

10/05/2018



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, October 5, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HINES M20H
47-051-02087-00-00

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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: HINES M20H
Farm Name: DONALD HINES ET UX
U.S. WELL NUMBER: 47-051-02087-00-00
Horizontal 6A New Drill
Date Issued: 10/5/2018

Promoting a healthy environment.

PERMIT CONDITIONS 4705102087

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.

API Number: _____ 10/05/2018

PERMIT CONDITIONS 4705102087

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
800 Mountain View Drive
Smithfield, PA 15478

DATE: August 14, 2017
ORDER NO.: 2017-W-9

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 "Chevron" or "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 is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 800 Mountain View Drive, Smithfield, Pennsylvania.
3. On April 24, 2017, Chevron submitted well work permit applications identified as API#s 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. The eight proposed wells are to be located on the Hines Pad in Washington District of Marshall County, West Virginia.
4. On April 24, 2017, Civil and Environmental Consultants, Inc. (CEC), on behalf of Chevron, requested a waiver for Wetlands 2A, 2B, 3A, and 3B 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 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. Wetlands 3A and 3B will be excluded from this waiver due to being located outside the area of the pad LOD.

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.”

4705102087

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 2A and 2B from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-01926, 47-051-01927, 47-051-01928, 47-051-01929, 47-051-01930, 47-051-01931, 47-051-01932 and 47-051-01933. The Office of Oil and Gas hereby **ORDERS** that Chevron shall meet the following site construction and operational requirements for the Hines Well Pad:

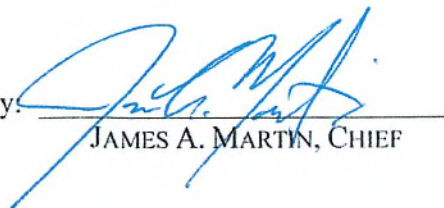
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland 2A shall have two layers of eighteen-inch (18”) compost filter sock trap to prevent sediment from reaching the wetlands.
- d. Wetland 2B shall have two layers of twenty-four inch (24”) compost filter sock trap to prevent sediment from reaching the wetlands.
- 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.

4705102087

Thus ORDERED, the 14th day of August, 2017.

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

4705102087

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 Washington Moundsville, WV
Operator ID County District Quadrangle

2) Operator's Well Number: M20H Well Pad Name: Hines

3) Farm Name/Surface Owner: Hines Public Road Access: Route 38/Campbell Hill Road

4) Elevation, current ground: 1125' Elevation, proposed post-construction: 1125'

5) Well Type (a) Gas X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus; 6,245' below GL; 50' thick; pore pressure gradient 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,289'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,354'

11) Proposed Horizontal Leg Length: 8,926'

12) Approximate Fresh Water Strata Depths: 360' below GL - Base of Dunkard Group

13) Method to Determine Fresh Water Depths: No water wells within 1.5 miles - used base of Dunkard group as deepest potable water in Marshall County

14) Approximate Saltwater Depths: 1046', 1595', 1837' Below GL

15) Approximate Coal Seam Depths: Waynesburg Seam 365' Below GL; Pittsburgh Seam 640' Below GL

16) Approximate Depth to Possible Void (coal mine, karst, other): No Void expected

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

(a) If Yes, provide Mine Info: Name: Ireland Mine
Depth: 640' Below GL
Seam: Pittsburgh Coal
Owner: Murray Energy Corp owns Ireland Mine; Consol owns Coal Pillar wells will be drilled in.

RECEIVED
Office of Oil and Gas
SEP 27 2018
WV Department of
Environmental Protection

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New			60	60	CTS
Fresh Water	13.375	New	J-55	54.5	410	410	CTS
Coal							
Intermediate	9.625	New	L-80	40	1,858	1,858	CTS
Production	5.50	New	P110	20	17,354	17,354	2358 (500' below 9.625" shoe)
Tubing							
Liners							

W
3/29/18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	30					
Fresh Water	13.375	17.5	0.38	2730	1911	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5750	2768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14360	9975	Class A, G, or H	1.25
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

4705102087

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 6,289 feet. Drill horizontal leg.

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

Frac with 400,000 lb. sand with 9,525 bbl fluid per stage; anticipated maximum pressure is 9,400 and anticipated max rate in BPM is 100

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8 acres

22) Area to be disturbed for well pad only, less access road (acres): 2 acres

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

RECEIVED
Office of Oil and Gas
SEP 27 2018

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.

WV Department of
Environmental Protection

*Note: Attach additional sheets as needed.

HINES PAD CEMENT ADDITIVES

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

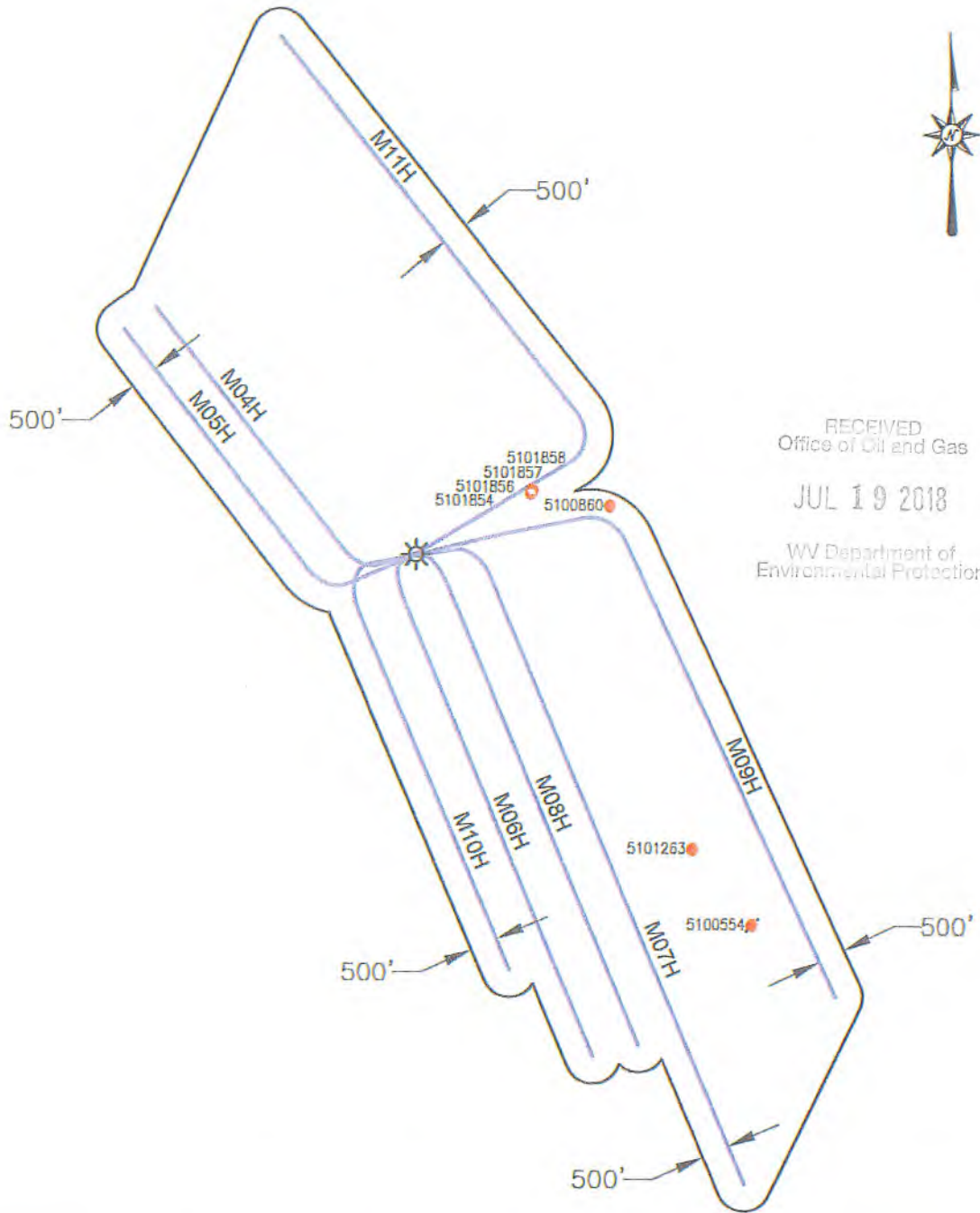
RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

Chevron		Hines M20H									
Washington Twp, Marshall Co, WV										Ground Level Elev. (ft above SL): 1,120	
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 Blowspring per ft	20" Conductor	60	60			26	<u>Conductor</u> 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	410	410			17.5	<u>Surface Casing</u> 13-3/8" 54.5# J-55 BTC 0.350" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	<u>Surface Blend (Class A)</u> Cement to Surface		
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 fts over coupling	9-5/8" Casing	1,858	1,858			12.375 - 12.25	<u>Intermediate Casing</u> 9-5/8" 40# L-80 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,080 Yield (Jt Strength 1,000 lbs) 916	<u>Intermediate II Blend (Class A)</u> Cement to Surface		
	Bow Spring: (1) per every other ft over coupling SpiraGlider or Centek: (1) per ft of csg to KOP	5-1/2" Casing	17,354				8.75 - 8.5	<u>Production Casing</u> 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 720	<u>Production Lead Slurry</u> Cement to 500' below 9-5/8" shoe <u>Production Tail Slurry</u> TOC minimum 200' above Marcellus		
Non-Conservation	Float Equip. Float Equip.	5-1/2" Casing	17,354				8.75 - 8.5				

RECEIVED
Office of Oil and Gas
JUL 19 2018
WV Department of
Environmental Protection



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

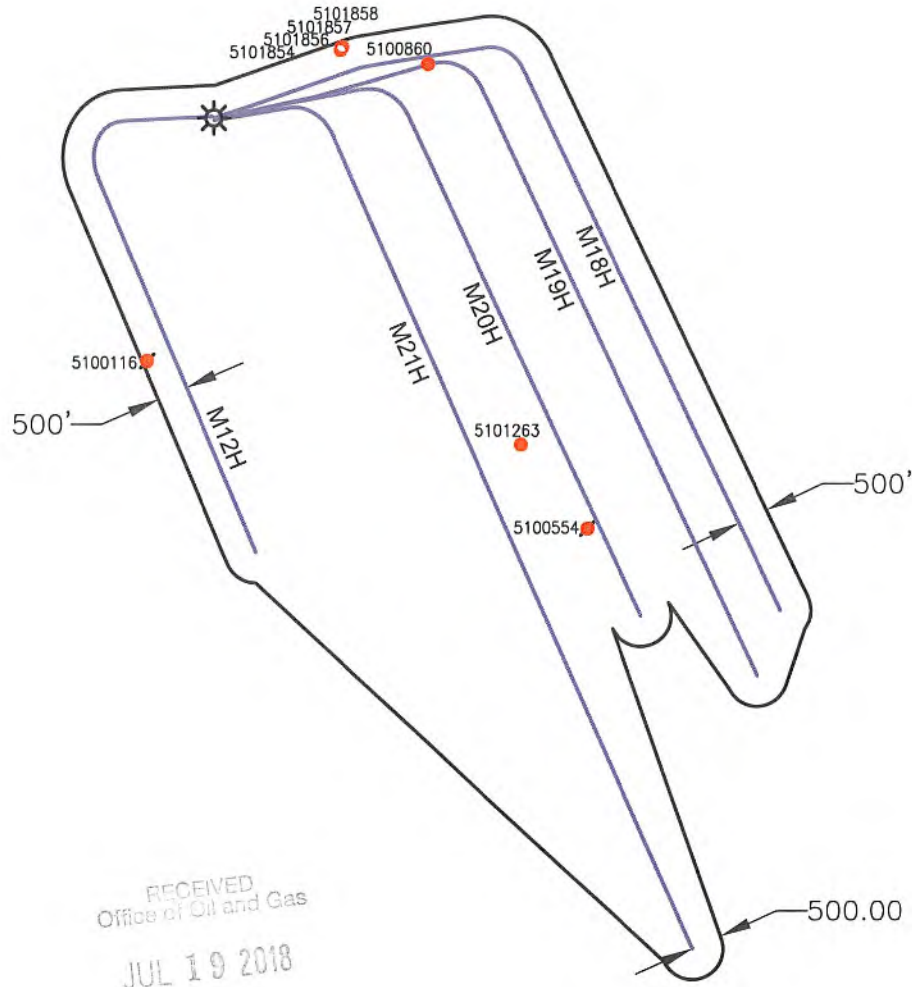
PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

LEGEND

- ☀ - WELL LOCATION
- - ACTIVE WELL
- - PLUGGED WELL
- - PERMITTED WELL

HINES
AREA OF REVIEW MAP
MARSHALL COUNTY
WASHINGTON DISTRICT
WEST VIRGINIA

TOPO QUAD: MOUNDSVILLE, WV
SCALE: 1" = 3000'
DATE: MARCH 2, 2017



RECEIVED
Office of Oil and Gas
JUL 19 2018
WV Department of
Environmental Protection

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
- ACTIVE WELL
- PLUGGED WELL
- PERMITTED WELL

**HINES BATCH 2
AREA OF REVIEW MAP
MARSHALL COUNTY
WASHINGTON DISTRICT
WEST VIRGINIA**

TOPO QUAD: MOUNDSVILLE, WV
SCALE: 1" = 3000'
DATE: FEBRUARY 5, 2018

10/05/2018

4705102087

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-00860	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.908767	-80.686817	840'	Pittsburgh Seam	None
47-051-01263	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Active	39.892007	-80.681121	Unknown	Unknown	None
47-051-00554	Kentucky Central & Co.	Unknown	Plugged	39.888303	-80.677210	1441'	Pottsville	None
47-051-01854	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909336	-80.691893	6317'	Marcellus	None
47-051-01856	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909383	-80.691856	6317'	Marcellus	None
47-051-01857	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909430	-80.691819	6317'	Marcellus	None
47-051-01858	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permitted	39.909477	-80.691782	6317'	Marcellus	None
47-051-00116	Unknown	Unknown	Plugged	39.895415	-80.702829	Unknown	Unknown	None

RECEIVED
 Office of Oil and Gas
 AUG 11 2018
 WV Department of
 Environmental Protection

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) Middle Grave Creek/Grave Creek Quadrangle Moundville, 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 _____)

RECEIVED
Office of Oil and Gas
JUL 19 2018
WV Department of
Environmental Protection

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air to KOP, SBM 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) _____

-Landfill or offsite name/permit number? Arden Landfill #100172, South Hills Landfill #100592, Short Creek Landfill #WV0109517

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 Jenny Hayes

Company Official (Typed Name) Jenny Hayes

Company Official Title Permitting Team Lead

Subscribed and sworn before me this 14th day of March, 2018

Laura Savage

Notary Public

My commission expires September 17, 2018

Commonwealth of Pennsylvania - Notary Seal
Laura Savage, Notary Public
Allegheny County
My commission expires September 17, 2018
Commission number 1285773
Member, Pennsylvania Association of Notaries

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 8 acres Prevegetation pH per soils testing report

Lime 3 Tons/acre or to correct to pH unless otherwise noted in soil report

Fertilizer type 10-20-20

Fertilizer amount 300 lbs/acre

Mulch 3, 5 for winter stabilization Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

See Attached

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: Jim Nichols

RECEIVED
Office of Oil and Gas

Comments: _____

JUL 19 2018

WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 4/5/18

Field Reviewed? Yes

No

SEED MIXTURES

Temporary		Permanent		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	50	Non Agricultural Upland		Hayfield, Pastureland, and Cropland	
or					
Winter Wheat	75	Tall Fescue	100	Orchard Grass	80
		Perennial Ryegrass	33	Timothy	80
		Ladino Clover	18	Birdsfoot - Trefoil	20
		Birdsfoot - Trefoil	18	Ladino Clover	20
		Red Top	6		

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection



Chevron

**Appalachian LLC
WV Well Site Safety Plan
Pad: **Hines Pad A**
Well # M20H**

*JW
3/27/18*

**1256 Campbell Hill Road
Moundsville, WV 26041
Washington District
Marshall County, WV**

**Access Point – [39.904947°N, 80.693363°W]
Well Site – [39.906387°N, 80.699914°W]
Marshall County, West Virginia**

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

BHL is located on topo map 11,737 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 3,823 feet south of Latitude: 39° 55' 00"

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
5. 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.
6. There are no existing buildings within 625' of proposed well.

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

BHL is located on topo map 2,071 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 9,108 feet west of Longitude: 80° 40' 00"

10/05/2018

WELL PAD ORIENTATION DETAIL			
M01HC	M13HC	U15HC	U28HC
M02HC	M14HC	U16HC	U29HC
M03HC	M15HC	U17HC	U30HC
M04HC	M16HC	U18HC	U31HC
M05HC	M17HC	U19HC	U32HC
M06HC	M18HC	U20HC	U33HC
M07HC	M19HC	U21HC	U34HC
M08HC	M20HC	U22HC	U35HC
M09HC	M21HC	U23HC	U36HC
M10HC	M22HC	U24HC	U37HC
M11HC	M23HC	U25HC	U38HC
M12HC	M24HC	U26HC	U39HC
M13HC	M25HC	U27HC	U40HC
M14HC	M26HC	U28HC	U41HC
M15HC	M27HC	U29HC	U42HC
M16HC	M28HC	U30HC	U43HC
M17HC	M29HC	U31HC	U44HC
M18HC	M30HC	U32HC	U45HC
M19HC	M31HC	U33HC	U46HC
M20HC	M32HC	U34HC	U47HC
M21HC	M33HC	U35HC	U48HC
M22HC	M34HC	U36HC	U49HC
M23HC	M35HC	U37HC	U50HC
M24HC	M36HC	U38HC	U51HC
M25HC	M37HC	U39HC	U52HC
M26HC	M38HC	U40HC	U53HC
M27HC	M39HC	U41HC	U54HC
M28HC	M40HC	U42HC	U55HC
M29HC	M41HC	U43HC	U56HC
M30HC	M42HC	U44HC	U57HC
M31HC	M43HC	U45HC	U58HC
M32HC	M44HC	U46HC	U59HC
M33HC	M45HC	U47HC	U60HC
M34HC	M46HC	U48HC	U61HC
M35HC	M47HC	U49HC	U62HC
M36HC	M48HC	U50HC	U63HC
M37HC	M49HC	U51HC	U64HC
M38HC	M50HC	U52HC	U65HC
M39HC	M51HC	U53HC	U66HC
M40HC	M52HC	U54HC	U67HC
M41HC	M53HC	U55HC	U68HC
M42HC	M54HC	U56HC	U69HC
M43HC	M55HC	U57HC	U70HC
M44HC	M56HC	U58HC	U71HC
M45HC	M57HC	U59HC	U72HC
M46HC	M58HC	U60HC	U73HC
M47HC	M59HC	U61HC	U74HC
M48HC	M60HC	U62HC	U75HC
M49HC	M61HC	U63HC	U76HC
M50HC	M62HC	U64HC	U77HC
M51HC	M63HC	U65HC	U78HC
M52HC	M64HC	U66HC	U79HC
M53HC	M65HC	U67HC	U80HC
M54HC	M66HC	U68HC	U81HC
M55HC	M67HC	U69HC	U82HC
M56HC	M68HC	U70HC	U83HC
M57HC	M69HC	U71HC	U84HC
M58HC	M70HC	U72HC	U85HC
M59HC	M71HC	U73HC	U86HC
M60HC	M72HC	U74HC	U87HC
M61HC	M73HC	U75HC	U88HC
M62HC	M74HC	U76HC	U89HC
M63HC	M75HC	U77HC	U90HC
M64HC	M76HC	U78HC	U91HC
M65HC	M77HC	U79HC	U92HC
M66HC	M78HC	U80HC	U93HC
M67HC	M79HC	U81HC	U94HC
M68HC	M80HC	U82HC	U95HC
M69HC	M81HC	U83HC	U96HC
M70HC	M82HC	U84HC	U97HC
M71HC	M83HC	U85HC	U98HC
M72HC	M84HC	U86HC	U99HC
M73HC	M85HC	U87HC	U100HC
M74HC	M86HC	U88HC	U101HC
M75HC	M87HC	U89HC	U102HC
M76HC	M88HC	U90HC	U103HC
M77HC	M89HC	U91HC	U104HC
M78HC	M90HC	U92HC	U105HC
M79HC	M91HC	U93HC	U106HC
M80HC	M92HC	U94HC	U107HC
M81HC	M93HC	U95HC	U108HC
M82HC	M94HC	U96HC	U109HC
M83HC	M95HC	U97HC	U110HC
M84HC	M96HC	U98HC	U111HC
M85HC	M97HC	U99HC	U112HC
M86HC	M98HC	U100HC	U113HC
M87HC	M99HC	U101HC	U114HC
M88HC	M100HC	U102HC	U115HC
M89HC	M101HC	U103HC	U116HC
M90HC	M102HC	U104HC	U117HC
M91HC	M103HC	U105HC	U118HC
M92HC	M104HC	U106HC	U119HC
M93HC	M105HC	U107HC	U120HC
M94HC	M106HC	U108HC	U121HC
M95HC	M107HC	U109HC	U122HC
M96HC	M108HC	U110HC	U123HC
M97HC	M109HC	U111HC	U124HC
M98HC	M110HC	U112HC	U125HC
M99HC	M111HC	U113HC	U126HC
M100HC	M112HC	U114HC	U127HC
M101HC	M113HC	U115HC	U128HC
M102HC	M114HC	U116HC	U129HC
M103HC	M115HC	U117HC	U130HC
M104HC	M116HC	U118HC	U131HC
M105HC	M117HC	U119HC	U132HC
M106HC	M118HC	U120HC	U133HC
M107HC	M119HC	U121HC	U134HC
M108HC	M120HC	U122HC	U135HC
M109HC	M121HC	U123HC	U136HC
M110HC	M122HC	U124HC	U137HC
M111HC	M123HC	U125HC	U138HC
M112HC	M124HC	U126HC	U139HC
M113HC	M125HC	U127HC	U140HC
M114HC	M126HC	U128HC	U141HC
M115HC	M127HC	U129HC	U142HC
M116HC	M128HC	U130HC	U143HC
M117HC	M129HC	U131HC	U144HC
M118HC	M130HC	U132HC	U145HC
M119HC	M131HC	U133HC	U146HC
M120HC	M132HC	U134HC	U147HC
M121HC	M133HC	U135HC	U148HC
M122HC	M134HC	U136HC	U149HC
M123HC	M135HC	U137HC	U150HC
M124HC	M136HC	U138HC	U151HC
M125HC	M137HC	U139HC	U152HC
M126HC	M138HC	U140HC	U153HC
M127HC	M139HC	U141HC	U154HC
M128HC	M140HC	U142HC	U155HC
M129HC	M141HC	U143HC	U156HC
M130HC	M142HC	U144HC	U157HC
M131HC	M143HC	U145HC	U158HC
M132HC	M144HC	U146HC	U159HC
M133HC	M145HC	U147HC	U160HC
M134HC	M146HC	U148HC	U161HC
M135HC	M147HC	U149HC	U162HC
M136HC	M148HC	U150HC	U163HC
M137HC	M149HC	U151HC	U164HC
M138HC	M150HC	U152HC	U165HC
M139HC	M151HC	U153HC	U166HC
M140HC	M152HC	U154HC	U167HC
M141HC	M153HC	U155HC	U168HC
M142HC	M154HC	U156HC	U169HC
M143HC	M155HC	U157HC	U170HC
M144HC	M156HC	U158HC	U171HC
M145HC	M157HC	U159HC	U172HC
M146HC	M158HC	U160HC	U173HC
M147HC	M159HC	U161HC	U174HC
M148HC	M160HC	U162HC	U175HC
M149HC	M161HC	U163HC	U176HC
M150HC	M162HC	U164HC	U177HC
M151HC	M163HC	U165HC	U178HC
M152HC	M164HC	U166HC	U179HC
M153HC	M165HC	U167HC	U180HC
M154HC	M166HC	U168HC	U181HC
M155HC	M167HC	U169HC	U182HC
M156HC	M168HC	U170HC	U183HC
M157HC	M169HC	U171HC	U184HC
M158HC	M170HC	U172HC	U185HC
M159HC	M171HC	U173HC	U186HC
M160HC	M172HC	U174HC	U187HC
M161HC	M173HC	U175HC	U188HC
M162HC	M174HC	U176HC	U189HC
M163HC	M175HC	U177HC	U190HC
M164HC	M176HC	U178HC	U191HC
M165HC	M177HC	U179HC	U192HC
M166HC	M178HC	U180HC	U193HC
M167HC	M179HC	U181HC	U194HC
M168HC	M180HC	U182HC	U195HC
M169HC	M181HC	U183HC	U196HC
M170HC	M182HC	U184HC	U197HC
M171HC	M183HC	U185HC	U198HC
M172HC	M184HC	U186HC	U199HC
M173HC	M185HC	U187HC	U200HC
M174HC	M186HC	U188HC	U201HC
M175HC	M187HC	U189HC	U202HC
M176HC	M188HC	U190HC	U203HC
M177HC	M189HC	U191HC	U204HC
M178HC	M190HC	U192HC	U205HC
M179HC	M191HC	U193HC	U206HC
M180HC	M192HC	U194HC	U207HC
M181HC	M193HC	U195HC	U208HC
M182HC	M194HC	U196HC	U209HC
M183HC	M195HC	U197HC	U210HC
M184HC	M196HC	U198HC	U211HC
M185HC	M197HC	U199HC	U212HC
M186HC	M198HC	U200HC	U213HC
M187HC	M199HC	U201HC	U214HC
M188HC	M200HC	U202HC	U215HC
M189HC	M201HC	U203HC	U216HC
M190HC	M202HC	U204HC	U217HC
M191HC	M203HC	U205HC	U218HC
M192HC	M204HC	U206HC	U219HC
M193HC	M205HC	U207HC	U220HC
M194HC	M206HC	U208HC	U221HC
M195HC	M207HC	U209HC	U222HC
M196HC	M208HC	U210HC	U223HC
M197HC	M209HC	U211HC	U224HC
M198HC	M210HC	U212HC	U225HC
M199HC	M211HC	U213HC	U226HC
M200HC	M212HC	U214HC	U227HC
M201HC	M213HC	U215HC	U228HC
M202HC	M214HC	U216HC	U229HC
M203HC	M215HC	U217HC	U230HC
M204HC	M216HC	U218HC	U231HC
M205HC	M217HC	U219HC	U232HC
M206HC	M218HC	U220HC	U233HC
M207HC	M219HC	U221HC	U234HC
M208HC	M220HC	U222HC	U235HC
M209HC	M221HC	U223HC	U236HC
M210HC	M222HC	U224HC	U237HC
M211HC	M223HC	U225HC	U238HC
M212HC	M224HC	U226HC	U239HC
M213HC	M225HC	U227HC	U240HC
M214HC	M226HC	U228HC	U241HC
M215HC	M227HC	U229HC	U242HC
M216HC	M228HC	U230HC	U243HC
M217HC	M229HC	U231HC	U244HC
M218HC	M230HC	U232HC	U245HC
M219HC	M231HC	U233HC	U246HC
M220HC	M232HC	U234HC	U247HC
M221HC	M233HC	U235HC	U248HC
M222HC	M234HC	U236HC	U249HC
M223HC	M235HC	U237HC	U250HC
M224HC	M236HC	U238HC	U251HC
M225HC	M237HC	U239HC	U252HC
M226HC	M238HC	U240HC	U253HC
M227HC	M239HC	U241HC	U254HC
M228HC	M240HC	U242HC	U255HC
M229HC	M241HC	U243HC	U256HC
M230HC	M242HC	U244HC	U257HC
M231HC	M243HC	U245HC	U258HC
M232HC	M244HC	U246HC	U259HC
M233HC	M245HC	U247HC	U260HC
M234HC	M246HC	U248HC	U261HC
M235HC	M247HC	U249HC	U262HC
M236HC	M248HC	U250HC	U263HC
M237HC	M249HC	U251HC	U264HC
M238HC	M250HC	U252HC	U265HC
M239HC	M251HC	U253HC	U266HC
M240HC	M252HC	U254HC	U267HC
M241HC	M253HC	U255HC	U268HC
M242HC	M254HC	U256HC	U269HC
M243HC	M255HC	U257HC	U270HC
M244HC	M256HC	U258HC	U271HC
M245HC	M257HC	U259HC	U272HC
M246HC	M258HC	U260HC	U273HC
M247HC	M259HC	U261HC	U274HC
M248HC	M260HC	U262HC	U275HC
M249HC	M261HC	U263HC	U276HC
M250HC	M262HC	U264HC	U277HC
M251HC	M263HC	U265HC	U278HC
M252HC	M264HC	U266HC	U279HC
M253HC	M265HC	U267HC	U280HC
M254HC	M266HC	U268HC	U281HC
M255HC	M267HC	U269HC	U282HC
M256HC	M268HC	U270HC	U283HC
M257HC	M269HC	U271HC	U284HC
M258HC	M270HC	U272HC	U285HC
M259HC	M271HC	U273HC	U286HC
M260HC	M272HC	U274HC	U287HC
M261HC	M273HC	U275HC	U288HC
M262HC	M274HC	U276HC	U289HC
M263HC	M275HC	U277HC	U290HC
M264HC	M276HC	U278HC	U291HC
M265HC	M277HC	U279HC	U292HC
M266HC	M278HC	U280HC	U293HC
M267HC	M279HC	U281HC	U294HC
M268HC	M280HC	U282HC	U295HC
M269HC	M281HC	U283HC	U296HC
M270HC	M282HC	U284HC	U297HC
M271HC	M283HC	U285HC	U298HC
M272HC	M284HC	U286HC	U299HC
M273HC	M285HC	U287HC	U300HC
M274HC	M286HC	U288HC	U301HC
M275HC	M287HC	U289HC	U302HC
M276HC	M288HC	U290HC	U303HC
M277HC	M289HC	U291HC	U304HC
M278HC	M290HC	U292HC	U305HC
M279HC	M291HC	U293HC	U306HC
M280HC	M292HC	U294HC	U307HC
M281HC	M293HC	U2	

HINES M20H PAGE 2 OF 2

10/05/2018

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
B	PATRICIA S. HOSKINS	14-12/31
C	OKEY L. RINE JR.	14-11/1
D	FRANCIS TURNER ET UX	14-11/2
E	DANIEL I. SHIPLEY ET AL	14-11/16.3
F	DANIEL I. SHIPLEY ET AL	14-11/16
G	PATRICIA C. LINDGREN	14-11/14
H	JAMES J. CAVENEY	14-13/8
J	FREDA V. PARSONS	14-13/10
	NEVA E. KELLER	
	SHEILA M. HAZEL EXEC OF MARY IRENE TAYLOR	
	LETHA I. RUCKMAN	
	ROBERT E. ROGERSON	
	RONALD E. ROGERSON	
	PATTY JEAN LANTZ	
	RALPH VAUGHN TAYLOR	
	MELISSA ANN BRAUN	
	ROBIN ROSE	
	RANDALL C. ROGERSON	
	RUSSELL W. ROGERSON	
	ELIZABETH BENNETT	
	JUDITH TAYLOR	
	WILLIAM O. TAYLOR	
	DAVID R. TAYLOR	
	MARY E. TAYLOR	
	HERBERT M. TAYLOR	
	LORETTA DOUGHERTY	
	KORENE LANTZ	
	HOWARD G. TAYLOR	
	MELVIN FANKHAUSER	
	EUGENE R. FANKHAUSER	
	DENVER TAYLOR	
	STEFANIE CIRILLI	
	JENNIFER CUICHTA	
K	DENNIS W. CROW ET UX	14-13/11
L	CNX GAS COMPANY LLC	14-13/11.1
	NOBLE ENERGY INC	

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2	TERRY L. DERROW ET UX	14-12/30.3
3	PATRICIA SUE HOSKINS	14-12/31
4	EARNEST L. ROBERTS ET UX	14-12/31.1
5	OKEY L. RINE JR.	14-11/1
6	STEVEN M. LAVENSKI	14-11/1.1
7	D. FRANCIS TURNER ET UX	14-11/2.1
8	CARL A. COCHRAN ET UX	14-11/16.1
9	D. FRANCIS TURNER ET UX	14-11/2
10	JODY L. & ERIC M. WADE	14-11/16.2
11	PAUL E. & BRENT L. SHIPLEY	14-11/16
12	BRENT L. & LORI L. SHIPLEY	14-11/16.3
13	COUNTRY ROADS PROPERTIES LLC	14-11/14
14	JAMES J. CAVENEY ET UX	14-13/8
15	JAMES J. CAVENEY ET UX	14-13/10
16	DENNIS W. CROW ET UX	14-13/11
17	CONSOLIDATION COAL COMPANY, MURRAY ENERGY C/O LAND DEPT.	14-13/11.1

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4417386.600
E:525717.087
NAD83, WV NORTH
N:514419.724
E:1632113.936

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4417426.02
E:526675.15
NAD83, WV NORTH
N:514496.533
E:1635259.990

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4414982.89
E:527870.18
NAD83, WV NORTH
N:506413.820
E:1639047.431

SEPTEMBER 24, 2018

WW-6A1
(5/13)

Operator's Well No. Hines M20H

**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				

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

**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 Hays*
 Its: Permitting Team Lead

4705102087

Hines SE Unit #20H - MARC - BATCH 1 - FINAL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
A	14-12-30	HINES DONALD ET UX	Chevron U.S.A. Inc	16.00%	774/290	n/a	n/a	n/a
B	14-12-31	HOSKINS PATRICIA S	Chevron U.S.A. Inc	15.00%	655/564	n/a	n/a	n/a
C	14-11-1	RINE OKEY LJR	Chevron U.S.A. Inc	16.00%	839/394	n/a	n/a	n/a
D	14-11-2	TURNER FRANCIS ET UX	TriEnergy Inc.	12.50%	677/471	21/339 TriEnergy Inc. to TriEnergy Holdings	21/545 TriEnergy Holdings, LLC to AB Resources, LLC	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
E	14-11-16.3	SHIPLEY DANIEL I ET AL	Chesapeake Appalachia, LLC	12.50%	681/499	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
F	14-11-16	SHIPLEY DANIEL I ET AL	Chesapeake Appalachia, LLC	12.50%	681/498	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
G	14-11-14	LINDGREN PATRICIA C	TriEnergy Holdings, LLC	16.00%	691/102	23/74 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
H	14-13-8	CAVENEY JAMES J	TriEnergy Inc.	12.50%	663/497	20/252 TriEnergy Inc. to AB Resources, LLC	756/379 NPAR, LLC to Chevron U.S.A. Inc.	n/a
J	14-13-10	PARSONS FREDA V - SFX	TriEnergy Holdings, LLC	17.00%	739/617	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		KELLER NEVA E - SFX	TriEnergy Holdings, LLC	17.00%	740/361	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		HAZEL SHEILA M EXEC OF TAYLOR MARY IRENE - SFX	TriEnergy Holdings, LLC	17.00%	763/054	28/348 TriEnergy Holdings to Chevron U.S.A. Inc.	n/a	n/a
		RUCKMAN LETHA I - SFX	TriEnergy Holdings, LLC	17.00%	743/528	28/348 TriEnergy Holdings to Chevron U.S.A. Inc.	n/a	n/a
		ROGERSON ROBERT E - SFX	Chevron U.S.A. Inc	18.00%	840/438	n/a	n/a	n/a
		ROGERSON RONALD E - SFX	Chevron U.S.A. Inc	18.00%	840/435	n/a	n/a	n/a
		LANTZ PATTY JEAN - SFX	Chevron U.S.A. Inc	18.00%	847/559	n/a	n/a	n/a
		TAYLOR RALPH VAUGHN - SFX	Chevron U.S.A. Inc	18.00%	847/132	n/a	n/a	n/a
		BRAUN MELISSA ANN - SFX	Chevron U.S.A. Inc	18.00%	847/330	n/a	n/a	n/a
		ROSE ROBIN - SFX	Chevron U.S.A. Inc	18.00%	839/243	n/a	n/a	n/a
		ROGERSON RANDALL C - SFX	Chevron U.S.A. Inc	18.00%	847/078	n/a	n/a	n/a
		ROGERSON RUSSELL W - SFX	Chevron U.S.A. Inc	18.00%	847/524	n/a	n/a	n/a
		BENNETT ELIZABETH - SFX	Chevron U.S.A. Inc	18.00%	840/341	n/a	n/a	n/a
		TAYLOR JUDITH - SFX	Chevron U.S.A. Inc	18.00%	847/508	n/a	n/a	n/a
		TAYLOR WILLIAM O - SFX	Chevron U.S.A. Inc	18.00%	859/097	n/a	n/a	n/a
		TAYLOR DAVID R - SFX	Chevron U.S.A. Inc	18.00%	859/063	n/a	n/a	n/a
		TAYLOR MARY E - SFX	Chevron U.S.A. Inc	18.00%	859/019	n/a	n/a	n/a
		TAYLOR HERBERT M	Chevron U.S.A. Inc	18.00%	859/016	n/a	n/a	n/a
		DOUGHERTY LORETTA - SFX	Chevron U.S.A. Inc	18.00%	848/404	n/a	n/a	n/a
		LANTZ KORENE - SFX	Chevron U.S.A. Inc	18.00%	848/469	n/a	n/a	n/a
TAYLOR HOWARD G - SFX	Chevron U.S.A. Inc	18.00%	868/095	n/a	n/a	n/a		
FANKHAUSER MELVIN - SFX	Chevron U.S.A. Inc	18.00%	878/258	n/a	n/a	n/a		
FANKHAUSER EUGENE R - SFX	Chevron U.S.A. Inc	18.00%	878/255	n/a	n/a	n/a		
TAYLOR DENVER - SFX	Chevron U.S.A. Inc	17.00%	887/641	n/a	n/a	n/a		
CIRILLI STEFANIE - SFX	Chevron U.S.A. Inc	17.00%	887/644	n/a	n/a	n/a		
CUICHTA JENNIFER - SFX	Chevron U.S.A. Inc	17.00%	887/647	n/a	n/a	n/a		
K	14-13-11	CROW DENNIS W ET UX	Chevron U.S.A. Inc	18.00%	853/249	n/a	n/a	n/a
L	14-13-11.1	CNX GAS COMPANY LLC	Chevron U.S.A. Inc	20.00%	862/486	n/a	n/a	n/a
		NOBLE ENERGY INC	Chevron U.S.A. Inc	20.00%	862/492	n/a	n/a	n/a

RECEIVED
Office of Oil and Gas
JUL 19 2018
M. J. Theakston, Jr. of
EPM Environmental Services, Inc.



Brandon Means
Land Representative

February 27, 2018

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

RE: Hines 12H, 18H, 19H, 20H, 21

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,

A handwritten signature in blue ink, appearing to read "Brandon Means".

Brandon Means
Land Representative

RECEIVED
Office of Oil and Gas
JUL 19 2018
WV Department of
Environmental Protection

Brandon Means
Chevron North America Exploration and Production Company
(a division of Chevron U.S.A. Inc.)
700 Cherrington Parkway, Coraopolis, PA 15108
Tel 412 865 3449
bmeans@chevron.com

4705102087

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

Date of Notice Certification: 03/19/2018

API No. 47- _____
Operator's Well No. 20H
Well Pad Name: Hines

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>525717.087</u>
County:	<u>Marshall</u>		Northing:	<u>4417386.600</u>
District:	<u>Washington</u>	Public Road Access:	<u>Route 38 Campbell Hill Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hines</u>	
Watershed:	<u>Middle Grave Creek/Grave Creek</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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or
 WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

RECEIVED
Office of Oil and Gas
JUL 19 2018
WV Department of
Environmental Protection

OOG OFFICE USE ONLY

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

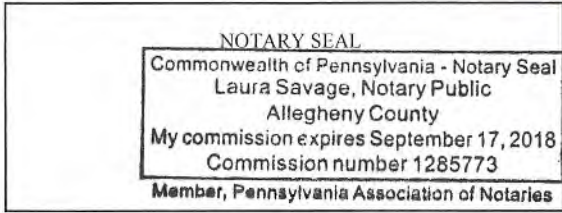
Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, I Jenny Hayes, 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.

Well Operator:	<u>Chevron Appalachia, LLC</u>	Address:	<u>700 Cherrington Parkway</u>
By:	<u>Jenny Hayes</u>		<u>Coraopolis, PA 15108</u>
Its:	<u>Permitting Team Lead</u>	Facsimile:	<u>412-865-2403</u>
Telephone:	<u>412-865-1533</u>	Email:	<u>JZYK@chevron.com</u>



Jenny Hayes COMMONWEALTH OF PENNSYLVANIA
COUNTY OF ALLEGHENY
 Subscribed and sworn before me this 19 day of June 2018.
Laura Savage Notary Public
 My Commission Expires September 17, 2018

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

**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: 3/12/18 **Date Permit Application Filed:** 7/18/18
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: Donald Hines and Wanda L Hines
Address: 301 4th Street
Glen Dale, WV 26038

Name: _____
Address: _____

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 Corporation
Address: 46229 National Road
St. Clairsville, OH 43950

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUL 19 2018
WV Department of Environmental Protection

WW-6A
(8-13)

JUL 19 2018

WV Department of
Environmental ProtectionAPI NO. 4705102087
OPERATOR WELL NO. M20H 10/05/2018
Well Pad Name: Hines**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

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

WW-6A
(8-13)

4705102087
API NO. 47- -
OPERATOR WELL NO. M20H 10/05/2018
Well Pad Name: Hines

Notice is hereby given by:

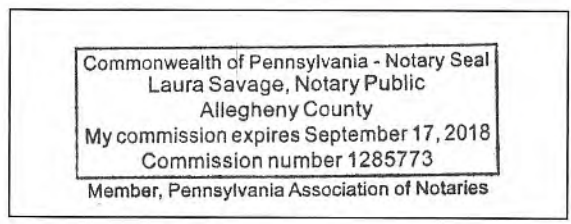
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: jzyk@chevron.com

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

Oil and Gas Privacy Notice:

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

Jenny Hayes



Commonwealth of Pennsylvania
County of Allegheny
Subscribed and sworn before me this 13th day of March 2018.
Laura Savage Notary Public
My Commission Expires September 17, 2018

RECEIVED
Office of Oil and Gas
JUL 19 2018
WV Department of
Environmental Protection

4705102087 10/05/2018

Attachment to WW-6A

API No. 47- _____ - _____

OPERATOR WELL NO. M20H

Well Pad Name: Hines

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

- COAL OPERATOR**
Name: Murray Energy Corporation ✓
Address: 46229 National Road
St. Clairsville, OH 43950

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Bobby G. Baker ✓
Address: 742 Toms Run Road
Moundsville, WV 26041

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Mark Grandstaff ✓
Address: 762 Toms Run Road
Moundsville, WV 26041

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Edward D. Knuth ✓
Address: 747 Toms Run Lane
Moundsville, WV 26041

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Morgan Lacefield ✓
Address: 1851 Campbell Hill Road
Moundsville, WV 26041

- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Tobias G & Jessica D Brown ✓
Address: 873 Toms Run Lane
Moundsville, WV 26041

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

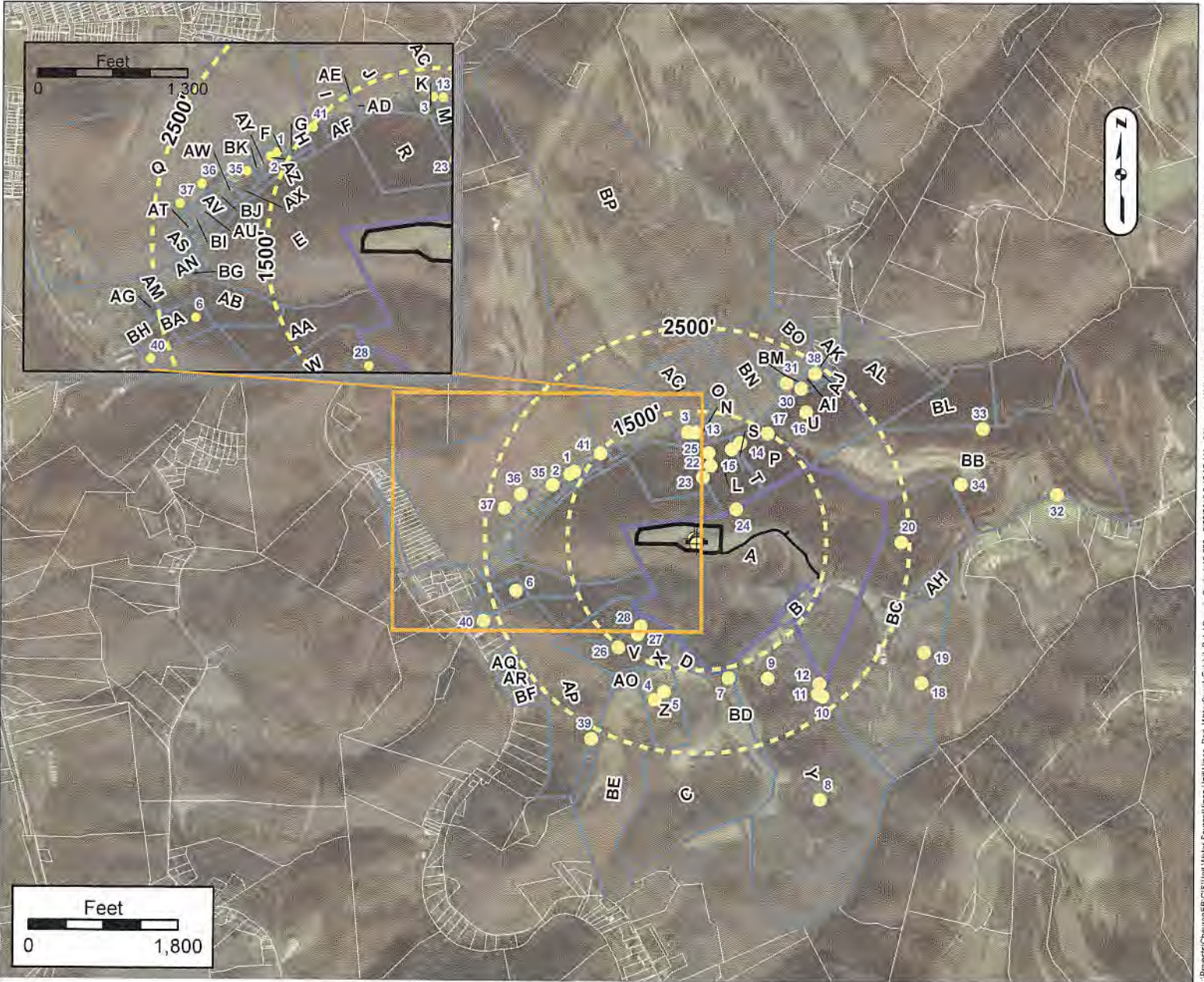


WATER SUPPLY EXHIBIT HINES PAD

RECEIVED
Office of Oil and Gas

10/05/2018

JUL 19 2018



LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
A	HINES DONALD ET UX	25-14 12003000000000	Q	HALL CHARLES R	25-14 12002400000000	AC	GODDNIGHT ARNIE	25-14 12006700000000	AW	YOHIO LYIE WAYNE	25-14 1240007000000000
B	BOSSETT LANCE J ET UX	25-14 12003300000000	R	STATE OF W VA	25-14 12007800000000	AH	ROBERTS FARNEST L ET UX	25-14 12003100000000	AX		25-14 1245999000000000
C	PARSONS HENRY T EST ET AL	25-14 12003300000000	S	FITZBRIEDENS JOHN F & ANCELAL	25-14 12007800000000	AI	PYLES RONNIE ET UX	25-14 90043000000000	AY	SMITH PAUL K & BETTY LIFE	25-14 1240009000000000
D	WOOD CLESTFNE HINES	25-14 12003000000000	T	KNUTH EDWARD DAVID & KATHY JO	25-14 12002800000000	AJ	THOMAS WILLIAM H ET UX	25-14 90039000000000	AZ	ANDRINGER SANDRA SUE & LORI A	25-14 1240010000000000
E	GODDNIGHT ARNIE N ET UX	25-14 12002500000000	U	BEUCHE JOHN A ET UX	25-14 12002800000000	AK	THOMAS WILLIAM H ET UX	25-14 90039000000000	BA	GODDNIGHT OSCAR J	25-14 12006700000000
F	BROWN TERRY K ET UX	25-14 1240011000000000	V	LACFIELD MORGAN	25-14 12003000000000	AL	BRADY RODGER A ET UX	25-14 90036000000000	BB	BINE CHEY L JR	25-14 12001100000000
G	TUCKER JESS I & HELEN	25-14 1240012000000000	W	LACFIELD MORGAN T	25-14 12003000000000	AM	HARTLEY PHYLLIS C	25-14 12006700000000	BC	HOSKINS PATRICIA SUE	25-14 12003100000000
H	YOHIO RAYMOND P	25-14 1240013000000000	X	WOODS CLESE	25-14 12003000000000	AN		25-14 12006600000000	BD	TULLER ROBERT B ET UX	25-14 12003100000000
I	MCCARTNEY MICHAEL J ET UX	25-14 90046000000000	Y	GULLISSERRY DOUGLAS EDWARD ET	25-14 12003200000000	AO	PARSONS HENRY T JR & VIDLET	25-14 12004500000000	BE	PARSONS HENRY T EST ET AL	25-14 12004500000000
J	LUCAS LEONARD ET UX	25-14 90045000000000	Z	BOSTON DONALD W ET UX	25-14 12006000000000	AP	VAN SCYOC DELBERT M ET UX	25-14 12005500000000	BF	HARVETH GEORGE N ET UX	25-14 12004400000000
K	BAKER BOBBY G ET UX	25-14 90044000000000	AA	GODDNIGHT ARNIE N ET UX	25-14 12006000000000	AQ	JENNINGS MICHAEL LEE ET UX	25-14 12005400000000	BG		25-14 12006600000000
L	KNUTH EDWARD DAVID ET UX	25-14 12002700000000	AB	GODDNIGHT GEORGE L ET UX ESTS	25-14 12006700000000	AR	SCHMEIDEL JOHN W & FALINE J	25-14 12005400000000	BH	GODDNIGHT ARNIE	25-14 12006700000000
M	GRANDS AFF ELMER JR ET UX	25-14 90044000000000	AC	LUCAS LEONARD ET UX	25-14 90044000000000	AS	THOMAS HARRY ET UX	25-14 1240002000000000	BI	HOYT YAMON J JUNIOR ET UX-LIFE	25-14 1240002000000000
N	BAKER BRUCE W ET UX	25-14 90044000000000	AD	LUCAS LEONARD ET UX	25-14 90045000000000	AT	WHITELATCH DEBBIE ANN	25-14 1240002000000000	BJ	YOHIO LYIE WAYNE	25-14 1240002000000000
O	OLIVER GERALD ET AL	25-14 90044000000000	AE	LUCAS LEONARD ET UX	25-14 90045000000000	AU	FOSTER NORMA	25-14 1240004000000000	BK	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 1240008000000000
P	BROWN TOBIAS & JESSICA	25-14 12003000000000	AF	MCCARTNEY MICHAEL J ET UX	25-14 90046000000000	AV	FOSTER NORMA	25-14 1240005000000000	BL	BRADY RODGER A ET UX	25-14 9003150000000000

Surface Owner: DONALD HINES

County: MARSHALL

Oil/Gas Owner: DONALD HINES

Township: MOUNDSVILLE, WV

Well Operator: CHEVRON APPALACHIA, LLC

Surveyor: GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Address: 700 CHERRINGTON PARKWAY
CORAOPOLIS, PA 15108

Address: 301 COMMERCE PARK DR
CRANBERRY TOWNSHIP, PA 16066

Phone: 724-564-3700

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
HINES PAD

RECEIVED
Office of Oil and Gas

JUL 19 2018

10/05/2018

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	ANDLINGER, SANDRA S. & KORN, LORI A.	Well	724	480 TOMS RUN ROAD	304-280-1108
2*	ANDLINGER, SANDRA S. & D. ANDLINGER	Well	754	480 TOMS RUN ROAD	304-280-1108
3	BAKER, BOBBY G.	Well	621	742 TOMS RUN ROAD	304-845-1836
4*	BOSTON, DONALD M.	Spring	1,029	1770 CAMPBELL HILL ROAD	304-845-2506
5*	BOSTON, DONALD M.	Spring	1,075	1770 CAMPBELL HILL ROAD	304-845-2506
6	GOODNIGHT, OSCAR J.	Dug well	632	77 GOODNIGHT LANE	304-845-3813
7	GOULDSBERRY, DOUGLAS E.	Dug well	1,295	1584 CAMPBELL HILL ROAD	304-830-1265 304-830-1264
8	GOULDSBERRY, DOUGLAS E.	Spring	1,118	1584 CAMPBELL HILL ROAD	304-830-1265 304-830-1264
9	GOULDSBERRY, DOUGLAS E.	Spring	1,174	1584 CAMPBELL HILL ROAD	304-830-1265 304-830-1264
10	GOULDSBERRY, DOUGLAS E.	Spring	1,065	1584 CAMPBELL HILL ROAD	304-830-1265 304-830-1264
11	GOULDSBERRY, DOUGLAS E.	Stream	1,069	1584 CAMPBELL HILL ROAD	304-830-1265 304-830-1264
12	GOULDSBERRY, DOUGLAS E.	Stream	1,075	1584 CAMPBELL HILL ROAD	304-830-1265 304-830-1264
13*	GRANDSTAFF, MARK G.	Well	617	762 TOMS RUN LANE	304-780-8287 cell
14*	BROWN, TOBIAS & JESSICA	Well	769	873 TOMS RUN LANE	304-221-2057 (No longer in service)
15*	BROWN, TOBIAS & JESSICA	Spring	811	873 TOMS RUN LANE	304-221-2057 (No longer in service)

No.	SUPPLY COORDINATES	M12H	M18H	M19H	M20H	M21H			
1	39°54'30.37261266"N 80°42'15.98578642"W	1,651	1,687	1,694	1,701	1,708			
2	39°54'30.03421257"N 80°42'16.68058661"W	1,684	1,720	1,726	1,733	1,739			
3	39°54'35.31901437"N 80°41'58.57978144"W	1,280	1,301	1,315	1,330	1,344			
4	39°54'03.58860809"N 80°42'02.87098044"W	1,983	1,972	1,958	1,944	1,930			
5	39°54'04.60740834"N 80°42'01.47778009"W	1,861	1,848	1,834	1,820	1,805			
6	39°54'16.12164955"N 80°42'24.69670805"W	2,238	2,262	2,258	2,254	2,250			
7	39°54'06.31740910"N 80°41'51.63897720"W	1,716	1,690	1,676	1,662	1,648			
8	39°53'52.12620700"N 80°41'37.10577171"W	3,471	3,441	3,428	3,415	3,402			
9	39°54'06.36780937"N 80°41'45.51177532"W	1,891	1,860	1,847	1,834	1,821			
10	39°54'04.31220934"N 80°41'37.03017257"W	2,440	2,406	2,395	2,384	2,373			
11	39°54'04.60740937"N 80°41'37.76817282"W	2,380	2,347	2,335	2,324	2,313			
12	39°54'05.83860961"N 80°41'37.55937285"W	2,297	2,262	2,252	2,241	2,230			
13	39°54'35.29381441"N 80°41'57.46018110"W	1,274	1,292	1,307	1,322	1,336			
14	39°54'34.13821449"N 80°41'50.51937888"W	1,271	1,275	1,288	1,302	1,315			
15	39°54'33.36061429"N 80°41'51.79017922"W	1,160	1,166	1,179	1,193	1,207			

*Water source previously located in 2014 or 2015



WATER SUPPLY EXHIBIT
HINES PAD

RECEIVED
Office of Mineral Gas

JUL 19 2018



No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
16*	HARDING, JODI L. & TERRY A.	Spring	752	899 TOMS RUN LANE	304-845-6315 724-231-9109
17*	HARDING, JODI L. & TERRY A.	Stream	712	899 TOMS RUN LANE	304-845-6315 724-231-9109
18*	HOSKINS, PATRICIA SUE	Spring	1,026	19 CHARLES DRIVE	304-845-9769 304-639-7413
19*	HOSKINS, PATRICIA SUE	Spring	1,094	19 CHARLES DRIVE	304-845-9769 304-639-7413
20*	HOSKINS, PATRICIA SUE	Spring	1,016	19 CHARLES DRIVE	304-845-9769 304-639-7413
21*	HOSKINS, PATRICIA SUE	Pond	1,117	19 CHARLES DRIVE	304-845-9769 304-639-7413
22*	KNUTH, EDWARD D	Spring	747	747 TOMS RUN LANE	304-845-7519
23*	KNUTH, EDWARD D	Spring	826	747 TOMS RUN LANE	304-845-7519
24*	KNUTH, EDWARD D	Spring	996	747 TOMS RUN LANE	304-845-7519
25*	KNUTH, EDWARD D	Well	692	747 TOMS RUN LANE	304-845-7519
26*	LACEFIELD, MORGAN	Spring	1,142	1851 CAMPBELL HILL ROAD	304-639-0727
27*	LACEFIELD, MORGAN	Spring	1,195	1851 CAMPBELL HILL ROAD	304-639-0727
28*	LACEFIELD, MORGAN	Spring	1,145	1851 CAMPBELL HILL ROAD	304-639-0727
29	OLIVER, GERALD	Stream	945	816 TOMS RUN LANE	304-845-7675 home 304-238-3433 cell
30*	PYLES, RONNIE E ET UX	Well	895	1056 TOMS RUN LANE	304-845-2288

No.	SUPPLY COORDINATES	M12H	M18H	M19H	M20H	M21H			
16	39°54'37.90021565"N 80°41'40.37457605"W	2,024	2,018	2,030	2,041	2,052			
17	39°54'35.33341491"N 80°41'46.21377765"W	1,541	1,539	1,552	1,564	1,576			
18	39°54'06.13741035"N 80°41'21.74096802"W	3,237	3,201	3,194	3,186	3,179			
19	39°54'09.71221105"N 80°41'21.45656819"W	3,086	3,050	3,044	3,038	3,032			
20	39°54'22.67221338"N 80°41'25.29417031"W	2,492	2,461	2,462	2,462	2,462			
21	39°54'11.47981147"N 80°41'19.68896778"W	3,142	3,106	3,101	3,096	3,091			
22	39°54'31.42021377"N 80°41'54.98698006"W	899	912	926	941	955			
23	39°54'29.99461345"N 80°41'56.16058031"W	742	758	772	787	801			
24	39°54'26.25421296"N 80°41'50.93337844"W	611	597	607	616	626			
25	39°54'32.88541404"N 80°41'55.30018026"W	1,041	1,055	1,070	1,084	1,099			
26	39°54'09.67620900"N 80°42'08.72818268"W	1,592	1,595	1,583	1,571	1,559			
27	39°54'11.27100944"N 80°42'05.73658188"W	1,332	1,332	1,319	1,307	1,295			
28	39°54'12.22500964"N 80°42'05.28298181"W	1,231	1,231	1,219	1,207	1,194			
29	39°54'35.11381592"N 80°41'21.68697011"W	3,044	3,024	3,030	3,036	3,042			
30	39°54'40.69021615"N 80°41'41.17737650"W	2,210	2,208	2,220	2,232	2,244			

*Water source previously located in 2014 or 2015



WATER SUPPLY EXHIBIT
HINES PAD

10/05/2018

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
31*	PYLES, RONNIE E ET UX	Spring	705	1056 TOMS RUN LANE	304-845-2288
32*	RINE, OKEY L JR	Well	1,307	6 TRACY LANE	h 304-845-1533 c 304-650-5792
33*	RINE, OKEY L JR	Pond	1,130	6 TRACY LANE	h 304-845-1533 c 304-650-5792
34*	RINE, OKEY L JR	Pond	1,132	6 TRACY LANE	h 304-845-1533 c 304-650-5792
35*	SCAMELHORN, DENISE	Well	705	432 TOMS RUN LANE	304-810-0336
36*	SCAMELHORN, DENISE	Spring	737	432 TOMS RUN LANE	304-810-0336
37*	SCAMELHORN, DENISE	Spring	767	432 TOMS RUN LANE	304-810-0336
38*	THOMAS, WILLIAM H ET UX - Deceased	Well	689	1074 TOMS RUN LANE	304-845-6459
39	KEITH, VAN SCYOC	Spring	1,137	2074 CAMPBELL HILL ROAD	304-280-5104
40	KEITH, VAN SCYOC	Spring	693	2074 CAMPBELL HILL ROAD	304-280-5104
41*	YOHO, RAYMOND P.	Well	726	524 TOMS RUN LANE	304-845-5250

No.	SUPPLY COORDINATES	M12H	M18H	M19H	M20H	M21H			
31	39°54'41.30941617"N 80°41'43.49577725"W	2,167	2,168	2,181	2,193	2,206			
32	39°54'28.57981555"N 80°41'01.36136340"W	4,397	4,369	4,372	4,374	4,376			
33	39°54'36.24781652"N 80°41'12.95696752"W	3,715	3,693	3,699	3,705	3,710			
34	39°54'29.63461511"N 80°41'16.22216804"W	3,275	3,249	3,252	3,255	3,259			
35	39°54'28.74181221"N 80°42'19.27618731"W	1,820	1,855	1,860	1,865	1,870			
36	39°54'27.59341177"N 80°42'24.29098876"W	2,162	2,197	2,200	2,204	2,207			
37	39°54'25.87981134"N 80°42'26.69578938"W	2,315	2,348	2,350	2,352	2,355			
38	39°54'42.48661659"N 80°41'39.10017599"W	2,452	2,449	2,461	2,473	2,485			
39	39°53'58.76820674"N 80°42'12.63058309"W	2,702	2,699	2,686	2,673	2,660			
40	39°54'12.53460865"N 80°42'29.63338930"W	2,724	2,745	2,740	2,735	2,730			
41	39°54'32.58661326"N 80°42'11.99698536"W	1,521	1,557	1,566	1,576	1,586			

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

*Water source previously located in 2014 or 2015



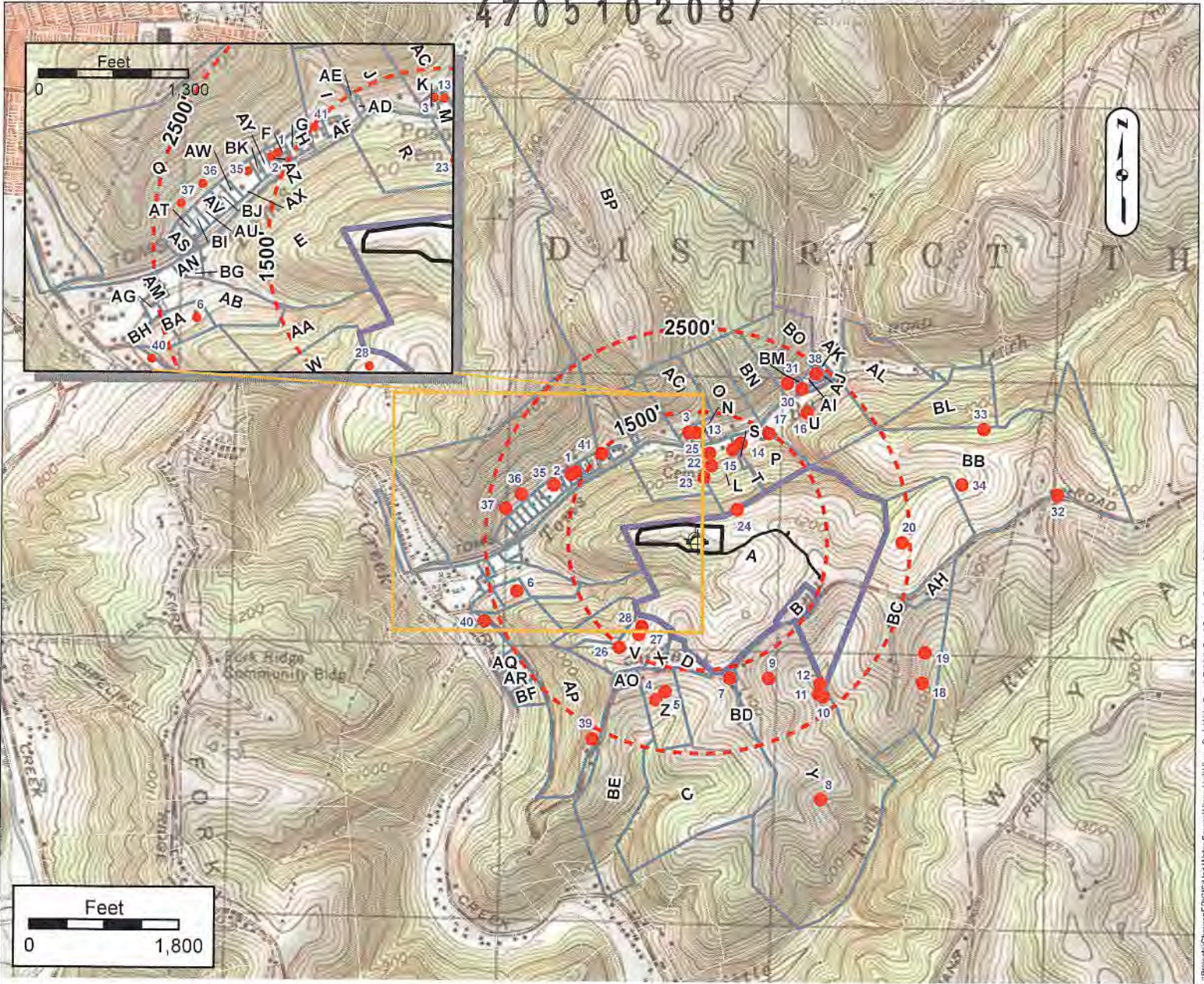
WATER SUPPLY EXHIBIT HINES PAD

RECEIVED
Office of Oil and Gas

JUL 19 2018

10/05/2018
OGM

4705102087



LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
A	HINES DONALD ET UX	25-14 12003000000000	Q	HALL CHARLES R	25-14 12002400000000	AG	GOODNIGHT ARNIE	25-14 12006700000000	AW	YOHO LYLE WAYNE	25-14 12000700000000
B	COSSETT LANCE ET UX	25-14 12003000000000	R	STATE OF W VA	25-14 12002600000000	AH	ROBERT'S EARNEST I ET UX	25-14 12009100000000	AX		
C	PARSONS HENRY T EST ET AL	25-14 12002300000000	S	FITZSIMMONS JOHN E & ANGELA L	25-14 12002700000000	AI	PIFF'S RONNIE ET UX	25-14 90040000000000	AY	SMITH PAUL K & BETTY - LIFE	25-14 12000900000000
D	WOOD CLESTERNE HINES	25-14 12003000000000	T	KNU'N EDWARD DAVID & KATHY ID	25-14 12002800000000	AI	THOMAS WILLIAM H ET UX	25-14 90030000000000	AZ	ANDLINGER SANDRA SUE & LORIA	25-14 12001000000000
E	GOODNIGHT ARNIE NE ET UX	25-14 12002500000000	U	BEUCHE JOHN A ET UX	25-14 12002900000000	AK	THOMAS WILLIAM H ET UX	25-14 90030000000000	BA	GOODNIGHT OSCAR J	25-14 12006700000000
F	BROWN TERRY K ET UX	25-14 12001100000000	V	LACFIELD MORGAN	25-14 12003000000000	AL	BRADY ROGER A ET UX	25-14 90030000000000	BB	PINE CRYL J R	25-14 12003100000000
G	THUCKER JESS L & HELEN	25-14 12001200000000	W	LACFIELD MORGAN T	25-14 12003000000000	AM	HARTLEY PHYLLIS C	25-14 12006700000000	BC	HOSKINS PATRICIA SUE	25-14 12003200000000
H	YOHO RAYMOND P	25-14 12001300000000	X	WODDS CLISE	25-14 12003000000000	AN		25-14 12006700000000	BD	FULLER ROBERT B ET UX	25-14 12003300000000
I	MCCARTNEY MICHAEL ET UX	25-14 90049000000000	Y	GULLOBBERRY DOUGLAS EDWARD ET	25-14 12003200000000	AO	PARSONS HENRY T JR & VIOLE	25-14 12004500000000	BE	PARSONS HENRY T EST ET AL	25-14 12004500000000
J	LUCAS LEONARD L ET UX	25-14 90049000000000	Z	BOSTON DONALD W ET UX	25-14 12003300000000	AP	VAH SCYOC DELBERT M ET UX	25-14 12006500000000	BF	HARVEY GEORGE R ET UX	25-14 12004600000000
K	BAKER SOBBY G ET UX	25-14 90044000000000	AA	GOODNIGHT ARNIE N ET UX	25-14 12006700000000	AQ	JENKINS MICHAEL L ET UX	25-14 12006800000000	BG		
L	KNU'N EDWARD DAVID ET UX	25-14 12002700000000	AB	GOODNIGHT GEORGE ET UX ESTS	25-14 12006700000000	AR	SCHNEIDER JOHN M & FALINE	25-14 12006800000000	BH	GOODNIGHT ARNIE	25-14 12006700000000
M	GRANDSTAFF ELMER JR ET UX	25-14 90044000000000	AC	LUCAS LEONARD L ET UX	25-14 90044000000000	AS	THOMAS HARRY ET UX	25-14 12000300000000	BI	HOYT MARVIN L WOOD ET UX LIFE	25-14 12002800000000
N	BAKER BRUCE W ET UX	25-14 90044000000000	AD	LUCAS LEONARD L ET UX	25-14 90045000000000	AT	WHITELATCH DEBBIE ANN	25-14 12000300000000	BJ	YOHO LYLE WAYNE	25-14 12002800000000
O	OLLIVER GERALD ET AL	25-14 90044000000000	AE	LUCAS LEONARD L ET UX	25-14 90045000000000	AU	FOSTER NORMA	25-14 12000300000000	BK	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 12002800000000
P	BROWN TORIAS & JESSICA	25-14 12002800000000	AF	MCCARTNEY MICHAEL ET UX	25-14 90045000000000	AV	FOSTER NORMA	25-14 12000300000000	BL	BRADY ROGER A ET UX	25-14 90038000000000

Surface Owner: DONALD HINES

County: MARSHALL

Oil/Gas Owner: DONALD HINES

Township: MOUNDSVILLE, WV

GROUNDWATER & ENVIRONMENTAL

SERVICES, INC.

Well Operator: CHEVRON APPALACHIA, LLC

Address: 301 COMMERCE PARK DR

Address: 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

CRANBERRY TOWNSHIP, PA 16066

Phone: 724-564-3700

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.

L:\Projects\Chevron\EPGIS\WV\Water_Sources\Hines_LotOwners_Pad_Web\Supply\Exhibit_Bulk2.mxd - Scale 1:15,600 - 2/22/2018 8:44:04 AM - cStewart - NAD 1983 StatePlane West Virginia North FIPS 4701 Feet

4705102087 10/05/2018

**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: 3/12/18 **Date Permit Application Filed:** 7/18/18

RECEIVED
Office of Oil and Gas

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

JUL 19 2018

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

WV Department of Environmental Protection

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: Donald Hines and Wanda L. Hines
Address: 201 4th Street
Glen Dale, WV 26038

Name: _____
Address: _____

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: 525717.087
County: Marshall Northing: 4417386.600
District: Washington Public Road Access: Route 38/Campbell Hill Road
Quadrangle: Moundsville, WV 7.5' Generally used farm name: Hines
Watershed: Middle Grave Creek - Grave Creek

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: 412-865-2504
Email: _____
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.

4705102087
10/05/2018

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: 3/12/18 Date Permit Application Filed: 7/18/18

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

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: Donald Hines and Wanda L. Hines
Address: 301 4th Street
Glen Dale, WV 26038

Name: _____
Address: _____

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>525717.087</u>
County:	<u>Marshall</u>	UTM NAD 83 Northing:	<u>4417386.600</u>
District:	<u>Washington</u>	Public Road Access:	<u>Route 38/Campbell Hill Road</u>
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hines</u>
Watershed:	<u>Middle Grave Creek - Grave Creek</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: 412-865-2504
Email: _____

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.

STATE OF WEST VIRGINIA

4705102087

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: _____	West Virginia	UTM NAD 83 Easting: _____	525717.087
County: _____	Marshall	UTM NAD 83 Northing: _____	4417386.600
District: _____	Washington	Public Road Access: _____	Route 38/Campbell Hill Road
Quadrangle: _____	Moundsville, WV 7.5'	Generally used farm name: _____	Hines
Watershed: _____	Middle Grave Creek - Grave Creek		

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 checked="" 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 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>Donald Hines</u></p> <p>Print Name: <u>Donald Hines</u></p> <p>Date: <u>5-11-18</u></p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: <u>JUL 19 2018</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 deprivacyofficer@wv.gov.

4705102087

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.

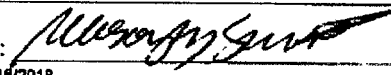
Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except 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	Easting:	<u>525717.087</u>
County:	<u>Marshall</u>		Northing:	<u>4417386.600</u>
District:	<u>Washington</u>	Public Road Access:	<u>Campbell Hill Road</u>	
Quadrangle:	<u>Moundsville 7.5'</u>	Generally used farm name:	<u>Hines</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>Consolidation Coal Company</u></p> <p>By: <u>Mason Smith</u></p> <p>Its: <u>Coal, Oil and Gas Relations Manager</u></p> <p>Signature: </p> <p>Date: <u>07/16/2018</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
Office of Oil and Gas

JUL 19 2018



10/05/2018

4705102087

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

February 28, 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 Hines Pad A Well Site, Marshall County
Hines A Unit M20H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2017-0073 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 38 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: Mandy Fordyce
Chevron Appalachia, LLC
CH, OM, D-6
File

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

10/05/2018

4705102087

Hydraulic Fracturing Fluid Additives

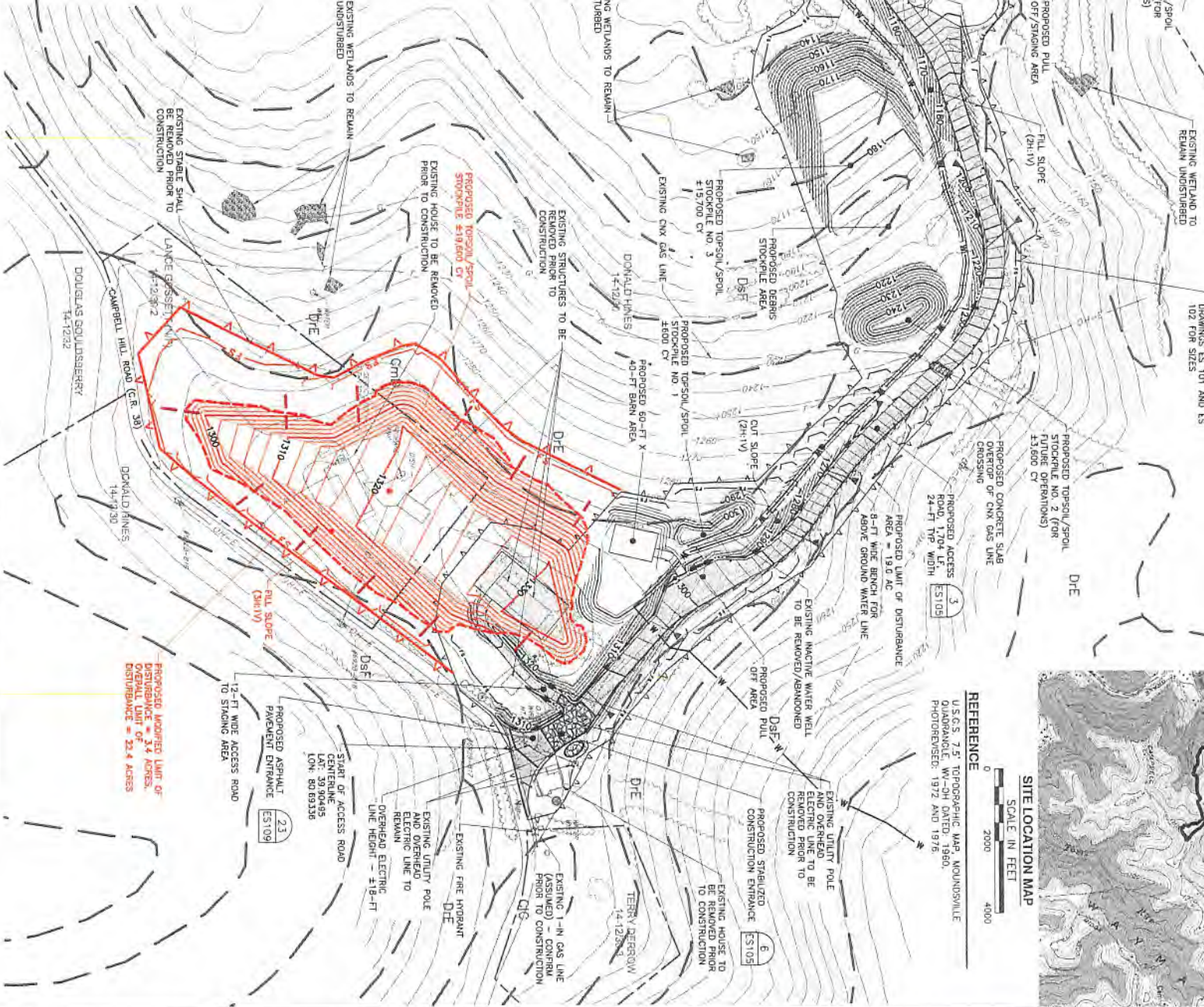
Supplier	Name	Purpose
Universal	7.5% HCl Acid	Acid - To open perforations
Universal	Unislick ST50	Friction Reducer for Water and Brine (Anionic)
Universal	Scale Inhibitor A	Scale Inhibitor
Universal	Iron Control A	Iron Control
Universal	Unihib G	Corrosion Inhibitor for Acid
Universal	K-Bac 1020	Biocide/Bactericide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

RECEIVED
Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

- PURPOSES ONLY

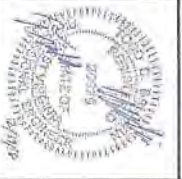


MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
West Virginia State Law
(Section XIV, Chapter 24-C requires that you call two business days before you dig in the state of West Virginia.)
IT'S THE LAW

Longitude (West)	80.69961
	80.69336



REVISION RECORD	
No	Date
01	
02	07/26/2017
03	02/16/2018
04	
05	
06	
07	
08	



C.E.C.
Civil & Environmental Consultants, Inc.
4000 Triangle Lane, Suite 200 - Export, PA 15632
724-327-5200 • 800-899-3610
www.ceclnc.com

HINES WELL SITE
WASHINGTON DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

OVERALL EROSION AND SEDIMENT CONTROL PLAN

Project Number: 164-052-004/D
Drawing Scale: 1"=100'
Date Issued: 02/16/2018
Drawn By: JMAN
Checked By: LDB
Project Manager: MJS

ES 100

PURPOSES ONLY

APPROVED
WVDEP 00G
Modification
4/5/2018

LEGEND

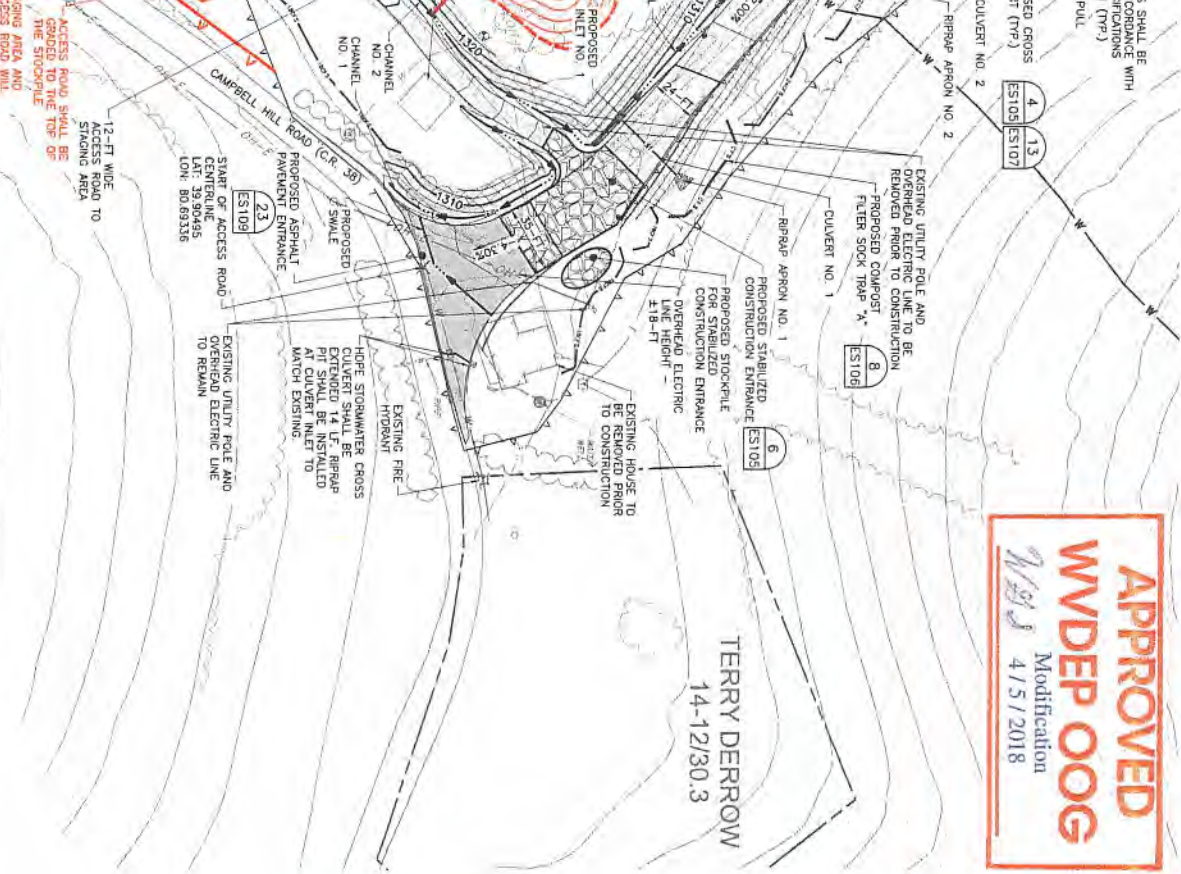
	EXISTING PROPERTY LINE
	EXISTING NODE CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING PAVED ROADWAY
	EXISTING UNPAVED ROADWAY
	EXISTING GAS LINE
	EXISTING WATERLINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING TELECOMMUNICATION LINE
	EXISTING FENCE
	EXISTING STREAM
	EXISTING WETLAND
	EXISTING TREE LINE
	EXISTING STRUCTURE
	EXISTING UTILITY POLE
	EXISTING FIRE HYDRANT
	PROPOSED EDGE OF ACCESS ROAD
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED WELL HEAD AND CELLAR
	PROPOSED PENSTOCK BERM
	PROPOSED GRAVEL
	PROPOSED BUTTRESS
	PROPOSED ASPHALT PAVEMENT
	PROPOSED WATERLINE
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED CUT/FILL LINE
	PROPOSED SPOT ELEVATION
	PROPOSED CHANNEL
	PROPOSED STORMWATER CULVERT
	PROPOSED INLET
	PROPOSED RIPRAP APRON
	PROPOSED UNDERDRAIN
	PROPOSED 18-IN COMPOSITE FILTER SOCK TRAP
	PROPOSED 24-IN COMPOSITE FILTER SOCK
	PROPOSED 32-IN COMPOSITE FILTER SOCK
	PROPOSED TEMPORARY RUNOFF DIVERSION
	PROPOSED ORGANIC CONSTRUCTION FENCE
	PROPOSED ROCK CONSTRUCTION ENTRANCE
	PROPOSED INLET PROTECTION
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED MODIFIED LIMIT OF DISTURBANCE
	PROPOSED TOE-KEY
	TOE-KEY OUTLET DRAINS
	DETAIL NUMBER
	DRAWING DESIGNATION

REVISION RECORD

Date	No	Description
	01	
	02	
02/11/2018	03	MAJOR MODIFICATION - EXPANDED LOD
	04	
	05	
	06	
	07	
	08	



C.E.C.
Civil & Environmental Consultants, Inc.
4000 Triangle Lane, Suite 200 - Export, PA 15632
724-327-5200 · 800-899-3610
www.cecinc.com



STREAM AND WETLAND NOTES

1. WETLAND WAIVERS ARE BEING REQUESTED FOR THE FOLLOWING FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE: WETLAND 2A, WETLAND 2B, WETLAND 3A, AND WETLAND 3B.
2. THE FOLLOWING TWO (2) WETLANDS AND (1) EPHEMERAL STREAM ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE USACE NATIONWIDE PERMIT 33 FOR PERMANENT IMPACTS: WETLAND 1A, WETLAND 1B, AND UNIT 1 TO TONS CREEK.
3. THE STREAMS SHOWN HEREON ARE EPHEMERAL, AS SUCH, A WAIVER IS NOT BEING REQUESTED FOR PERENNIAL STREAMS.
4. THE DIMENSIONS SHOWN HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

COMPACTION SPECIFICATIONS

1. MATERIALS PLACED IN THE PERMANENT SPOIL PILES SHALL BE PLACED IN LIFTS NOT EXCEEDING 18-INCHES. THE PERCENT OF ORIGINAL MOISTURE CONTENT AND SHALL NOT EXCESSIVELY DEFEROM BEYOND THE WEIGHT OF CONSTRUCTION EQUIPMENT DURING PLACEMENT. MOISTURE CONDITIONS OF SPOIL MATERIALS WILL BE REQUIRED.
2. CONTRACTOR SHOULD ASSUME FOR PLACING PURPOSES APPROXIMATELY 90 PERCENT OF STICKPILE MATERIAL WILL NEED BLENDED OR TREATED WITH LIME OR CEMENT TO FACILITATE PLACEMENT. CONTRACTOR SHOULD ASSUME LIME OR CEMENT SHOULD BE APPLIED AT A RATE OF 6 PERCENT BY WEIGHT.

REFERENCES

1. TOPOGRAPHY AND PROPERTY INFORMATION PROVIDED BY BLUE MOUNTAIN INC. AERIAL PHOTOGRAPHY DATED 3/31/2014.
2. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/19/2016.
3. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICS LTD. DATED 10/19/2016 TO 10/20/2016.
4. MARKED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/28/2016.

ACCESS ROAD SHALL BE GRADED TO THE TOP OF THE STOCKPILE
EXISTING AREA AND ADJACENT ACCESS ROAD WILL BE REMOVED

12-FEET WIDE ACCESS ROAD TO BE ADDED TO STANDING AREA
START OF ACCESS ROAD TO BE SHOWN AT ELEVATION 100.00
LAT: 29.90455
LON: 80.69336



MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
West Virginia State Law
Section XV, Chapter 24-C requires that you call two business days before you dig in the state of West Virginia
IT'S THE LAW



MAJOR MOD. EROSION AND SEDIMENT CONTROL PLAN
Project Number: 1844-092-0041D
Drawing Scale: 1"=60'
Date Issued: 02/17/2018
Issue Number: R08
Drawn By: R08
Checked By: JRD
Project Manager: T08
ES 101A

HINES WELL SITE
WASHINGTON DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478