LOCATION (BHL)

UTM 17—NADB3(M)
N:4409461.05
E:522109.57

NADB3, WV NORTH
N:488609.886
E:1619841.172

FILE #:	FREELAND MO4H
DRAWING #:	FREELAND MO4H
SCALE:	1" = 2000'
MINIMUM DE	GREE
OF ACCURAC	Y: 1/2500
PROVEN SOU OF ELEVATIO	IISGS MONIMENT
(+) DENOTES	LOCATION OF WELL ON
E-12 (Marie 1992)	TES TOPOGRAPHIC MAPS
WVDEP	

I. THE UNDERSI	GNED, HEREBY CERTIFY THAT THIS
	E BEST OF MY KNOWLEDGE AND
	THE INFORMATION REQUIRED BY
	ONS ISSUED AND PRESCRIBED BY
	NVIRONMENTAL PROTECTION.
M	0%
Signed:	race Kladine
7	and and
R.P.E.:	L.L.S.: P.S. No. 2000
100.000	

No. 2000
STATE OF
STA

OF ELEVATION: THOMAS 1498.81'	R.P.E.:	L.L.S.: P.S.	No. 2000	_ PLACE S	SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 501 57TH STREET CHARLESTON, WV 25304		DATE: OPERATOR'S API WELL #:	47	FREELAND	MO4H
Well Type: Oil Waste Disposal	X Production Deep	X Gas Liqui	d Injection	Storage	X Shallow
WATERSHED: SHORT CREEK-OHIO RIVER		ELEVA	TION:	1274.00'	
COUNTY/DISTRICT: MARSHALL / CL	AY	QUADRANGLE:	POWHATA	AN POINT, WV 7.5'	
SURFACE OWNER: JOSEPH L. FREEL	AND ET UX		ACREAGE	E:104.22±	
OIL & GAS ROYALTY OWNER: JOSEPH FREE	CLAND ET UX		ACREAGE	E: 674.796±	
		Company of the Section Co.	Test to		

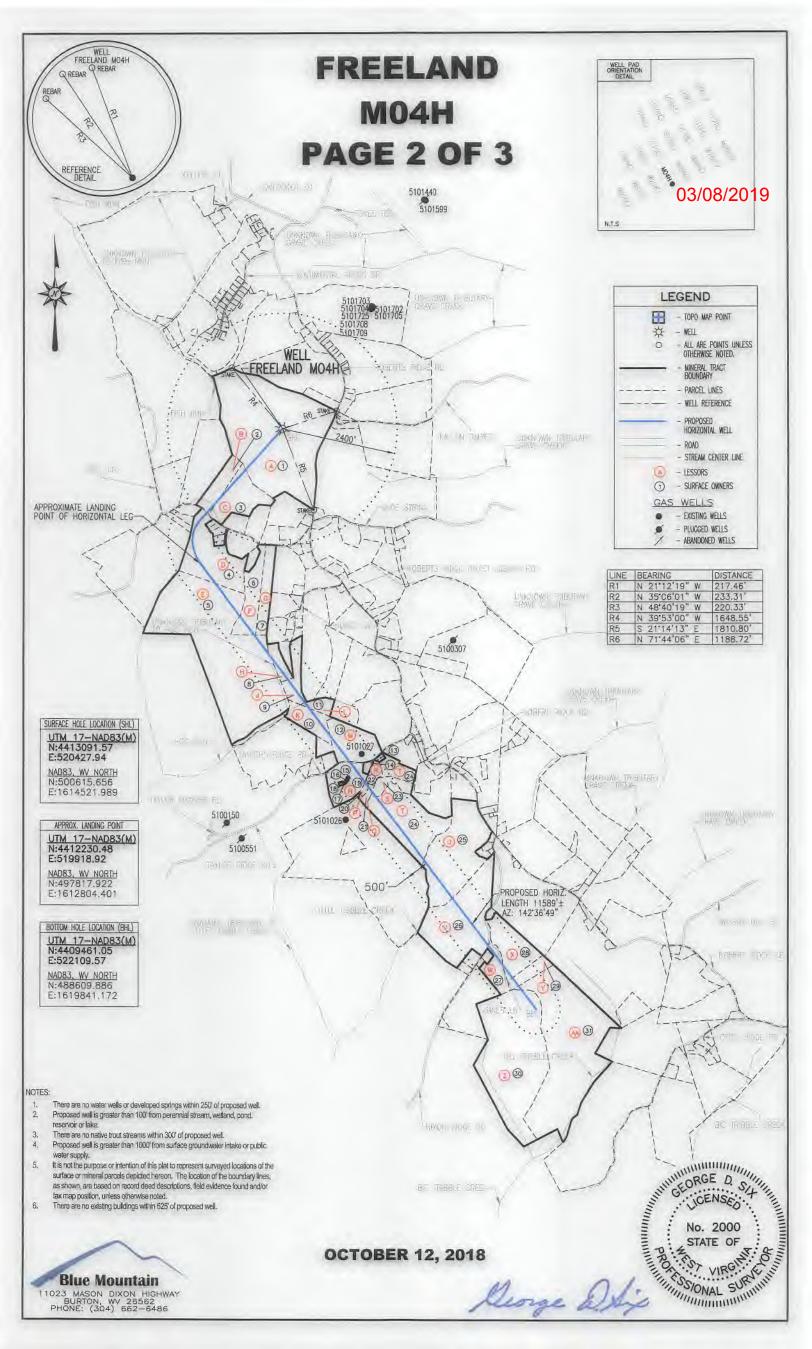
DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION CPERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,395'± TMD: 20,016.02'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY

Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600

City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202



FREELAND M04H PAGE 3 OF 3

03/08/2019

	LESSOR	DIST-TM/PAR
Α	JOSEPH FREELAND ET UX	4-7/21
В	NORMAN L. DERROW ET UX	4-7/32.1
C	NORMAN L. DERROW ET UX	4-7/32
D	EUGENE C. ESTEP ET UX	4-13/1
E	EUGENE C. ESTEP ET UX	4-13/2
F	SHAWN T. DANAHEY ET UX	4-13/4
G	*SHAWN T. DANAHEY ET UX	4-13/4.2
Н	LARRY H. FOSTER ET UX	4-13/5.9
J	STANLEY W. HUNT	
_		4-13/5.8
K	DONALD WAYT	5-3/2
L	JAMES R. CHAPLIN	5-3/2.1
M	DONALD WAYT	5-3/3
N	JAMES R. CHAPLIN	5-3/4
P	DENNIS L. WARD ET UX	5-3/32.5
Q	DENNIS L. WARD ET UX	5-3/32.7
R	PAUL M. RINE ET UX	5-3/32.6
S	AMP FUND II GP LLC	5-3/32.12
T	AMP FUND II GP LLC	5-3/32.1
U	CHARLOTTE S. SZAFRAN	5-3/6
	JEFFREY A. SZAFRAN	5 5/6
	JEFFREY D. ROBINSON UX	
	RANDY D. ROBINSON	
	MARK A. ROBINSON	
	BRIAN FURBEE	
	GREGORY D. FURBEE	
	MARSHA A. SINGER	
	EDMOND J. FURBEE	
	CHRISTOPHER G. FURBEE	
	MATTHEW R. FURBEE	
	MAUREEN C. COOPER	
	REXENA A. CUNNINGHAM	
	RICHARD CECIL ET UX	
	SHERRY L. MORRIS	
	WILLIAM R. POLEN	
	DEBBIE MAE MOORE	
	ETHEL E. STARKEY AKA ETHEL ELAINE STARKEY	
	CALLENE M. PETERSON FKA CALLENE M. STARKEY	
	REBECCA JEAN BROWN	
	PAULA J. ROHRER	
	MARLA K. STRUHAR	
	SARAH SISLEY FKA SARAH SALSBERRY ET VIR	
	CARALOTTA J. GIBSON FKA CARALOTTA SALSBERRY	
	JOHN M. SALSBERRY BY JASON L. JACKSON GUARDIAN	
	DELLA J. COVERDALE ET UX	
	TRACY M. SALSBERRY AKA TRACY SALSBERRY	
	GINGER L. SALSBERRY AKA GINGER SALSBERRY	
	DALE A. SALSBERRY AKA DALE ADORIN SALSBERRY	
	JODIE R. MORRIS FKA JODIE SALSBERRY	
	BARBARA L. MCGAHA	
	ELAINE M. KEENER	
	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	1
	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	
V	STEPHEN M. THOMAS ET UX	5-3/9
	R. STEPHEN THOMAS ET UX	
	JOHN RESSEGER	
	LAURA VIRGINIA RESSEGER	
	WILLIAM ELMER RESSEGER	1
A/		5_3/05
W	SIDNEY L. JONES	5-3/25
X	RALPH ALLEN HOLMES	5-3/11
Υ	RALPH ALLEN HOLMES	5-3/12
Z	MASTER MINERAL HOLDINGS I LP - TOP LSE	5-3/24
AA	LARRY E. HILL	5-3/23

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4413091.57
E:520427.94

NAD83, WV NORTH N:500615.656 E:1614521.989 APPROX. LANDING POINT
UTM 17-NAD83(M)
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E:519918.92

NAD83, W NORTH N:497817.922 E:1612804.401 BOTTOM HOLE LOCATION (BHL)

UTM 17—NAD83(M)
N:4409461.05
E:522109.57

NAD83, W NORTH
N:488609.886
E:1619841.172

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



WW-6A1 (5/13) Operator's Well No. M045 1 0 2 1 4 6 6

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, 1 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
	The second second second	

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

Office of Oil and Gas

DEC 1 7 2018

WV Department of Environmental Protection

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

Well Operator: Chevron Appalachia, LLC

By:

Jenny Butchko

Its:

Permitting Team Lead

RECEIVED Office of Oil and Gas

Freeland Unit #4H - BATCH 1 - MRCL FULL

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	4-7-32.1	DERROW NORMAN LET UX	Chevron U.S.A. Inc.	0.18	852/409	n/a	n/a	n/a
С	4-7-32	DERROW NORMAN LET UX	Chevron U.S.A. Inc.	0.18	852/409	n/a	n/a	n/a
D	4-13-1	ESTEP EUGENE C ET UX	Chevron U.S.A. Inc.	0.18	861/613	n/a	n/a	n/a
E	4-13-2	ESTEP EUGENE C ET UX	Chevron U.S.A. Inc.	0.18	861/613	n/a	n/a	n/a
F	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
G	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
Н	4-13-5.9	FOSTER LARRY H ET UX	Chesapeake Appalachia, LLC	0.17	701/382	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
J	4-13-5.8	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.
К	5-3-2	DONALD WAYT	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
L	5-3-2.1	CHAPLIN JAMES R	Chevron U.S.A. Inc.	0.15	876/271	n/a	n/a	n/a
М	5-3-3	DONALD WAYT	Noble Energy, Inc.	0.16	796/127	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577	
N	5-3-4	JAMES R CHAPLIN	Noble Energy, Inc.	0.18	805/573	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 #4H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
Р	5-3-32.5	WARD DENNIS LET UX	TriEnergy Holdings, LLC	0.16	740/21	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
Q	5-3-32.7	WARD DENNIS L ET UX	TriEnergy Holdings, LLC	0.16	740/21	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
R	5-3-32.6	RINE PAUL M ET UX	Chevron U.S.A. Inc.	0.15	920/598	n/a	n/a	n/a
S	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
Т	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
		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
	E .	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 3 - SFX	Chevron U.S.A. Inc.	0.180	926/68	n/a	n/a	n/a
		FURBEE CHRISTOPHER G - SFX	Chevron U.S.A. Inc.	0.180	873/613	n/a	n/a	n/a
		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 Chevron U.S.A. Ir
		CUNNINGHAM REXENA A - SFX	Chevron U.S.A. Inc.	0.180	873/610	n/a	n/a	n/a

Freeland Unit #4H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		CECIL RICHARD ET UX - SFX	Chevron U.S.A. Inc.	0.180	871/132	n/a	n/a	n/a
		MORRIS SHERRY L - SFX	Chevron U.S.A. Inc.	0.160	929/526	n/a	n/a	n/a
		POLEN WILLIAM R - SFX	Chevron U.S.A. Inc.	0.160	880/419	n/a	n/a	n/a
		MOORE DEBBIE MAE - SFX	Chesapeake Appalachia, LLC	0.125	690/564	24/338 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
		STARKEY ETHEL E AKA STARKEY ETHEL ELAINE - SFX	Chevron U.S.A. Inc.	0.180	871/152	n/a	n/a	n/a
		PETERSON CALLENE M FKA STARKEY CALLENE M - SFX	Chevron U.S.A. Inc.	0.180	871/114	n/a	n/a	n/a
		BROWN REBECCA JEAN - SFX	Chevron U.S.A. Inc.	0.180	873/309	n/a	n/a	n/a
	I .	ROHRER PAULA J - SFX	Chevron U.S.A. Inc.	0.180	873/312	n/a	n/a	n/a
U	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
	ļ	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
	i	KEENER ELAINE M - SFX	Chevron U.S.A. Inc.	0.180	872/101	n/a	n/a	n/a
		RISHER SHERRY KAY - SFX	Chevron U.S.A. Inc.	0.160	803/562	n/a	n/a	n/a
		KNAPSKI SANDRA LEE - SFX	Chevron U.S.A. Inc.	0.180	873/315	n/a	n/a	n/a
		STARKEY BRENT LEE - SFX	Chevron U.S.A. Inc.	0.180	873/318	n/a	n/a	n/a

RECEIVED Office of Oil and Gas

Freelan	ıd Unit #4H -	BATCH 1 -	MRCL FULL
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WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		STARKEY FORREST ET UX - SFX	Chevron U.5.A. Inc.	0.180	872/154	n/a	n/a	n/a
	İ	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 - 5FX	Chevron U.S.A. Inc.	0.180	872/157	n/a	n/a	n/a
		ALBERT CAROL JEAN MALILKA - SFX	Chevron U.S.A. Inc.	0.180	893/268	n/a	n/a	n/a
	}	SCHARTIGER SHARON L - SFX	Chevron U.S.A. Inc.	0.180	893/205	n/a	n/a	n/a
		SHADDICK JANET - SFX	Chevron U.S.A. Inc.	0.180	893/271	n/a	n/a	n/a
		STARKEY DUANE M ET UX - SFX	Chevron U.S.A. Inc.	0.180	893/265	n/a	n/a	n/a
		ST GEORGE REGINA KAY ET VIR - 5FX	Chevron U.S.A. Inc.	0.180	872/104	n/a	n/a	n/a
		STARKEY BETTY LOU - SFX	Chevron U.S.A. Inc.	0.180	872/107	n/a	n/a	n/a
		MADRID PATTIE S FKA SPEAR PATTIE S - SFX	Chevron U.S.A. Inc.	0.180	871/120	n/a	n/a	n/a
		THOMAS STEPHEN M ET UX - SFX	TriEnergy Holdings, LLC	0.180	704/374	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
V		THOMAS R STEPHEN ET UX - SFX	TriEnergy Holdings, LLC	0.180	704/376	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		RESSEGER JOHN - 5FX	Chevron U.S.A. Inc.	0.160	891/78	n/a	n/a	n/a
		RESSEGER LAURA VIRGINIA - SFX	Chevron U.S.A. Inc.	0.160	893/183	n/a	n/a	n/a
		RESSEGER WILLIAM ELMER - SFX	Chevron U.S.A. Inc.	0.160	893/186	n/a	n/a	n/a
W	5-3-25	SIDNEY L JONES	Nobie Energy, Inc.	0.125	808/378	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
Х	5-3-11	HOLMES RALPH ALLEN - SFX	Chevron U.S.A. Inc.	0.180	914/566	n/a	n/a	n/a
Υ	5-3-12	HOLMES RALPH ALLEN - SFX	Chevron U.S.A. Inc.	0.180	914/566	n/a	n/a	n/a
Z	5-3-24	MASTER MINERAL HOLDINGS LP - TOP LSE	Chevron U.S.A. Inc.	0.160	916/475	n/a	n/a	n/a
AA	5-3-23	HILL LARRY E	Chevron U.S.A. Inc.	0.150	911/588	n/a	n/a	
				1.8		<u> </u>	<u> </u>	



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

47051002/9842619

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

Minlio

Date of Noti	ce Certification: 10/13/18	AI	API No. 47 Operator's Well No. M04H Well Pad Name: Freeland				
	·	Op					
.		\mathbf{W}_{0}					
Notice has	been given:						
Pursuant to the	ne provisions in West Virginia Code	§ 22-6A, the Operator has provide	d the rec	quired parties v	with the Notice Forms listed		
State:	tract of land as follows:						
	West Virginia	LI I IVI IVALIAN	sting:	520427.94			
County:	Marshall	NC	rthing:	4413091.57			
District:	Clay	Public Road Access:		CR 21 Robert Ri	dge Road		
Quadrangle:	Powhatan Point, WV 7.5'	Generally used farm	name:	Freeland			
Watershed:	Short Creek - Ohio River						
information respectively information represents the contract of the contract o	the secretary, shall be verified and ed the owners of the surface descrequired by subsections (b) and (c), surface owner notice of entry to sof subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applica	nection sixteen of this article; (ii) the urvey pursuant to subsection (a), of this article were waived in writtender proof of and certify to the s	(4), subsat the receive the section to the section	ection (b), sequirement was en of this arti	ction ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice where and Pursuant to West		
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the requireCK ALL THAT APPLY	perator has attached proof to this led parties with the following:	Notice C	ertification	OOG OFFICE USE ONLY		
☐ 1. NOT	TICE OF SEISMIC ACTIVITY 01	NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO			RECEIVED/ NOT REQUIRED		
☐ 2. NOT	TICE OF ENTRY FOR PLAT SUR	VEY or \(\square\) NO PLAT SURVEY	WAS CO	NDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLA WAS CONDUCTED or			RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFAC	CE OWNER			
■ 4. NOT	TICE OF PLANNED OPERATION		_	ļ	RECEIVED		
■ 5. PUB	LIC NOTICE	RE Office of	CEIVED Oil and	Gas	RECEIVED		
■ 6. NOT	TICE OF APPLICATION	DEC :	17 201	8	Z RECEIVED		
		WV Der	oartment	of			
		Environme	nial Profe	ection			

Required Attachments:

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

Certification of Notice is hereby given:

4705102146

	I Jenny Butchko , h	ave read and under	rstand	the notice requirements within '	West Virginia Code § 22-
6A. I certify th	at as required under West Virginia	Code § 22-6A, I h	ave se	rved the attached copies of the	Notice Forms, identified
above, to the re	equired parties through personal ser	vice, by registered	mail	or by any method of delivery	that requires a receipt or
signature confir	mation. I certify under penalty of la	w that I have perso	nally e	examined and am familiar with	the information submitted
in this Notice	Certification and all attachments,	and that based on	my ir	aguiry of those individuals imp	nediately responsible for
obtaining the in	formation I baliage that the informe	tion is twee accuse	1	and the first the second of the second	e are significant negalties
for submitting f	alse information, including the possi	bility of fine and in	npriso	nment.	2 significant penantes
	3 (1)	s van S. Van endersten de Su		Tenney	Outth
Well Operator:	Chevron Appalachia, LLC	Addre	ess:	700 Cherrington Parkway	
By:	Jenny Butchko			Coraopolis, PA 15108	
Its:	Permitting Team Lead	Facsir	mile:	412-865-2403	
Telephone:	412-865-1533	Email	l:	JZYK@chevron.com	
		Cowww.un.use	.140	of Sennsylvania	
		County of	FAU	echeny - 1	
NOTARY SEAL Sub			d swoi	egheny rn before me this 24 thay of _	September 2018
Commonwealth of Pennsylvania - Notary Seal				1	
Laura Savage, Notary Public Allegheny County			mur	asavage	Notary Public
My commission expires September 17, 2022		100000000000000000000000000000000000000			
		My Commissi	ion Ex	pires_ September	17,2622
Member, F	Pennsylvania Association of Notaries	23			

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.

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DEC 1 7 2018

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

Not	ice Time Requirem	ent: notice shall be prov	ided no later th	an the filing date of permit application.	
	e of Notice/1/15// ice of:	ate Permit Applica	ation Filed: <u>/</u>	2/14/18	
V	PERMIT FOR AN WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virginia C	ode § 22-6A-10	0(b)	
3	PERSONAL SERVICE	REGISTERED MAIL		IOD OF DELIVERY THAT REQUIRES A CIPT OR SIGNATURE CONFIRMATION	
he soil a he soil a poil a lescopper more well mporove prov prov prov prov prov prov prov prov	ment control plan requarrace of the tract on and gas leasehold being ribed in the erosion a rator or lessee, in the decoal seams; (4) The work, if the surface to work, if the surface to a water well, spring ride water for consumposed well work activities of the sheriff requision of this article to the R. § 35-8-5.7, a requarrace of the sheriff requision of this article to the R. § 35-8-5.7, a requarrace of the sheriff requision of this article to the sheriff requision of the sheriff requision of this article to the sheriff requision of the sheriff requision of this article to the sheriff requision of the sheriff requision of this article to the sheriff requision of the sheriff requi	uired by section seven of which the well is or is progressive developed by the proposed sediment control planewent the tract of land on owners of record of the stract is to be used for the pscribed in section nine of or water supply source loption by humans or dometry is to take place. (c)(1) ion hold interests in the latited to be maintained put the contrary, notice to a uires, in part, that the open	this article, and oposed to be locused well work, is submitted pursu which the well purface tract or trollacement, constitution in this article; (5) acated within one estic animals; and If more than threands, the application is a submitted in the contract of the policy of the purpose of the	or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The tated; (2) The owners of record of the surface tract or of the surface tract is to be used for roads or other land and to subsection (c), section seven of this article; (3) proposed to be drilled is located [sic] is known to be to acts overlying the oil and gas leasehold being develor ruction, enlargement, alteration, repair, removal or all Any surface owner or water purveyor who is known to thousand five hundred feet of the center of the well of (6) The operator of any natural gas storage field with the etenants in common or other co-owners of interests and may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) In the total confidence of the Well Site Safety Plan ("WSSP") to the surface as provided in section 15 of this rule.	e owners of record of tracts overlying the disturbance as The coal owner, underlain by one or ped by the proposed condonment of any of the applicant to pad which is used to hin which the described in described in the lotwithstanding any andowner, W. Va.
			&S Plan Notice	e ☑ Well Plat Notice is hereby provided to:	
_	JRFACE OWNER(s ne: Joseph L. Freeland and	1		COAL OWNER OR LESSEE Name: Consol Mining Company, LLC	
	ress; 813 Clearview Terra		-	Address: 1000 Consot Energy Drive	-
	Martinsville, WV 26155		_	Canonsburg, PA 15317	-
-	ne: Joseph L. Freeland	7	-	COAL QPERATOR	_
	ress: 813 Clearview Terra	//		Name: Myrray Energy Corp.	
	Martinsville, WV 260155		-	Address: 46226 National Road	-
		(Road and/or Other D	isturbanca)	St. Clairsville, OH 43950	-
				SURFACE OWNER OF WATER WELL	-
Add	TACC!		-3	AND/OR WATER PURVEYOR(s)	
ruu					
Jan				Name: See Attachment	-
144	reco-		-	Address:	-
Luci	1699+		-	OPERATOR OF ANY NATURAL GAS STO	DAGE FIELD
TOT	IREACE OWNIED.	(Impoundments or Pits	2)	그는 프로그램 경기 시간을 받는 이번에 이렇게 되었다. 사람이 되었다면 하지만 하지만 하게 되었다면 하다 하는데 되었다.	
Van	ne:		_	Name: Address:	
Add	ress:		_		
-			-1	*Please attach additional forms if necessary	Office of Oil and Gas

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DEC 1 7 2018

WV Department of Environmental Protection API NO. 47-____OPERATOR WELL NO. 03/08/2019
Well Pad Name: Freeland

4705102146

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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4705102146

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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Office of Oil and Gas

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WV Department of Environmental Protection

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

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API NO. 47-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.

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WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. M04H 3/08/2019

Well Pad Name: Freeland

September 17 2022

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC

Telephone: 412-865-1533 Email: JZYK@chevron.com Coraopolis, PA 15108
Facsimile: 412-865-2403

Address: 700 Cherrington Parkway

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.

My Commission Expires

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

Member, Pennsylvania Association of Notaries

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

Notary Public

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Attachment to WW-6A

4705102146

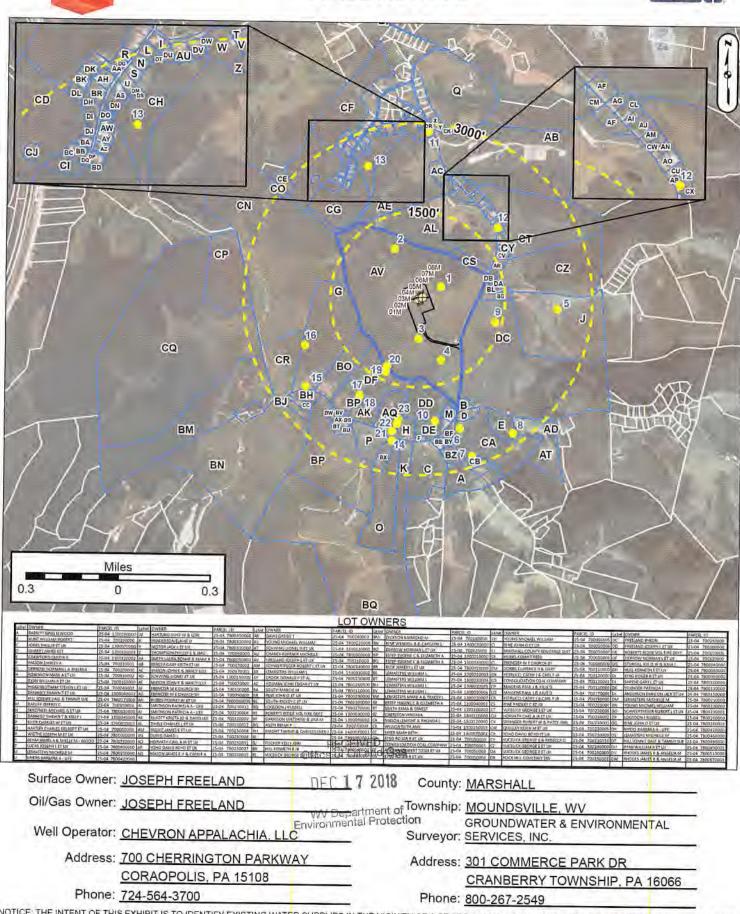
	API No. 47
	OPERATOR WELL NO. <u>M04H</u>
	Well Pad Name: Freeland
	SURFACE OWNER
	Name:
	Address:
	COAL OWNER OR LESSEE
	Name:
	Address:
	COAL OPERATOR
	Name:
	Address:
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Joseph L. Freeland ET UX
	Address: 813 Clearview Terrace /
	New Martinsville, WV 26155
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Cathy J. and Carl F Petrucci, Jr. /
	Address: 863 Petrucci Lane
	Moundsville, WV 26041
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name: Norman L. Derrow, ET UX
	Address: 97 Old Homestead Lane
	Moundsville, WV 26041
	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name:
	Address:
	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
	Name:
	Address:

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WATER SUPPLY EXHIBIT FREELAND PAD A

4705102 (3408)2019





Water Supply Exhibit Freeland Pad



No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	FREELAND JOSEPH L ET UX	Spring	1207	3599 ROBERTS RIDGE	304-771-3000
2	FREELAND JOSEPH L ET UX	Spring	1140	3599 ROBERTS RIDGE	304-771-3000
3	FREELAND JOSEPH L ET UX	Spring	1239	3599 ROBERTS RIDGE	304-771-3000
4	FREELAND JOSEPH L ET UX	Spring	1216	3599 ROBERTS RIDGE	304-771-3000
5	HIGGINBOTHAM STEVEN LET UX	Spring	1164	211 FALLEN TIMBER LANE	304-845-5357
6	MASON LEMONT & RHONDA L	Pond	1326	4274 ROBERTS RDGE ROAD	304-845-9182 / 304-559-5535 / 304-639-533
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

RECEIVED Office of Oil and Gas

DEC 1 7 2018



Water Supply Exhibit Freeland Pad

4705102146

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

No.	SUPPLY COORDINATES	01M	02M	03M	04M	05M	06M	07M	08M
16	39°51'54.98280000"N 80°46' 05.36880000"W	2,097	2,202	2,144	2,131	2,114	2.162	2,177	2,189
17	39°51'46'.75680000"N 80°45'52.92720000"W	1,920	2,006	1,957	1,946	1,933	1,973	1,985	1,995
18	39°51'46'.49400000"N 80°45'53.03520000"W	1,947	2,033	1,984	1,974	1,960	2,000	2,012	2,022
19	39°51'50.80680000"N 80°45'47.37960000"W	1,360	1,439	1,394	1,384	1.372	1,408	1,419	1,429
20	39°51'51.82200000"N 80°45'47.13120000"W	1,258	1,338	1,292	1,282	1.270	1.307	1.318	1,327
21	39°51'40.91760000"N 80°45'45.67680000"W	2,290	2,351	2,315	2,308	2,299	2,327	2,336	2.343
22	39°51'42.18120000"N 80°45'44.55000000"W	2,150	2,208	2,174	2.167	2.158	2,186	2,194	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

RECEIVED Office of Oil and Gas

47051023/08/2019

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

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

Date of Noti	Requirement: Notice shall be provided: Date	e Permit Application Filed:	16
Delivery me	ethod pursuant to West Virginia Coo	le § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIV		REQUESTED	
drilling a hor of this subsection m	rizontal well: <i>Provided</i> , That notice gotion as of the date the notice was propagable waived in writing by the surface	e owner notice of its intent to enter upon given pursuant to subsection (a), section wided to the surface owner: <i>Provided, ha</i>	a, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements owever. That the notice requirements of this clude the name, address, telephone number, tor's authorized representative.
Notice is he	ereby provided to the SURFACE	OWNER(s):	
	L. Freeland and Debra J. Freeland	Name: Joseph L. Freeland	
Address: 813 New Martinsville	Clearview Terrace	Address: 813 Clearview Te	rrace
New Martinevilla	WV 26155		
Notice is he Pursuant to V the surface of	ereby given: West Virginia Code § 22-6A-16(b), no wner's land for the purpose of drilling	a horizontal well on the tract of land as f	follows:
Notice is he Pursuant to V	ereby given: West Virginia Code § 22-6A-16(b), no	otice is hereby given that the undersigned	d well operator has an intent to enter upon follows: 520427.94 4413091.57 CR 21 Robert Ridge Road Freeland
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	Preby given: West Virginia Code § 22-6A-16(b), no wner's land for the purpose of drilling West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained from	this notice shall include the name, add the operator and the Secretary, at the WV Department of the tract of land as from the tract of land as from the tract of land as from the undersigned Easting: Northing: Public Road Access: Generally used farm name:	ollows: 520427.94 4413091.57 CR 21 Robert Ridge Road
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor located at 601	Preby given: West Virginia Code § 22-6A-16(b), no wner's land for the purpose of drilling West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained from	this notice shall include the name, add the operator and the Secretary, at the WV Department of the tract of land as from the tract of land as from the tract of land as from the undersigned Easting: Northing: Public Road Access: Generally used farm name:	Sollows: 520427.94 4413091.57 CR 21 Robert Ridge Road Freeland Aress, telephone number, and if available, and representative. Additional information for Environmental Protection headquarters.
Notice is he 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 Well Operato	West Virginia Code § 22-6A-16(b), no wner's land for the purpose of drilling West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), mber and electronic mail address of rizontal drilling may be obtained from 1 57 th Street, SE, Charleston, WV 253	this notice shall include the name, add the operator and the Secretary, at the WV Department of the tract of land as from the tract of land as from the tract of land as from the undersigned Easting: Northing: Public Road Access: Generally used farm name:	Sollows: 520427.94 4413091.57 CR 21 Robert Ridge Road Freeland Press, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the complete of the co
Notice is he 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 Well Operato	Vest Virginia Code § 22-6A-16(b), no wner's land for the purpose of drilling West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 253 reby given by:	this notice shall include the name, add the operator and the Secretary, at the Secretary, at the WV Department of the variety of land as from the secretary, at the WV Department of the O4 (304-926-0450) or by visiting www.d	Sollows: 520427.94 4413091.57 CR 21 Robert Ridge Road Freeland Press, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the complete of the co
Notice is he 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	Preby given: West Virginia Code § 22-6A-16(b), nowner's land for the purpose of drilling West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained from 157th Street, SE, Charleston, WV 253 reby given by: Chevron Appalachia, LLC 700 Cherrington Parkway	this notice shall include the name, add the operator and the Secretary, at the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.d	Sollows: 520427.94 4413091.57 CR 21 Robert Ridge Road Freeland Press, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, and the complete of the co
Notice is he 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 Well Operato Address: Coraopolis, PA 1	Preby given: West Virginia Code § 22-6A-16(b), nowner's land for the purpose of drilling West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), nber and electronic mail address of rizontal drilling may be obtained from 157th Street, SE, Charleston, WV 253 reby given by: Chevron Appalachia, LLC 700 Cherrington Parkway	this notice shall include the name, add the operator and the Secretary, at the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.d	520427.94 4413091.57 CR 21 Robert Ridge Road Freeland Additional information of Environmental Protection headquarters, cp.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he 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 Well Operato Address:	Preby given: West Virginia Code § 22-6A-16(b), nowner's land for the purpose of drilling West Virginia Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: West Virginia Code § 22-6A-16(b), mber and electronic mail address of rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 253 Preby given by: Chevron Appalachia, LLC 700 Cherrington Parkway	this notice shall include the name, add the operator and the operator's authorize the Secretary, at the WV Department of 4 Authorized Representative Address:	520427.94 4413091.57 CR 21 Robert Ridge Road Freeland Additional information of Environmental Protection headquarters, cp.wv.gov/oil-and-gas/pages/default.aspx.

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

Office of Oil and Gas DEC 1 7 2018

STATE OF WEST VIRGINIA 470510 234084 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	ice: 11 15 1 18 Date Permit A	-ppricutton r neu	1011111	<u>\</u>
Delivery me	thod pursuant to West Virginia Code §	22-6A-16(c)	12.71.	
	IFIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY		
the planned required to b drilling of a damages to the	operation. The notice required by this see provided by subsection (b), section ten horizontal well; and (3) A proposed surhe surface affected by oil and gas operation	tace owner whose lar subsection shall inch of this article to a sur face use and comper ons to the extent the o	d will be used finde: (1) A copy face owner who sation agreemen	ication, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the it containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the address Name: Joseph	reby provided to the SURFACE OWNE is listed in the records of the sheriff at the L. Freeland and Debra J. Freeland	time of notice):	Joseph L, Freeland	
Address: 813 New Martinsville,			S: 813 Clearview Ter	racd
operation on State:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose	of drilling a horizont	al well on the tra	ct of land as follows:
	West Virginia Marshall	UTM NAD	Easting: Northing:	520427.94 4413091.57
District:	Marshall Clay	Public Road	Easting: Northing: Access:	520427.94
County: District: Quadrangle: Watershed:	Marshall	Public Road	Easting: Northing:	520427.94 4413091,57
District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r	Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: Vest Virginia Code § 22-6A-16(c), this not be dead by W. Va. Code § 22-6A-10(b) to a cll; and (3) A proposed surface use and code do by oil and gas operations to the extended at horizontal drilling may be obtail located at 601 57th Street, SE. Chari	Public Road Generally us otice shall include: (1 surface owner whose ompensation agreement the damages are coined from the Secre	Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing an ompensable und	520427.94 4413091.57 CR 21 Robert Ridge Road
District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: Vest Virginia Code § 22-6A-16(c), this noted by W. Va. Code § 22-6A-10(b) to a all; and (3) A proposed surface use and code by oil and gas operations to the extended to horizontal drilling may be obtained at 601 57th Street, SE, Charland Classes.	Public Road Generally us otice shall include: (1 surface owner whose compensation agreement the damages are comined from the Secret leston, WV 25304	Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing an ompensable und tary, at the WV (304-926-0450)	4413091.57 CR 21 Robert Ridge Road Freeland code section; (2) The information required ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-www.dep.www.dep.wv.gov/oil-and-www.dep.wv.gov/oil-and-</td></tr><tr><td>District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def</td><td>Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: Vest Virginia Code § 22-6A-16(c), this not by W. Va. Code § 22-6A-10(b) to a dlt; and (3) A proposed surface use and code by oil and gas operations to the extended to horizontal drilling may be obtail located at 601 57th Street, SE, Charlault.aspx.</td><td>Public Road Generally us otice shall include: (1 surface owner whose ompensation agreement the damages are coined from the Secre</td><td>Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing an ompensable und tary, at the WV (304-926-0450)</td><td>4413091.57 CR 21 Robert Ridge Road Freeland code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-kway
District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	Marshall Clay Powhatan Point, WV 7.5' Short Creek - Ohio River Shall Include: Vest Virginia Code § 22-6A-16(c), this noted by W. Va. Code § 22-6A-10(b) to a all; and (3) A proposed surface use and code by oil and gas operations to the extended to horizontal drilling may be obtained at 601 57th Street, SE, Charland Classes.	Public Road Generally us otice shall include: (1 surface owner whose compensation agreement the damages are comined from the Secret leston, WV 25304	Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing an ompensable und tary, at the WV (304-926-0450)	4413091.57 CR 21 Robert Ridge Road Freeland code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-kway

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.

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DEC 1 7 2018

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

4705102146 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY 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

, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated

State:	the well plat, all for propose West Virginia	UTM	NAD 83 Easting:	520427.94	
County: District:	Marshall Clay		Northing:	4413091.57	
	Powhatan Point, WV 7.5'	Public	Road Access:	CR 21 Robert Ridge Road	
Watershed:	Short Creek - Ohio River		ally used farm name:	Freeland	
riease check	the box that applies		The second secon		
Dlanca chaol	the beautiful and				
7 CIDEA			FOR EXECUT	ION BY A NATURAL PERSON	
	CE OWNER		Jan	LA MATURAL PERSON	
		Other Disturbance)	Signature: Print Name:	by Turbuch	
SURFAC	CE OWNER	nts/Pits)	Signature: Print Name: Date: // -	hof Andrela 05Fph L FIECLA 20-18	
SURFAC	CE OWNER E OWNER (Road and/or		Signature: Print Name: Date: //- FOR EXECUT Company:	IN BY A CORPORATION, ETC.	
SURFAC SURFAC COAL O	CE OWNER (Road and/or E OWNER (Impoundment WNER OR LESSEE	nts/Pits)	Signature: Print Name: Date: FOR EXECUT Company: By:	IN STATE TO THE TOTAL TO THE STATE OF THE ST	
SURFACT SURFACT COAL O	CE OWNER (Road and/or E OWNER (Impoundment WNER OR LESSEE	nts/Pits) RECEIVED Office of Oil and Gas	Signature: Print Name: Date: FOR EXECUT Company: By: Its:	IN 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 4705102146 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY STATEMENT OF NO OBJECTION

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VOLUNTARY STATEMENT OF NO OBJECTION

WW-6A and	attachments consisting of pages one (1) through the well plat, all for proposed well work on the trace West Virginia Marshall L	i, including		
District:		ublic Road Access:	Robers Ridge Road Freeland	
Quadrangle: Watershed:	Powhiatan Point 7.5' Upper Ohio-Beaver	Generally used farm name:		
*Please check	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON	
*Please checl	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON	
T CLIDEA	CE OWATER			
	CE OWNER CE OWNER (Road and/or Other Disturbance)	Signature: Print Name: Date:		
□ SURFAC		Print Name: Date:		
□ SURFAC	CE OWNER (Road and/or Other Disturbance)	Print Name:	ION BY A CORPORATION, ETC.	
□ SURFAC □ SURFAC □ COAL C	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Print Name: Date: FOR EXECUT Company:	ION BY A CORPORATION, ETC.	
☐ SURFACE ☐ SURFACE ☐ COAL CE ☐ COAL CE	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Print Name: Date: FOR EXECUT Company:	ION BY A CORPORATION, ETC.	

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Office of Oil and Gas*



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

November 2, 2018

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

> Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Freeland Pad, Marshall County Freeland M04H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2018-0862 for the subject site to Chevron North America Exploration and Production Company for access to the State Road for the well pad located off of Marshall County Route 21 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E. Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

Cc: Nikolai Softcheck

Chevron Appalachia, LLC

CH, OM, D-6

File

RECEIVED Office of Oil and Gas

DEC 1 7 2018

WV Department of Environmental Protection RECEIVED Office of Oil and Gas

DEC 17 2018

4705102146

Hydraulic Fracturing Fluid Additives

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

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DEC 1 7 2018

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

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

PREPARED FOR:

CHEVRON APPALACHIA, LLC

700 CHERRINGTON PARKWAY CORAOPOLIS, PA 15108

CNL & ENMEDAMENTAL CONSULTANTS, INC. 4000 TRANGLE LANE, SUITE 200 EXPORT, PA 15632

2018

CNL/SITE ENDINEER CONTACT: JOSH MACARCEE. GEOTECHNICAL DIGINEER CONTACT: AARON LAVAGE

SITE COORDINATES AND WATERS

APPROXIMATE CORTER OF WELL PAD LATITUDE: 30.807078' N, LONGTUDE: 80.761274' W

+BASED ON NAD 63, WEST VIRGINIA HORTH ZONE

WATERSHED NAME: UPPER ONO SOUTH RECEANING STREAM: UNNAMED TRIBUTARIES TO FISH RUN

		West Vegisla	tasth	
Wellhard No.	Bothing	Earling	Latitude (North)	Lingitude (Wes
CIM .	interpretain	TEL MINIORIES	39.5675525	20.7512106
D21A	50\5mt 5632	1614453.5541	39 6675837	\$3,7615420
0316	Sobies Anti-	LEASON TAIN	39.1676/00	307511934
.041.4	501615-4335	1814511 6him	38.8076179	In 7F16645
USU	501021.7917	H14539 7465	39.5676151	20.7610502
0644	520527,7479	1514549.4445	39.4574513	60.7610476
E748	501631.7141	1514553 1753	39 85 65 693	8/8760049d
DEM	SDEEDS A NA	1614576.1957	38.8676804	FG7488554
-15893	SOME THE PARTY	1614102.4617	39,5576586	80.74.D264
2277	\$00637,0543	1014189.1032	35.2576757	\$0.7612170
gatu	States abou	1644509,8045	35.8676926	E27411502
1411	500600 1567	1603231241	19 5577100	107611406
250	509803-2019	16165373546	352577271	237639524
-0405	500002.3491	HIASTSTEE	378177442	80.7816434
\$710	100967,2012	LELASSY, TOPS	10.8577913	sni recont an
530	SOMETIMES!	1614127.5041	29 (677677	10.7912317
980	506676 E116	16145113113	NYMETTERS.	\$117611763
1012	SSIE 83.6578	15145152592	32 ASTranger	807631365
2212	SECOND THAT	1638539 8657	31.6576191	\$0.2615529

APPROX. CENTER OF WOLL PAGE. LOUIS WORD TO 1274 LOUIS WORD TO 1274
FREELAND WELL PAD WELL PAD (1978) (1978) (1978)
(eranx no-m) (r-n) 1 c-l
STEE LOCATION MAP

SITE LIMITS OF DISTURBANCE/ HAP ACT LANDOWNER - JOSEPH L. FRE	
TOTALAREA.	32.4
WOODED AREA DISTURBED	1.7
WELLPAD	127
ACTESS ROAD	31
STOCKPILE AMEA	6,6

CS (000	COVERSHEET	x	11/14/2016
£5 (50)	EXISTING TO/ OGRAPHIC PLAN	*	11/14/2018
ES 1/13	OVERALL DEDISION AND SETTIMENT CONTROL PLAN	N.	11/19/2019
es sot	ERDSIONI AND SECRET CONTROL PLAN (LDF 2)	. 16	11/14/2018
E5 500	EROSIGN AND SEDEMENT CONTROL PLAN (2 OF 2)	. Ж.	FM/14/7018
ES 201	TROSION AND SEDIMENT CONTROL DETAILS (LOF 6)	×	31/14/2019
ES 104	ERIDSION AND SEGMENT CONTROL DETAILS (2 OF E)	Y	11/14/2016
ES 205	ERDERON AND SEDAMENT CONTROL DETAILS (3 OF 1)	×	11/14/2019
65 LX6	EROSION AND SEDMENT CONTROLDETAILS (4 OF E)	X.	13/14/2011
E5 M7	DROSSON AND SEDIMENT CONTROL DETAILS (SOF O	. N.	11/14/2019
ES 108	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 6)	× .	\$1/14/201
ES 109	WIFLE PAD PLAN AND CROSS-SECTIONS		11/14/200
E5 110	ACCESS ROAD PLAN AND PROPILE	ж.	33/14/2013
65 111	ACCESS ROAD CROSS-SECTIONS	x	13/14/2019
E5 112	STOCKPILE CROSS-SECTIONS	Y	11/11/201
56,500	GEOTECHNICAL SUBSUMFACE SUMMARIN	X.	11/14/201
SE 501	CEDIFORNICAL SUBSLIBEACE CROSS-SECTIONS		11/14/200
GE 502	GEOTECHNICAL NOTES AND TABLES		31/14/202
GE 503	GEDTECHNICALDETAKS	2	31/14/203
CE SOM	RISS PLAN AND ELEVATION VIEW (1 OF 2)	3	11/14/202
CESTS	455 PLAN AND ELEVATION VIEW (2 DF 2)	- 2	11/14/200
GE 51%	RGS CROSS-SECTION (1 GF3)	X	11/14/20E
GE 507	RSS CHOSS-SECTION (2 OF 3)	×	11/14/200
GE 501	ASS CROSS-SECTION (B OF 3)	*	31/34/2019
CE 500	ISS SPECIFICATIONS AND QUANTITIES	×	11/14/2018
GE 510	RSS DETARLS	26	11/14/201
PC 600	SITE PLAN WITH AFRICAL	×	11/14/2019
FEREN	POST-CONSTRUCTION RECLAMATION FLAN	3:	33/34/2038
FC-ED2	PUST-CONSTRUCTION RECLARATION DETAILS	3	11/11/2015

WETLANDS WITHIN 100 LF OF THE LIMIT OF DISTURBANCE

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

- PROPERTY BOUNDANIES WERE PROVINGED BY CHEMICAL
- BACKGROUND ADDR. MAKE FROM COCCUR EARTH PRO. DETFO 2017

EXISTING PROPERTY LINE ENSTRUM BROOK CONTINUES FOREIG PARTS BOLDWAY EXISTING STRUCTURE/BUILDING DISTRIG WETLAND DISTING ENGINEES PLEATER LIVE EXECUTED WATER METERS EXISTING URLITY POLL

4 4 4 4	PROPOSED LINEY OF DISTURBANCE
	PROPOSED EDGE OF ACCESS FOAD/FA
	PROPOSED DRAWEL
	PROPOSED ASHWELT PAREMENT
	PROPOSED EXHIBITION BOTH
0	PROPOSED WILLIAM AND CELLAR
1100-	PROPOSED INDEX CONTOUR
1272.90	PROPOSED INTERMEDIATE CONTOUR

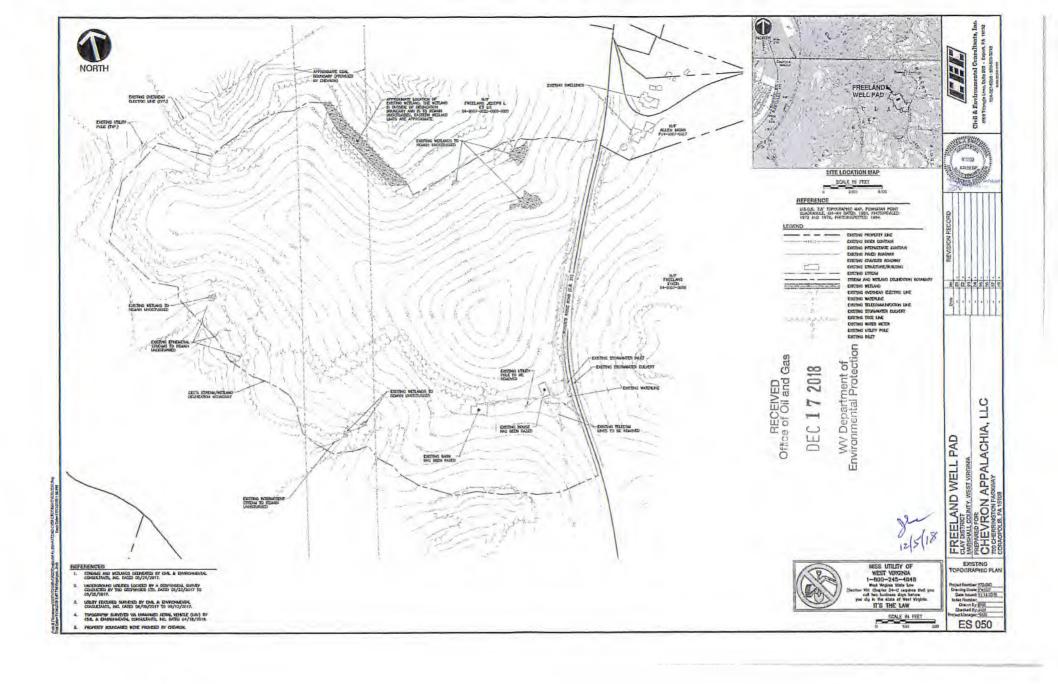
PROPOSED 18-IN COMPOST PLTER SOCK PROPOSED 24-IN EDMPOST PLTER SOCK PROPRIED DRANGE CONTRUCTION FORCE

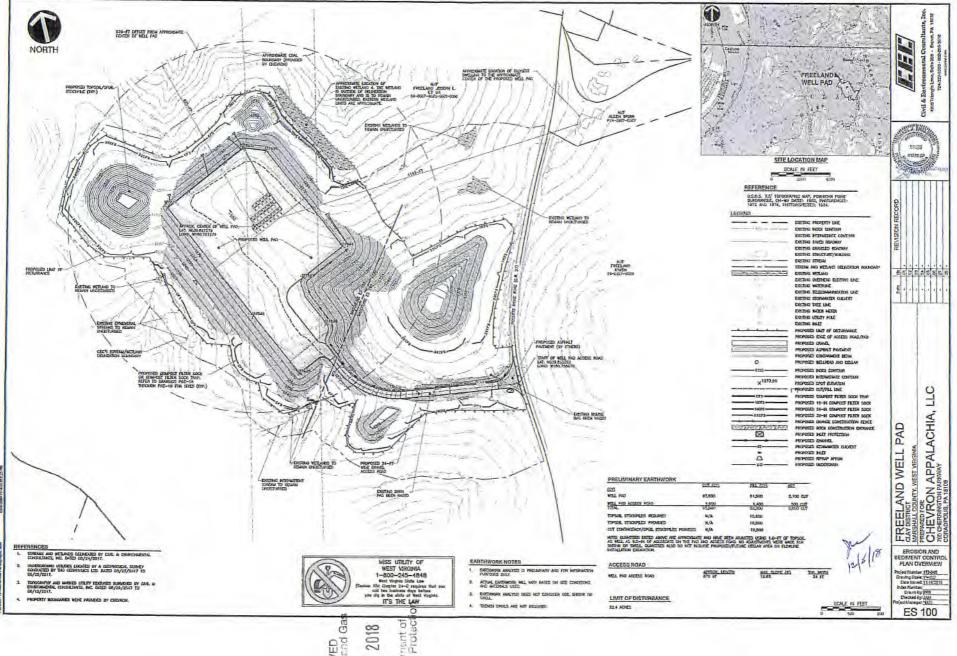


MISS UTILITY OF WEST VIRGINIA 1-500-245-4848 

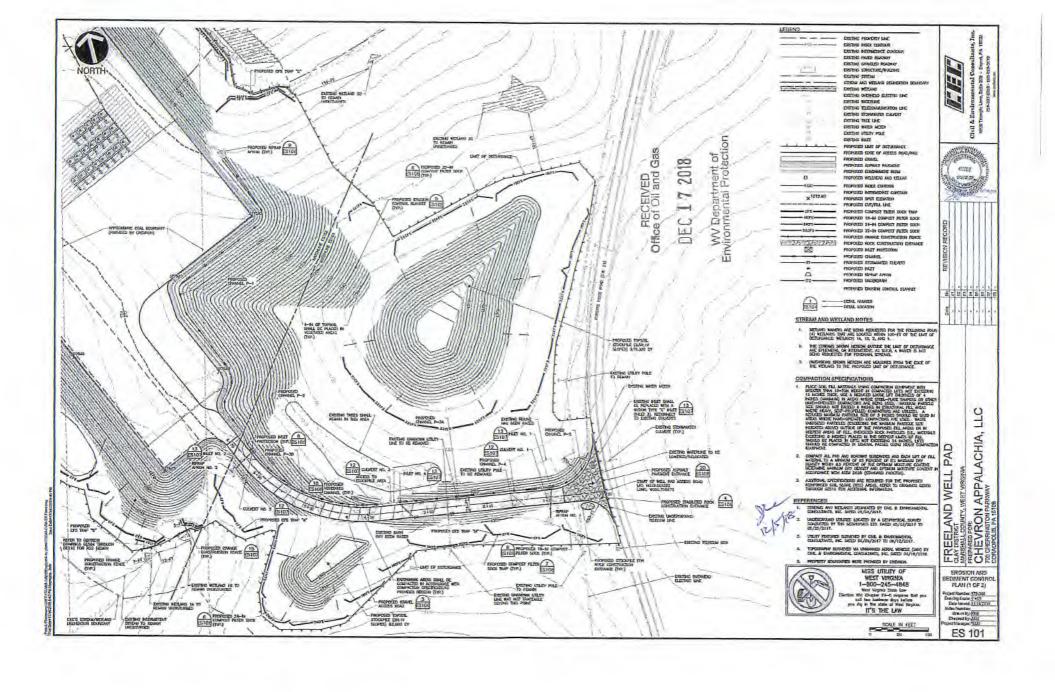
3 FREELAND WELL PAD CAN DISTRICT MARIBULA COUNTY, WEST MEDINA FOR THE MERINGO CONTROL OF THE MEDINA CONTROL OF T

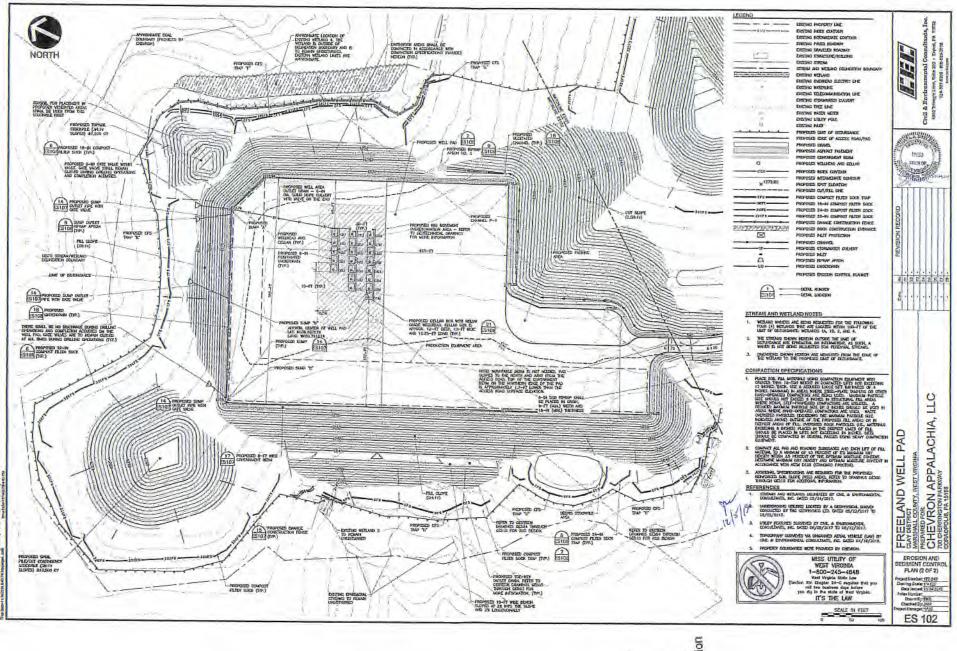
CS 000





Office of Oil and Ga
DEC 1 7 2018
WV Department of Environmental Protect





WV Department of Environmental Protection RECEIVED Gas Office of Oil and Gas 2018 -DEC

OPERATOR: Chevron Appalachia, LLC	WELL NO: MO	4H	
PAD NAME: Freeland			
REVIEWED BY: Nikolai Softcheck	SIGNATURE: _	Nekda g	Softshed

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well	Restri	ctions	
		At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	
		DEP Waiver and Permit Conditions	
	\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR	
		DEP Waiver and Permit Conditions	
	\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to an Groundwater Intake or Public Water Supply; OR	у
		DEP Waiver and Permit Conditions	
	\checkmark	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Bein Drilled; OR	g
		Surface Owner Waiver and Recorded with County Clerk, OR	
		DEP Variance and Permit Conditions	
	✓	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR	
		Surface Owner Waiver and Recorded with County Clerk, OR	
		DEP Variance and Permit Conditions	
	\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the of the Pad; OR	e Center
		Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED
		DEP Variance and Permit Conditions	Office of Oil and Gas

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice	is	herel	v	given	
	-		2.0	PA . P. T.	۰

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Moundsville Echo			
Public Notice Date: Dec 3rd and Dec 10th, 2	018		
The following applicant intends to apply for a surface excluding pipelines, gathering lines an any thirty day period.	horizontal na d roads or uti	tural well wor lizes more than	k permit which disturbs three acres or more of two hundred ten thousand gallons of water in
Applicant: Chevron Appalachia, LLC		Well Nun	nber: See Attached for Freeland
Address: 700 Cherrington Parkway, Coraopo	lis, PA 15108		
Business Conducted: Natural gas production	1.		
Location -			
State: West Virginia		County:	Marshall
District: Clay		Quadrangle:	Powhatan Point, WV 7.5'
UTM Coordinate NAD83 Northing:	See Attached		
UTM coordinate NAD83 Easting: Watershed: Short Creek - Ohio River	See Attached		

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

Office of Oil and Gas

	Northing	Easting
Freeland M01H	4413085.83	520415.49
Freeland M02H	4413087.74	520419.64
Freeland M03H	4413089.65	520423.79
Freeland M04H	4413091.57	520427.94
Freeland M05H	4413093.48	520432.09
Freeland M06H	4413095.39	520436.24
Freeland M07H	4413097.30	520440.39
Freeland M08H	4413099.21	520444.55

RECEIVED Office of Oil and Gas

DEC 1 7 2018

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

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



PREPARED FOR:

CHEVRON APPALACHIA, LLC

700 CHERRINGTON PARKWAY CORAOPOLIS, PA 15108

CONSULTANTS

CVIL & EM/RONMENTAL CONSULTANTS, INC. 4000 TRANCLE LAKE, SUITE 200 EXPORT, PA 15632 PHONE: 724-327-5200

CIVIL/SITE ENGINEER CONTACT: JOSH MAGARGEI EMAIL ADDRESS: jmagargee@cocinc.com GEOTECHNICAL ENGINEER CONTACT: AARON LAVAGE EMAIL ADDRESS: clavage@cecing.com

SITE COORDINATES AND WATERSHEE

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 ONIO SOUTH RECEIVING STREAM: UNNAMED TRIBUTARIES TO FISH RUN

West Virginia North							
Wellto ad No.	Northing	Casting	Lattrade (North)	Longitude (West			
01M	500597.5170	1614480.8066	19 1575665	80.7612906			
02 hr	509603.5632	15144945341	39.8675837	80.7612420			
D33M	500609,6094	1614508.2615	39.8576009	40 7612934			
04M	500615.6555	1614523 9890	39 8676179	80 761 1448			
OSM	500621.7017	1614535 7165	39.8676351	80.7510962			
0684	500627.7479	1614549.4440	39 9676522	80.7610475			
07M	500633.7941	1514563.1715	39.1676693	60.7609990			
0634	509639.8403	1514576 8989	39,8576864	80.7609504			
อะน	500631.0181	1614482 4417	39 8676586	80 76 12864			
020	509437.0643	1514495.1692	19.8676757	80.7612378			
030	500643.1105	1614509.8966	39.8676920	80.7611892			
040	509649.1567	1514523.6241	19.6577100	20.7611406			
อรม	500655,2029	1614537 3516	39 P677271	20 76:0920			
06U	500661.2491	1514551.0791	39.8577442	80.7610414			
อกบ	509667.2952	1514567,5066	\$9.85776L3	20.7609948			
06 3	500670.5654	1514497.8043	39.5577677	80.7612337			
09/1	500676.6115	1814511.5318	39 7677448	20.7611951			
100	500682,6578	\$614525 2592	59.8678020	80.7611365			
110	500688.7040	1614538.9867	39.8678191	50.7610579			

7772	
	。
NORTH	
100	
	A SWA JUNE OF THE SWAN AND AND AND AND AND AND AND AND AND A
Copin	APPROX. CONTER OF WELL PAD-O
1 / i	10NG #780.781274
38	FREELANDS
深料。	NEMEST BUE LINE WELL PAD
	STREAM - FISH RUN (APPROX. 750-FT)
100	A THE TAX STATE OF THE STATE OF
La Contraction	CANADA CANADA
1	
	START OF WELL PAD ACCESS ROAD.
	LONG: W080.758870
	SITE LOCATION MAP
	SCALE IN FEET

SITE LIMITS OF DISTURBANCE/ IMPAC LANDOWNER - IOSEPHIL FRI	
TOTAL AREA	22.4
WOODED AREA DISTURBED	1.7
WELL PAD	12.7
ACCESS ROAD	3.1
STOCKPILE AREA	6.6

ES 050	EXISTING TOPOGRAPHIC PLAN	x	11/14/2018
ES 100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	×	11/14/7018
ES 101	EROSION AND SECUMENT CONTROL PLAN (1 OF 2)	×	11/14/2018
£2 103	EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)	×	11/14/2018
ES 108	EROSION AND SEDIMENT CONTROL DETAILS (1 OF 6)	x	17/14/2018
ES 10#	EROSION AND SEDIMENT CONTROL DETAILS (2 OF 6)	x	11/14/2018
ES 1.05	FROSION AND SEIZMENT CONTROL DETAILS (3 OF 6)	x	11/14/2018
ES 106	EROSION AND SEDUMENT CONTROL DETAILS (4 OF 6)	×	11/14/2018
ES 107	EROSION AND SEDEMENT CONTROL DETAILS (5 OF 6)	×	11/14/2018
E2 108	EROSION AND SEDIMENT CONTROL DETAILS (6 OF 6)	×	11/14/2018
ES 109	WELL PAD PLAN AND CROSS-SECTIONS	×	11/14/2018
ES 110	ACCESS ROAD PLAN AND PROFILE	×	11/14/2018
esm	ACCESS ROAD CROSS-SECTIONS	×	11/14/2018
E2 133	STOCKPILE CROSS-SECTIONS	x	11/14/2019
GE 500	GEOTECHNICAL SURSLINFACE SUMMARY	x	11/14/2018
GE 501	GEOTECHNICAL SUBSURFACE CROSS-SECTIONS	×	11/14/2018
GE 502	GEOTECHNICAL NOTES AND TABLES	I х ,	11/14/2018
GE 2003	GEOTECHNICAL DETAILS	×	11/14/2018
GE 504	RSS PLAN AND ELEVATION VIEW (1 OF 2)	×	11/14/2018
GE 505	RSS PLAN AND ELEVATION VIEW (2 OF 2)	x	11/14/2018
GE 506	RSS CROSS-SECTION (1 OF 3)	×	11/14/2018
GE 507	RSS CROSS-SECTION (2 OF 3)	×	11/14/2018
GE 508	RSS CROSS-SECTION (3 OF 3)	x	11/14/2018
GE 509	RSS SPECIFICATIONS AND QUANTITIES	x	11/14/2018
GE 510	RSS DETAILS	×	11/14/2019
PC 600	SITE PLAN WITH AFRIAL	x	11/14/2018
PC 601	POST-CONSTRUCTION RECLAMATION PLAN	×	11/14/2018
PC GGZ	POST-CONSTRUCTION RECLAMATION DETAILS	X	11/14/2018

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

- PROPERTY DOLDSWARD WITH COOLING BY CHOOSE
- BACKGROUND AEREAL BURGE FROM GOOGLE EARTH PRO. DATED 2015

West Wights North				
Wellto zi No.	Harthing	Casting	Latitude (Horth)	Longitude (West)
01PH	500597.5170	1614480.8066	19 15/75665	80.7612906
02 Nr	509603.5632	15144945341	39.8675837	80.7612470
03M	500609,6094	1614508.2615	39.1576009	40 7612934
MIG	500615.6555	1614523 9890	39 8676179	807611444
OSM	500621.7017	1614535 7165	39.8676351	80.7610962
56841	500627.7479	1614549.4440	39 9676522	80.7610475
07au	500633.7941	1514563.1715	39.1676693	60.7609990
0634	509639.8403	1514576 8989	39.8576864	80.7609504
otu	500631.0181	1634482 4417	39 8676586	81 76 12864
020	509437.0643	1514495.1692	19.8676757	80.7612378
030	500643.1105	1614509.8966	39.0676929	80.7611892
040	509649.1567	1514523.6241	19.6577100	20.7611406
อรบ	500655.2029	1614537 3516	39 P677271	20 7610970
060	500661.2491	1514551.0791	39.8577442	80.7610414
อรบ	509667 2952	1514567,5066	19.8577613	20.760994R
963	500670.5654	1514497.8043	39.5577677	80.7612337
09/1	500676.6115	1814511.5318	39 7677448	20.7611951
100	500682,6578	\$614525 2592	59 8678020	80.7611365
_ 110	500688,7040	1614538.9867	39 8678191	50.7610579

EXISTING WILLITY POLE



NA.	PROPOSED COMPOST FILTER SOCK TRAP
	PROPOSED COMPOST FILTER SOCK TRAP
	PROPOSED 18-IN COMPOST FILTER SOCI
	PROPOSED 24-IN COMPOST FILTER SOCI
32076	PROPOSED 32-IN COMPOST FILTER SOCI
	PROPOSED CRANCE CONSTRUCTION FEAC
NON YOUNG	PROPOSED ROCK CONSTRUCTION DITTRU
⊠	PROPOSED BILLET PROTECTION
KO METALIK	PROPOSED EROSION CONTROL BLANKET



WEST VIRGINIA WEST VINCINIA

1-800-245-4848

West Virginio State Low
thon TON: Chapter 24-C requires that y
call two business days before
you do in the state of West Virginia.



Ľ ON APPALACHIA,

AND WELL COVER SHEET

CS 000

