

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 M21H
47-051-02088-00-00

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 M21H
Farm Name: DONALD HINES ET UX
U.S. WELL NUMBER: 47-051-02088-00-00
Horizontal 6A New Drill
Date Issued: 10/5/2018

Promoting a healthy environment.

PERMIT CONDITIONS 4705102088

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

CONDITIONS

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

PERMIT CONDITIONS 4705102088

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.”

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.

10/05/2018

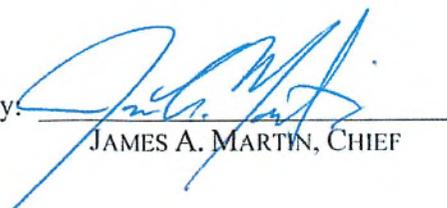
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Thus ORDERED, the 14th day of August, 2017.

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

4705102088

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: M21H 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: 21,954'

11) Proposed Horizontal Leg Length: 14,355'

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.

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	21,954	21,954	2358 (500' below 9.625" shoe)
Tubing							
Liners							

Ju
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:				

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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.

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.

*Note: Attach additional sheets as needed.

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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

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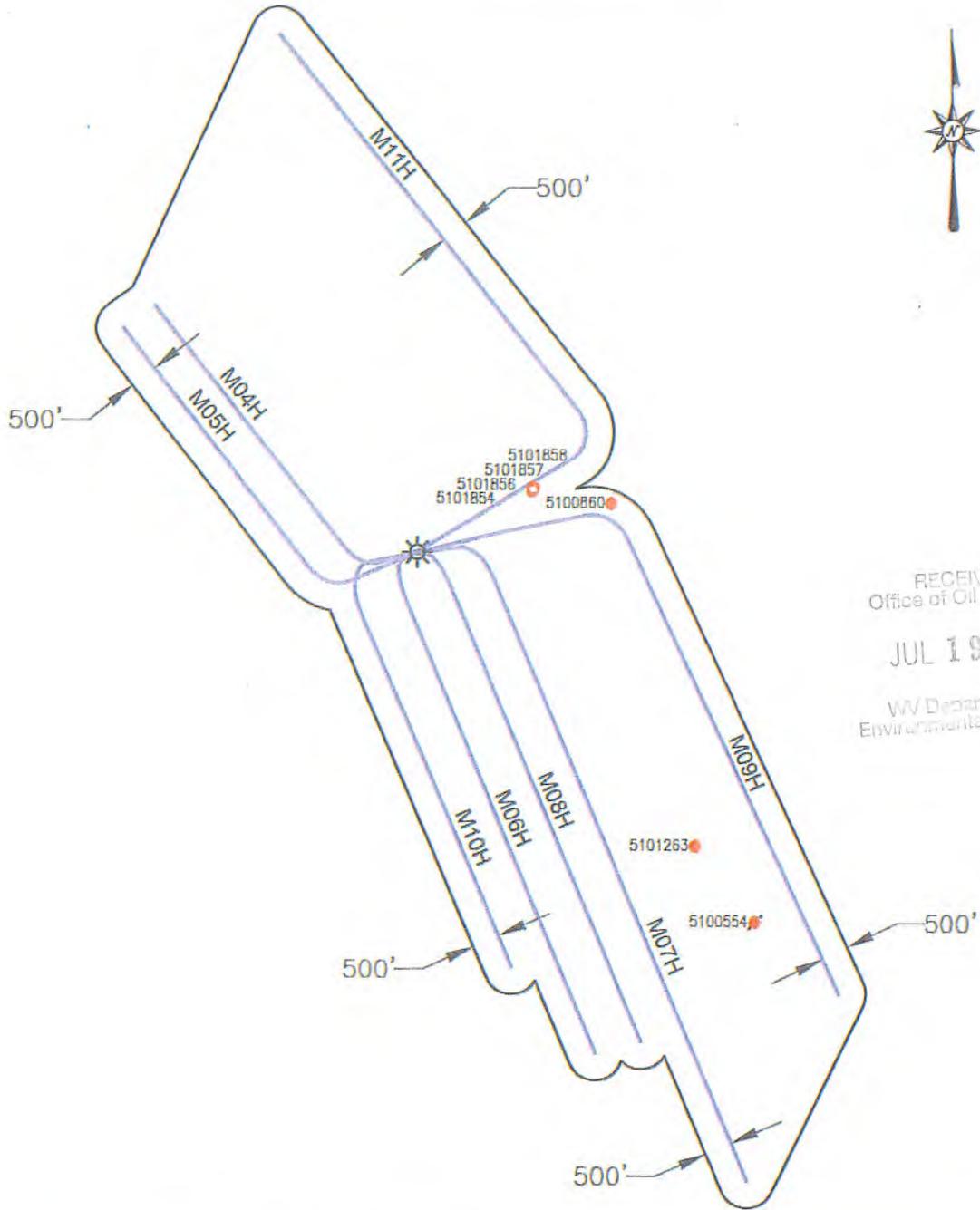
WV Department of
Environmental Protection

Chevron		Hines M21H				Ground Level Elev. (ft above SL):		1,120	
Washington Twp, Marshall Co, WV		DEPTH		WELLHEAD DESIGN		CASING SPECS		CEMENT PROGRAM	
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	MD (FT)	TVD (FT)	INC	AZM	HOLE SIZE (IN)		
Core Barrel / Auger	2 Bowspring per jt	20" Conductor	60	60			26	Conductor 20" API 5L Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	13-3/8" Casing	410	410			17.5	Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	9-5/8" Casing	1,858	1,858			12.375 - 12.25	Intermediate Casing 9-5/8" 40# L-80 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,080 Yield (Jt Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
	Bow Spring: (1) per every other jt over coupling SpiraGlider or Centek: (1) per jt of csg to KOP	5-1/2" Casing	21,954				8.75 - 8.5	Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry Cement to 500' below 9-5/8" shoe Production Tail Slurry TOC minimum 200' above Marcellus
Non-Conservation	Float Equip.	5-1/2" Casing	21,954				8.75 - 8.5		

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

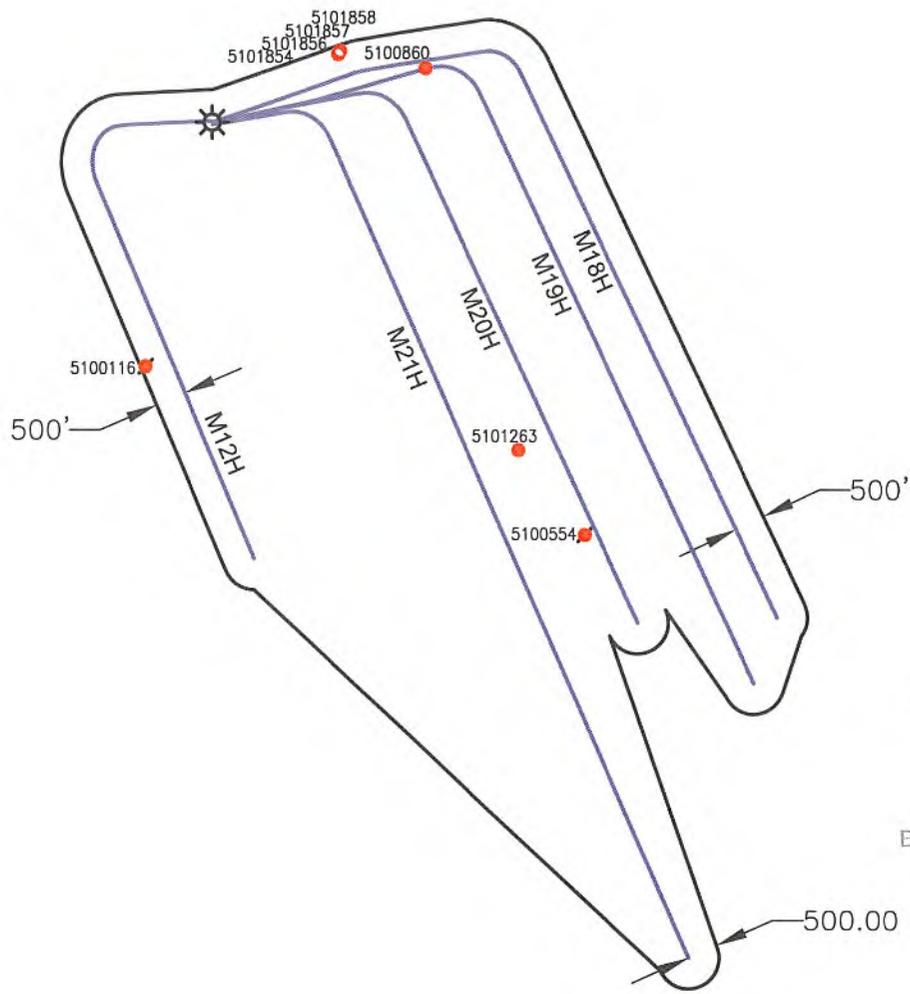
PREPARED FOR:
 CHEVRON APPALACHIA, LLC
 800 MOUNTAIN VIEW DRIVE
 SMITHFIELD, PA 15478

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



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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

WW-9
(4/16)

4705102088
10/05/2018

API Number 47 - _____ - _____
Operator's Well No. Hines M21H

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 Moundsville, WV 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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Commonwealth of Pennsylvania, County of Allegheny
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 Wilhoise*

Comments: _____

Title: Oil + Gas Inspector

Date: 3/27/18

Field Reviewed? Yes No

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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		

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10/05/2018

4705102088



Chevron

**Appalachian LLC
WV Well Site Safety Plan**

Pad: Hines Pad A

Well # M21H

*jen
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

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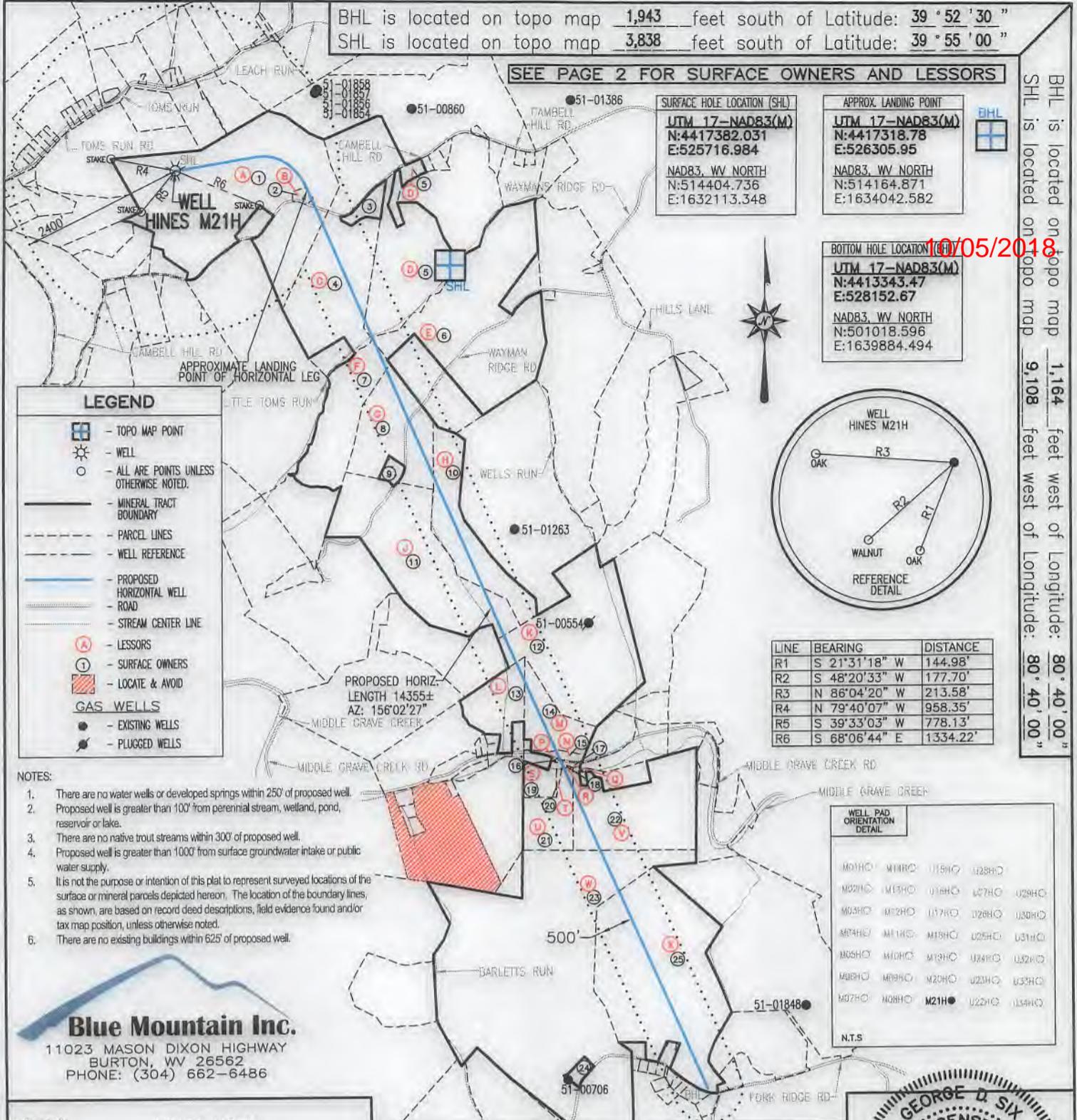
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BHL is located on topo map 1,943 feet south of Latitude: 39° 52' 30"
 SHL is located on topo map 3,838 feet south of Latitude: 39° 55' 00"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS



SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4417382.031
 E:525716.984
 NAD83, WV NORTH
 N:514404.736
 E:1632113.348

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4417318.78
 E:526305.95
 NAD83, WV NORTH
 N:514164.871
 E:1634042.582

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4413343.47
 E:528152.67
 NAD83, WV NORTH
 N:501018.596
 E:1639884.494

BHL is located on topo map 1,164 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 9,108 feet west of Longitude: 80° 40' 00"

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- LOCATE & AVOID
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS



LINE	BEARING	DISTANCE
R1	S 21°31'18" W	144.98'
R2	S 48°20'33" W	177.70'
R3	N 86°04'20" W	213.58'
R4	N 79°40'07" W	958.35'
R5	S 39°33'03" W	778.13'
R6	S 68°06'44" E	1334.22'

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

WELL PAD ORIENTATION DETAIL

M01HC	M18HC	U15HC	U28HC
M02HC	M19HC	U16HC	U29HC
M03HC	M20HC	U17HC	U30HC
M04HC	M21HC	U18HC	U31HC
M05HC	M22HC	U19HC	U32HC
M06HC	M23HC	U20HC	U33HC
M07HC	M24HC	U21HC	U34HC

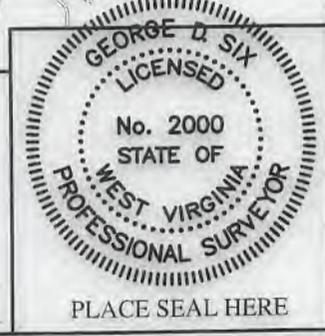
N.T.S.

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

FILE #: HINES M21H
 DRAWING #: HINES M21H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

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



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



DATE: SEPTEMBER 24, 2018
 OPERATOR'S WELL #: HINES M21H
 API WELL #: 47 51 02088
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1125.45'

COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: DONALD HINES ET UX ACREAGE: 114.934±

OIL & GAS ROYALTY OWNER: DONALD HINES ET UX ACREAGE: 947.587±

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

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

(SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,289'± TMD: 21,954.65'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600
 City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

HINES

M21H

PAGE 2 OF 2

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2	TERRY L. DERROW ET UX	14-12/30.3
3	EARNEST L. ROBERTS ET UX	14-12/31.1
4	PATRICIA SUE HOSKINS	14-12/31
5	PAUL E. & BRENT L. SHIPLEY	14-11/16
6	COUNTRY ROADS PROPERTIES LLC	14-11/14
7	PATRICIA SUE HOSKINS	14-13/4
8	TIMOTHY G. GEHO ET UX	14-13/5
9	RICKY L. & TAMMY J. WATSON	14-13/5.1
10	JAMES J. CAVENEY ET UX	14-13/7
11	TIMOTHY G. GEHO ET UX	14-13/6
12	JAMES J. CAVENEY ET UX	14-13/10
13	R. M. COFFIELD FAMILY TRUST	14-13/15
14	KEVIN COULTER ET AL	14-13/50
15	KEVIN COULTER ET AL	14-13/51
16	MICHAEL A. & WENDY S. KELLEY	14-13/53
17	*DONALD G. ROGERSON SR. - LIFE	14-13/55
18	DONALD G. ROGERSON SR. - LIFE	14-13/54
19	MICHAEL A. & WENDY S. KELLEY	3-1/5.3
20	*MICHAEL KELLEY	14-13/56
21	DONALD G. ROGERSON SR. - LIFE	3-1/4
22	DONALD G. ROGERSON SR. - LIFE	3-1/6
23	RICHARD P. FORSHEY	3-1/7
24	MELINDA R. SIMMONS	3-1/7.1
25	SAMUEL J. & SANDRA HEATER	3-1/9.1

	LESSOR	DIST-TM/PAR
L	ROBERT W. COFFIELD ET UX	14-12/30
M	JUNE ELLEN BOSO	14-13/50
N	HAROLD ELLIS LOGSDON ET UX	14-13/51
P	DEAN LOGSDON ET UX	14-13/53
Q*	AMY LYNN BONAR ET VIR	14-13/55
R	DEBRA RAYE MERCER ET VIR	14-13/54
S	NANCY L. HOWE	3-1/5.3
	DEBORAH JANE DAY	
	JEAN FAYE ROBERTS ET VIR	
	CHARLES N. RUSH ET UX	
	NORMA JEAN PATTERSON	
	WESLEY CLEMONS	
	MICHAEL S. CLEMONS	
	LINDA L. DAY	
	TAMMY L. DAY	
	BEVERLY LOGSDON HILL ET VIR	
	CHARLES RICHARD WILSON	
	VICKY L. HOLMES ET VIR	
	CATHERINE E. ANDERSON	
	MARGARET MARIE MCCARDLE	
	KEITH A. LOGSDON ET UX	
	DAVID PAUL SCOLLIK ET UX	
	RICKEY K. DAY	
	HOYA CLEMONS JR.	
	HOWARD LOGSDON JR.	
	JUDITH LOGSDON SHOOK ET VIR	
	DENNIS J. HARTLEY ET UX	
	SUSAN WOODRUFF	
	EVERETT L. HARTLEY JR.	
	BARBARA A. SCOTT	
	ROBERT HARTLEY DEMARA ET UX	
	BARBARA EVANS	
	GALE L. HARTLEY	
	DEBORAH RUTH MOKOSH	
	SANDRA J. FRAME	
	JUDY MAE ROOD	
	SHIRLEY ANN ROBERTS	
	LARRY W. CANTRELL	
	CALVIN B. BROWN	
	ARTHUR WADE GEORGE	
	NAOMI LEE LYONS	
	RICHARD PAUL DEMARA	
	KIMBERLEY S. LARK	
	RHODA MAE MONIGOLD	
	JENNIFER J. HAND ET VIR	
	WILMA JUANITA NORRIS	
	HOWARD WYATT JR., ET UX	
	FRANK EUGENE WADE ET UX	
	GERALDINE J. WADE	
	ROBERT LEWIS BYRD ET UX	
	RICHARD LEE BYRD ET UX	
	VIRGINIA M. WADE	
	BRENDA SUE CAIN JACKSON	
	JOSHUA KEENER	
	RONALD KEENER II	
	CARL L. HARTLEY SR.	
	EVELYN ELLA MOLYNEAUX	
	FLORENCE JEAN NEWLIN	
	SANDRA L. DURHAM	
	RICHARD A. CANTRELL	
	WILDA J. BENNER	
	EARL R. HARTLEY	
	DEBORAH L. CAMPBELL	
	GLORIA J. PRATT	
	CAROLYN A. ROBERTSON	
	WAVA J. CRAIG	
	CHAD WESLEY HARTLEY	
	MICHAEL R. WYATT ET UX	
	PRISCILLA E. CONSTANTINO ET VIR	
	KEVIN SHAYNE CHERNIAWSKI	
	DENNIS V. WADE II, ET UX	
	SUSAN H. RANERI	
	CAROL ANN WYATT	
	CATHY JEAN TACKETT	
	FREDA MARGARET HALL	
	FLOYD A. BYLES ET UX AIF FORETTA R. BYLES	
	GARY J. WADE	
	LINDA MARIE GREEN	
T	*MICHAEL KELLEY	14-13/56
U	DONALD G. ROGERSON SR.	3-1/4
V	DONALD G. ROGERSON SR.	3-1/6
W	RICHARD P. FORSHEY	3-1/7
X	SAMUEL J. HEATER ET UX	3-1/9.1

10/05/2018

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
B	TERRY L. DERROW ET UX	14-12/30.3
C	PATRICIA S. HOSKINS	14-12/31
D	DANIEL I. SHIPLEY ET AL	14-11/16
E	PATRICIA C. LINDGREN	14-11/14
F	PATRICIA S. HOSKINS	14-13/4
G	TIMOTHY GEHO	14-13/5
H	JAMES J. CAVENEY	14-13/7
J	TIMOTHY GEHO	14-13/6
K	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	
L	ROBERT W. COFFIELD ET UX	14-13/15

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4417382.031
 E:525716.984
 NAD83, WV NORTH
 N:514404.736
 E:1632113.348

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4417318.78
 E:526305.95
 NAD83, WV NORTH
 N:514164.871
 E:1634042.582

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4413343.47
 E:528152.67
 NAD83, WV NORTH
 N:501018.596
 E:1639884.494

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

SEPTEMBER 24, 2018

WW-6A1
(5/13)

Operator's Well No. Hines M21H

**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				

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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 Hayes*
 Its: Permitting Team Lead

4705102088

Hines SE Unit #21H - 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	14-12-30.3	DERROW TERRY L ET UX	Chevron U.S.A. Inc	18.00%	868/312	n/a	n/a	n/a
C	14-12-31	HOSKINS PATRICIA S	Chevron U.S.A. Inc	15.00%	655/564	n/a	n/a	n/a
D	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
E	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
F	14-13-4	HOSKINS PATRICIA S	Chevron U.S.A. Inc	15.00%	655/564	n/a	n/a	n/a
G	14-13-5	GEHO TIMOTHY	Chevron U.S.A. Inc	16.00%	815/176	n/a	n/a	n/a
H	14-13-7	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	14-13-6	GEHO TIMOTHY	Chevron U.S.A. Inc	16.00%	815/176	n/a	n/a	n/a
K	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		

4705102088

Hines SE Unit #21H - MARC - BATCH 1 - FINAL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		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
L	14-13-15	COFFIELD ROBERT W ET UX	Chevron U.S.A. Inc	18.00%	863/622	n/a	n/a	n/a
		BOSO JUNE ELLEN - SFX	Chevron U.S.A. Inc.	18.00%	863/518	n/a	n/a	n/a
		LOGSDON HAROLD ELLIS ET UX - SFX	Chevron U.S.A. Inc.	18.00%	854/187	n/a	n/a	n/a
		LOGSDON DEAN ET UX - SFX	Chevron U.S.A. Inc.	18.00%	854/203	n/a	n/a	n/a
		BONAR AMY LYNN ET VIR - SFX	Chevron U.S.A. Inc.	18.00%	854/199	n/a	n/a	n/a
		MERCER DEBRA RAYE ET VIR - SFX	Chevron U.S.A. Inc.	18.00%	854/195	n/a	n/a	n/a
		HOWE NANCY L - SFX	Chevron U.S.A. Inc.	18.00%	954/191	n/a	n/a	n/a
		DAY DEBORAH JANE - SFX	Chevron U.S.A. Inc.	18.00%	854/207	n/a	n/a	n/a
		ROBERTS JEAN FAYE ET VIR - SFX	Chevron U.S.A. Inc.	18.00%	854/211	n/a	n/a	n/a
		RUSH CHARLES N ET UX - SFX	Chevron U.S.A. Inc.	18.00%	913/004	n/a	n/a	n/a
		PATTERSON NORMA JEAN - SFX	Chevron U.S.A. Inc.	18.00%	913/008	n/a	n/a	n/a
		CLEMONS WESLEY - SFX	Chevron U.S.A. Inc.	18.00%	913/012	n/a	n/a	n/a
		CLEMONS MICHAEL S - SFX	Chevron U.S.A. Inc.	18.00%	913/016	n/a	n/a	n/a
		DAY LINDA L - SFX	Chevron U.S.A. Inc.	18.00%	913/020	n/a	n/a	n/a
		DAY TAMMY L - SFX	Chevron U.S.A. Inc.	18.00%	859/001	n/a	n/a	n/a
		HILL BEVERLY LOGSDON ET VIR	Chevron U.S.A. Inc.	18.00%	860/137	n/a	n/a	n/a
		WILSON CHARLES RICHARD - SFX	Chevron U.S.A. Inc.	18.00%	860/92	n/a	n/a	n/a
		HOLMES VICKY L ET VIR - SFX	Chevron U.S.A. Inc.	18.00%	860/96	n/a	n/a	n/a
		ANDERSON CATHERINE E - SFX	Chevron U.S.A. Inc.	18.00%	860/100	n/a	n/a	n/a
		MCCARDLE MARGARET MARIE - SFX	Chevron U.S.A. Inc.	18.00%	913/024	n/a	n/a	n/a
		LOGSDON KEITH A ET UX - SFX	Chevron U.S.A. Inc.	18.00%	860/198	n/a	n/a	n/a
		SCOLICK DAVID PAUL ET UX - SFX	Chevron U.S.A. Inc.	18.00%	860/233	n/a	n/a	n/a
		DAY RICKEY K - SFX	Chevron U.S.A. Inc.	18.00%	860/181	n/a	n/a	n/a
		CLEMONS HOYA JR - SFX	Chevron U.S.A. Inc.	18.00%	860/157	n/a	n/a	n/a
		LOGSDON HOWARD JR - SFX	Chevron U.S.A. Inc.	18.00%	861/531	n/a	n/a	n/a
		SHOOK JUDITH LOGSDON ET VIR - SFX	Chevron U.S.A. Inc.	18.00%	864/60	n/a	n/a	n/a
		HARTLEY DENNIS J ET UX - SFX	Chevron U.S.A. Inc.	18.00%	864/64	n/a	n/a	n/a
		WOODRUFF SUSAN - SFX	Chevron U.S.A. Inc.	18.00%	863/324	n/a	n/a	n/a
		HARTLEY EVERETT L JR - SFX	Chevron U.S.A. Inc.	18.00%	863/320	n/a	n/a	n/a
		SCOTT BARBARA A - SFX	Chevron U.S.A. Inc.	18.00%	863/316	n/a	n/a	n/a
		DEMARA ROBERT HARTLEY ET UX - SFX	Chevron U.S.A. Inc.	18.00%	864/76	n/a	n/a	n/a
		EVANS BARBARA - SFX	Chevron U.S.A. Inc.	18.00%	864/72	n/a	n/a	n/a

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Office of Oil and Gas

JUL 19 2018

WV Department of
Environmental Protection

4705102088

Hines SE Unit #21H - MARC - BATCH 1 - FINAL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
M N P Q R S	14-13-50; 14-13-51; 14-13-53; 14-13-55; 14-13-54; 3-1-5.3	HARTLEY GALE L - SFX	Chevron U.S.A. Inc.	18.00%	864/68	n/a	n/a	n/a
		MOKOSH DEBORAH RUTH - SFX	Chevron U.S.A. Inc.	18.00%	865/84	n/a	n/a	n/a
		FRAME SANDRA J - SFX	Chevron U.S.A. Inc.	18.00%	865/268	n/a	n/a	n/a
		ROOD JUDY MAE - SFX	Chevron U.S.A. Inc.	18.00%	865/22	n/a	n/a	n/a
		ROBERTS SHIRLEY ANN - SFX	Chevron U.S.A. Inc.	18.00%	865/218	n/a	n/a	n/a
		CANTRELL LARRY W - SFX	Chevron U.S.A. Inc.	18.00%	865/272	n/a	n/a	n/a
		BROWN CALVIN B - SFX	Chevron U.S.A. Inc.	18.00%	865/136	n/a	n/a	n/a
		GEORGE ARTHUR WADE - SFX	Chevron U.S.A. Inc.	18.00%	865/132	n/a	n/a	n/a
		LYONS NAOMI LEE - SFX	Chevron U.S.A. Inc.	18.00%	865/128	n/a	n/a	n/a
		DEMARA RICHARD PAUL - SFX	Chevron U.S.A. Inc.	18.00%	865/140	n/a	n/a	n/a
		LARK KIMBERLEY S - SFX	Chevron U.S.A. Inc.	18.00%	864/614	n/a	n/a	n/a
		MONIGOLD RHODA MAE - SFX	Chevron U.S.A. Inc.	18.00%	865/40	n/a	n/a	n/a
		HAND JENNIFER J ET VIR - SFX	Chevron U.S.A. Inc.	18.00%	865/283	n/a	n/a	n/a
		NORRIS WILMA JUANITA - SFX	Chevron U.S.A. Inc.	18.00%	865/279	n/a	n/a	n/a
		WYATT HOWARD JR ET UX - SFX	Chevron U.S.A. Inc.	18.00%	864/610	n/a	n/a	n/a
		WADE FRANK EUGENE ET UX - SFX	Chevron U.S.A. Inc.	18.00%	871/409	n/a	n/a	n/a
		WADE GERALDINE J - SFX	Chevron U.S.A. Inc.	18.00%	866/63	n/a	n/a	n/a
		BYRD ROBERT LEWIS ET UX - SFX	Chevron U.S.A. Inc.	18.00%	866/110	n/a	n/a	n/a
		BYRD RICHARD LEE ET UX - SFX	Chevron U.S.A. Inc.	18.00%	867/1	n/a	n/a	n/a
		WADE VIRGINIA M - SFX	Chevron U.S.A. Inc.	18.00%	864/586	n/a	n/a	n/a
		JACKSON BRENDA SUE CAIN - SFX	Chevron U.S.A. Inc.	18.00%	867/92	n/a	n/a	n/a
		KEENER JOSHUA - SFX	Chevron U.S.A. Inc.	18.00%	866/92	n/a	n/a	n/a
		KEENER RONALD II - SFX	Chevron U.S.A. Inc.	18.00%	866/96	n/a	n/a	n/a
		HARTLEY CARL L SR - SFX	Chevron U.S.A. Inc.	18.00%	864/606	n/a	n/a	n/a
		MOLYNEAUX EVELYN ELLA - SFX	Chevron U.S.A. Inc.	18.00%	867/96	n/a	n/a	n/a
		NEWLIN FLORENCE JEAN - SFX	Chevron U.S.A. Inc.	18.00%	867/103	n/a	n/a	n/a
		DURHAM SANDRA L - SFX	Chevron U.S.A. Inc.	18.00%	866/100	n/a	n/a	n/a
		CANTRELL RICHARD A - SFX	Chevron U.S.A. Inc.	18.00%	866/84	n/a	n/a	n/a
		BENNER WILDA J - SFX	Chevron U.S.A. Inc.	18.00%	866/80	n/a	n/a	n/a
		HARTLEY EARL R - SFX	Chevron U.S.A. Inc.	18.00%	866/88	n/a	n/a	n/a
CAMPBELL DEBORAH L - SFX	Chevron U.S.A. Inc.	18.00%	866/76	n/a	n/a	n/a		
PRATT GLORIA J - SFX	Chevron U.S.A. Inc.	18.00%	866/72	n/a	n/a	n/a		
ROBERTSON CAROLYN A - SFX	Chevron U.S.A. Inc.	18.00%	870/504	n/a	n/a	n/a		
CRAIG WAVA J - SFX	Chevron U.S.A. Inc.	18.00%	870/515	n/a	n/a	n/a		
HARTLEY CHAD WESLEY - SFX	Chevron U.S.A. Inc.	18.00%	870/530	n/a	n/a	n/a		
WYATT MICHAEL R ET UX - SFX	Chevron U.S.A. Inc.	18.00%	889/266	n/a	n/a	n/a		

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Hines SE Unit #21H - MARC - BATCH 1 - FINAL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		CONSTANTINO PRISCILLA E ET VIR - SFX	Chevron U.S.A. Inc.	18.00%	871/417	n/a	n/a	n/a
		CHERNIAWSKI KEVIN SHAYNE - SFX	Chevron U.S.A. Inc.	18.00%	871/200	n/a	n/a	n/a
		WADE DENNIS V II ET UX - SFX	Chevron U.S.A. Inc.	18.00%	871/433	n/a	n/a	n/a
		RANERI SUSAN H - SFX	Chevron U.S.A. Inc.	18.00%	871/429	n/a	n/a	n/a
		WYATT CAROL ANN - SFX	Chevron U.S.A. Inc.	18.00%	871/421	n/a	n/a	n/a
		TACKETT CATHY JEAN - SFX	Chevron U.S.A. Inc.	18.00%	880/506	n/a	n/a	n/a
		HALL FREDA MARGARET - SFX	Chevron U.S.A. Inc.	18.00%	876/502	n/a	n/a	n/a
		BYLES FLOYD A ET UX AIF FORETTA R BYLES - SFX	Chevron U.S.A. Inc.	18.00%	889/270	n/a	n/a	n/a
		WADE GARY J - SFX	Chevron U.S.A. Inc.	18.00%	889/263	n/a	n/a	n/a
		GREEN LINDA MARIE - SFX	Chevron U.S.A. Inc.	18.00%	889/274	n/a	n/a	n/a
T	14-13-56	KELLEY MICHAEL	Chevron U.S.A. Inc.	18.00%	878/234	n/a	n/a	n/a
U	3-1-4	ROGERSON DONALD G SR	Chesapeake Appalachia, LLC	12.50%	676/15	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
V	3-1-6	ROGERSON DONALD G SR	Chesapeake Appalachia, LLC	12.50%	676/18	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
W	3-1-7	FORSHEY RICHARD P	Chevron U.S.A. Inc.	14.00%	801/433	n/a	n/a	n/a
X	3-1-9.1	HEATER SAMUEL J ET UX	Chevron U.S.A. Inc.	18.00%	848/431	n/a	n/a	n/a

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10/05/2018

4705102088

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,

Brandon Means
Land Representative

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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

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. 21H
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>525716.984</u>
County: <u>Marshall</u>		Northing: <u>4417382.031</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.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
<p>RECEIVED Office of Oil and Gas JUL 19 2018 WV Department of Environmental Protection</p>	

Required Attachments:

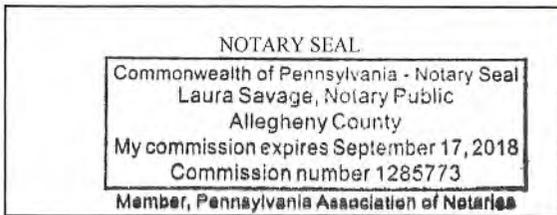
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

4705102088

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 19th 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 depprivacyofficer@wv.gov.

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**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

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API NO. 47 **4705102088**
OPERATOR WELL NO. M21H **10/05/2018**
Well Pad Name: Hines

WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Environmental Protection

WW-6A
(8-13)

API NO. 47- 4705102088
OPERATOR WELL NO. M21H **10/05/2018**
Well Pad Name: Hines

Notice is hereby given by:

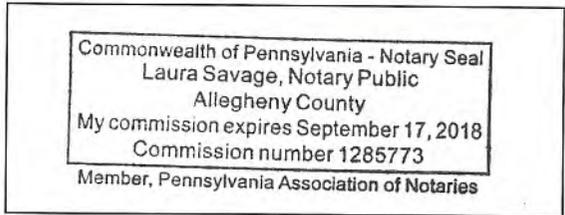
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: jzyk@chevron.com

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 deprivacyofficer@wv.gov.

Jerry 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

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JUL 19 2018
WV Department of
Environmental Protection

Attachment to WW-6A

API No. 47- _____ - _____

OPERATOR WELL NO. M21H

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

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 Environmental Protection

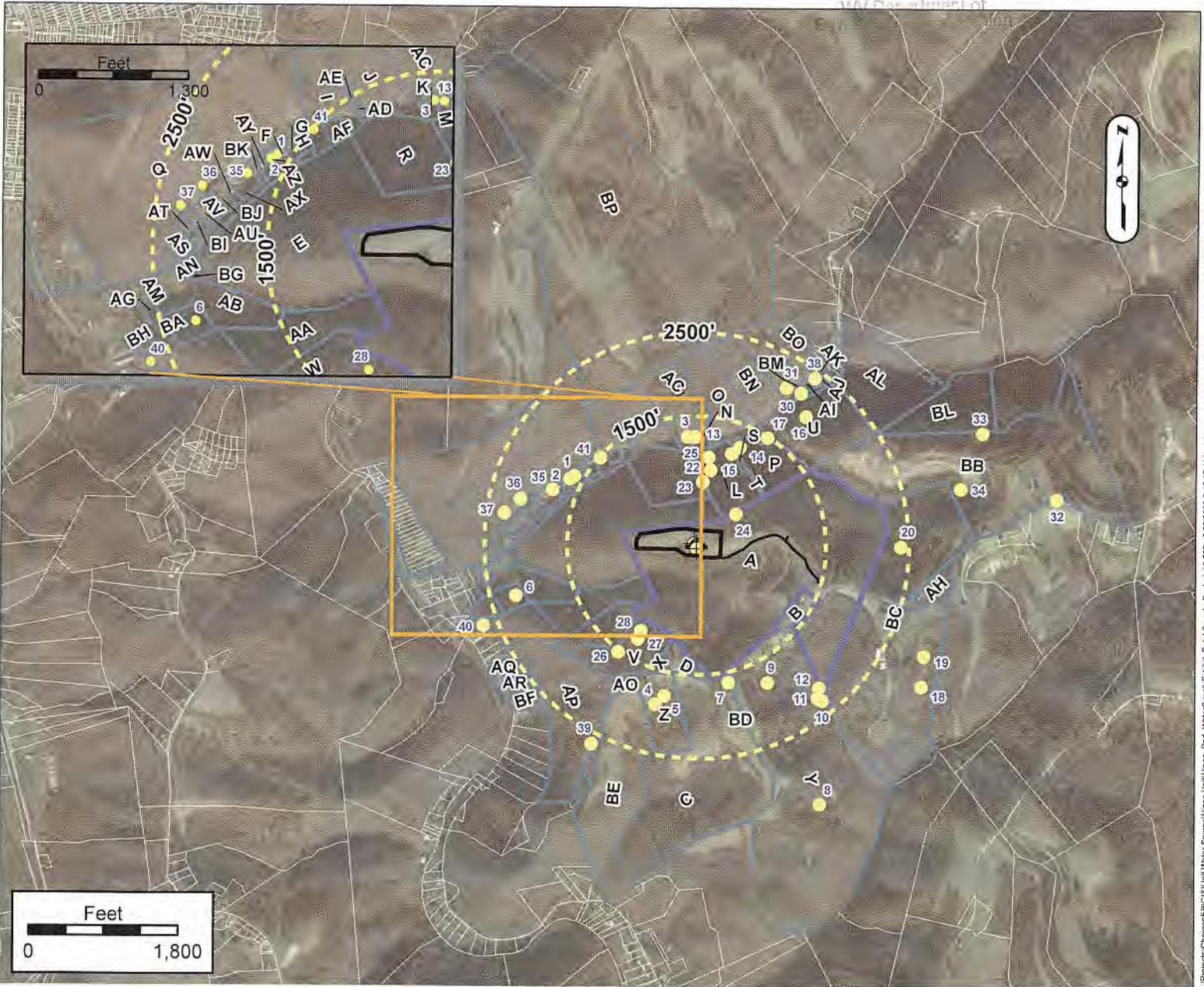


WATER SUPPLY EXHIBIT HINES PAD

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10/05/2018
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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 12006700020000	AW	YOHD LYLE WAYNE	25-14 12A000700000000
B	GOSSETT LANCE J ET UX	25-14 12003000000000	R	STATE OF W VA	25-14 12007500000000	AH	ROBERTS EARNFST I ET UX	25-14 120031000010000	AX		
C	PARSONS HENRY T EST ET AL	25-14 12003000000000	S	FITZSIMMONS JOHN E & ANGELA	25-14 120027000100000	AI	PYLES RONNIE ET UX	25-14 30040000000000	AY	SMITH PAUL K & BETTY - LIFE	25-14 12A0000000000000
D	WOOD CLESTEVE HINES	25-14 12003000040000	T	KNUTH EDWARD DAVID & KATHY JO	25-14 120030000100000	AJ	THOMAS WILLIAM H ET UX	25-14 90028000000000	BA	SANDRINGER SANDRA SUE & LORI A	25-14 12A0000000000000
E	GOODNIGHT ARNIE N ET UX	25-14 12002500000000	U	BLUCKE JOHN A ET UX	25-14 12002500000000	AK	THOMAS WILLIAM H ET UX	25-14 90028000000000	BB	GOODNIGHT OSCAR I	25-14 12006700000000
F	BROWN TERRY K ET UX	25-14 12A001100000000	V	LACEFIELD MORGAN T	25-14 12003000000000	AL	BRADY ROGER A ET UX	25-14 90035000000000	BC	BRINE DEY L IB	25-14 11000100000000
G	TUCKER JESS L & HELEN	25-14 12A001200000000	W	LACEFIELD MORGAN T	25-14 12003000000000	AM	HARTLEY PHYLIS C	25-14 12006700000000	BD	HOSKINS PATRICIA SUE	25-14 12003100000000
H	YOHD RAYMOND P	25-14 12A001300000000	X	WOODS CLESIE	25-14 12003000000000	AN		25-14 12006700000000	BE	FULLER ROBERT B ET UX	25-14 12004500000000
I	MCCARTNEY MICHAEL J ET UX	25-14 90040000000000	Y	SON LORREY DUGLAS EDWARD ET	25-14 12003200000000	AO	PARSONS HENRY T JR & VIOLET	25-14 120045000010000	BF	HARVEY TH GEORGE R ET UX	25-14 12006700000000
J	LUCAS LEONARD L ET UX	25-14 90040000000000	Z	BOSTON DONALD M ET UX	25-14 12006700000000	AP	WAN SCHOF DELBERT M ET UX	25-14 12004500000000	BG		
K	BAKER BOBBY G ET UX	25-14 90040000000000	AA	GOODNIGHT ARNIE N ET UX	25-14 12006700000000	AR	JENNINGS MICHAEL LEE ET UX	25-14 12004500000000	BH	GOODNIGHT ARNIE	25-14 12006700000000
L	KNUTH EDWARD DAVID ET UX	25-14 12002700000000	AB	GOODNIGHT GEORGE L UX ESTS	25-14 12006700000000	AS	SCHEIDER JOHN M & TALINE H	25-14 12A000000000000	BI	HOYT YARVIN LUNDR ET UX-LIFE	25-14 12A000000000000
M	GRANDSTAFF ELMER JR ET UX	25-14 90040000000000	AC	LUCAS LEONARD L ET UX	25-14 90040000000000	AT	THOMAS HARRY ET UX	25-14 12A000000000000	BJ	YOHD LYLE WAYNE	25-14 12A000000000000
N	BAKER BRUCE W ET UX	25-14 90040000000000	AD	LUCAS LEONARD L ET UX	25-14 90040000000000	AU	WHITELATCH DEBBIE ANN	25-14 12A000000000000	BK	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 12A000000000000
O	OLIVER GERALD ET AL	25-14 90040000000000	AE	LUCAS LEONARD L ET UX	25-14 90040000000000	AV	FRISTER NORMA	25-14 12A000000000000	BL	BRADY ROGER A ET UX	25-14 90035000000000
P	BROWN TOBIAS & JESSICA	25-14 12002800000000	AF	MCCARTNEY MICHAEL J ET UX	25-14 90040000000000						

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.

L:\Projects\ChromEPCIS\Util\Water_Sources\lines_Pad_WaterSupply\Exhibit_Batch2.mxd - Scale: 1:15,600 - 2/22/2018 9:45:07 AM - OSWELL - MAD 1981 StatePlane West Virginia North FIPS 4701 Feet



WATER SUPPLY EXHIBIT
HINES PAD

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10/05/2018

WV Department of
Environmental Protection

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

10/05/2018

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			

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*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			

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JUL 19 2018

WV Department of
Environmental Protection

*Water source previously located in 2014 or 2015



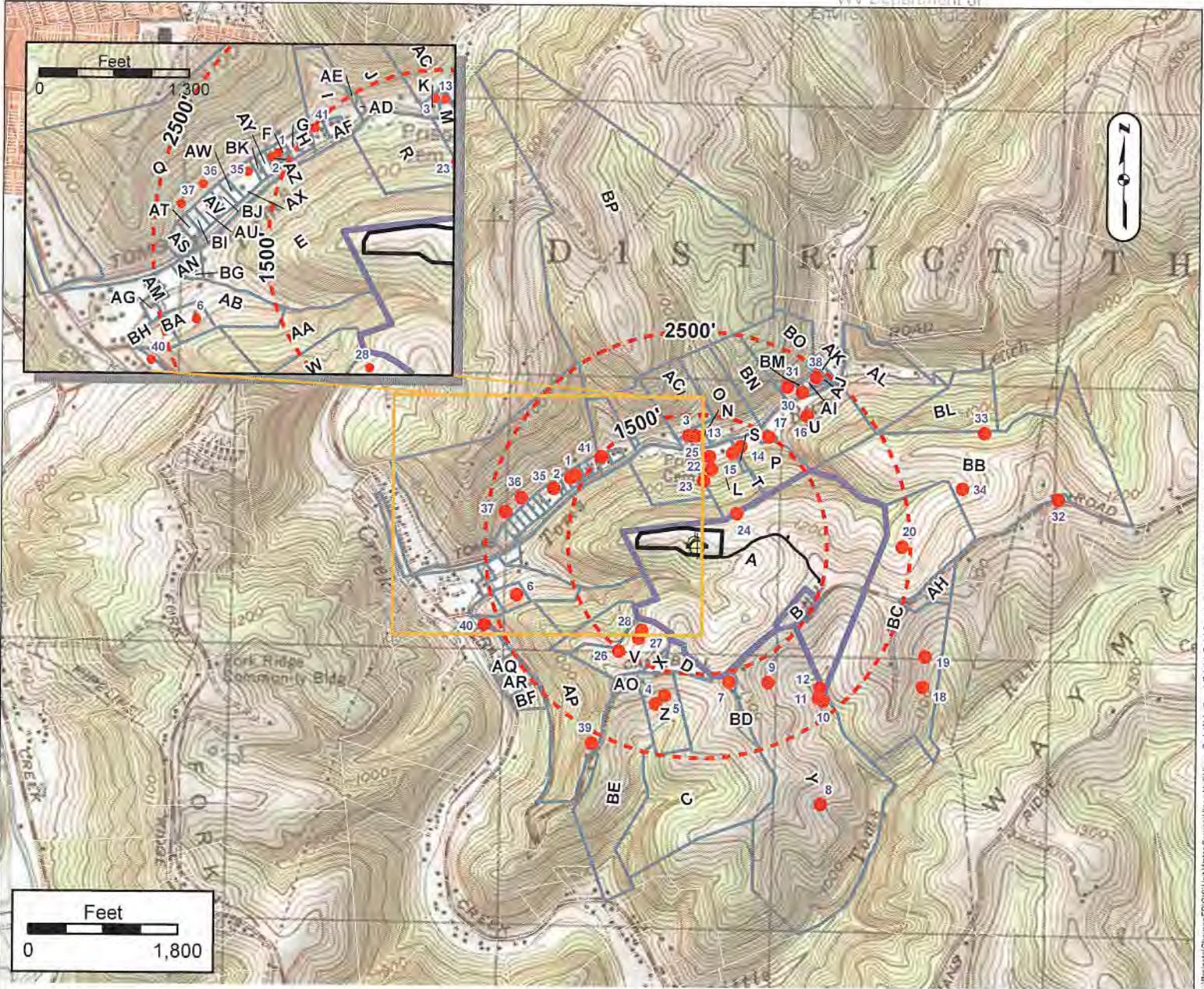
WATER SUPPLY EXHIBIT HINES PAD

Office of the Surveyor

JUL 19 2018

10/05/2018
CEM

WV Department of
Environment



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	GOODRITT LANCE ET UX	25-14 12003000000000	R	STATE OF W VA	25-14 12002600000000	AH	ROBERTS EARNEST I ET UX	25-14 12003100000000	AX	AK	25-14 12009900000000
C	PARSONS HENRY T EST ET AL	25-14 12003100000000	S	H BIRKHEAD JOHN E & ANGELA L	25-14 12002700000000	AI	PILES RONNIE ET UX	25-14 90040000000000	AY	SMITH PAUL K S BETTY - LIFE	25-14 12000900000000
D	WOODD CLESTENE HINES	25-14 12003000000000	T	KNUTH EDWARD DAVID & KATHY LO	25-14 12002800000000	AJ	THOMAS WILLIAM W ET UX	25-14 90039000000000	AZ	ANDLINGER SANDRA SUE & LORNA	25-14 12001000000000
E	GOODNIGHT ARNIE N ET UX	25-14 12002500000000	U	BEUCKE JOHN A ET UX	25-14 12002900000000	AK	THOMAS WILLIAM W ET UX	25-14 90038000000000	BA	GOODNIGHT OSCAR T	25-14 12001100000000
F	BROWN TERRY K ET UX	25-14 12000110000000	V	LACEFIELD MORGAN	25-14 12003000000000	AL	BRADY ROGER A ET UX	25-14 90036000000000	BB	BINE OKEY LUR	25-14 12001200000000
G	TUCKER JESS I & HELEN	25-14 12000120000000	W	LACEFIELD MORGAN T	25-14 12003000000000	AM	HARTLEY PHYLLIS C	25-14 12006700000000	BC	HIDSON'S PATRICIA SUE	25-14 12001300000000
H	YOHO RAYMOND P	25-14 12000130000000	X	WOODS CLESIE	25-14 12003000000000	AN	HARTLEY PHYLLIS C	25-14 12006700000000	BD	FULLER ROBERT B ET UX	25-14 12001400000000
I	MCCARTNEY MICHAEL E ET UX	25-14 90046000000000	Y	BODDISBERRY DOUGLAS EDWARD ET	25-14 12003200000000	AO	PARSONS HENRY T JR & VIDUE	25-14 12004500000000	BE	PARSONS HENRY T EST ET AL	25-14 12004500000000
J	LUCAS LEONARD J ET UX	25-14 90045000000000	Z	HOSTER DONALD W ET UX	25-14 12003300000000	AP	VAN SCOYK DELBERT M ET UX	25-14 12006500000000	BF	HARBETH GEORGE R ET UX	25-14 12004600000000
K	BAKER BOBBY G ET UX	25-14 90044000000000	AA	GOODNIGHT ARNIE N ET UX	25-14 12002700000000	AQ	JENKINS MICHAEL CEE ET UX	25-14 12006400000000	BG	BG	25-14 12006400000000
L	KNUTH EDWARD DAVID ET UX	25-14 12002700000000	AB	GOODNIGHT GEORGE ET UX ESTS	25-14 12002700000000	AR	SCHNEIDER JOHN M & TALINE	25-14 12006300000000	BH	GOODNIGHT ARNIE	25-14 12006700000000
M	GRANDSTAFF ELVER JR ET UX	25-14 90044000000000	AC	LUCAS LEONARD J ET UX	25-14 90044000000000	AS	THOMAS HARRY ET UX	25-14 12006200000000	BI	HONY MARVIN JUNIOR ET UX-LIFE	25-14 12002800000000
N	BAKER BRUCE W ET UX	25-14 90044000000000	AD	LUCAS LEONARD J ET UX	25-14 90045000000000	AT	WHITEATCH DEBBIE ANN	25-14 12006100000000	BJ	YOHO LYLE WAYNE	25-14 12002800000000
O	OLIVER GERALD ET AL	25-14 90044000000000	AE	LUCAS LEONARD J ET UX	25-14 90045000000000	AU	HOSTER NORMA	25-14 12006000000000	BK	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 12002800000000
P	BROWN TOBIAS & JESSICA	25-14 12002800000000	AF	MCCARTNEY MICHAEL J ET UX	25-14 90046000000000	AV	HOSTER NORMA	25-14 12006000000000	BL	BRADY ROGER A ET UX	25-14 90035000000000

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.

4705102088 ^{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

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: 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: 525716.984
County: Marshall Northing: 4417382.031
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: _____

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JUL 19 2018

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 03/12/2018 **Date Permit Application Filed:** 7/18/18

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: 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: West Virginia	UTM NAD 83 Easting: 525716.984
County: Marshall	UTM NAD 83 Northing: 4417382.031
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(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.

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

State: _____	West Virginia	UTM NAD 83	Easting: _____	525716.984
County: _____	Marshall		Northing: _____	4417382.031
District: _____	Washington	Public Road Access: _____	Route 38/Campbell Hill Road	
Quadrangle: _____	Moundsville, WV 7.5'	Generally used farm name: _____	Hines <i>Donald Hines</i>	
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: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: JUL 10 2018</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.

Office of Oil and Gas
Environmental Protection

STATE OF WEST VIRGINIA 4705102088
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>525716.984</u>
County:	<u>Marshall</u>	Northing:	<u>4417382.031</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>07/18/2018</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.

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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 M21H

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

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Hydraulic Fracturing Fluid Additives

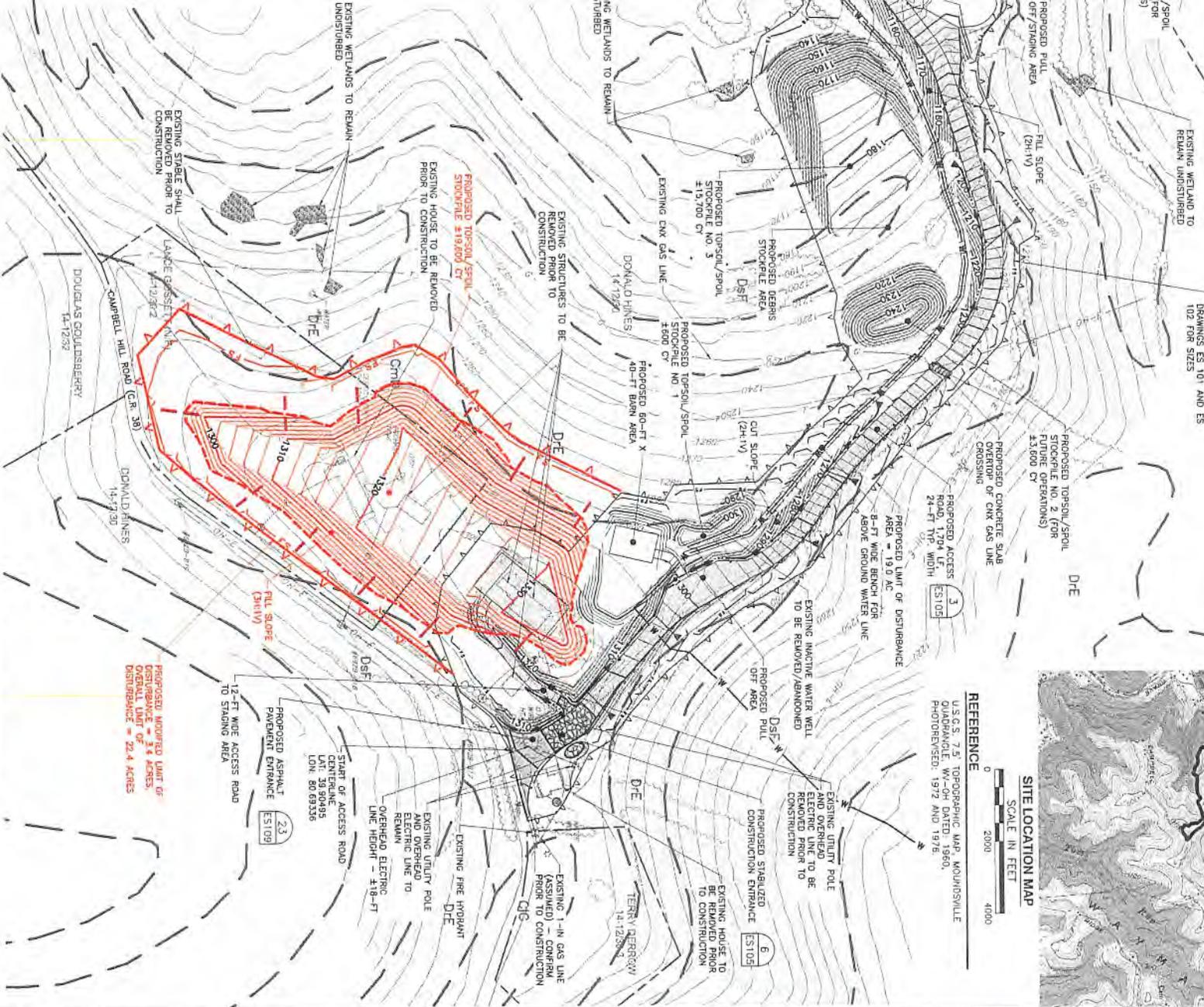
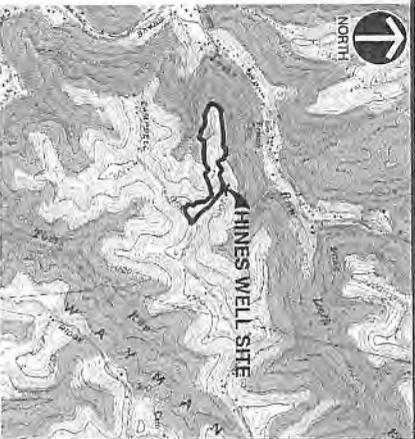
Supplier	Name	Purpose
Universal	7.5% HCl Acid	Acid - To open perforations
Universal	Unislick ST50	Friction Reducer for Water and Brine (Anionic)
Universal	Scale Inhibitor A	Scale Inhibitor
Universal	Iron Control A	Iron Control
Universal	Unihib G	Corrosion Inhibitor for Acid
Universal	K-Bac 1020	Biocide/Bactericide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

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JUL 19 2018

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Environmental Protection

PURPOSES ONLY



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



REVISION RECORD	
Date	No
07/26/2017	01
02/15/2018	02
	03
	04
	05
	06
	07
	08



CEC
Civil & Environmental Consultants, Inc.
4000 Triangle Lane, Suite 200 - Export, PA 15632
724-327-5200 • 800-899-3610
www.cecinc.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: 166457.qxd
Drawing Scale: 1"=100'
Drawing Issued: 07/19/2018
Infile Number:
Drawn By: JAM
Checked By: TCB
Project Manager: MMS
ES 100

4th	Longitude (West)
80.69336	
80.69336	

