



 west virginia department of environmental protection

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

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

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

CHEVRON APPALACHIA, LLC
 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for FREELAND M03H
 47-051-02145-00-00

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

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

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


 James A. Martin
 Chief

Operator's Well Number: FREELAND M03H
 Farm Name: JOSEPH L. FREELAND ET UX
 U.S. WELL NUMBER: 47-051-02145-00-00
 Horizontal 6A New Drill
 Date Issued: 3/1/2019

PERMIT CONDITIONS 4705102145 03/01/2019

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

CONDITIONS

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

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:

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

CONCLUSIONS OF LAW

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

ORDER

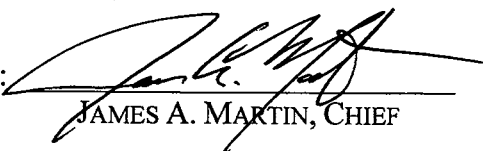
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands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

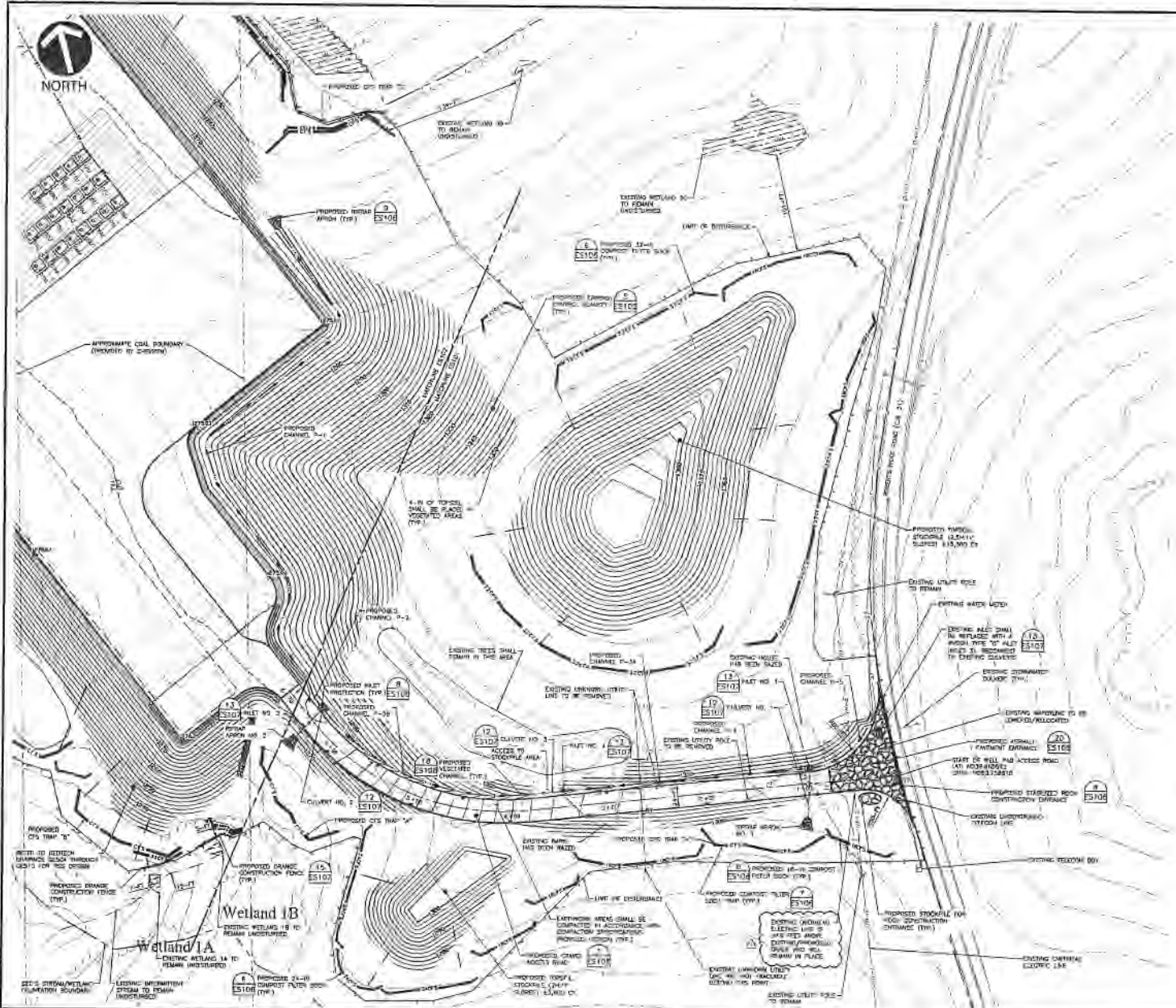
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: 
JAMES A. MARTIN, CHIEF



LEGEND

[Symbol]	EXISTING PROPERTY LINE
[Symbol]	EXISTING FENCE CORNER
[Symbol]	EXISTING INTERMEDIATE CORNER
[Symbol]	EXISTING BOUNDARY CORNER
[Symbol]	EXISTING GRAVELLED ROADWAY
[Symbol]	EXISTING STRAIGHT BUILDING
[Symbol]	EXISTING STREAM
[Symbol]	STREAM AND WETLAND LOCATION BOUNDARY
[Symbol]	EXISTING WETLAND
[Symbol]	EXISTING OVERHEAD ELECTRIC LINE
[Symbol]	EXISTING UNDERGROUND ELECTRIC LINE
[Symbol]	EXISTING TELECOMMUNICATION LINE
[Symbol]	EXISTING STEELWATER CULVERT
[Symbol]	EXISTING TREE LINE
[Symbol]	EXISTING WATER WHEEL
[Symbol]	EXISTING UTILITY POLE
[Symbol]	EXISTING WELLS
[Symbol]	PROPOSED LIMIT OF DISTURBANCE
[Symbol]	PROPOSED TYPE OF ACCESS ROAD/ROAD
[Symbol]	PROPOSED DRIVE
[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED CONTINGENT FLOW
[Symbol]	PROPOSED WETLAND AND CELLAR
[Symbol]	PROPOSED HOOD CONTOUR
[Symbol]	PROPOSED INTERMEDIATE CORNER
[Symbol]	PROPOSED BOUNDARY CORNER
[Symbol]	PROPOSED CONTROL LINE
[Symbol]	PROPOSED CONCRETE (1500) ROCK TRAP
[Symbol]	PROPOSED 18-IN. COMPACT FILTER ROCK
[Symbol]	PROPOSED 24-IN. COMPACT FILTER ROCK
[Symbol]	PROPOSED 36-IN. COMPACT FILTER ROCK
[Symbol]	PROPOSED DRAINAGE CONSTRUCTION FENCE
[Symbol]	PROPOSED ROCK/CONSTRUCTION ENTRANCE
[Symbol]	PROPOSED ALIIT PROTECTION
[Symbol]	PROPOSED DRIVEWAY
[Symbol]	PROPOSED STEELWATER CULVERT
[Symbol]	PROPOSED POLE
[Symbol]	PROPOSED BRANCH WELLS
[Symbol]	PROPOSED UNDERPASS
[Symbol]	PROPOSED BRIDGE/CONCRETE SLABWAY
[Symbol]	EXISTING WELLS
[Symbol]	EXISTING UNDERPASS

- STREAM AND WETLAND NOTES**
1. WETLAND WATERS ARE BEING PROTECTED FOR THE FOLLOWING REASONS: (A) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE WETLANDS 1A, 1B, & 1C; AND (B) ...
 2. THE STREAM SHOWS HEDGES OUTSIDE THE LIMIT OF DISTURBANCE ARE ESSENTIAL TO MAINTAIN AS SUCH A WATERSHED IS NOT BEING PROTECTED FOR PERSONAL STREAMS.
 3. WATERSHED DRAINAGE HEDGES ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
1. PLACE SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH CAPACITY THAT 10-TON HEIGHT IS COMPACTED. LOTS NOT EXCEEDING 12 INCHES THICK, USE A HEAVY DUTY TYPICAL OF 1 INCHES MAXIMUM IN AREA WHERE STEEL-PLATE TAMBERS OR OTHER HARD-SURFACED EQUIPMENT HAS BEEN USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 2 INCHES IN STRUCTURAL FILL AREA. WHERE HEAVY SELF-PROPELLED COMPACTORS ARE USED, A REDUCED MAXIMUM PARTICLE SIZE OF 2 INCHES SHOULD BE USED IN AREA WHERE SELF-PROPELLED COMPACTORS ARE USED. WHITE WOODEN PAVEMENTS (EXCLUDING THE MAXIMUM PARTICLE SIZE) LOCATED INSIDE OR OUTSIDE OF THE PROPOSED WELL AREA OR IN OTHER AREAS OF THE PROPOSED ROAD PARTICLES (S.S. MATERIAL EXCEEDING 2 INCHES) SHOULD BE PLACED IN THE DEEPEST LIMITS OF FILL SHALL BE PLACED IN 6" LOTS NOT EXCEEDING 24 INCHES. LOTS SHALL BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
 2. COMPACT ALL FILL AND ROADWAY SUBGRADE AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY WEIGHT WITHIN 50 PERCENT OF THE OPTIMUM MOISTURE CONTENT. DETERMINE MAXIMUM DRY WEIGHT AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PRACTICE).
 3. ANNUAL SPECIFICATIONS ARE REQUIRED FOR THE PROPOSED REPAVED SOIL SURF (PES) AREAS REFER TO DRAWING 12500 PROPOSED ROAD FOR ADDITIONAL INFORMATION.

- REFERENCES**
1. STREAM AND WETLAND DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 02/24/2018
 2. PROPOSED WELLS LOCATED BY A GEOTECHNICAL SURVEY CONDUCTED BY THIS ENGINEERING LTD. DATED 06/23/2017 TO 07/25/2017.
 3. WELLS FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 06/08/2017 TO 06/12/2017.
 4. GEOTECHNICAL SURVEYED BY WILMINGTON AERIAL VEHICLE (WAV) BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 04/14/2018.
 5. PROPERTY BOUNDARIES WERE PROVIDED BY OWNER.

MISS UTILITY OF WEST VIRGINIA
 1-800-245-4868
 www.missutility.com
 (See also Chapter 24-C, requires that you call the business days before you dig in the state of West Virginia.)
IT'S THE LAW

SCALE IN FEET
 0 50 100

REVISION RECORD

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

FREELAND WELL PAD
 CLAY DISTRICT
 MARSHALL COUNTY, WEST VIRGINIA
 PREPARED FOR
CHEVRON APPALACHIA, LLC
 700 CHERINGTON PARKWAY
 CORAOPOLIS, PA 15108

EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)

Project Number: 175-049
 Drawing No.: ES101
 Date Issued: 11/24/2018
 Issue Number:
 Drawn by: ELL
 Checked by: JAW
 Project Manager: WJS

ES 101

CEC
 CIVIL & ENVIRONMENTAL CONSULTANTS, LLC
 3000 HERRINGTON AVENUE, SUITE 200
 CHARLOTTE, NC 28217
 PHONE: 704.366.1100
 FAX: 704.366.1101
 WWW.CEC-PA.COM



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

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

2) Operator's Well Number: M03H Well Pad Name: Freeland

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

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

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

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No No *JRC*
12/5/18

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

8) Proposed Total Vertical Depth: 6,395

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12,428

11) Proposed Horizontal Leg Length: 4,957

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

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

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

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

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

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

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

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DEC 17 2018

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20	New	X52	78.67	60	60	CTS
Fresh Water	13.375	New	J-55	54.5	622	622	CTS
Coal							
Intermediate	9.625	New	L-80	40	2,170	2,170	CTS
Production	5.5	New	P110	20	12,428	12,428	2,670' (500' below 9.625" shoe)
Tubing							
Liners							

JW
12/11/18

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WV Department of
Environmental Protection

12/5/18

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

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

Office of Oil and Gas

DEC 17 2018

WV Department of
Environmental Protection

*Note: Attach additional sheets as needed.

Cement Additives

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

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

The Production cement will have a lead and tail cement.

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

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

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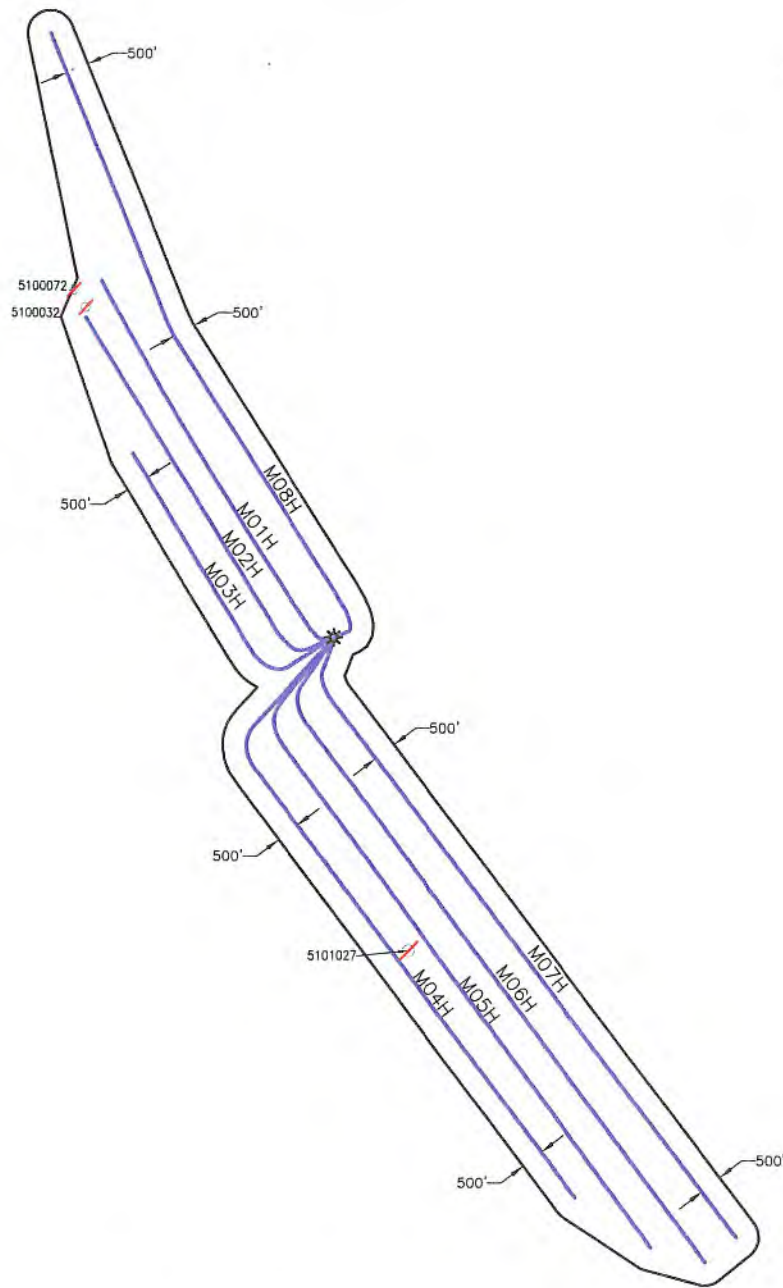
4705102145 03/01/2019



Freeland M03H

Clay Twp, Marshall Co, WV						Ground Level Elev. (ft above SL):		1,274	
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	INC	AZM			
Core Barrel / Auger	2 Bowspring per ft	20" Conductor	65	65			30	Conductor 20" API 5L Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per ft over coupling to surface	13-3/8" Casing	622	622			17.5	Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (ft Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 ft over coupling	9-5/8" Casing	2,170	2,170			12.375 - 12.25	Intermediate Casing 9-5/8" 40# L-80 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.635 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,080 Yield (ft Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
	Bow Spring: (1) per every other ft over coupling SpiraGlider or Centek: (1) per ft of csg to KOP Float Equip. Float Equip.	5-1/2" Casing	12,428				8.75 - 8.5	Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (ft Strength 1,000 lbs) 729	Production Lead Slurry Cement to 500' below 9-5/8" shoe Production Tail Slurry TOC minimum 200' above Marcellus

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12/5/18
DEC 17 2018



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

PREPARED FOR:

CHEVRON APPALACHIA, LLC
 700 CHERRINGTON PARKWAY
 CORAOPOLIS, PA 15108

LEGEND

- WELL LOCATION
- PLUGGED WELL
- ABANDON WELL

**FREELAND
 AREA OF REVIEW MAP
 MARSHALL COUNTY
 CLAY DISTRICT
 WEST VIRGINIA**

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 Office of Oil and Gas
 TOPO QUAD: POWHATAN POINT, WV

SCALE: 1" = 4000'

DATE: SEPTEMBER 7, 2018

4705102145

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

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WV Department of
Environmental Protection

WW-9
(4/16)

API Number 47 - _____
Operator's Well No. MOSH

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

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

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

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

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

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

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

Company Official Signature _____

Company Official (Typed Name) Jenny Butchko

Company Official Title Permitting Team Lead

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

Laura Savage

Notary Public

My commission expires September 17, 2022

RECEIVED
Office of Oil and Gas
Commonwealth of Pennsylvania
County of Allegheny

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

Chevron Appalachia, LLC

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

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

Fertilizer type 10-20-20 or as directed by soil test

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

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

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre
Annual Ryegrass - 50
Winter Wheat - 75
Cereal Ryegrass - 50

Seed Type lbs/acre
See Attached

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments:

Title: Oil & Gas / usgsta

Date: 12/5/18

Field Reviewed? (2) Yes () No

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WV Department of Environmental Protection

4705102145

Seed Mixtures

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

<u>Permanent</u>		lbs/acre
Seed Type		<u>6000</u>
<u>Hayfield, Pastureland, and Cropland</u>		
<u>Orchard Grass</u>	40%	<u>2400.00</u>
<u>Timothy</u>	40%	<u>960.00</u>
<u>Birdsfoot - Trefoil</u>	10%	<u>96.00</u>
<u>Ladino Clover</u>	10%	<u>9.60</u>

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Environmental Protection



Chevron

**Appalachian LLC
WV Well Site Safety Plan
Pad: **Freeland Pad A**
Well # M03H**

JK
12/5/18

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

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

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Environmental Protection

BHL is located on topo map 13,998 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 2,722 feet south of Latitude: 39° 52' 30"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

LEGEND

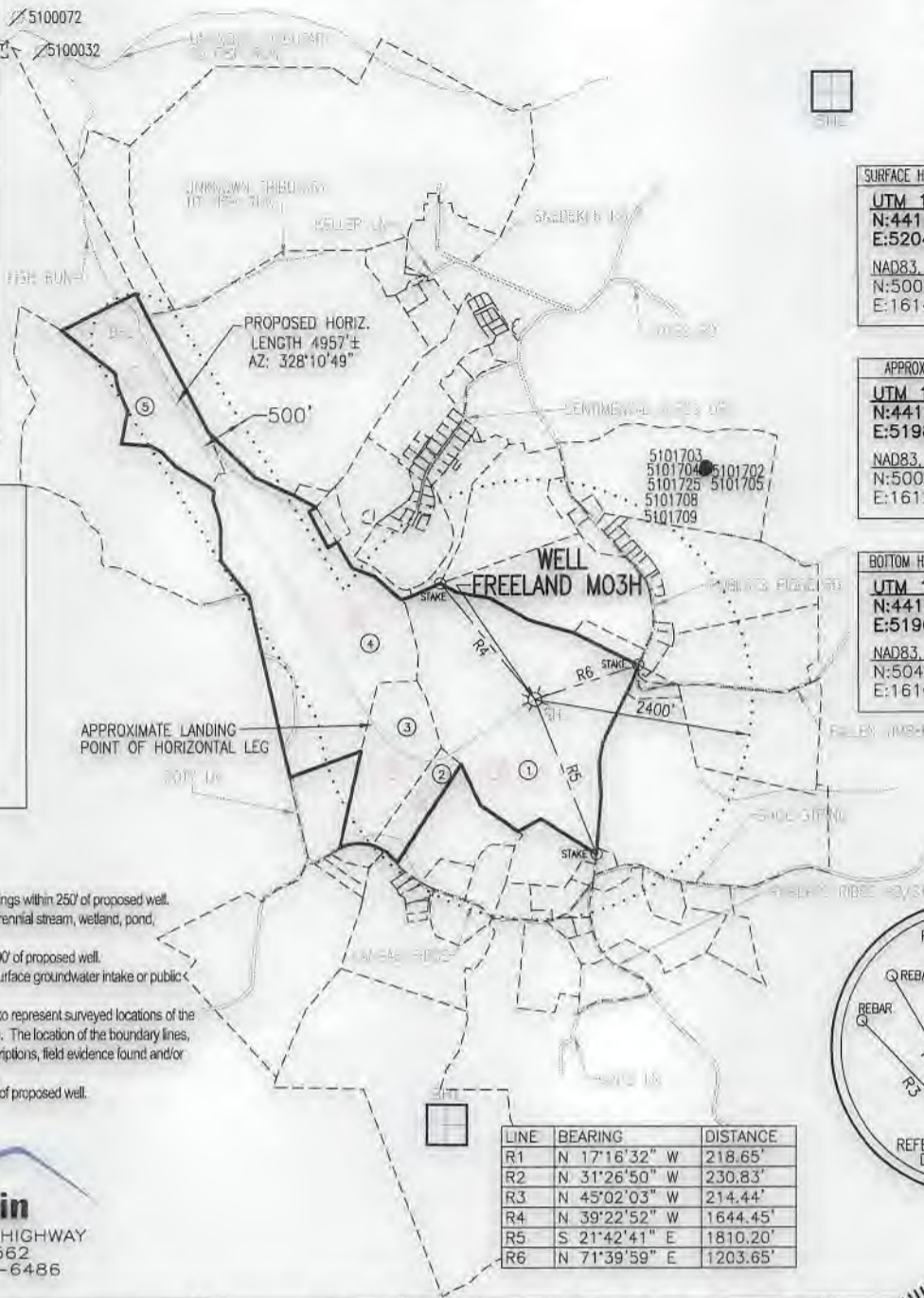
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS

WELL PAD ORIENTATION DETAIL

N.T.S.



SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
 N:4413089.65
 E:520423.79

NAD83_WV NORTH
 N:500609.609
 E:1614508.262

APPROX. LANDING POINT

UTM 17-NAD83(M)
 N:4412996.97
 E:519884.54

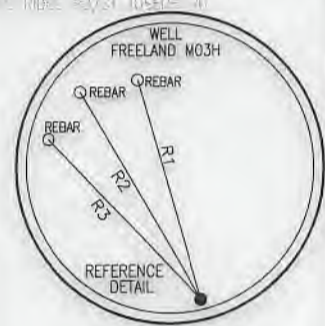
NAD83_WV NORTH
 N:500335.034
 E:1612733.627

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
 N:4414266.87
 E:519066.85

NAD83_WV NORTH
 N:504547.061
 E:1610120.015

LINE	BEARING	DISTANCE
R1	N 17°16'32" W	218.65'
R2	N 31°26'50" W	230.83'
R3	N 45°02'03" W	214.44'
R4	N 39°22'52" W	1644.45'
R5	S 21°42'41" E	1810.20'
R6	N 71°39'59" E	1203.65'



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

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

FILE #: FREELAND M03H
 DRAWING #: FREELAND M03H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

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

GEORGE D. SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

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



DATE: FEBRUARY 19, 2019
 OPERATOR'S WELL #: FREELAND M03H
 API WELL #: 47 51 02145
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1274.00'

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

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

OIL & GAS ROYALTY OWNER: JOSEPH FREELAND ET UX ACREAGE: 264.746±

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

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

(SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,395'± TMD: 12,428.08'±

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 M03H PAGE 2 OF 2

03/01/2019

	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. & BIBIANA DERROW	4-7/20
4	CATHY J. & CARL F. JR., PETRUCCI	4-7/12
5	JOHN K. & NANCY L. MASON	4-7/4

	LESSOR	DIST-TM/PAR
A	JOSEPH FREELAND ET UX	4-7/21
B	NORMAN L. DERROW ET UX	4-7/32.1
C	ANTHONY FRANCIS SPECHT	4-7/20
	DEBORAH DARLENE VENTLE	
	CHERYL DENISE VOSS ET VIR	
	SUSAN MAY	
	CATHERINE PAZIN	
	KENT LINDA FARINHA	
	KRISTINE BOURQUE	
	CHARLES GARNER	
	FREDERICK H. GARNER SR.	
	DAVID GARNER	
	DORIS JEAN FALLIN GARNER	
	THOMAS L. GARNER	
	KAREN HARPER	
	LESLIE GARNER	
	VALORIE HARPER	
	VIRGINIA THOMPSON	
	RUSSELL GARNER	
	BARBARA DOUGLAS	
	LINDA ZAREMBA	
	AMBER SPIESS	
	SHEENA LEA SCALES	
	WILLIAM R. HUGHES	
	ANTHONY F. MANZO	
	DANIEL MANZO SR.	
	ROBERT H. ROBINSON SR.	
	ROBERT H. ROBINSON JR.	
	LISA SHROYER	
	KEITH A. ROBINSON	
	JOHN L. SIMONETTI	
	JOHN M. SIMONETTI	
	JAMES SIMONETTI	
	CHARLES D. CUDDIHY	
	DAVID CUDDIHY	
	CAROL DRUMMOND	
	MARGO KAVANAS	
	WELDON L. KING ET UX	
	RENA ELAINE DEBLASIO	
	REBELLEE WILLIAMS	
	GARY SHEETS ET UX	
	JULIE MCALISTER	
	JUDITH R. VON BLON	
	REGINA WASHABAUGH	
	SHEILA MCDANIEL	
	DAVID VAUGHN JR.	
	ELLEN COOK	
	VIRGINIA HORNSBY	
	PATRICIA CHENOWETH	
	DORIS CALDWELL	
	LAURA L. BELL	
	SHANNON DEMPSEY	
	JACQUELINE CIRULLO	
	CURTISS RUCKMAN	
	WENDY ELIZABETH ZISKO	
	DARLENE A. COX-WEIGUM LIFE ESTATE	
	MICHAEL RUCKMAN	
	JAMIE CROSSMAN	
	ORPHA MAY HYDE	
	LINDSEY BEVERLY LINDA HUBER AIF	
	THOMAS M. WILLIAMS III	
	DORIS L. MEIGH ET VIR	
	DOROTHY L. MEYERS ET VIR	
	PAMELA OSTROSKE	
	EUGENE BLUMLING ET UX	
	MARIE E. CSONTOS	
	MARGO LONG	
	BARBARA A. WEST	
	REBECCA S. BASIL	
	CHRISTINA M. BASIL	
	ROSS V. BASIL	
	ANTHONY C. BASIL	
D	HG ENERGY II APPALACHIA LLC	4-7/12
E	JOHN K. MASON ET UX	4-7/4

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 E:519066.85
 NAD83, WV NORTH
 N:504547.061
 E:1610120.015

FEBRUARY 19, 2019

WW-6A1
(5/13)

Operator's Well No. M03H

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

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

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

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

See Attached

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

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

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

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

Well Operator: Chevron Appalachia, LLC
 By: Jenny Butchko *Jenny Butchko*
 Its: Permitting Team Lead *Jenny Butchko*
 Office of Oil and Gas

DEC 17 2018
Page 1 of 5

4705102145

Freeland Unit #3H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
A	4-7-21	FREELAND JOSEPH ET UX	Chevron U.S.A. Inc.	0.180	932/374	n/a	n/a	n/a
B	4-7-32.1	DERROW NORMAN L ET UX	Chevron U.S.A. Inc.	0.18	852/409	n/a	n/a	n/a
		SPECHT ANTHONY FRANCIS - SFX	Chevron U.S.A. Inc.	0.160	See Attached	n/a	n/a	n/a
		VENTLE DEBORAH DARLENE - SFX	Chevron U.S.A. Inc.	0.16	958/138	n/a	n/a	n/a
		VOSS CHERYL DENISE ET VIR - SFX	Chevron U.S.A. Inc.	0.16	958/150	n/a	n/a	n/a
		MAY SUSAN - SFX	Chevron U.S.A. Inc.	0.15	931/328	n/a	n/a	n/a
		PAZIN CATHERINE - SFX	Chevron U.S.A. Inc.	0.15	931/331	n/a	n/a	n/a
		FARINHA KENT LINDA - SFX	Chevron U.S.A. Inc.	0.15	932/253	n/a	n/a	n/a
		BOURQUE KRISTINE - SFX	Chevron U.S.A. Inc.	0.15	935/172	n/a	n/a	n/a
		GARNER CHARLES - SFX	Chevron U.S.A. Inc.	0.15	930/662	n/a	n/a	n/a
		GARNER FREDERICK H SR - SFX	Chevron U.S.A. Inc.	0.15	930/613	n/a	n/a	n/a
		GARNER DAVID - SFX	Chevron U.S.A. Inc.	0.15	929/520	n/a	n/a	n/a
		GARNER DORIS JEAN FALLIN - SFX	Chevron U.S.A. Inc.	0.15	931/337	n/a	n/a	n/a
		GARNER THOMAS L - SFX	Chevron U.S.A. Inc.	0.15	932/389	n/a	n/a	n/a
		HARPER KAREN - SFX	Chevron U.S.A. Inc.	0.15	931/322	n/a	n/a	n/a
		GARNER LESLIE - SFX	Chevron U.S.A. Inc.	0.15	932/380	n/a	n/a	n/a
		HARPER VALORIE - SFX	Chevron U.S.A. Inc.	0.15	932/383	n/a	n/a	n/a
		THOMPSON VIRGINIA - SFX	Chevron U.S.A. Inc.	0.15	930/619	n/a	n/a	n/a
		GARNER RUSSELL - SFX	Chevron U.S.A. Inc.	0.15	931/319	n/a	n/a	n/a
		DOUGLAS BARBARA - SFX	Chevron U.S.A. Inc.	0.15	931/334	n/a	n/a	n/a
		ZAREMBA LINDA - SFX	Chevron U.S.A. Inc.	0.15	931/325	n/a	n/a	n/a
		SPIESS AMBER - SFX	Chevron U.S.A. Inc.	0.15	966/222	n/a	n/a	n/a
		SCALES SHEENA LEA - SFX	Chevron U.S.A. Inc.	0.15	941/365	n/a	n/a	n/a
		HUGHES WILLIAM R - SFX	Chevron U.S.A. Inc.	0.15	941/374	n/a	n/a	n/a
		MANZO ANTHONY F - SFX	Chevron U.S.A. Inc.	0.15	939/174	n/a	n/a	n/a
		MANZO DANIEL SR - SFX	Chevron U.S.A. Inc.	0.15	935/201	n/a	n/a	n/a
		ROBINSON ROBERT H SR - SFX	Chevron U.S.A. Inc.	0.15	932/271	n/a	n/a	n/a
		ROBINSON ROBERT H JR - SFX	Chevron U.S.A. Inc.	0.15	932/386	n/a	n/a	n/a
		SHROYER LISA - SFX	Chevron U.S.A. Inc.	0.15	934/468	n/a	n/a	n/a
		ROBINSON KEITH A - SFX	Chevron U.S.A. Inc.	0.15	932/283	n/a	n/a	n/a
		SIMONETTI JOHN L - SFX	Chevron U.S.A. Inc.	0.15	932/238	n/a	n/a	n/a
		SIMONETTI JOHN M - SFX	Chevron U.S.A. Inc.	0.15	932/235	n/a	n/a	n/a

Office of Oil and Gas

DEC 17 2018

WV Department of
Environmental Protection

4705102145

Freeland Unit #3H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		SIMONETTI JAMES - SFX	Chevron U.S.A. Inc.	0.15	932/232	n/a	n/a	n/a
		CUDDIHY CHARLES D - SFX	Chevron U.S.A. Inc.	0.15	932/274	n/a	n/a	n/a
		CUDDIHY DAVID - SFX	Chevron U.S.A. Inc.	0.15	932/247	n/a	n/a	n/a
		DRUMMOND CAROL - SFX	Chevron U.S.A. Inc.	0.15	934/106	n/a	n/a	n/a
		KAVANAS MARGO - SFX	Chevron U.S.A. Inc.	0.15	929/523	n/a	n/a	n/a
		KING WELDON L ET UX - SFX	Chevron U.S.A. Inc.	0.16	937/347	n/a	n/a	n/a
		DEBLASIO RENA ELAINE - SFX	Chevron U.S.A. Inc.	0.15	954/22	n/a	n/a	n/a
		WILLIAMS REBELLEE - SFX	Chevron U.S.A. Inc.	0.15	976/268	n/a	n/a	n/a
		SHEETS GARY ET UX - SFX	Chevron U.S.A. Inc.	0.15	944/397	n/a	n/a	n/a
		MCALISTER JULIE - SFX	Chevron U.S.A. Inc.	0.15	954/25	n/a	n/a	n/a
		VON BLON JUDITH R - SFX	Chevron U.S.A. Inc.	0.14	928/186	n/a	n/a	n/a
		WASHABAUGH REGINA - SFX	Chevron U.S.A. Inc.	0.14	928/168	n/a	n/a	n/a
		MCDANIEL SHEILA - SFX	Chevron U.S.A. Inc.	0.14	928/183	n/a	n/a	n/a
		VAUGHN DAVID JR - SFX	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
		COOK ELLEN - SFX	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
		HORNSBY VIRGINIA - SFX	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
		CHENOWETH PATRICIA - SFX	Chevron U.S.A. Inc.	0.14	942/536	n/a	n/a	n/a
		CALDWELL DORIS - SFX	Chevron U.S.A. Inc.	0.14	931/316	n/a	n/a	n/a
		BELL LAURA L - SFX	Chevron U.S.A. Inc.	0.15	934/103	n/a	n/a	n/a
C	4-7-20	DEMPSEY SHANNON - SFX	Chevron U.S.A. Inc.	0.18	949/16	n/a	n/a	n/a
		CIRULLO JACQUELINE - SFX	Chevron U.S.A. Inc.	0.15	932/256	n/a	n/a	n/a
		RUCKMAN CURTISS - SFX	Chevron U.S.A. Inc.	0.15	934/97	n/a	n/a	n/a
		ZISKO WENDY ELIZABETH	Chevron U.S.A. Inc.	0.15	944/394	n/a	n/a	n/a
		COX-WEIGUM DARLENE - LIFE ESTATE - SFX	Chevron U.S.A. Inc.	0.16	1008/564	n/a	n/a	n/a
		RUCKMAN MICHAEL - SFX	Chevron U.S.A. Inc.	0.18	1013/567	n/a	n/a	n/a
		CROSSMAN JAMIE - SFX	Chevron U.S.A. Inc.	0.16	979/337	n/a	n/a	n/a
		HYDE ORPHA MAY - SFX	Noble Energy, Inc.	0.15	833/470	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		LINDSEY BEVERLY LINDA HUBER AIF - SFX	Chevron U.S.A. Inc.	0.15	944/388	n/a	n/a	n/a

Office of Oil and Gas

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4705102145

Freeland Unit #3H - BATCH 1 - MRCL FULL

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

4705102145
 Freeland Unit #3H - BATCH 1 - MRCL FULL

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WV Department of Environmental Protection

4705102145

Freeland Unit #3H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		BASIL ROSS V - SFX	Noble Energy, Inc.	0.15	816/281	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		BASIL ANTHONY C - SFX	Noble Energy, Inc.	0.15	803/610	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
D	4-7-12	HG ENERGY II APPALACHIA LLC	Chevron U.S.A. Inc.	0.2	954/478	n/a	n/a	n/a
E	4-7-4	MASON JOHN K ET UX	Noble Energy, Inc.	0.18	858/313	39/1 Noble Energy, Inc to HG Energy II Appalachia, LLC	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a

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WV Department of
Environmental Protection



Kevin J Cruz
Land Representative, AMBU

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

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

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WV Department of
Environmental Protection

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

Date of Notice Certification: 12/14/18

API No. 47- _____ - _____
Operator's Well No. M03H
Well Pad Name: Freeland

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>520423.79</u>
County: <u>Marshall</u>		Northing: <u>4413089.65</u>
District: <u>Clay</u>	Public Road Access: <u>CR 21 Robert Ridge Road</u>	
Quadrangle: <u>Powhatan Point, WV 7.5'</u>	Generally used farm name: <u>Freeland</u>	
Watershed: <u>Short Creek - Ohio River</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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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 Oil and Gas Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

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DEC 17 2018
WV Department of
Environmental Protection

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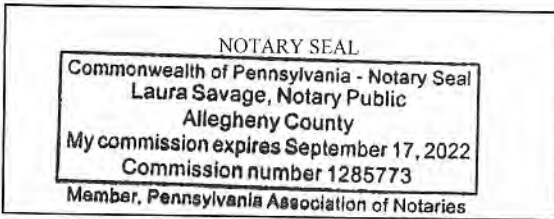
Certification of Notice is hereby given:

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

Jenny Butchko

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

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



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

My Commission Expires September 17, 2022

Oil and Gas Privacy Notice:

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

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Oil and Gas
JUL 19 2018
Department of
Environment and Natural Resources

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

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

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

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

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

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

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

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

SURFACE OWNER(s)
Name: Joseph L. Freeland and Debra J. Freeland
Address: 813 Clearview Terrace
New Martinsville, WV 26155
Name: Joseph L. Freeland
Address: 813 Clearview Terrace
New Martinsville, WV 260155

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: Consol Mining Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR
Name: Murray Energy Corp.
Address: 46226 National Road
St. Clairsville, OH 43950

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attachment
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary
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Office of Oil and Gas
DEC 17 2018

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

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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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.**

Environmental Protection

4705102145

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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Office of Oil and Gas

DEC 17 2013

WV Department of
Environmental Protection

Notice is hereby given by: **4705102145**

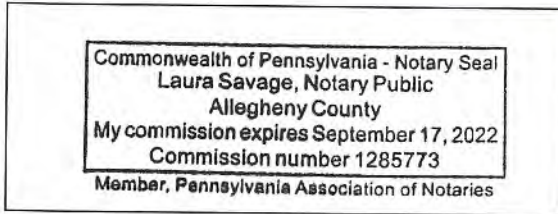
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: JZYK@chevron.com

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

Jenny Butchko

Oil and Gas Privacy Notice:

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



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

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DEC 17 2018

WV Department of
Environment & Protection

03/01/2019

4705102145

Attachment to WW-6A

API No. 47- _____ - _____

OPERATOR WELL NO. M03H

Well Pad Name: Freeland

- SURFACE OWNER**
Name:
Address:

- COAL OWNER OR LESSEE**
Name:
Address:

- COAL OPERATOR**
Name:
Address:

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Joseph L. Freeland ET UX /
Address: 813 Clearview Terrace
New Martinsville, WV 26155

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Cathy J. and Carl F Petrucci, Jr.
Address: 863 Petrucci Lane
Moundsville, WV 26041

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Norman L. Derrow, ET UX
Address: 97 Old Homestead Lane
Moundsville, WV 26041

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name:
Address:

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name:
Address:

RECEIVED
Office of Oil and Gas

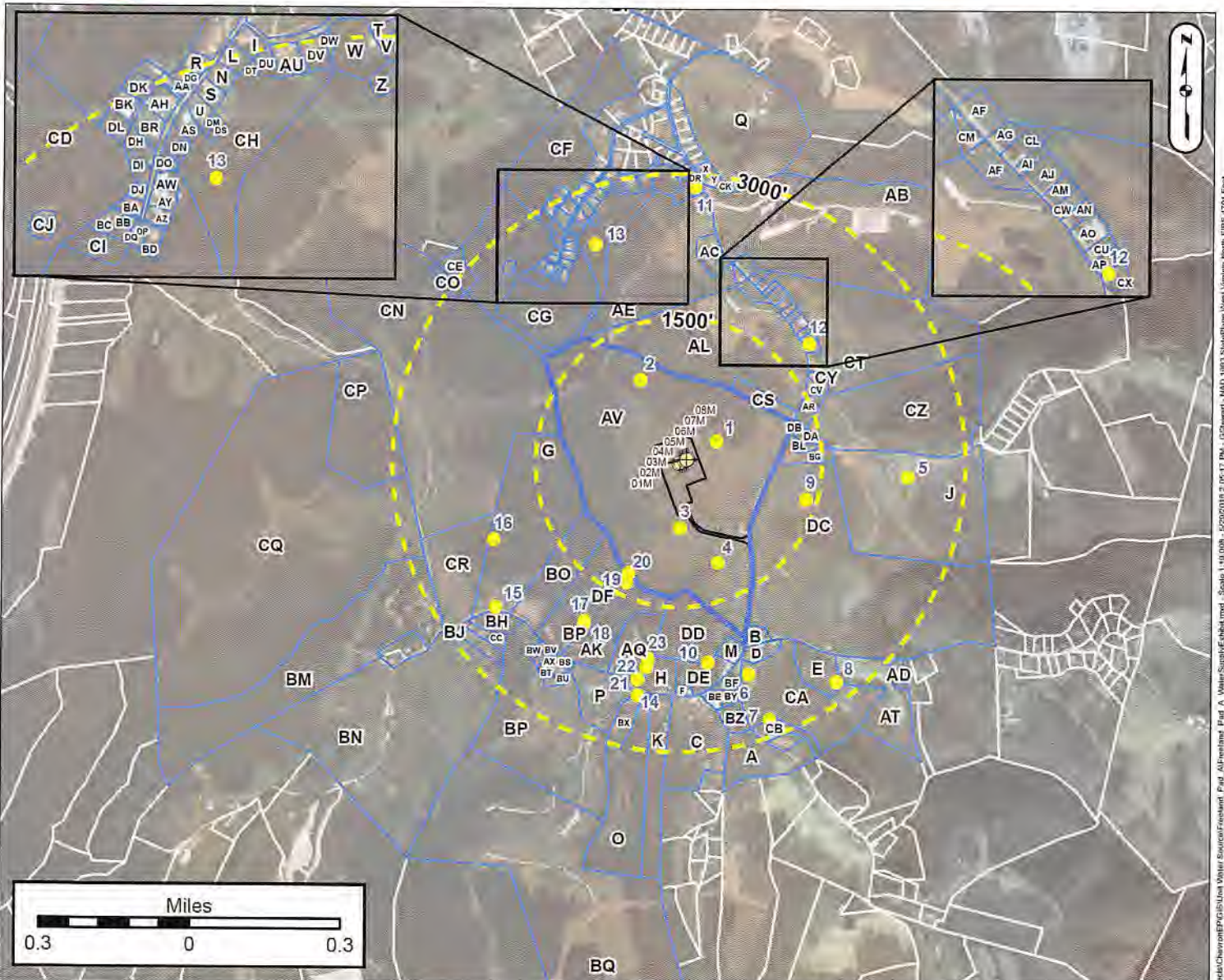
DEC 17 2018

WV Department of
Environmental Protection



WATER SUPPLY EXHIBIT FREELAND PAD A

03/01/2019

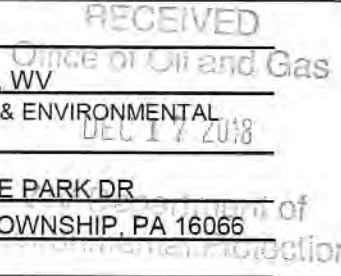


LOT OWNERS

Lot	Owner	Parcel ID	Lot	Owner	Parcel ID	Lot	Owner	Parcel ID	Lot	Owner	Parcel ID
1	DAVID	25-04 7800140000	11	DAVID GREGG T	25-04 7800140000	12	DAVID GREGG T	25-04 7800140000	13	DAVID GREGG T	25-04 7800140000
2	BASSETT GREGG WOOD	25-04 7800140000	12	DAVID GREGG T	25-04 7800140000	13	DAVID GREGG T	25-04 7800140000	14	DAVID GREGG T	25-04 7800140000
3	HUNT WILLIAM ROBERT	25-04 7800140000	13	DAVID GREGG T	25-04 7800140000	14	DAVID GREGG T	25-04 7800140000	15	DAVID GREGG T	25-04 7800140000
4	JOHNS PHILIP ET UX	25-04 7800140000	14	DAVID GREGG T	25-04 7800140000	15	DAVID GREGG T	25-04 7800140000	16	DAVID GREGG T	25-04 7800140000
5	CHAMBERS DAVID E	25-04 7800140000	15	DAVID GREGG T	25-04 7800140000	16	DAVID GREGG T	25-04 7800140000	17	DAVID GREGG T	25-04 7800140000
6	MAISON SHELBY A	25-04 7800140000	16	DAVID GREGG T	25-04 7800140000	17	DAVID GREGG T	25-04 7800140000	18	DAVID GREGG T	25-04 7800140000
7	BERNARD WALTERMAN & REBEKAH	25-04 7800140000	17	DAVID GREGG T	25-04 7800140000	18	DAVID GREGG T	25-04 7800140000	19	DAVID GREGG T	25-04 7800140000
8	ROBINSON MARK A ET UX	25-04 7800140000	18	DAVID GREGG T	25-04 7800140000	19	DAVID GREGG T	25-04 7800140000	20	DAVID GREGG T	25-04 7800140000
9	RYAN WILLIAM R ET UX	25-04 7800140000	19	DAVID GREGG T	25-04 7800140000	20	DAVID GREGG T	25-04 7800140000	21	DAVID GREGG T	25-04 7800140000
10	HIGGINBOTHAM STEVEN J ET UX	25-04 7800140000	20	DAVID GREGG T	25-04 7800140000	21	DAVID GREGG T	25-04 7800140000	22	DAVID GREGG T	25-04 7800140000
11	DANAHAY SHAWA ET UX	25-04 7800140000	21	DAVID GREGG T	25-04 7800140000	22	DAVID GREGG T	25-04 7800140000	23	DAVID GREGG T	25-04 7800140000
12	HILL LINDSEY GALE & TAMAR SUE	25-04 7800140000	22	DAVID GREGG T	25-04 7800140000	23	DAVID GREGG T	25-04 7800140000			
13	RATLIFF JEFFREY C	25-04 7800140000	23	DAVID GREGG T	25-04 7800140000						
14	ROSTNER MIKE & KELLY	25-04 7800140000									
15	DANAHAY SHAWA D & KELLY	25-04 7800140000									
16	BREWER CHARLES W ET UX	25-04 7800140000									
17	HARTLEY CHARLES DEBBERT ET UX	25-04 7800140000									
18	WITTHE JOSEPH M ET UX	25-04 7800140000									
19	REINHARDT JAMES A & SHELBY M - WOOD	25-04 7800140000									
20	LUCAS ROBERT ET UX	25-04 7800140000									
21	EMASTERS MICHELLE B	25-04 7800140000									
22	MYERS BARBARA A - LIFE	25-04 7800140000									

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



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



Water Supply Exhibit
Freeland Pad

03/01/2019

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

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

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Environmental Protection

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



Water Supply Exhibit
Freeland Pad

03/01/2019
GEM

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

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

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WV Department of
Environmental Protection

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

4705102145 03/01/2019

**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.

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

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

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

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

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 520423.79
County: Marshall Northing: 4413089.65
District: Clay Public Road Access: CR 21 Robert Ridge Road
Quadrangle: Powhatan Point, WV 7.5' Generally used farm name: Freeland
Watershed: Short Creek - Ohio River

This Notice Shall Include:

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

Notice is hereby given by:

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

Authorized Representative: _____
Address: _____
Telephone: _____
Email: _____
Facsimile: _____

Oil and Gas Privacy Notice:

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

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

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

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

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

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

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

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

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>520423.79</u>
County:	<u>Marshall</u>		Northing:	<u>4413089.65</u>
District:	<u>Clay</u>	Public Road Access:	<u>CR 21 Robert Ridge Road</u>	
Quadrangle:	<u>Powhatan Point, WV 7.5'</u>	Generally used farm name:	<u>Freeland</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

DEC 17 2018

WV Department of
Environmental Protection

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>520423.79</u>
County:	<u>Marshall</u>		Northing:	<u>4413089.65</u>
District:	<u>Clay</u>	Public Road Access:	<u>CR 21 Robert Ridge Road</u>	
Quadrangle:	<u>Powhatan Point, WV 7.5'</u>	Generally used farm name:	<u>Freeland</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Joseph L. Freeland</u></p> <p>Print Name: <u>Joseph L. Freeland</u></p> <p>Date: <u>11-20-18</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
--	--

Oil and Gas Privacy Notice:

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

State:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>520423.789</u>
County:	<u>Marshall</u>		Northing:	<u>4413089.654</u>
District:	<u>Clay</u>	Public Road Access:	<u>Robers Ridge Road</u>	
Quadrangle:	<u>Powhatan Point 7.5'</u>	Generally used farm name:	<u>Freeland</u>	
Watershed:	<u>Upper Ohio-Beaver</u>			

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

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

Oil and Gas Privacy Notice:

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

RECEIVED
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
www.DepartmentofEnvironment.commission



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

November 2, 2018

Jill M. Newman
Deputy Commissioner

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

Subject: DOH Permit for the Freeland Pad, Marshall County
Freeland M03H

Dear Mr. Martin,

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

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

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

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

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DEC 17 2018

WV Department of
Environmental Protection

03/01/2019

4705102145

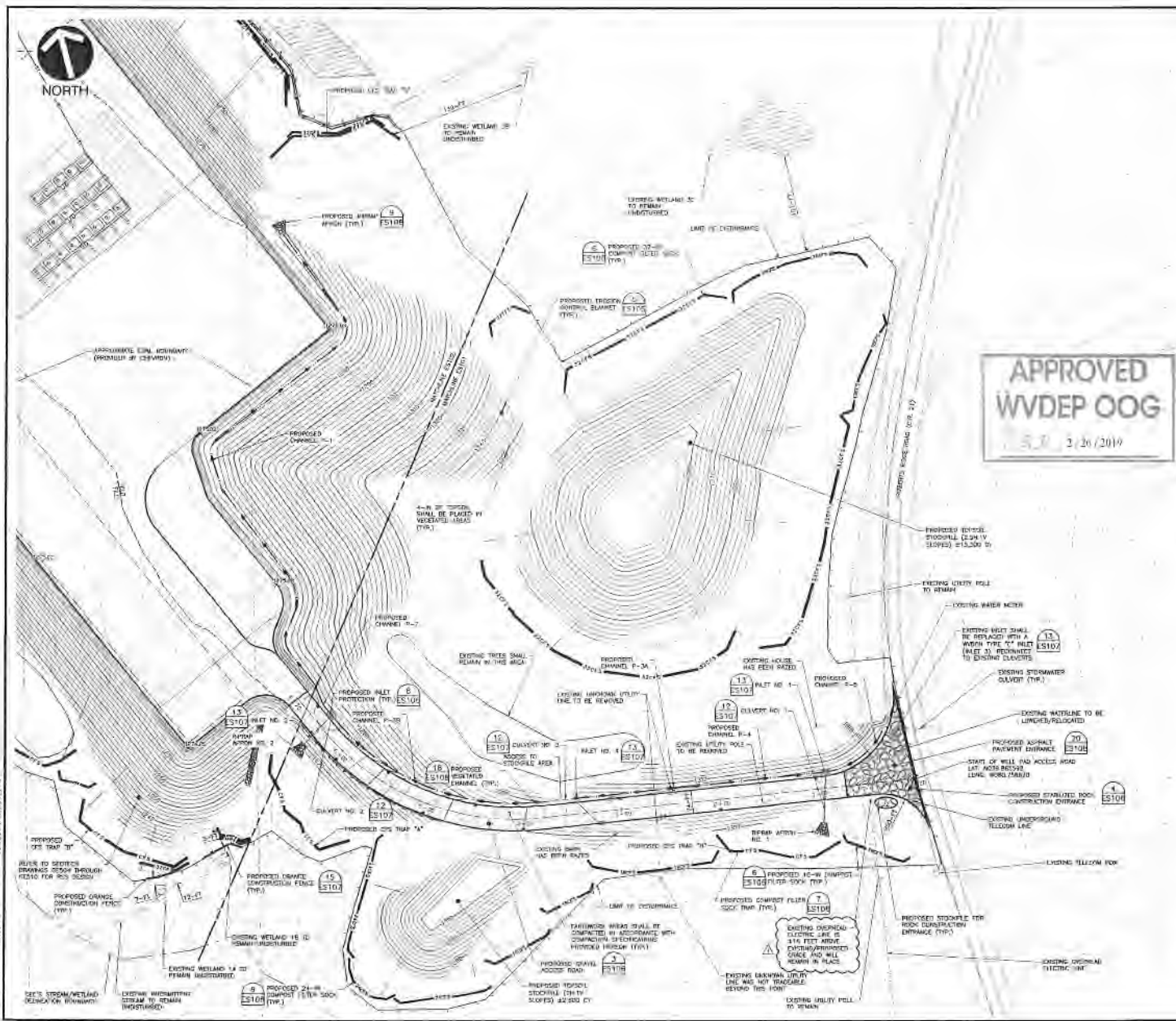
Hydraulic Fracturing Fluid Additives

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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Office of Oil and Gas

DEC 17 2018

WV Department of
Environmental Protection



LEGEND:

- EXISTING PROPERTY LINE
- EXISTING FENCE CORNER
- EXISTING INTERMEDIATE CONTOUR
- EXISTING DRAIN CHANNEL
- EXISTING CHANNEL ROOFLINE
- EXISTING STRUCTURE/BLANKET
- EXISTING STREAM
- EXISTING AND PROPOSED WETLAND BOUNDARY
- EXISTING AND PROPOSED WETLAND
- EXISTING CHANNEL ELEVATION (FT)
- EXISTING WATER METER
- EXISTING WATERBURY
- EXISTING TELECOMMUNICATION LINE
- EXISTING STORMWATER DRAINAGE
- EXISTING FIRE LINE
- EXISTING WATER METER
- EXISTING UTILITY POLE
- EXISTING INLET
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED EDGE OF ACCESS ROAD/PAV
- PROPOSED DRAINAGE
- PROPOSED AGRICULTURAL SWATHING
- PROPOSED CONTAINMENT BERM
- PROPOSED WETLAND AND BELLUP
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED HOIST ELEVATION
- PROPOSED CHANNEL WALL
- PROPOSED COMPOST FILTER SOCK TOP
- PROPOSED 18-IN COMPOST FILTER SOCK
- PROPOSED 24-IN COMPOST FILTER SOCK
- PROPOSED 30-IN COMPOST FILTER SOCK
- PROPOSED CHANNEL CONSTRUCTION STRIPS
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED INLET PROTECTION
- PROPOSED CHANNEL
- PROPOSED STORMWATER DRAINAGE
- PROPOSED INLET
- PROPOSED BERM AREA
- PROPOSED UNDERDRAIN
- PROPOSED EROSION CONTROL BLANKET

APPROVED
WVDEP OOG
5.0 3/26/2019

- WETLAND AND WETLAND NOTES**
- WETLAND AVOIDANCE IS BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE: WETLAND 1A, 1B, 2, AND 4.
 - THE DISTANCE SHOWN BETWEEN COURSE AND THE LIMIT OF DISTURBANCE ARE EMERGENCY OF INTERFERENCE. AS SUCH, A WAIVER IS NOT BEING REQUESTED FOR INTERFERING STRIPES.
 - EMERGENCY STRIPES ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

- COMPACTION SPECIFICATIONS**
- PLACE ALL FILL MATERIALS USING COMPACTION EQUIPMENT WITH GREATER THAN 10-IN WEIGHT IN CONTACT. LETS NOT EXCEEDING 12 INCHES THICK. USE A REMOVED LOCKER LET THICKNESS OF 4 INCHES (MINIMUM) IN AREAS WHERE STEEL-PLATE TAMPERS OR OTHER HAND-OPERATED EQUIPMENT ARE USED. SOILS BEING MANIPULATED BY HAND SHOULD NOT EXCEED 6 INCHES IN SINGLE PASS. FILL SHOULD BE PLACED IN 4 INCHES. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 3/8 INCHES. MAXIMUM PASSES SHOULD BE USED IN AREAS WHERE HAND-OPERATED EQUIPMENT IS USED. WHERE OVERLAP PARTICLES OCCUR, THE MAXIMUM PARTICLE SIZE INDICATED ABOVE OUTSIDE OF THE PROPOSED FILL AREAS OR IN EXISTING AREAS OF FILL. EXISTING SOIL PARTICLES (E.G. MATERIALS EXISTING 6 INCHES) PLACED IN THE EXISTING LIMITS OF FILL SHOULD BE PLACED IN LIFT. NOT EXCEEDING 24 INCHES. LIFTS SHOULD BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
 - COMPACT ALL ROAD AND ROADWAY SURFACES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY WITH 95 PERCENT OF THE OPTIMUM MOISTURE CONTENT. OBTAINING MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).
 - ADDITIONAL SPECIFICATIONS ARE REQUIRED FOR THE PROPOSED IMPROVED SOIL SLOPE. (SEE AREA) REFER TO DRAWINGS GEOTECH THROUGH DESIGN FOR ADDITIONAL INFORMATION.

- REFERENCES**
- STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/24/2017.
 - UNDERGROUND UTILITIES LOCATED BY A GEOTECHNICAL SURVEY CONDUCTED BY THE ENGINEERS LTD. DATED 03/22/2017 TO 03/23/2017.
 - UTILITY LOCATIONS SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/16/2017 TO 05/17/2017.
 - TOPOGRAPHY SURVEYED BY UNMANNED AERIAL VEHICLE (UAV) BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 04/18/2016.
 - PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.



MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
The West Virginia State Code Chapter 20, Article 24-C requires that you call the state before you dig in the state of West Virginia.
IT'S THE LAW

SCALE: 1" = 100'

C&E
Civil & Environmental Consultants, Inc.
1000 Heights Lane, Suite 200 - Laurel, WV 26044
Tel: 304-223-0000 Fax: 304-223-0001



REVISION REQUIRED

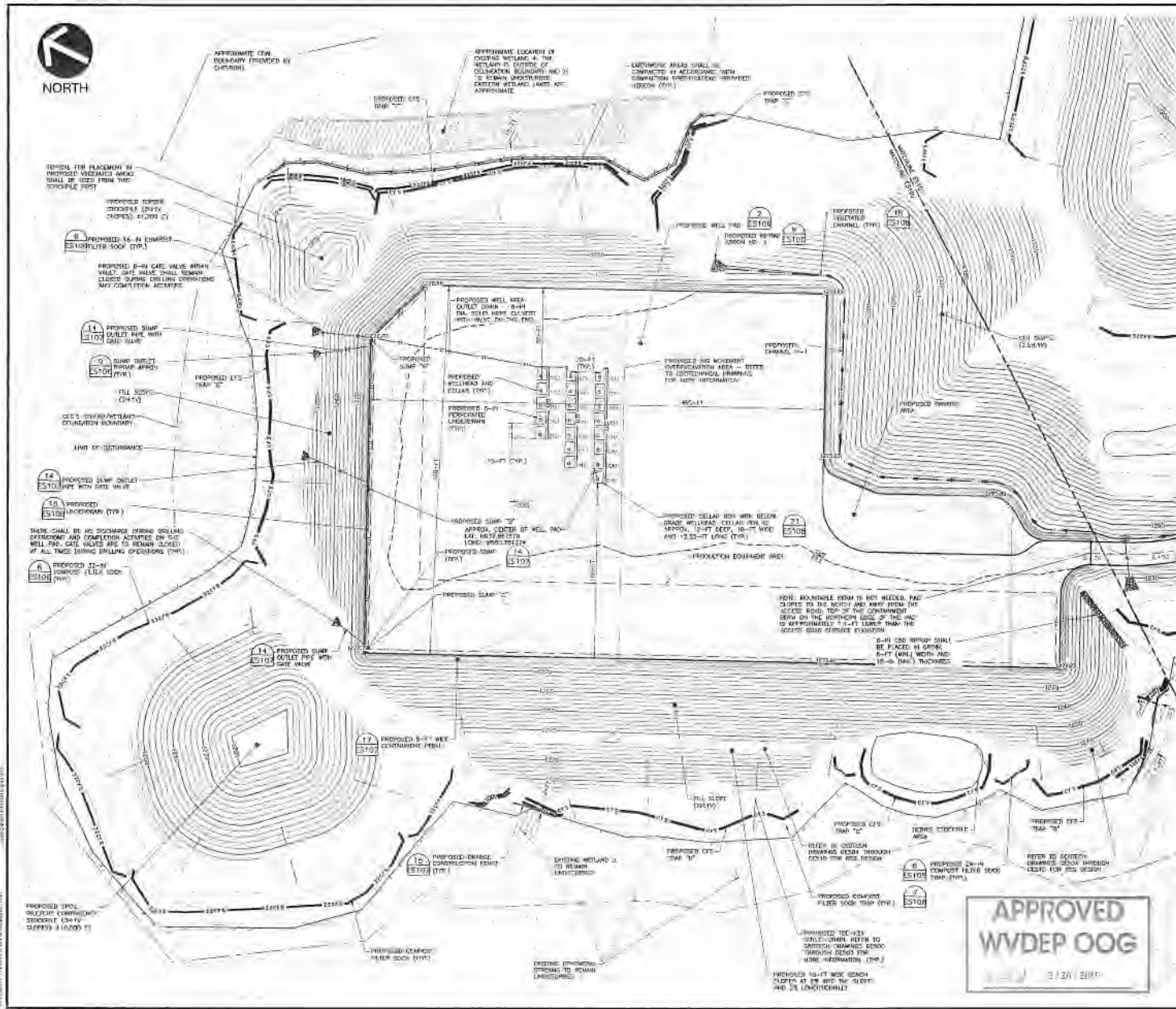
NO.	DATE	DESCRIPTION
1	05/24/17	ISSUE FOR PERMITTING
2	05/24/17	ISSUE FOR PERMITTING
3	05/24/17	ISSUE FOR PERMITTING
4	05/24/17	ISSUE FOR PERMITTING
5	05/24/17	ISSUE FOR PERMITTING
6	05/24/17	ISSUE FOR PERMITTING
7	05/24/17	ISSUE FOR PERMITTING
8	05/24/17	ISSUE FOR PERMITTING
9	05/24/17	ISSUE FOR PERMITTING
10	05/24/17	ISSUE FOR PERMITTING

FREELAND WELL PAD
CLAY COUNTY, WEST VIRGINIA
PREPARED FOR
CHEVRON APPALACHIA, LLC
700 CHESTERINGTON PARKWAY
CORAOPOLIS, PA 15106

EROSION AND SEDIMENT CONTROL PLAN (1 OF 2)
Project Number: 170303
Drawing Date: 2/22/17
Date Issued: 3/16/2017
Author: [Redacted]
Checked By: D.E.
Printed: 03/16/2017
ES 101



NORTH



- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - - - EXISTING PADDED ROADWAY
 - EXISTING SHOULDER ROADWAY
 - EXISTING STRUCTURE/SLABING
 - EXISTING STREAM
 - STREAM AND WETLAND DELINEATION BOUNDARY
 - EXISTING WETLAND
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERLINE
 - EXISTING TELECOMMUNICATION LINE
 - EXISTING STORMWATER CULVERT
 - EXISTING TREE LINE
 - EXISTING WATER METER
 - EXISTING UTILITY POLE
 - EXISTING WELL
 - PROPOSED LIMIT OF DISTURBANCE
 - PROPOSED EDGE OF ACCESS ROAD/PAVEMENT
 - PROPOSED DRAINAGE
 - PROPOSED CANAL/PAVEDOUT
 - PROPOSED CONTAINMENT BENCH
 - PROPOSED WELLS/HEAD AND CELLAR
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED SPOT ELEVATION
 - PROPOSED LOT/LEGAL LINE
 - PROPOSED COMPOST FILTER SOCK TRAP
 - PROPOSED 18-H COMPOST FILTER SOCK
 - PROPOSED 24-H COMPOST FILTER SOCK
 - PROPOSED 30-H COMPOST FILTER SOCK
 - PROPOSED FENCE CONSTRUCTION FENCE
 - PROPOSED INDEX CONSTRUCTION ENTRANCE
 - PROPOSED WELLS PROTECTION
 - PROPOSED CHIMNEY
 - PROPOSED STORMWATER CULVERT
 - PROPOSED WELL
 - PROPOSED SIGN/BLANK SIGN
 - PROPOSED UNDERDRAIN
 - PROPOSED EROSION CONTROL BLANKET
- 1 — DETAIL NUMBER
 1A — DETAIL LOCATION

- STREAM AND WETLAND NOTES**
- WETLAND WAYS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE, WETLANDS WA 1, WA 2, WA 3, WA 4.
 - THE STREAMS SHOWN HEREIN OUTSIDE THE LIMIT OF DISTURBANCE ARE ESSENTIAL OR IMPORTANT AS STREAMS, A WETLAND IS NOT BEING PROTECTED FOR ORIGINAL STREAMS.
 - CONDENSING SHOWN HEREIN ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.
- COMPACTION SPECIFICATIONS**
- PLACE SOIL FILL MATERIALS USING COMPACTION EQUIPMENT WITH GREATER THAN 18-INCH DEPTH IN COMPACTED LISTS NOT EXCEEDING 12 INCHES THICK. USE A REMOVED SOLELY LIST THICKNESS OF 4 INCHES (MAXIMUM) IN AREAS WHERE STEEL-PLATE TAMPER OR OTHER WHEEL-SPEARED COMPACTION IS USED. MAXIMUM PARTICLE SIZE SHOULD NOT EXCEED 4 INCHES IN STRUCTURAL FILL AREAS AND 2 INCHES IN OTHER AREAS. UNDESIRABLE MATERIALS SHOULD BE REJECTED. UNDESIRABLE MATERIALS (EXCEEDING THE MAXIMUM PARTICLE SIZE) SHOULD BE PLACED IN AREAS OF THE PROPOSED FILL AREAS OR IN REJECTED AREAS OF FILL. UNDESIRABLE MATERIALS EXCEEDING 6 INCHES (PLACED IN THE REJECTS) OF FILL SHOULD BE PLACED IN LOTS NOT EXCEEDING 24 INCHES. LOTS SHOULD BE COMPACTED IN SEVERAL PASSES USING HEAVY COMPACTION EQUIPMENT.
 - CONTACT ALL PAD AND ROADWAY SUBSTRATES AND EACH LIFT OF FILL MATERIAL TO A MINIMUM OF 85 PERCENT OF ITS MAXIMUM DRY DENSITY WITHIN 25 PERCENT OF THE ORIGINAL MOISTURE CONTENT. DETERMINE MAXIMUM SWP DENSITY AND OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D998 (STANDARD PRACTICE).
 - ADDITIONAL SPECIFICATIONS ARE REQUIRED FOR THE PROPOSED REMOVED SOIL (R2S) AREAS. REFER TO CHANGES 2000 FINGER 2004 FOR ADDITIONAL INFORMATION.

REFERENCES

- STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 05/24/2017.
- UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY, CONDUCTED BY THE ENGINEERS LTD. DATED 08/22/2017 TO 08/26/2017.
- UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/03/2017 TO 10/17/2017.
- TOPOGRAPHY SURVEYED BY UNANIMATED AERIAL VEHICLE (UAV) BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 04/10/2016 TO 04/13/2016.
- PROPERTY BOUNDARIES WERE PROVIDED BY 0-00000.

MISS UTILITY OF WEST VIRGINIA
 1-800-245-4848
 New Market, West Virginia
 (Protect Your Choice. Take the extra step. Get the best value for your investment.)
IT'S THE LAW

SCALE IN FEET

Civil & Environmental Consultants, Inc.
 10448 Tangle Lake Lane, Suite 300 • Spring Hill, VA 22151
 (703)270-0029

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER
 STATE OF WEST VIRGINIA
 LICENSE NO. 31083

REVISION REQUIRED

NO.	DATE	DESCRIPTION

FREELAND WELL PAD
 CLAY DISTRICT
 MARSHALL COUNTY, WEST VIRGINIA

CHEVRON APPALACHIA, LLC
 PREPARED FOR:
 707 CHARMAN/STATION PARKWAY
 CORAOPOLIS, PA 15109

EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)

Drawn By: J28250
 Reviewer: J28250
 Issue Date: 11/17/2023
 Project No: 2103002
 Title: FREE
 Client: CHEV
 Check By: J28
 Issue Date: 11/17/2023

ES 102