

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

Thursday, October 4, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HINES M12H 47-051-02084-00-00

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 NES M12H

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 10/4/2018

Promoting a healthy environment.

API Number:

PERMIT CONDITIONS 4705 100 220 8 4

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

CONDITIONS

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

API Number:

PERMIT CONDITIONS 470 5 1 0 2 0 8 4

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.

10/05/2018 4705102084



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:

- OOG, an office within the West Virginia Department of Environmental Protection, is the agency
 with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and
 the rules and regulations promulgated thereunder.
- Chevron is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 800 Mountain View Drive, Smithfield, Pennsylvania.
- 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."

<u>ORDER</u>

4705102084

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;
- 1. All records from inspections shall be maintained on site for the life of the project and be available upon request.

4705102084

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

0 By. JAMES A. MARTIN, CHIEF

Order No. 2017-W-9 Page 4

API NO. 47-____

WW-6B (04/15)

OPERATOR WELL NO. 100/05/2018

Well Pad Name: Hines

4705102084

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

1) Well Operator: Chevron A	ppalachia, LLC	49449935	Marshall	Washing	Moundsville, WV
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: M	I12H	Well P	ad Name: Hine	S	
3) Farm Name/Surface Owner:	Hines	Public Ro	ad Access: Ro	ute 38/Cam	pbell Hill Road
4) Elevation, current ground:	1125	Elevation, propose	d post-construct	ion: <u>1125'</u>	
5) Well Type (a) Gas X Other	Oil	Un	derground Stora	ge	
(b)If Gas Sh	allow X	Deep			
He	orizontal X		τ		
6) Existing Pad: Yes or No Ye	es				
7) Proposed Target Formation(Marcellus; 6,245' below GL; 5		-	-	ressure(s):	
8) Proposed Total Vertical Dep	oth: 6,289'				
9) Formation at Total Vertical		lus			
10) Proposed Total Measured I	Depth: 14,436	P	18 0 - 40 merer		
11) Proposed Horizontal Leg L	ength: 6,537'				
12) Approximate Fresh Water	Strata Depths:	360' below GL	- Base of Dunl	kard Group	
13) Method to Determine Fresh	n Water Depths:	No water wells within 1.5 mil	es - used basee of Dunkar	d group as deepest	potable water in Marshall County
14) Approximate Saltwater De	pths: 1046', 15	95', 1837' Below G	L		· · · · · · · · · · · · · · · · · · ·
15) Approximate Coal Seam D	epths: Waynes	burg Seam 365' E	elow GL; Pitts	ourgh Seam	n 640' Below GL
16) Approximate Depth to Pos	sible Void (coal	mine, karst, other):	No Void expe	cted	
17) Does Proposed well location directly overlying or adjacent t			No	Office of	ElVED Juliand Gas
(a) If Yes, provide Mine Info	: Name: Ire	land Mine		~~~ Z 7	2040
	Depth: $\overline{64}$	0' Below GL		Enviro Depart	2018
	Seam: Pit	tsburgh Coal		Environmental ;	Protection
	Owner: Mu	rray Energy Corp owns	Ireland Mine; Conso	ol owns Coal Pi	llar wells will be drilled in.

WW-6B (04/15)

API NO. 47-____-OPERATOR WELL NO. M124 Well Pad Name: Hines

4705102084

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (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	14,436	14,436	2358 (500' below 9.625" shoe)
Tubing							
Liners							

V 3/29/18

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (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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JUL 1 9 2018

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API NO. 47			
OPERATOR WELL	101 <u>0/</u>	05/	2018
Well Pad Name: 💾	lines		· · · · · · · · · · · · · · · · · · ·
47051	0 2	0	84

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 a line be clean. Flui	d sections will be circulated
a minimum of 2 bottoms up once casing point has been reached and until u achieved.	niform mud properties are
WV Department of Environmental Protection	
Protection	

*Note: Attach additional sheets as needed.

HINES PAD CEMENT ADDITIVES

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

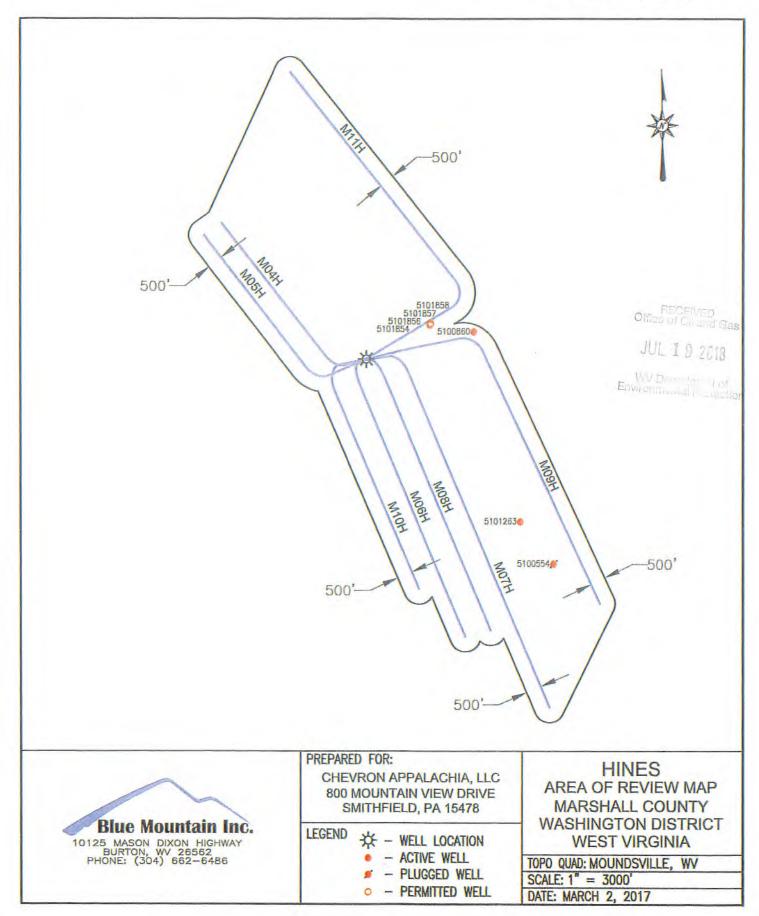
suspension agent, and friction reducer

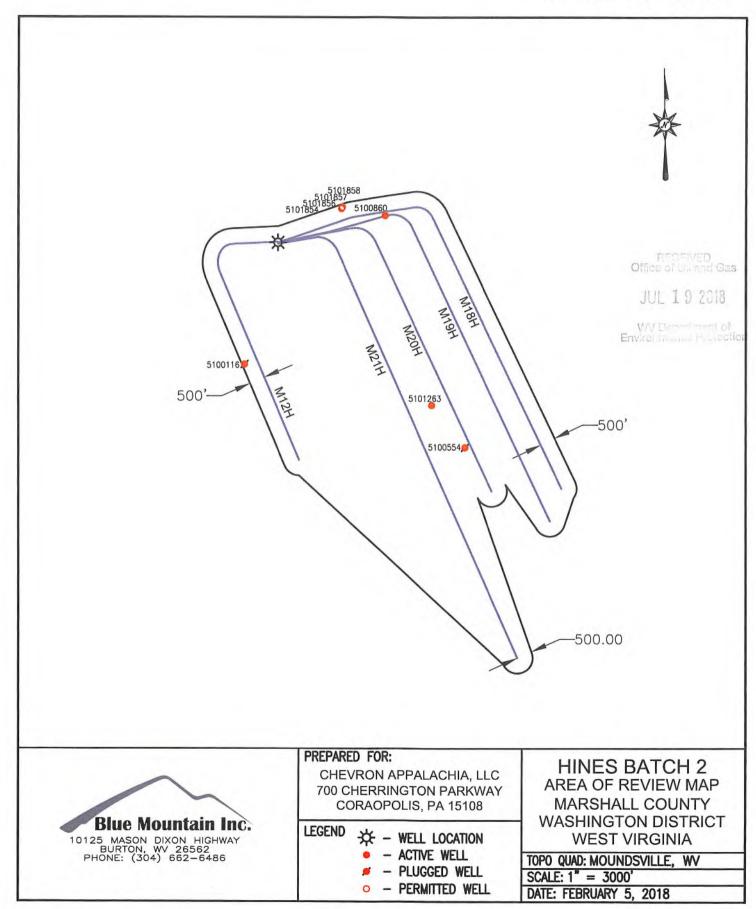
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JUL 1 9 2018

March Contractor of Environmenter Proceedion

Outwon			Hines	M12H		
Washington Twp, Marshall Co, WV					Ground Level Elev. (ft above SL):	1,120
DRILLING FLUID / CENTRALIZER BIT TYPE / TFA PROGRAM	CASING SIZE / FORMATION	DEPTH MD TVD (FT) (FT)		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger 2 Bowspring per Jt	20" Conductor	60 60	INC AZM	26	<u>Conductor</u> 20" API SL Minimum 40 ft from GL or at lee	Grout to Surface
Bow Spring: (1) on shoe track w/ stop collar & (1) per it over coupling to surface			tites in the second second second second second second second		Surface Casing 13-3/9" 54.58 J-55 BTC 0.380" Wall Coupling DD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (It Strength 1,000 lbs) 853	<u>Surface Blend (Class A)</u> Cement to Surface
	13-3/8" Casing	410 410		17.5	Minimum 50 ft past deepest	known fresh watar
Bow Spring: (1) on shoe track w stop collar & (1) per 3 its over coupling	9-5/8" Casing	1,858 1,85		12.375 - 12.25	Intermediate Casing 9-5//8" 40# L-80 BTC 0.335" 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 ol csg to KOP					Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry. Cement to 500' below 9-5/6* shoe
				ال	GEOMATO George Colorado V Decomposition	<u>Production Tail Slurry</u> TOC minimum 200' above Marcellus
Float Equip.	5-1/2" Casing	14,436		8,75 - 8.6		





4705102084

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

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WV Department of Environmental Protection

4705102018/065/2018

Operator's Well No. Hines M12H

API	Num	ber	47	1

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 complet Will a pit be used? Yes No	te the proposed well work? 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:	OIT NED GES
Land Application Underground Injection (UIC Permit N	JUL 1 9 2018
Reuse (at API Number at next anticipated	
Off Site Disposal (Supply form WW- Other (Explain	9 for disposal location) Environment Periodellari

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	ytayes		
Company Official (Typed Name) Jenny Hayes	0.0		
Company Official Title Permitting Team Lead			
Commonwealth of Vennsylvenia County Subscribed and sworn before me this 14th	day of March	20 18	
Laura Savage	,	Notary Publi	Commonwealth of Pennsylvania - Notary Sea
My commission expires 5	eptember 17, 2018		Laura Savage, Notary Public Allegheny County My commission expires September 17, 2018 Commission number 1285773

Member, Pennsylvania Association of Notaries

WW-9 (4/16)

Chevron Appalachia, LLC

Lime 3	Tons/acre or to correct t	to pH	
Fertilizer type 10-2	0-20		
Fertilizer amount 30	00	lbs/acre	
Mulch 3, 5 for win	nter stabilization T	°ons/acre	
		Seed Mixtures	
Ter	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
See Attached		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: Jun Milolas	
······································	
Comments:	
	RECEIVED Gas
	Units of the con
	JUL 1 9 2018
	WAY Decoding of off
	Environmental Protection
Title: <u>Oslet Gas Inspector</u> Dat Field Reviewed? (<u>S)</u> Yes (<u>)</u> No	2/37/18
Title: 0, 100, 10, 10, pactor Dat	e
Field Reviewed? () Yes () No	/

SEED MIXTURES							
Tem	oorary		Perman	ent		Permanent	
Seed Type		lbs/acre	Seed Type	lbs/acre		Seed Type	lbs/acre
Annual Ryegrass	or	50	Non Agricultural Upland		and	Hayfield, Pastureland, and Cropland	
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			

Office of the and Gas JUL 10 2018 MY Constants of Juestion



Chevron

Appalachian LLC WV Well Site Safety Plan Pad: Hines Pad A

Well # M12H

Ju-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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JUL 1 9 2018

W/ Description of Environmental Protoction 1

	IL is located on topo IL is located on topo		_feet south of Lo	ntitude: <u>39 ° 55 ' 00 "</u> ntitude: <u>39 ° 55 ' 00 "</u>	7
	SEE PAGE 2 FOR SI				
 There are no water wells or developed springs within 250' of proposed well. Proposed well is greater than 100' from perennial stream, wetland, pond, 	BEAMS LA			UTM 17-NAD83(M) I	E
reservoir or lake. 3. There are no native trout streams within 300' of proposed well.	XXX		*	N.TT17700.010	ū.
 Proposed well is greater than 1000' from surface groundwater intake or public water supply. 		The and the last	1 -	NAD83, WV NORTH N:514465.864	0
 It is not the purpose or intention of this plat to represent surveyed locations of th surface or mineral parcels depicted hereon. The location of the boundary lines 		TOMS RUN-		N:514465.864 E:1632085.721	located
as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.			TOMS RUN RD	LODDOV LANDING DONT	611
There are no existing buildings within 625 of proposed well.			1	11TM 17-NAD83(M)	ono
		time a	1	N:4417080705/201	odob
WELL PAD	SHLY		LEACH R	11 547470 044	
WELL PAD ORIENTATION DETAIL		vtn.	·	E:1630225.394	map
MOTHO MIANO UISHC UZENC		Misteur -	51-01858 51-01856	BOTTOM HOLE LOCATION (BHL)	0
KO2HC MILINO LITERIC LIZZRO LIZERO	- 1 1 1 1 B 3 L	STAKE	3-8-1832 •51-00	860 UTM HOLE LOCATION (BHL) (0 UTM 17-NAD83(M) N:4415261.15 (6)	8,336
MASHO MIZHO UTVHO, UZHICI UZHICI MOREO MITEO MIEBO UZERO HALEO	-TOMS RUN RD	B5 24	00' CAMBELL	2:525960.04	
MORICI MITIRO MIRRO UZARO UZARO		WELL OF	2)/	NAD83, WV NORIH N:507431.723 E:1632794.593	feet
KURHO MEDHO MEDHO IZAHO IZAHO	THE -	INES M12H	A Real		
MOVINO MOBILIZ MIZHICO UZHICI UZHICI	J. K.	X		WELL	west
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OTHERWISE NOTED.	- A' VO		Y		
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		191	RIDGE RD-	0	0
- PROPOSED HORIZONTAL WELL	- ATAN	A COL	i		
- ROAD MIDDLE	ORAVE CREEK RD		1 feet		
	51-01850	500'	- Y I		
() - SURFACE OWNERS	51-01851 •51-01880 51-01852 •51-01879		1		
GAS WELLS - EXISTING WELLS	51-01040		151		
🖉 - PLUGGED WELLS	MIDDLE GRAVE CREEK	BIL			
	X.	14		LINE BEARING DISTANCE	-
	MIDDLE GRAVE CRAEK	1 8	MIDDLE CRAVE CREEK RO		
Blue Mountain Inc.		Y KI		R3 S 75'55'28" W 191.19' R4 N 18'40'30" E 626.36'	
11023 MASON DIXON HIGHWAY	L.	L. LK		R5 N 79'50'58" E 2241.88'	
BURTON, WV 26562 PHONE: (304) 662-6486	MIDDI	E GRAVE CREEK	BARTLET'S RUN		
		The answer distriction			
	I, THE UNDER	RSIGNED, HEREBY	CERTIFY THAT THIS	SUMPEORGE & Stating	
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HINES M12H PAGE 2 OF 2

A	LESSOR	DIST-TM/PA
	DONALD HINES ET UX	14-12/30
3	WILLIAM F. RULONG	14-12/25
	CHARLES BURTON RULONG	
	HAROLD DEAN FURBEE	
	DALE FRANCIS FURBEE	
	ROBERT L. RULONG	
	DRU ELLA FOX	
	JOHN T. MORRIS	
	LYNN ELLEN COOK	
	ETHEL M. RULONG	
	TERRY LEE RULONG	
	RICHARD J. RULONG	
	TRACEY LYNN RULONG	
	GARY MORRISON	2
	ELIZABETH Y. MORRISON	
	ROGER GLEN RULONG	
	LIMESTONE PRESBYTERIAN CHURCH TRUSTEES	1
	CLYDE DOWLER ET UX	1
	LAURA J. REYES	
2	OSCAR JACKSON GOODNIGHT ET UX	14-12/67
D	ARNIE N. GOODNIGHT ET UX	14-12/66
E	PAUL DAVID YOHO	14-12/65
	SHIRLEY MCWHORTER	
	IRENE GLOVER	
	CARL WAYNE YOHO	1
	CAROLYN GAUGHAN	
	JILL YOHO-WHITE	
F	*DELBERT MARSHALL VAN SCYOC ET UX	14-12/46
G	SHANNETTE OMEAR	14-12/45
H	SANDRA K. FULLER	
J	DOUGLAS L. PARSONS	14-12/33
		14-12/34
	DONALD M. BOSTON ET UX	
	DAVID D. PARSONS ET UX JAMES CRAIG PARSONS	
		-
	ROBERT B. FULLER TEST TRUSTEE	
	GRACE I. SCARBOROUGH	
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	KEVIN W. ROGERS JR., ET UX	14-12/37
	KEVIN W. ROGERS JR., ET UX CAROL SUE ONEIL CROFT	14-12/37 14-12/35
	KEVIN W. ROGERS JR., ET UX CAROL SUE ONEIL CROFT THOMAS PARSONS	
	KEVIN W. ROGERS JR., ET UX CAROL SUE ONEIL CROFT THOMAS PARSONS TEDDY HOWARD PARSONS	
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10/05/2018

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83(M) N:4417400.513 E:525708.256 NAD83. WV NORTH N:514465.864 E:1632085.721



BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4415261.15 E:525960.04 NADB3, WV NORTH N:507431.723 E:1632794.593

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2	TERRY L. DERROW ET UX	14-12/30.3
3	ARNIE N. GOODNIGHT ET UX	14-12/25
4	OSCAR JACKSON & ARLENE J. GOODNIGHT	14-12/67
5	ARNIE N. GOODNIGHT ET UX	14-12/66
6	DELBERT M. & SYLVIA I. VAN SCYOC - LIFE	14-12/65
7	*DELBERT M. & SYLVIA I. VAN SCYOC - LIFE	14-12/46
8	HENRY T. PARSONS EST ET AL	14-12/45
9	HENRY T. PARSONS EST ET AL	14-12/33
10	HENRY T. PARSONS EST ET AL	14-12/34
11	KEVIN W. JR. & REBECCA ROGERS	14-12/37
12	CAROL SUE CROFT-ONEIL ET VIR	14-12/35
13	RICHARD C. & CARLA V. YOHO	14-13/42
14	RICHARD L. & DARLENE K. MARTIN	14-13/41.2
15	RICHARD L. & DARLENE K. MARTIN	14-13/41.1
16	JENNIFER KELCH	14-13/26
17	EVELYN RUTH JOHNSON	14-13/22

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE



SEPTEMBER 24, 2018

470510200805/2018

WW-6A1 (5/13) Operator's Well No. Hines M12H

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 orGrantor, Lessor, etc.Grantee, Lessee, etc.RoyaltyBook/Page

See Attached

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JUL 1 9 2018

We Dem climited of Environmental Protoction

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:	genny Haups	
Its:	Permitting Team Lead	

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WV Department of Environmental Protection

Plad ID	Tax Parcel	Lessor	V Unit #12H - MARC - M Lessee I	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
<u> </u>	14-12-30	RULONG WILLIAM F - SFX	Chevron U.S.A. Inc	14.00%	820/241	n/a	n/a	n/a
		RULONG CHARLES BURTON - SFX	Chevron U.S.A. Inc	14.00%	820/269	n/a	n/a	n/a
		FURBEE HAROLD DEAN - SFX	Chevron U.S.A. Inc	14.00%	820/325	n/a	n/a	n/a
		FURBEE DALE FRANCIS - SFX	Chevron U.S.A. Inc	14.00%	820/219	n/a	n/a	n/a
		RULONG ROBERT L - SFX	Chevron U.S.A. Inc	14.00%	820/212	n/a	n/a	n/a
		FOX DRU ELLA - SFX	Chevron U.S.A. Inc	14.00%	820/313	n/a	n/a	n/a
		MORRIS JOHN T - SFX	Chevron U.S.A. Inc	14.00%	820/344	n/a	n/a	n/a
		COOK LYNN ELLEN - SFX	Chevron U.S.A. Inc	14.00%	828/430	n/a	n/a	n/a
		RULONG ETHEL M SFX	Chevron U.S.A. Inc	14.00%	831/396	n/a	n/a	n/a
В	14-12-25	RULONG TERRY LEE - SFX	Chevron U.S.A. Inc	14.00%	831/389	n/a	n/a	n/a
		RULONG RICHARD J - SFX	Chevron U.S.A. Inc	14.00%	831/518	n/a	n/a	n/a
		RULONG TRACEY LYNN - SFX	Chevron U.S.A. Inc	14.00%	838/389	n/a	n/a	n/a
		MORRISON GARY - SFX	Chevron U.S.A. Inc	16.00%	847/71	n/a	n/a	n/a
		MORRISON ELIZABETH Y - SFX	Chevron U.S.A. Inc	16.00%	847/68	n/a	n/a	n/a
		RULONG ROGER GLEN - SFX	Chevron U.S.A. Inc	18.00%	848/308	n/a	n/a	n/a
	F	TRUSTES LIMESTONE PRESBYTERIAN CHURCH - SFX	Chevron U.S.A. Inc	18.00%	854/86	n/a	n/a	n/a
		DOWLER CLYDE ET UX - SFX	Chevron U.S.A. Inc	18.00%	868/72	n/a	n/a	n/a
		REYES LAURA J - SFX	Chevron U.S.A. Inc	16.00%	882/392	n/a	п/а	n/a
с	14-12-67	GOODNIGHT OSCAR JACKSON ET UX	Chevron U.S.A. Inc	18.00%	837/322	n/a	n/a	n/a
D	14-12-65	GOODNIGHT ARNIE N ET UX	Chevron U.S.A. Inc	16.00%	831/445	n/a	n/a	n/a
		YOHO PAUL DAVID - SFX	Chevron U.S.A. Inc	16.00%	836/312	n/a	n/a	n/a
		MCWHORTER SHIRLEY - SFX	Chevron U.S.A. Inc	16.00%	836/263	n/a	п/а	n/a
		GLOVER IRENE - SFX	Chevron U.S.A. Inc	16.00%	838/425	n/a	n/a	n/a
E	14-12-65	YOHO CARL WAYNE - SFX	Chevron U.S.A. Inc	16.00%	835/85	n/a	n/a	n/a
		GAUGHAN CAROLYN - SFX	Chevron U.S.A. Inc	16.00%	838/432	n/a	n/a	n/a
		YOHO-WHITE JILL - SFX	Chevron U.S.A. Inc	16,00%	836/305	n/a	n/a	n/a
F	14-12-46	VAN SCYOC DELBERT MARSHALL ET UX	Chesapeake Appalachia, LLC	14.00%	697/45	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. inc.	n/a	n/a
		OMEAR SHANNETTE - SFX	Chevron U.S.A. Inc	18.00%	837/297	n/a	n/a	n/a
		FULLER SANDRA K - SFX	Chevron U.S.A. Inc	18.00%	837/182	n/a	n/a	n/a
		PARSONS DOUGLAS L - SFX	Chevron U.S.A. Inc	18.00%	837/279	n/a	n/a	n/a
G	14-12-45;	BOSTON DONALD M ET UX - SFX	Chevron U.S.A. Inc	18.00%	837/287	n/a	n/a	n/a
н	14-12-33; 14-17-34	PARSONS DAVID D ET UX - SFX	Chevron U.S.A. Inc	18.00%	837/172	n/a	n/a	n/a

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WV Department of Environmental Protection

		Hines SW		VILS - FINAL				
Plad ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
•		PARSONS JAMES CRAIG	Chevron U.S.A. Inc	18.00%	837/177	n/a	n/a	n/a
		FULLER ROBERT B TEST TRSTE	Chevron U.S.A. Inc	18.00%	837/187	n/a	n/a	n/a
		SCARBOROUGH GRACE I - SFX	Chevron U.S.A. Inc	18.00%	864/20	n/a	n/a	n/a
к	14-12-37	ROGERS KEVIN W JR ET UX	TriEnergy Holdings, LLC	15.00%	772/401	28/348 TriEnergy Holdings to Chevron U.S.A. Inc.	n/a	n/a
		ONEIL CROFT CAROL SUE	Chevron U.S.A. Inc	18.00%	837/341	n/a	n/a	n/a
		PARSONS THOMAS - SFX	Chevron U.S.A. Inc	18.00%	860/640	n/a	n/a	n/a
		PARSONS TEDDY HOWARD - SFX	Chevron U.S.A. Inc	18.00%	860/628	n/a	n/a	n/a
		PARSONS KENNETH ROBERT - SFX	Chevron U.S.A. Inc	18.00%	860/622	n/a	n/a	n/a
		FULLER SANDRA K - SFX	Chevron U.S.A. Inc	18.00%	860/610	n/a	n/a	n/a
		OMEAR SHANNETTE - SFX	Chevron U.S.A. Inc	18.00%	860/604	n/a	n/a	n/a
		MCKIMMIE BERNICE MAE - SFX	Chevron U.S.A. Inc	18.00%	860/616	n/a	n/a	n/a
		PARSONS DONALD HERBERT	Chevron U.S.A. Inc	18.00%	860/634	n/a	n/a	n/a
		IAMS DONNA GASSAWAY - SFX	Chevron U.5.A. Inc	18.00%	865/68	n/a	n/a	n/a
		PARSONS PATRICIA A - SFX	Chevron U.S.A. Inc	18.00%	872/415	n/a	n/a	n/a
		PARSONS DOUGLAS L - SFX	Chevron U.S.A. Inc	18.00%	865/312	n/a	n/a	n/a
L	14-12-35	SCARBOROUGH GRACE - SFX	Chevron U.S.A. Inc	18.00%	864/590	n/a	n/a	n/a
		PARSONS FRANKI LEE - SFX	Chevron U.S.A. Inc	18.00%	868/510	n/a	n/a	n/a
		PARSONS DANIEL F - SFX	Chevron U.S.A. Inc	18.00%	868/622	n/a	n/a	n/a
		PARSONS DAVID D ET UX - SFX	Chevron U.S.A. Inc	18.00%	868/616	n/a	n/a	n/a
		BOSTON DARLENE ET VIR - SFX	Chevron U.S.A. Inc	18.00%	867/564	n/a	n/a	n/a
		WALKER DANNY K - SFX	Chevron U.S.A. Inc	18.00%	871/321	n/a	n/a	n/a
		MORGAN MARY MABLE AIF PHYLLIS JEAN CONLEY - SFX	Chevron U.S.A. Inc	18.00%	872/409	n/a	n/a	n/a
		BAKER RICHARD ET UX - SFX	Chevron U.S.A. Inc	18.00%	889/253	n/a	n/a	n/a
		HILLVIEW TERRACE CHURCH OF CHRIST - SFX	Chevron U.S.A. Inc	18.00%	889/256	n/a	n/a	n/a
		Fuller Robert Test Trste	Chevron U.S.A. Inc	18.00%	935/198	n/a	n/a	n/a
		VERBA EVAN ROBERT - SFX	Chevron U.S.A. Inc	18.00%	948/183	n/a	n/a	n/a
м	14-13-42	YOHO RICHARD C. ET UX	TriEnergy Holdings, LLC	18.00%	706/315	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
N	14-13-41 .1	MARTIN RICHARD L ET UX	TriEnergy Holdings, LLC	18.00%	707/411	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

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Hines SW Unit #12H - MARC - MLS - FINAL								
Ptad ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
Ρ	14-13-26	KELCH JENNIFER	Chesapeake Appalachia, LLC	16.00%	698/393	30/392 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
٩	14-12-22	JOHNSON THOMAS AND EVELYN	TriEnergy Holdings, LLC	16.00%	694/274	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

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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,

11

Brandon Means Land Representative

WV Department of Environmental Protoc 10 2018

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

10/05/2018 **470510208** STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 03/19/2018

API No. 47	<u>-</u>
Operator's Well	No. 12H
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:	West Virginia	UTM NAD 83	Easting:	525708.256
County:	Marshall	UTMINAD 85	Northing:	4417400.513
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			

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 by the applicant.

Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY	
□ 1. NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
\Box 2. NOTICE OF ENTRY FOR PLAT SURV	VEY or NO PLAT SURVEY WAS CONDUCTED	
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	□ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION	REOFINED Office of Git and Gas	
5. PUBLIC NOTICE	JUL 1 9 2018	RECEIVED
6. NOTICE OF APPLICATION	WAY Department of Environmental Protection	RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

47051020^{18/05/2018}

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:	Chevron Appalachia, LLC	Address:	700 Cherrington Parkway
By:	Jenny Hayes		Coraopolis, PA 15108
Its:	Permitting Team Lead	Facsimile:	412-865-2403
Telephone:	412-865-1533	Email:	JZYK@chevron.com
L My comr	NOTARY SEAL wealth of Pennsylvania - Notary Seal aura Savage, Notary Public Allegheny County mission expires September 17, 2018 ommission number 1285773 Pennsylvania Association of Notarlea	Subscribed and swo	where this 19th day of June 2018. Marge Notary Public prices 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.

Office of Land Gas

JUL 1 9 2018

WV Demonster Environmental motection

4705102084

API NO. 47-OPERATOR WELL NO. M12H0/05/2018 Well Pad Name: Hines

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice: 3	Date Permit Application Filed: 7	1818
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	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	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 Dist Name:	urbance)
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

RECOVED Office of Calcuid Gas

JUL 1 9 2018

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4705102084

OPERATOR WELL NO. M12H

API NO. 4'

Well Pad Name: Hines

JUL 1 9 2018

Notice is hereby given:

Var Department of Environmental Protection

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/oiland-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, dilling 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

Well Pad Name: <u>Hines</u> 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

JUL 1 9 2018

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.

4705102084

API NO. 47- - 1

OPERATOR WELL NO. M12H Well Pad Name: Hines

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 <u>http://www.dep.wv.gov/oil-and-gas/Horizontal-</u> <u>Permits/Pages/default.aspx</u> 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.

REOFIVED Office of Cil and Gas

JUL 1 9 2018

Vin Development of Environment Protostion

2084 API 0/05/2018 OPERATOR WELL NO. M12H Well Pad Name: Hines

Notice is hereby given by:

Well Operat	tor: Chevron Appalachia, LLC	
Telephone:	412-865-1533	
Email: jzyk@	Ochevron.com	

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

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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.

mn

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

ember, Penn	nsylvania Associa	tion of	Notaries
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Commonwealth of P County of Allegheny Subscribed and sworn before	ennsylvania methis <u>13th</u> day o	of March	2018
LauraSava	gl		Notary Public
My Commission Expires	September	1,201	8

Office of Chand Gas

JUL 1 9 2018

WW Error Manh of Environmental Fretection

Attachment to WW-6A

API No. 47- ____ - ____

OPERATOR WELL NO. ____M12H

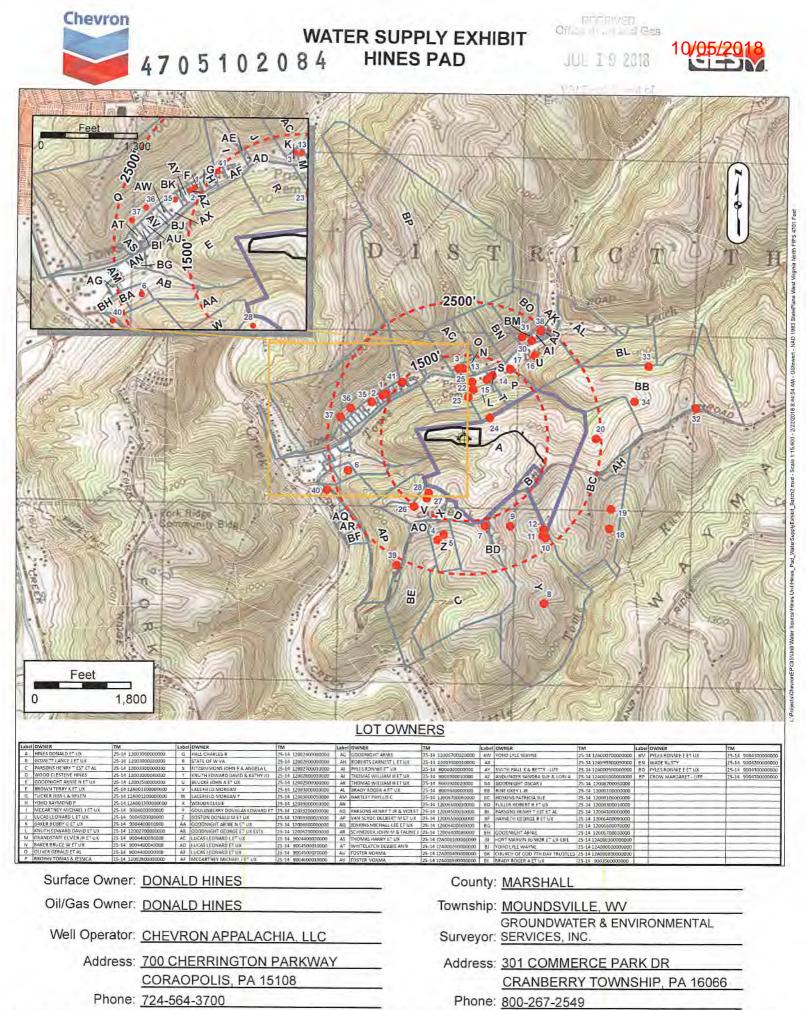
Well Pad Name: Hines

\boxtimes	COAL OWNER OR LESSEE			
	Name:	Consol Mining Company LLC		
	Address:	1000 Consol Energy Drive		
		Canonsburg, PA 15317		
\boxtimes	COAL OPERATOR			
	Name:	Murray Energy Corporation 🗸		
	Address:	46229 National Road		
		St. Clairsville, OH 43950		
\boxtimes	SURFACE ON	WNER OF WATER WELL AND/OR WATER PURVEYOR		
	Name:	Bobby G. Baker		
	Address:	742 Toms Run Road		
		Moundsville, WV 26041		
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR			
	Name:	Mark Grandstaff		
	Address:	762 Toms Run Road		
		Moundsville, WV 26041		
\boxtimes	SURFACE ON	WNER OF WATER WELL AND/OR WATER PURVEYOR 🗸		
	Name:	Edward D. Knuth 🗸		
	Address:	747 Toms Run Lane		
		Moundsville, WV 26041		
\boxtimes	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR			
	Name:	Morgan Lacefield		
	Address:	1851 Campbell Hill Road		
		Moundsville, WV 26041		
\boxtimes	SURFACE OV	NNER OF WATER WELL AND/OR WATER PURVEYOR		
	Name:	Tobias G & Jessica D Brown 💋		
	Address:	873 Toms Run Lane		
		Moundsville, WV 26041		

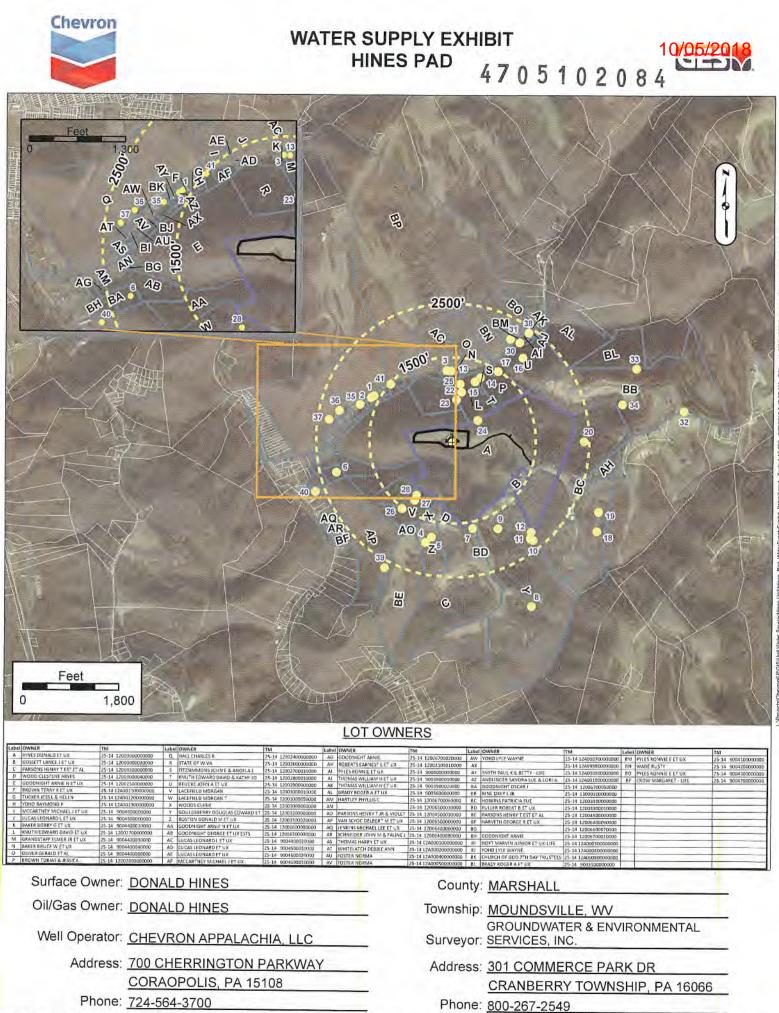
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JUL 1 9 2018

WW Department of Environmental Protection



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.



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.

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Chevron

WATER SUPPLY EXHIBIT HINES PAD



4705102084

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	1
15	39°54'33.36061429"N 80°41'51.79017922"W	1,160	1,166	1,179	1,193	1,207	

office of County Gas

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WATER SUPPLY EXHIBIT HINES PAD



4705102084

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°54'12.225 <mark>00964"N 80°42'05.28298181"W</mark>	1,231	1,231	1,219	1,207	1,194	
29	39°54'35.113 <mark>8</mark> 1592"N 80°41'21.68697011"W	3,044	3,024	3,030	3 <mark>,</mark> 036	3,042	
30	39°54'40.690 <mark>21615"N 80°41'41.17737650"W</mark>	2,210	2,208	2,220	2,232	2,244	



WATER SUPPLY EXHIBIT HINES PAD 4705102084 107057201



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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WW-6A4 (1/12)

Operator Well No. M12H

47051010/05/2018

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

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 Requ Date of Notice:	irement: Notice shall be provided at least TEN (3 12 18 Date Permit Application	10) days prior to filing a permit application. tion Filed: $7/8/8$	Office of Ges
Delivery method	oursuant to West Virginia Code § 22-6A-16(b)		JUL 1 8 2518
HAND DELIVERY	CERTIFIED MAIL RETURN RECEIPT REQUESTED		Environmente lor

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 🖌	Name:
Address: 201 4th Street	Address:
Glen Dale, WV 26038	

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:	525708.256	
County:	Marshall	UTMINAD 83	Northing:	4417400.513	
District:	Washington	Public Road Access: Generally used farm name:		Route 38/Campbell Hill Road	
Quadrangle:	Moundsville, WV 7.5'			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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Authorized Representative:
Address:	700 Cherrington Parkway	Address:
Coraopolis, PA 15108		
Telephone:	412-865-2504	Telephone:
Email:		Email:
Facsimile:	412-865-2403	Facsimile:

Oil and Gas Privacy Notice:

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

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

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	Name:	
Address: 301 4th Street	Address:	
Glen Dale, WV 26038		

Notice is hereby given:

WW-6A5

(1/12)

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	LITNA NIAD 92	Easting:	525708.256	
County:	Marshall	UTM NAD 83	Northing:	4417400.513	
District:	Washington	Public Road Acc	cess:	Route 38/Campbell Hill Road	
Quadrangle:	Moundsville, WV 7.5'	Generally used f	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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	Chevron Appalachia, LLC	Address:	700 Cherrington Parkway
Telephone:	412-865-2504		Coraopolis, PA 15108
Email:		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 <u>depprivacyofficer@wv.gov</u>.

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Operator Well No. M12H

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API NO. 47-OPERATOR WELL NO. M12H Well Pad Name: Hines 10/05/2018

STATE OF WEST VIRGINIA 4705102084 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

1,	, hereby state that	I have read the Instructions	s to Persons N	lamed on Page	WW-6A and the associated
provision	is listed above, and that I have received	copies of a Notice of Appl	ication, an Ap	plication for a V	Well Work Permit on Form
WW-6A	and attachments consisting of pages or	ne (1) through			l sediment control plan, if
	and the well plat, all for proposed well w				a second contract they be
State:	West Virginia		Easting:	525708.256	

State.	west virginia	UTM NAD 83	525708.256	
County:	Marshall	Northing	: 4417400.513	
District:	Washington	Public Road Access:	Route 38/Campbell Hill Road	
Quadrangle:	Moundsville, WV 7,5'	Generally used farm name:	Hines	
Watershed:	Middle Grave Creek - Grave Creek			

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

*Please check the box that applies	FOR EXECUTI	ON BY A NATURAL PERSON
SURFACE OWNER	Signature:	Donald Has
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:	Sonald Hu
□ SURFACE OWNER (Impoundments/Pits)	-5-	ON BY A CORPORATION, ETC.
□ COAL OWNER OR LESSEE	Company:	UN BY A CORPORATION, ETC.
COAL OPERATOR	By: Its:	PE-1120
□ WATER PURVEYOR	Signature:	07 1. 1038
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:	JUL 1 0 2018
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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 <u>depprivacyofficer@wv.gov</u>.

STATE OF WEST VIRGINIA 4705102084 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 Per	rsons Named on Pag	e WW-6A and	d the associa	ted
pr	ovisions listed above, and the	at I have received copies of a	Notice of Application,	, an Application for	a Well Work	Permit on Fo	m
W	W-6A and attachments cons	sisting of pages one (1) throu	ugh, inc	luding the erosion a	and sediment	control plan	, if
re	quired, and the well plat, all f	or proposed well work on the	tract of land as follows:	•			

State:	West Virginia		Easting:	525708.256	RECEIVED
County:	Marshall	UTM NAD 83	Northing:	4417400.513	Office of Cit and Gas
District:	Washington	Public Road Ac	cess:	Campbell Hill Road	JUL 1 9 2018
Quadrangle:	Moundsville 7.5'	Generally used	farm name:	Hines	301 10 20:0
Watershed:	Upper Ohio-Beaver				WV Department of

Environment of

1 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.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
□ SURFACE OWNER	Signature:
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:
□ SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.
COAL OWNER OR LESSEE	Company: Consolidation Coal Company
COAL OPERATOR	By: Mason Smith Its: Coal, Oll and Gas Relations Manager
U WATER PURVEYOR	Signature: Merson Swig
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: 07/18/2018

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 <u>depprivacyofficer@wv.gov</u>.

470510210/05/2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

February 28, 2018

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Hines Pad A Well Site, Marshall County Hines A Unit M12H

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,

Dany K. Clayton

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

Cc: Mandy Fordyce Chevron Appalachia, LLC CH, OM, D-6 File



E.E.O./AFFIRMATIVE ACTION EMPLOYER

10/05/2018

4705102084

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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WW Department of Environmental Platestion

