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 west virginia department of environmental protection
 

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, February 22, 2019  
 WELL WORK PERMIT  
 Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC  
 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HINES M03H  
 47-051-02157-00-00

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

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

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

James A. Martin  
 Chief

Operator's Well Number: HINES M03H  
 Farm Name: DONALD HINES ET UX  
 U.S. WELL NUMBER: 47-051-02157-00-00  
 Horizontal 6A New Drill  
 Date Issued: 2/22/2019

# PERMIT CONDITIONS

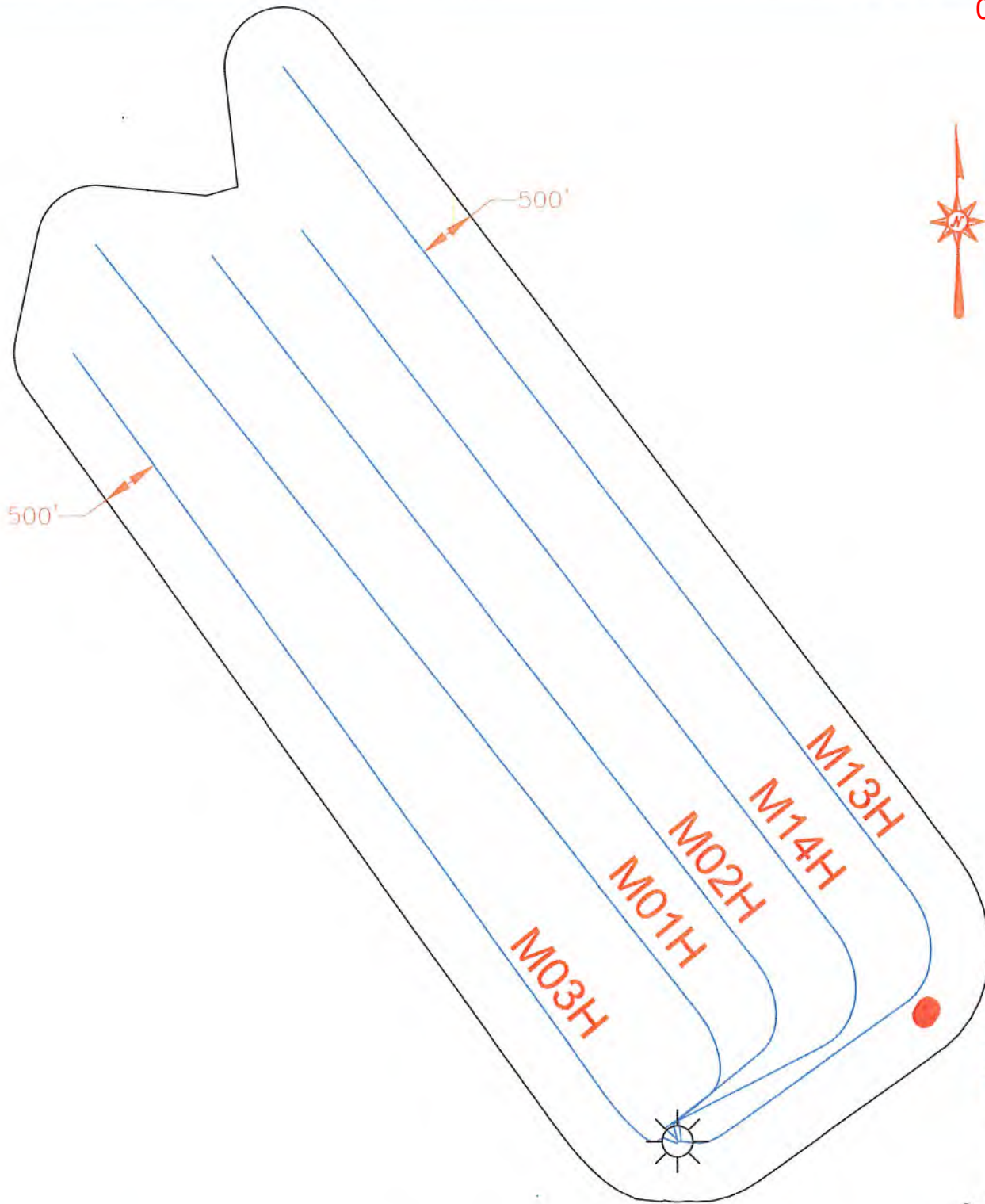
West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

## CONDITIONS

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

## PERMIT CONDITIONS

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



51-01858  
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**Blue Mountain Inc.**  
 10125 MASON DIXON HIGHWAY  
 BURTON, WV 26562  
 PHONE: (304) 662-6486

PREPARED FOR:  
 CHEVRON APPALACHIA, LLC  
 700 CHERRINGTON PARKWAY  
 CORAOPOLIS, PA 15108

LEGEND

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

**HINES BATCH 3  
 AREA OF REVIEW MAP  
 MARSHALL COUNTY  
 WASHINGTON DISTRICT  
 WEST VIRGINIA**

TOPO QUAD: MOUNDSVILLE, WV  
 SCALE: 1" = 900'  
 DATE: OCTOBER 9, 2018

02/22/2019

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
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

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

1) Well Operator: Chevron Appalachia, LLC 49449935 Marshall Washington Moundsville, WV  
Operator ID County District Quadrangle

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

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

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

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

(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 6,262 ft below GL, Anticipate Thickness: 52 ft, Pore Pressure Gradient: 0.64 PSI/ft

*Handwritten signature and date: 12/10/18*

8) Proposed Total Vertical Depth: 6,262

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,282

11) Proposed Horizontal Leg Length: 7,630

12) Approximate Fresh Water Strata Depths: 365 ft below GL

13) Method to Determine Fresh Water Depths: no water wells within 1.5 miles so we used the base of the Dunkard Group which is considered the deepest potable water in Marshall County

14) Approximate Saltwater Depths: 646 ft, 1,595 ft, 1,663 ft below GL

15) Approximate Coal Seam Depths: Pittsburgh coal top 640 ft below GL

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

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

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

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18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft./CTS)
Conductor	20	New			60	60	CTS
Fresh Water	13.375	New	J-55	54.5	415	415	CTS
Coal							
Intermediate	9.625	New	L-80	40	1,858	1,858	CTS
Production	5.50	New	P110	20	14,282	14,282	2358 (500' below 9.625" shoe)
Tubing							
Liners							

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12/10/18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	30					
Fresh Water	13,375	17.5	0.38	2730	1911	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5750	2768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14360	9975	Class A, G, or H	1.25
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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*JW*  
*12/10/18*

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

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,262 feet. Drill horizontal leg.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 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% CaCl<sub>2</sub>, and flake. The intermediate will contain class A cement, 3% CaCl<sub>2</sub>, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

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

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\*Note: Attach additional sheets as needed.



Cement Additives

The Water String the blend will contain class A cement, 3% CaCl<sub>2</sub>, and flake.

The intermediate will contain class A cement, 10% CaCl<sub>2</sub>, Salt, and flake.

The Production cement will have a lead and tail cement.

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

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

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# Hines M03H

Clay Twp, Marshall Co, WV

Ground Level Elev. (ft above SL): 1,125  
 Depth Meas. // air KB (ft above GL): 17 Highlands 14

DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	Hole Depth (FT)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	FMC UH-S 13-5/8"	INC AZM				
Core Barrel / Auger	2 Bowspring per Jt	20" Conductor	60	60			26	60	<u>Conductor</u> 20" 78.67# X-52 Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	Est. Frac Gradient 14.5 ppg Gas Gradient 0.1 psi/ft Est. Pore Pres. Grad. 0.338 psi/ft Est. BHT deg. F 13-3/8" Casing	415	75 415			17.5	415	<u>Surface Casing</u> 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853 MASP (Psi) 271	<u>Surface Blend (Class A)</u> Cement to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	Est. BHT deg. F 9-5/8" Casing	1,858	90 1,858			12.375 12.25	1,858	<u>Intermediate Casing</u> 9-5/8" 40#L-801C BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,870 Yield (Jt Strength 1,000 lbs) 916	<u>Intermediate II Blend (Class A)</u> Cement to Surface
	Bow Spring: (1) per every other jt over coupling  SpiraGlider or Centek: (1) per jt of cag to KOP								<u>Production Casing</u> 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	<u>Production Lead Slurry</u> Cement to 500' below 9-5/8" shoe
Non-Conservation	Float Equip. (2) Jts of Cag	5-1/2" Casing	14,282				8.75 8.5			<u>Production Tail Slurry</u> TOC minimum 200' above Marcellus

*Handwritten signature and date: JW 12/10/18*

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WW-9  
(4/16)

4705102157  
02/22/2019

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. M03H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Middle Grave Creek/Grave Creek Quadrangle Moundsville, WV 7.5'

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

-Landfill or offsite name/permit number? Arden Landfill #100172, South Hills Landfill #100295, 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 \_\_\_\_\_

Company Official (Typed Name) Jenny Butchko

Company Official Title Permitting Team Lead

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Subscribed and sworn before me this 8th day of November, 2018 Commonwealth of Pennsylvania  
County of Allegheny

Laura Savage

Notary Public

My commission expires September 17, 2022

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

Chevron Appalachia, LLC

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

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

Fertilizer type 10-20-20

Fertilizer amount 300 lbs/acre

Mulch 3, 5 for winter stabilization Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

See Attached

See Attached

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Juan Velasco*

Comments:

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Title: Oil & Gas Inspector

Date: 12/10/18

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Field Reviewed?  Yes  No

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

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**Chevron**

**Appalachian LLC  
WV Well Site Safety Plan**

*ju*  
*12/11/18*

**Pad: Hines Pad A**

**Well # M03H**

**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**

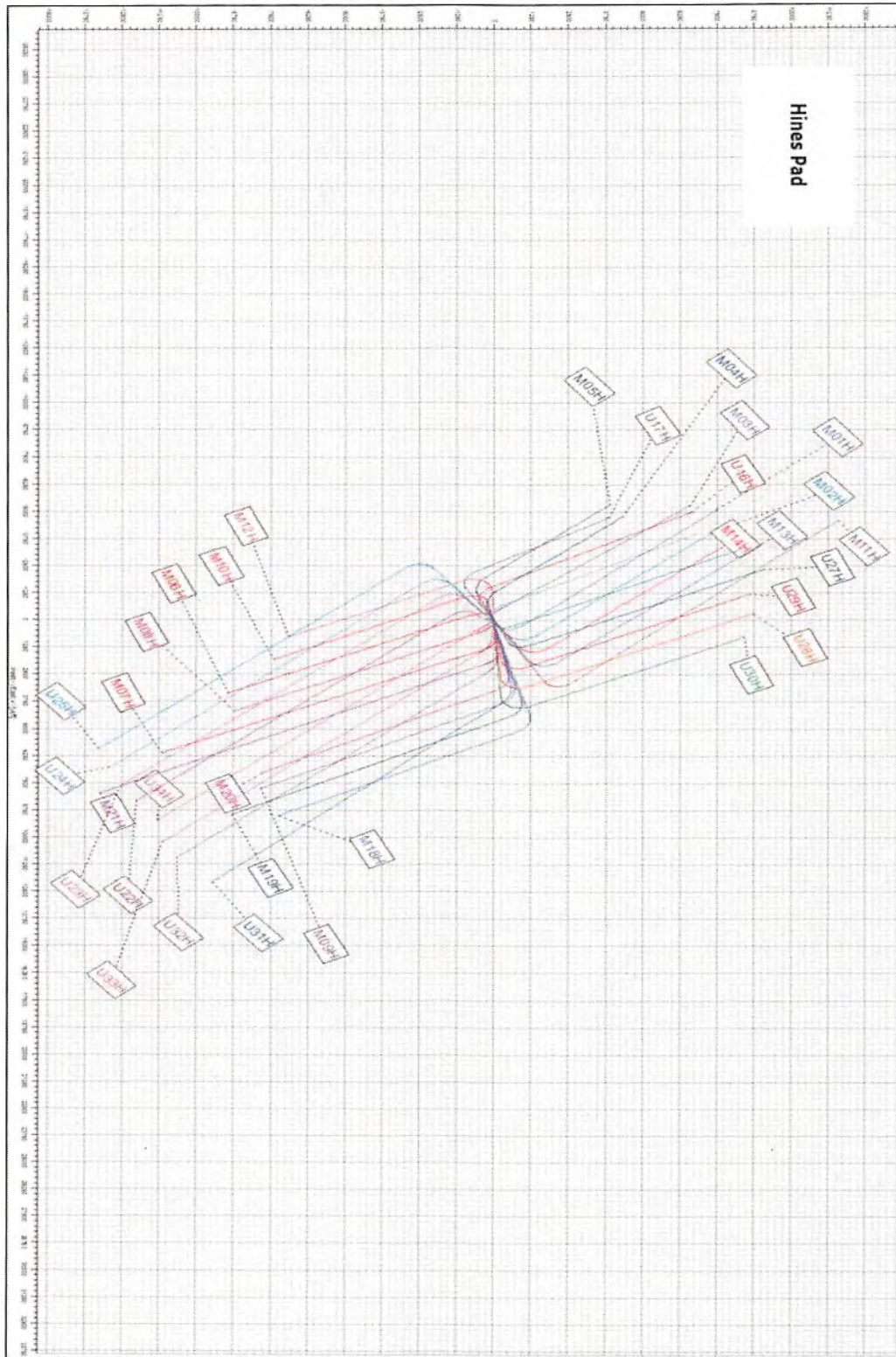
Revision 9/18/2018 - Contacts, Plan View Map

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### 8. Spider Plot

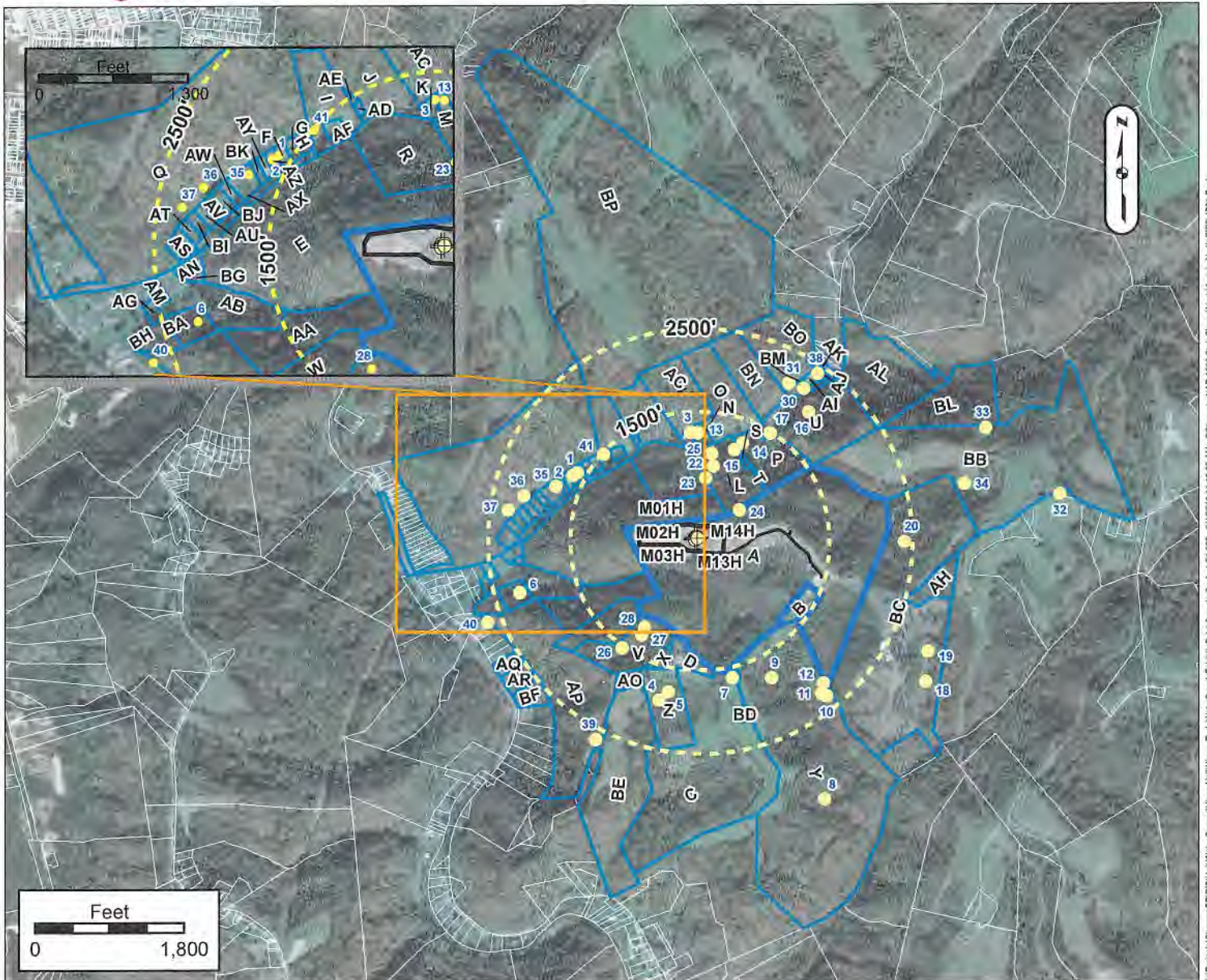


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# WATER SUPPLY EXHIBIT HINES PAD BATCH #3

02/22/2019  
**GES**



### LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
A	HINES DONALD ET UX	25-14 12003000000000	Q	HALL CHARLES R	25-14 12002400000000	AG	GOODNIGHT ARNIE	25-14 12005700020000	AW	YOHIO LYLE WAYNE	25-14 12400070000000
B	GOSSETT LANCE J ET UX	25-14 12003000020000	R	STATE OF W VA	25-14 12002760000000	AH	ROBERTS EARNEST L ET UX	25-14 12003100010000	AX	SMITH PAUL K & BETTY LEE	25-14 12499990000000
C	PARSONS HENRY T EST ET AL	25-14 12008300000000	S	FITZSIMMONS JOHN E & ANGELA L	25-14 120027000010000	AI	PYLES RONNIE ET UX	25-14 90040000000000	AY	ANDRINGER SANDRA SUE & LORRI A	25-14 12400090000000
D	WOOD CLESTENE HINES	25-14 12003000040000	T	KRUTH EDWARD DAVID & KATHY JO	25-14 120028000010000	AJ	THOMAS WILLIAM H ET UX	25-14 8003900010000	AZ	GOODNIGHT OSCAR J	25-14 12003000000000
E	GOODNIGHT ARNIE R ET UX	25-14 12003000030000	U	BEUCHE JOHN A ET UX	25-14 12003900000000	AK	THOMAS WILLIAM H ET UX	25-14 9003900020000	BA	BINE CHEYEL JR	25-14 11000100000000
F	BROWN TERRY K ET UX	25-14 12400110000000	V	LACFIELD MORGAN	25-14 12003000010000	AL	BRADY ROGER A ET UX	25-14 90039000000000	BB	HODGINS PATRICIA SUE	25-14 12003100000000
G	TUCKER JESS L & HELEN	25-14 12400220000000	W	LACFIELD MORGAN T	25-14 12003000000000	AM	HARTLEY PHYLLIS C	25-14 12006700060000	BC	FULLER ROBERT B ET UX	25-14 12003300010000
H	YOHIO RAYMOND P	25-14 12400130000000	X	WOODS CLESE	25-14 120030000060000	AN	AN	25-14 12006600030000	BD	PARSONS HENRY T EST ET AL	25-14 12004500000000
I	MCCARTNEY MICHAEL I ET UX	25-14 80046000000000	Y	GOULDSBERRY DOUGLAS EDWARD ET	25-14 12003000000000	AO	PARSONS HENRY T JR & VOLEF	25-14 12004500010000	BE	HARVETH GEORGE B ET UX	25-14 12004600000000
J	LUCAS LEONARD L ET UX	25-14 90045000000000	Z	BOSTON DONALD M ET UX	25-14 120039000010000	AP	WEN SCYOC DEBERT M ET UX	25-14 12004500000000	BF	HOYT MARVIN JUNIOR ET UX LIFE	25-14 12004600000000
K	BAKER ROBERT G ET UX	25-14 90044000000000	AA	GOODNIGHT ARNIE R ET UX	25-14 12004500000000	AQ	LIVENS MICHAEL L ET UX	25-14 12004600000000	BG	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 12400080000000
L	KRUTH EDWARD DAVID ET UX	25-14 12003200000000	AB	GOODNIGHT GEORGE ET UX ESTS	25-14 12006700000000	AR	SCHNEIDEL JOHN M & PAULINE J	25-14 12005650000000	BH	BRADY ROGER A ET UX	25-14 90039000000000
M	GRANDSTAFF ELMER JR ET UX	25-14 90044000000000	AC	LUCAS LEONARD L ET UX	25-14 90044000000000	AS	THOMAS HARRY ET UX	25-14 1240001000000000	BI	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 12400080000000
N	BAKER BRUCE W ET UX	25-14 90044000000000	AD	LUCAS LEONARD L ET UX	25-14 90045000010000	AT	WHITELATCH DEBBIE ANN	25-14 1240002000000000	BJ	BRADY ROGER A ET UX	25-14 90039000000000
O	OLIVER GERALD ET AL	25-14 90044000000000	AE	LUCAS LEONARD ET UX	25-14 90045000020000	AU	FOSTER NORMA	25-14 1240004000000000	BK		
P	BROWN TOBIAS & JESSICA	25-14 12002800000000	AF	MCCARTNEY MICHAEL I ET UX	25-14 90045000010000	AV	FOSTER NORMA	25-14 1240005000000000	BL		

Surface Owner: DONALD HINES

County: MARSHALL

Oil/Gas Owner: DONALD HINES

Township: MOUNDSVILLE, WV

Well Operator: CHEVRON APPALACHIA, LLC

GROUNDWATER & ENVIRONMENTAL

Surveyor: SERVICES, INC.

Address: 700 CHERRINGTON PARKWAY

Address: 301 COMMERCE PARK DR

CORAOPOLIS, PA 15108

CRANBERRY TOWNSHIP, PA 16066

Phone: 724-564-3700

Phone: 800-267-2549

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

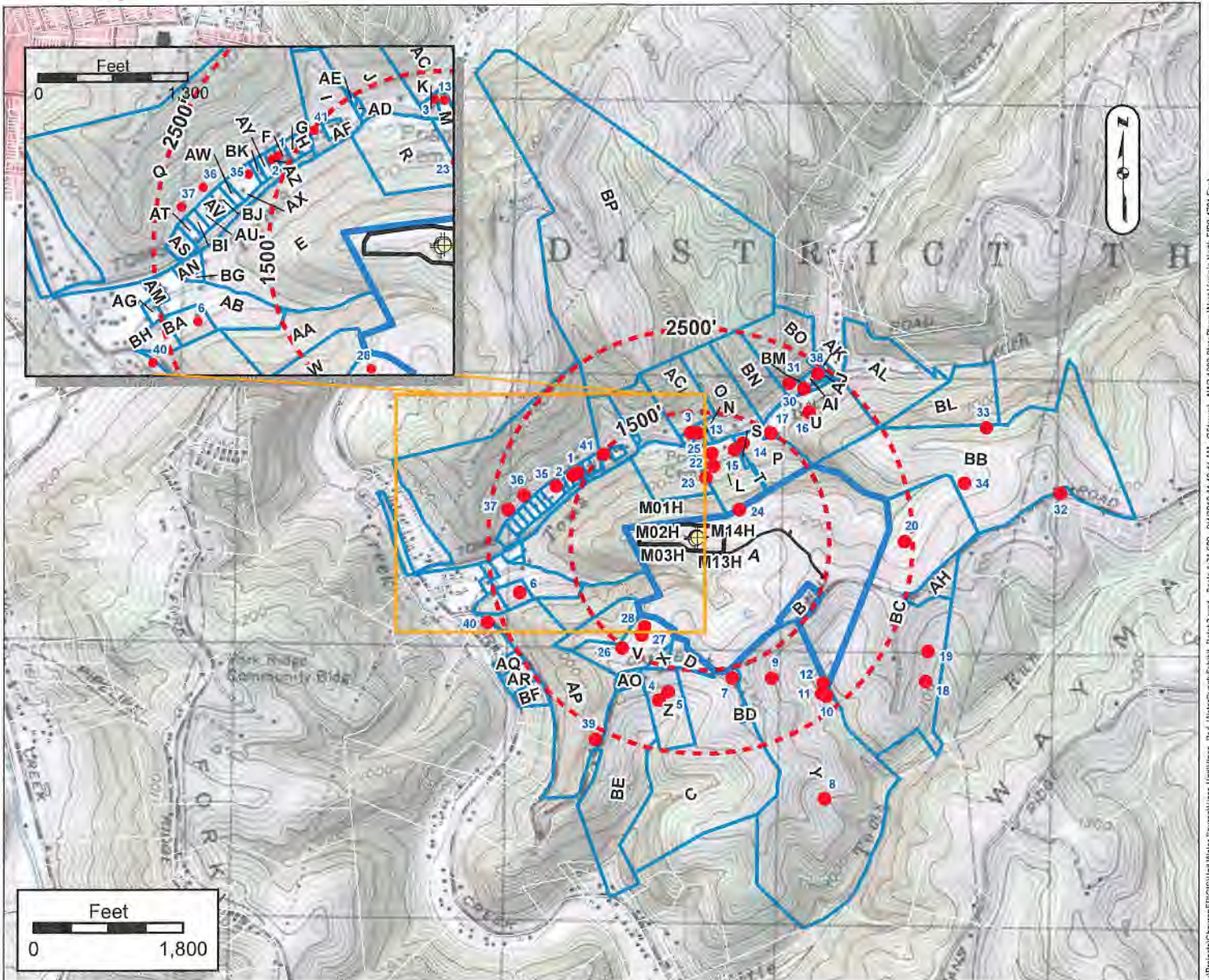
L:\Projects\Chevron\ENG\B\Int\WaterSupply\Exhibit\_Batch3.mxd - Scale: 1:21,600 - 04/20/18 11:12:05 AM - G:\Sweart - MAD 1983 StatePlane West Virginia North FIPS 4701 Feet





# WATER SUPPLY EXHIBIT HINES PAD BATCH #3

02/22/2019



### LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
A	HINES DONALD ET UX	25-14 17008000000000	Q	HALL CHARLES R	25-14 12009400000000	AG	GODDINGHART ARNIE	25-14 12006700020000	AW	YOHIO LYLE WAYNE	25-14 1240007000000000
B	GOSSETT LANCE J ET UX	25-14 12003000020000	R	STATE OF W VA	25-14 12003100010000	AH	ROBERTS EARNEST L ET UX	25-14 12003100010000	AX	SMITH PAUL E & BETTY - LIFE	25-14 1248999000000000
C	PARSONS HENRY T EST ET AL	25-14 12003300000000	S	BITZANIMOUS JOHN F & ANGELA L	25-14 120007000010000	AI	PYLES RONNIE ET UX	25-14 90040000000000	AY	ANDERLINGER SANDRA SUE & LOBIA A	25-14 1240009000000000
D	WOOD CHRISTY HINES	25-14 12003000000000	T	KNUTH EDWARD DAVID & KATHY JO	25-14 12003000000000	AJ	THOMAS WILLIAM H ET UX	25-14 90033000010000	AZ	GODDINGHART ARNIE	25-14 12003000000000
E	GODDINGHART ARNIE M ET UX	25-14 12003000000000	U	BUCKLE JOHN A ET UX	25-14 12003000000000	AK	THOMAS WILLIAM H ET UX	25-14 90033000010000	BA	GODDINGHART ARNIE	25-14 12003000000000
F	BROWN TERRY K ET UX	25-14 12003100000000	V	LACEFIELD MORRISAN	25-14 12003000010000	AL	BRADY ROGER A ET UX	25-14 90035000000000	BB	BRIDE OKEY L R	25-14 1100010000000000
G	TUCKER JESS L & HELEN	25-14 1240012000000000	W	LACEFIELD MORRISAN T	25-14 12003000000000	AM	HARTLEY PHYLLIS C	25-14 12006700060000	BC	HOSKINS PATRICIA SUE	25-14 1200310000000000
H	YOHIO RAYMOND P	25-14 1240013000000000	X	WOODS CLESE	25-14 12003000000000	AN	HARTLEY PHYLLIS C	25-14 12006700060000	BD	FULLER ROBERT B ET UX	25-14 12003300010000
I	MCCARTNEY MICHAEL J ET UX	25-14 90045000000000	Y	COULOSMERRY DOUGLAS E EDWARD ET	25-14 12003300000000	AQ	PARSONS HENRY T JR & VIOLET	25-14 12004500010000	BE	PARSONS HENRY T EST ET AL	25-14 12004500000000
J	LUCAS LEONARD T ET UX	25-14 90045000000000	Z	BITZANIMOUS JOHN F ET UX	25-14 12003100020000	AP	WIN SCYOC DELBERT M ET UX	25-14 12006500000000	BF	HARVETH GEORGE R ET UX	25-14 12004600000000
K	BAKER ROBBY G ET UX	25-14 90044000000000	AA	GODDINGHART ARNIE M ET UX	25-14 12006700000000	AD	HERNAN RICHARD LEE ET UX	25-14 12006500000000	BG	GODDINGHART ARNIE	25-14 12006700010000
L	KNUTH EDWARD DAVID ET UX	25-14 12003200000000	AB	GODDINGHART GEORGE ET UX ESTS	25-14 12006700000000	AE	SCHNEIDER JOHN M & FALINE J	25-14 12006500000000	BH	GODDINGHART ARNIE	25-14 12006700010000
M	GRANDSTAFF ELMER JR ET UX	25-14 90044000000000	AC	LUCAS LEONARD T ET UX	25-14 90044000000000	AS	THOMAS HARRY ET UX	25-14 1240001000000000	BI	HOYT MARVIN ALNOR ET UX LIFE	25-14 1240003000000000
N	BAKER BRUCE W ET UX	25-14 90044000000000	AD	LUCAS LEONARD T ET UX	25-14 90045000100000	AT	WHITE LATCH DEBBIE ANN	25-14 1240001000000000	BJ	YOHIO LYLE WAYNE	25-14 1240006000000000
D	DUPVER GEORGE ET AL	25-14 90044000000000	AE	LUCAS LEONARD T ET UX	25-14 90045000200000	AU	FOSTER NORMA	25-14 1240004000000000	BR	CHURCH OF GOD 7TH DAY TRUSTEES	25-14 1240008000000000
P	BREDWIN TOBIAS B & SIOCCA	25-14 12003000000000	AF	MCCARTNEY MICHAEL J ET UX	25-14 90045000300000	AV	FOSTER NORMA	25-14 1240005000000000	BL	BRADY ROGER A ET UX	25-14 90035000000000

Surface Owner: DONALD HINES

County: MARSHALL

Oil/Gas Owner: DONALD HINES

Township: MOUNDSVILLE, WV

Well Operator: CHEVRON APPALACHIA, LLC

GROUNDWATER & ENVIRONMENTAL  
Surveyor: SERVICES, INC.

Address: 700 CHERRINGTON PARKWAY

Address: 301 COMMERCE PARK DR

CORAOPOLIS, PA 15108

CRANBERRY TOWNSHIP, PA 16066

Phone: 724-564-3700

Phone: 800-267-2549

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L:\Projects\Chevron\EP\GIS\Unit Water\_Sources\Hines\_Unit\Hines\_Pad\_WaterSupply\Exhibit\_Batch3.mxd - Scale: 1:31600 - 04/20/18 11:10:44 AM - GSXevent - NAD 1983 StatePlane West Virginia North FIPS 4703 Feet



WATER SUPPLY EXHIBIT  
HINES PAD BATCH #3

02/22/2019  
GSM

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*	HAINES, WILLIAM L. & TINA M.	Well	769	873 TOMS RUN LANE	304-221-2057 (No longer in service)
15*	HAINES, WILLIAM L. & TINA M.	Spring	811	873 TOMS RUN LANE	304-221-2057 (No longer in service)

No.	SUPPLY COORDINATES	M01H	M02H	M03H	M13H	M14H					
1	39°54'30.37261266"N 80°42'15.98578642"W	1,615	1,623	1,630	1,646	1,640					
2	39°54'30.03421257"N 80°42'16.68058661"W	1,648	1,655	1,662	1,679	1,673					
3	39°54'35.31901437"N 80°41'58.57978144"W	1,253	1,268	1,283	1,266	1,251					
4	39°54'03.58860809"N 80°42'02.87098044"W	2,002	1,988	1,973	1,997	2,012					
5	39°54'04.60740834"N 80°42'01.47778009"W	1,881	1,866	1,852	1,875	1,889					
6	39°54'16.12164955"N 80°42'24.69670805"W	2,220	2,216	2,212	2,244	2,249					
7	39°54'06.31740910"N 80°41'51.63897720"W	1,748	1,733	1,718	1,729	1,743					
8	39°53'52.12620700"N 80°41'37.10577171"W	3,506	3,492	3,479	3,483	3,496					
9	39°54'06.36780937"N 80°41'45.51177532"W	1,926	1,913	1,900	1,902	1,915					
10	39°54'04.31220934"N 80°41'37.03017257"W	2,477	2,466	2,454	2,450	2,461					
11	39°54'04.60740937"N 80°41'37.76817282"W	2,418	2,406	2,394	2,390	2,401					
12	39°54'05.83860961"N 80°41'37.55937285"W	2,334	2,323	2,311	2,306	2,317					
13	39°54'35.29381441"N 80°41'57.46018110"W	1,248	1,263	1,278	1,260	1,245					
14	39°54'34.13821449"N 80°41'50.51937888"W	1,259	1,273	1,286	1,257	1,244					
15	39°54'33.36061429"N 80°41'51.79017922"W	1,146	1,160	1,174	1,146	1,132					

\*Water source previously located in 2014 or 2015



WATER SUPPLY EXHIBIT  
HINES PAD BATCH #3

02/22/2019  
GEM

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	M01H	M02H	M03H	M13H	M14H					
16	39°54'37.90021565"N 80°41'40.37457605"W	2,023	2,034	2,045	2,013	2,001					
17	39°54'35.33341491"N 80°41'46.21377765"W	1,536	1,548	1,560	1,529	1,516					
18	39°54'06.13741035"N 80°41'21.74096802"W	3,274	3,266	3,258	3,243	3,251					
19	39°54'09.71221105"N 80°41'21.45656819"W	3,121	3,115	3,108	3,090	3,096					
20	39°54'22.67221338"N 80°41'25.29417031"W	2,520	2,519	2,519	2,491	2,490					
21	39°54'11.47981147"N 80°41'19.68896778"W	3,177	3,171	3,165	3,145	3,150					
22	39°54'31.42021377"N 80°41'54.98698006"W	880	895	910	885	871					
23	39°54'29.99461345"N 80°41'56.16058031"W	721	736	751	728	713					
24	39°54'26.25421296"N 80°41'50.93337844"W	619	627	635	601	592					
25	39°54'32.88541404"N 80°41'55.30018026"W	1,020	1,035	1,050	1,027	1,012					
26	39°54'09.67620900"N 80°42'08.72818268"W	1,599	1,586	1,574	1,605	1,617					
27	39°54'11.27100944"N 80°42'05.73658188"W	1,341	1,328	1,315	1,345	1,358					
28	39°54'12.22500964"N 80°42'05.28298181"W	1,239	1,226	1,213	1,244	1,257					
29	39°54'35.11381592"N 80°41'21.68697011"W	3,059	3,064	3,070	3,037	3,030					
30	39°54'40.69021615"N 80°41'41.17737650"W	2,205	2,217	2,229	2,198	2,185					

\*Water source previously located in 2014 or 2015



WATER SUPPLY EXHIBIT  
HINES PAD BATCH #3

02/22/2019  
GEM

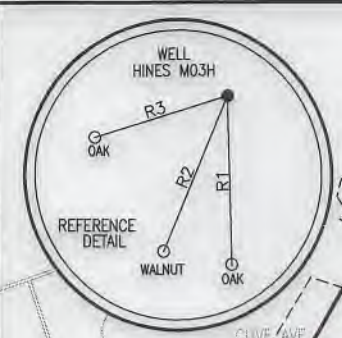
No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
31*	PYLES, RONNIE E ET UX	Spring	705	1056 TOMS RUN LANE	304-845-2288
32*	RINE, OKEY L JR	Well	1,307	6 TRACY LANE	h 304-845-1533 c 304-650-5792
33*	RINE, OKEY L JR	Pond	1,130	6 TRACY LANE	h 304-845-1533 c 304-650-5792
34*	RINE, OKEY L JR	Pond	1,132	6 TRACY 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	M01H	M02H	M03H	M13H	M14H					
31	39°54'41.30941617"N 80°41'43.49577725"W	2,159	2,171	2,184	2,154	2,141					
32	39°54'28.57981555"N 80°41'01.36136340"W	4,421	4,423	4,424	4,394	4,392					
33	39°54'36.24781652"N 80°41'12.95696752"W	3,732	3,737	3,742	3,709	3,703					
34	39°54'29.63461511"N 80°41'16.22216804"W	3,296	3,299	3,302	3,270	3,267					
35	39°54'28.74181221"N 80°42'19.27618731"W	1,785	1,791	1,796	1,817	1,812					
36	39°54'27.59341177"N 80°42'24.29098876"W	2,130	2,134	2,138	2,161	2,158					
37	39°54'25.87981134"N 80°42'26.69578938"W	2,284	2,287	2,289	2,315	2,313					
38	39°54'42.48661659"N 80°41'39.10017599"W	2,447	2,459	2,471	2,439	2,427					
39	39°53' 58.76820674"N 80°42'12.63058309"W	2,713	2,699	2,686	2,715	2,729					
40	39°54'12.53460865"N 80°42'29.63338930"W	2,708	2,703	2,697	2,730	2,737					
41	39°54'32.58661326"N 80°42'11.99698536"W	1,484	1,494	1,505	1,514	1,504					

\*Water source previously located in 2014 or 2015

BHL is located on topo map 12,392 feet south of Latitude: 39° 57' 30"  
 SHL is located on topo map 3,776 feet south of Latitude: 39° 55' 00"

**SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS**



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

**SURFACE HOLE LOCATION (SHL)**  
 UTM 17-NAD83(M)  
 N:4417400.72  
 E:525699.12  
 NAD83, WV NORTH  
 N:514467.040  
 E:1632055.740

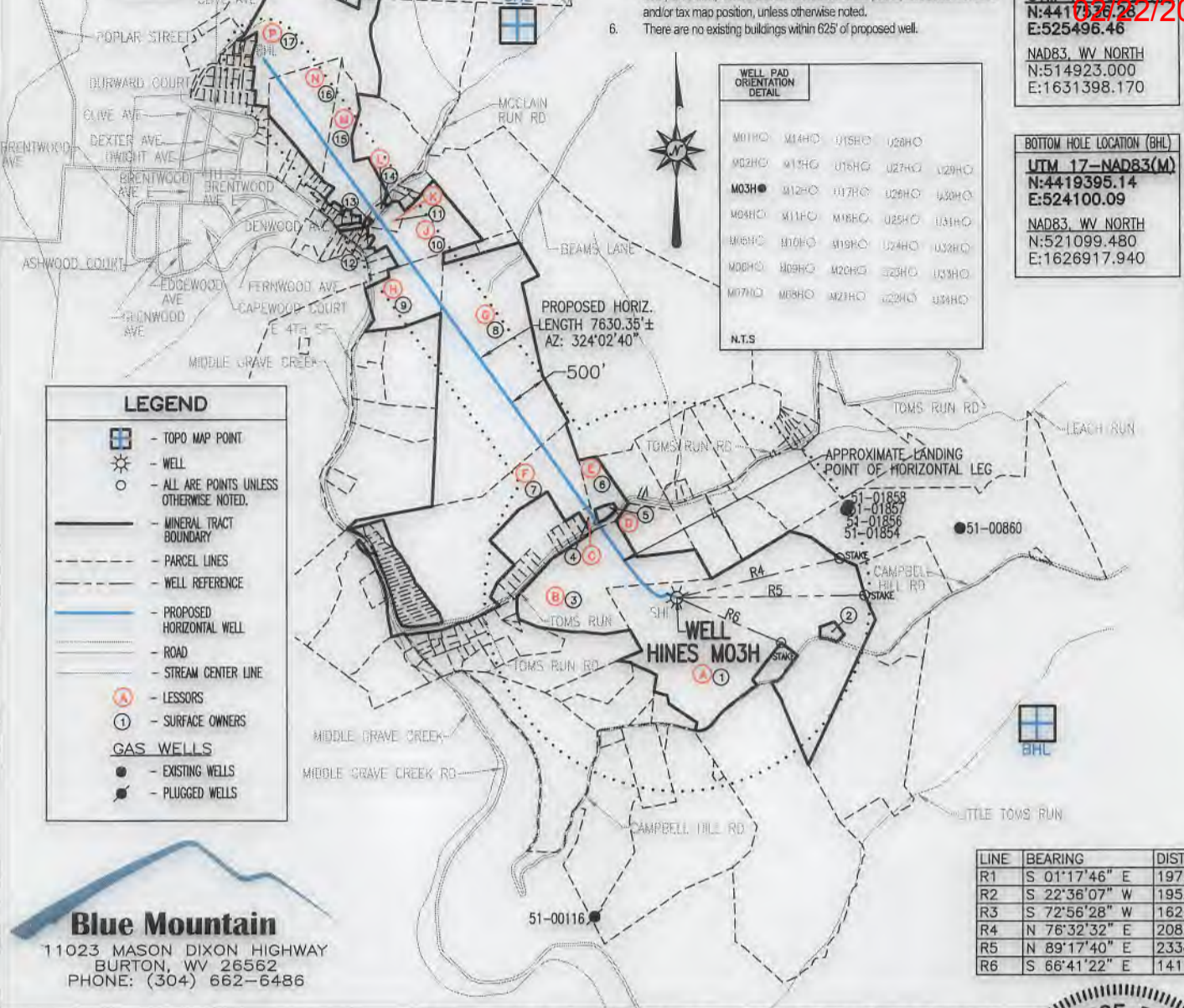
**APPROX. LANDING POINT**  
 UTM 17-NAD83(M)  
 N:4417326.28  
 E:525496.46  
 NAD83, WV NORTH  
 N:514923.000  
 E:1631398.170

**BOTTOM HOLE LOCATION (BHL)**  
 UTM 17-NAD83(M)  
 N:4419395.14  
 E:524100.09  
 NAD83, WV NORTH  
 N:521099.480  
 E:1626917.940

WELL PAD ORIENTATION DETAIL

M01HO	M14HO	U15HO	U28HO
M02HO	M15HO	U16HO	U27HO
M03HO	M12HO	U17HO	U26HO
M04HO	M11HO	M18HO	U25HO
M05HO	M10HO	M19HO	U24HO
M06HO	M09HO	M20HO	U23HO
M07HO	M08HO	M21HO	U22HO

N.T.S.



**LEGEND**

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

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

BHL is located on topo map 2,704 feet west of Longitude: 80° 42' 30"  
 SHL is located on topo map 9,166 feet west of Longitude: 80° 40' 00"

LINE	BEARING	DISTANCE
R1	S 01°17'46" E	197.24'
R2	S 22°36'07" W	195.45'
R3	S 72°56'28" W	162.58'
R4	N 76°32'32" E	2086.00'
R5	N 89°17'40" E	2338.22'
R6	S 66°41'22" E	1411.34'

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

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

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

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

PLACE SEAL HERE

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



DATE: OCTOBER 22, 2018  
 OPERATOR'S WELL #: HINES M03H  
 API WELL #: 47 51 02157  
 STATE COUNTY PERMIT

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

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

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

SURFACE OWNER: DONALD HINES ET UX ACREAGE: 114.934±

OIL & GAS ROYALTY OWNER: DONALD HINES ET UX ACREAGE: 412.650±

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

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

(SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,262'± TMD: 14,282.18'±

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

# HINES

## M03H

### PAGE 2 OF 3

02/22/2019

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
B	LYNN ELLEN COOK	14-12/25
	WILLIAM F. RULONG	
	CHARLES BURTON RULONG	
	GARY MORRISON	
	ELIZABETH Y. MORRISON	
	ROGER GLEN RULONG	
	TRUSTEES LIMESTONE PRESBYTERIAN CHURCH	
	CLYDE DOWLER ET UX	
	DRU ELLA FOX	
	LAURA J. REYES	
	DALE FRANCIS FURBEE	
	HAROLD DEAN FURBEE	
	JOHN T. MORRIS	
	ETHEL M. RULONG	
	RICHARD J. RULONG	
	ROBERT L. RULONG	
TERRY LEE RULONG		
TRACEY LYNN RULONG		
C	RAYMOND P. YOHO ET UX	14-12A/13
	ROBERT K. BLAKE ET UX	
	CECIL R. LIGHTNER	
	IVAN L. WELLMAN ET UX	
	MELANIE J. YOUNG	
	ELMER Z. WELLMAN ET UX	
	TIMOTHY L. CURRY ET UX	
	CHARLES L. BLAKE ET UX	
	TAMRA C. MORGAN	
	GARREN D. WELLMAN	
	MARTHA E. DICKERHOOF	
	RACHEL EARNEST	
	CATHERINE A. GUSTIN	
	KAY WATSON	
	MARY WIDDER	
	CHANTEE M. DANCIK	
	MELISSA S. PRICE	
	HARVEY LEE WELLS JR.	
	APRIL DAWN WELLS	
	KIMBERLY R. FRANKENFIELD	
	DEBORAH ELDER	
	DARCY MICHAELS	
	DARLA THURMAN	
	MELISSA A. WAGGONER	
	ANDREW PFAUS	
	GREGORY A. PFAUS	
	MATHEW PFAUS	
	NANCY GREATHOUSE	
	DENISE A. WELLS	
	STEVEN D. WELLS	
	ROBERT JOHN MCCLELLAN	
	RANDALL W. DENNIS	
	DONALD MCCLELLAN	
	DONNA DAVIS	
	GEORGE MCCLELLAN JR.	
	DIANA LOUISE MCKINNEY	
	DIANE MINCKS	
	WAYNE KENNETH MCCLELLAN	
	DONALD E. GEARHART	
	DENISE K. PETREE	
	AARON CURRY	
	BEULAH J. CURRY	
	KIMBERLY PAULA VARNER	
GEOFFREY A. ROWLANDS		

	LESSOR	DIST-TM/PAR
C	JASON M. SANDOR	14-12A/13
	ANDREW W. FLOYD	
	JENNIFER JORDAN	
	JAMES M. SANDOR JR.	
	CANDICE J. CASTLE	
	RALPH E. WELLMAN ET AL	
	LINDA HAYS	
	KEVIN L. ROWLANDS	
	THOMAS MAZZAFERRO	
	SANDRA TRESSLER	
	LORREN ROGERS	
	ROBERT L. WELLING	
	MELANY L. WASKO	
	JOHN T. WELLING	
	MARK D. WELLING	
	THERESA B. WORKMAN	
	JAMES R. BLAKE	
	TERRY SEIBERT	
	SHEREE SINCLAIR	
	JAMES E. RICE	
	BETH GODFREY	
	STEVE RICE	
	STEVEN DALE PIERSON	
	RANDY SEIBERT	
	LONNIE V. BLAKE	
	SHIRLEY PONDER	
	EARLE VINCENT BLAKE - SPL COM DAVID C. WHITE	
D	MICHAEL J. MCCARTNEY ET UX	14-9/46.1
E	MICHAEL J. MCCARTNEY ET UX	14-9/46
F	DONNA HOLLIDAY	14-12/24
	DALE HALL	
	DENISE SCAMEHORN	
	DAVID HALL	
	ROBERT K. BLAKE ET UX	
	CECIL R. LIGHTNER	
	IVAN L. WELLMAN ET UX	
	MELANIE J. YOUNG	
	ELMER Z. WELLMAN ET UX	
	TIMOTHY L. CURRY ET UX	
	CHARLES L. BLAKE ET UX	
	TAMRA C. MORGAN	
	GARREN D. WELLMAN	
	MARTHA E. DICKERHOOF	
	RACHEL EARNEST	
	CATHERINE A. GUSTIN	
KAY WATSON		
MARY WIDDER		
CHANTEE M. DANCIK		
MELISSA S. PRICE		
HARVEY LEE WELLS JR.		
APRIL DAWN WELLS		
KIMBERLY R. FRANKENFIELD		
DEBORAH ELDER		
DARCY MICHAELS		

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4417400.72
E:525699.12
NAD83, WV NORTH
N:514467.040
E:1632055.740

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4417536.28
E:525496.46
NAD83, WV NORTH
N:514923.000
E:1631398.170

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4419395.14
E:524100.09
NAD83, WV NORTH
N:521099.480
E:1626917.940

	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	RAYMOND P. YOHO	14-12A/13
5	*MICHAEL J. MCCARTNEY ET UX	14-9/46.1
6	MICHAEL J. MCCARTNEY ET UX	14-9/46
7	DENISE L. & CHRISTOPHER SCAMEHORN	14-12/24
8	ALAN N. CROW ET AL	14-9/48
9	PATRICK J. ROGERS	14-9/50
10	KEVIN MICHAEL STEINMAN	14-9/54
11	JOSEPH L. GODDARD ET UX	14-9/54.4
12	JOSEPH GODDARD	14-9A2/23
13	JOSEPH GODDARD	14-9A2/23.2
14	JOSEPH L. GODDARD ET UX	14-9A2/34
15	JOS D. & NELLIE B. PARRIOTT	14-9/8
16	THOMAS L. WASEMANN ET UX	14-9/8.1
17	CARLA PAULINE SLOCUM	14-8/40

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

# HINES

## M03H

### PAGE 3 OF 3

02/22/2019

	LESSOR	DIST-TM/PAR		
F	DARLA THURMAN	14-12/24		
	MELISSA A. WAGGONER			
	ANDREW PFAUS			
	GREGORY A. PFAUS			
	MATHEW PFAUS			
	NANCY GREATHOUSE			
	DENISE A. WELLS			
	STEVEN D. WELLS			
	ROBERT JOHN MCCLELLAN			
	RANDALL W. DENNIS			
	DONALD MCCLELLAN			
	DONNA DAVIS			
	GEORGE MCCLELLAN JR.			
	DIANA LOUISE MCKINNEY			
	DIANE MINCKS			
	WAYNE KENNETH MCCLELLAN			
	DONALD E. GEARHART			
	DENISE K. PREE			
	AARON CURRY			
	BEULAH J. CURRY			
	KIMBERLY PAULA VARNER			
	GEOFFREY A. ROWLANDS			
	JASON M. SANDOR			
	ANDREW W. FLOYD			
	JENNIFER JORDAN			
	JAMES M. SANDOR JR.			
	CANDICE J. CASTLE			
	RALPH E. WELLMAN ET AL			
	LINDA HAYS			
	KEVIN L. ROWLANDS			
	THOMAS MAZZAFERRO			
	SANDRA TRESSLER			
	LORREN ROGERS			
	ROBERT L. WELLING			
	MELANY L. WASKO			
	JOHN T. WELLING			
	MARK D. WELLING			
	THERESA B. WORKMAN			
	JAMES R. BLAKE			
	TERRY SEIBERT			
	SHEREE SINCLAIR			
	JAMES E. RICE			
	BETH GODFREY			
	STEVE RICE			
	STEVEN DALE PIERSON			
	RANDY SEIBERT			
	LONNIE V. BLAKE			
	SHIRLEY PONDER			
	EARLE VINCENT BLAKE - SPL COM DAVID C. WHITE			
	G		RICHARD F. VARGO ET UX	14-9/48
			RUTH ANN CROW	
			MARY KATHRYN NEEHOUSE	
	H		PATRICK J. ROGERS	14-9/50
	J		GREG BIETH	14-9/54
			JULIE CARTWRIGHT	
			DALE JONES	
			JENNIFER KELLER	
BARRY F. LARSON ET UX				
TANYA BIETH				
ALYN BRENT CHAMBERLAIN				
ERIC CHAMBERLAIN				
BRAD CHAMBERLAIN				
PAUL C. NIX				
FIRST UNITED METHODIST CHURCH OF ORLANDO				
GERALDINE PLOWDEN				
JOYCE K. LARSON				
DIXIE UNITED METHODIST CHURCH				
BISHOP GRAY RETIREMENT FOUNDATION				
FL UNITED METHODIST CHILDRENS HOME INC.				
EMMANUEL EPISCOPAL CHURCH				
EDGEWOOD CHILDRENS RANCH INC.				
ERIC M. CHAMBERLAIN				
TODD B. CHAMBERLAIN				
BRAD CHAMBERLAIN				
ALYN BRENT CHAMBERLAIN				
JOSEPH PARRIOTT ET UX				

	LESSOR	DIST-TM/PAR
K	GREG BIETH	14-9/54.4
	JULIE CARTWRIGHT	
	DALE JONES	
	JENNIFER KELLER	
	BARRY F. LARSON ET UX	
	TANYA BIETH	
	ALYN BRENT CHAMBERLAIN	
	ERIC CHAMBERLAIN	
	BRAD CHAMBERLAIN	
	TODD CHAMBERLAIN	
	PAUL C. NIX - SFX	
	FIRST UNITED METHODIST CHURCH OF ORLANDO	
	GERALDINE PLOWDEN	
	JOYCE K. LARSON	
	DIXIE UNITED METHODIST CHURCH	
	BISHOP GRAY RETIREMENT FOUNDATION	
	JOSEPH D. PARRIOTT ET UX	
	FL UNITED METHODIST CHILDRENS HOME INC.	
	EMMANUEL EPISCOPAL CHURCH	
	EDGEWOOD CHILDRENS RANCH INC.	
	L	
M	JOSEPH D. PARRIOTT ET UX	14-9/8
N	JOSEPH D. PARRIOTT ET UX	14-9/8.1
P	FLOYD E. GUMP ET UX	14-8/40

SURFACE HOLE LOCATION (SHL)
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APPROX. LANDING POINT
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NAD83, WV NORTH
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E:524100.09
NAD83, WV NORTH
N:521099.480
E:1626917.940

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

**OCTOBER 22, 2018**

WW-6A1  
(5/13)

Operator's Well No. M03H

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

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

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

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

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

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

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

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

Well Operator: Chevron Appalachia, LLC  
 By: Jenny Butchko *Jenny Butchko*  
 Its: Permitting Team Lead



Hines Unit M03H - BATCH 3

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Instrument Number or Book/Page	Assignment #1	Assignment #2	Assignment #3
A	14-12-30	HINES DONALD ET UX	Chevron U.S.A. Inc.	16.00%	1329219	n/a	n/a	n/a
B	14-12-25	COOK LYNN ELLEN - SFX	Chevron U.S.A. Inc.	14.00%	1360786	n/a	n/a	n/a
		RULONG WILLIAM F - SFX	Chevron U.S.A. Inc.	14.00%	1357421	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
		MORRISON GARY - SFX	Chevron U.S.A. Inc.	16.00%	1370830	n/a	n/a	n/a
		MORRISON ELIZABETH Y - SFX	Chevron U.S.A. Inc.	16.00%	1370829	n/a	n/a	n/a
		RULONG ROGER GLEN - SFX	Chevron U.S.A. Inc.	18.00%	1371525	n/a	n/a	n/a
		TRUSTES LIMESTONE PRESBYTERIAN CHUR	Chevron U.S.A. Inc.	18.00%	1375367	n/a	n/a	n/a
		DOWLER CLYDE ET UX - SFX	Chevron U.S.A. Inc.	18.00%	1382165	n/a	n/a	n/a
		FOX DRU ELLA - SFX	Chevron U.S.A. Inc.	14.00%	1357445	n/a	n/a	n/a
		REYES LAURA J - SFX	Chevron U.S.A. Inc.	16.00%	882/392	n/a	n/a	n/a
		FURBEE DALE FRANCIS - SFX	Chevron U.S.A. Inc.	14.00%	1358056	n/a	n/a	n/a
		FURBEE HAROLD DEAN - SFX	Chevron U.S.A. Inc.	14.00%	921936	n/a	n/a	n/a
		MORRIS JOHN T - SFX	Chevron U.S.A. Inc.	14.00%	1357450	n/a	n/a	n/a
		RULONG ETHEL M SFX	Chevron U.S.A. Inc.	14.00%	1362297	n/a	n/a	n/a
		RULONG RICHARD J - SFX	Chevron U.S.A. Inc.	14.00%	1362341	n/a	n/a	n/a
RULONG ROBERT L - SFX	Chevron U.S.A. Inc.	14.00%	1358055	n/a	n/a	n/a		
RULONG TERRY LEE - SFX	Chevron U.S.A. Inc.	14.00%	1362290	n/a	n/a	n/a		
RULONG TRACEY LYNN - SFX	Chevron U.S.A. Inc.	14.00%	1365999	n/a	n/a	n/a		
	WV Department of Environmental Protection Office of Oil and Gas RECEIVED DEC 18 2018	YOHO RAYMOND P ET UX - SFX	TriEnergy Holdings, LLC	18.00%	1296576	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		BLAKE ROBERT K ET UX - SFX	TriEnergy Holdings, LLC	17.00%	736/347	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		LIGHTNER CECIL R - SFX	Chevron U.S.A. Inc.	18.00%	1400784	n/a	n/a	n/a
		WELLMAN IVAN L ET UX - SFX	TriEnergy Holdings, LLC	17.00%	736/352	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		JUNG MELANIE J -SFX	Chevron U.S.A. Inc.	17.00%	921937	n/a	n/a	n/a

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Instrument Number or Book/Page	Assignment #1	Assignment #2	Assignment #3
		WELLMAN ELMER Z ET UX - SFX	TriEnergy Holdings, LLC	17.00%	736/357	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		CURRY TIMOTHY L ET UX - SFX	TriEnergy Holdings, LLC	17.00%	738/221	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		BLAKE CHARLES L ET UX - SFX	TriEnergy Holdings, LLC	17.00%	738/236	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		MORGAN TAMRA C - SFX	TriEnergy Holdings, LLC	17.00%	738/241	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		WELLMAN GARREN D - SFX	TriEnergy Holdings, LLC	17.00%	738/251	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		DICKERHOOF MARTHA E - SFX	TriEnergy Holdings, LLC	17.00%	738/256	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		EARNEST RACHEL - SFX	Chevron U.S.A. Inc.	17.00%	1370897	n/a	n/a	n/a
		GUSTIN CATHERINE A - SFX	Chevron U.S.A. Inc.	17.00%	1371654	n/a	n/a	n/a
		WATSON KAY - SFX	Chevron U.S.A. Inc.	17.00%	137941	n/a	n/a	n/a
		WIDDER MARY - SFX	Chevron U.S.A. Inc.	17.00%	1379340	n/a	n/a	n/a
		DANCIK CHANTEE M - SFX	Chevron U.S.A. Inc.	17.00%	1378265	n/a	n/a	n/a
		PRICE MELISSA S - SFX	Chevron U.S.A. Inc.	17.00%	1371792	n/a	n/a	n/a
		WELLS HARVEY LEE JR - SFX	Chevron U.S.A. Inc.	17.00%	1399074	n/a	n/a	n/a
		WELLS APRIL DAWN - SFX	Chevron U.S.A. Inc.	17.00%	1399078	n/a	n/a	n/a
		FRANKENFIELD KIMBERLY R - SFX	Chevron U.S.A. Inc.	17.00%	1374523	n/a	n/a	n/a
		ELDER DEBORAH - SFX	Chevron U.S.A. Inc.	17.00%	1374535	n/a	n/a	n/a
		MICHAELS DARCY - SFX	Chevron U.S.A. Inc.	17.00%	1374534	n/a	n/a	n/a
		THURMAN DARLA - SFX	Chevron U.S.A. Inc.	17.00%	1374553	n/a	n/a	n/a
		WAGGONER MELISSA A - SFX	Chevron U.S.A. Inc.	17.00%	1379344	n/a	n/a	n/a
		PFAUS ANDREW - SFX	Chevron U.S.A. Inc.	17.00%	1371791	n/a	n/a	n/a

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 DEC 18 2018  
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Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Instrument Number or Book/Page	Assignment #1	Assignment #2	Assignment #3
C	14-12A-13	PFAUS GREGORY A - SFX	Chevron U.S.A. Inc.	17.00%	1371789	n/a	n/a	n/a
		PFAUS MATHEW - SFX	Chevron U.S.A. Inc.	17.00%	1371787	n/a	n/a	n/a
		GREATHOUSE NANCY - SFX	Chevron U.S.A. Inc.	17.00%	1378277	n/a	n/a	n/a
		WELLS DENISE A - SFX	Chevron U.S.A. Inc.	17.00%	1378276	n/a	n/a	n/a
		WELLS STEVEN D - SFX	Chevron U.S.A. Inc.	17.00%	1378273	n/a	n/a	n/a
		MCCLELLAN ROBERT JOHN - SFX	Chevron U.S.A. Inc.	17.00%	1378274	n/a	n/a	n/a
		DENNIS RANDALL W - SFX	Chevron U.S.A. Inc.	17.00%	1379323	n/a	n/a	n/a
		MCCLELLAND DONALD - SFX	Chevron U.S.A. Inc.	17.00%	1379339	n/a	n/a	n/a
		DAVIS DONNA - SFX	Chevron U.S.A. Inc.	17.00%	1379332	n/a	n/a	n/a
		MCCLELLAN GEORGE JR - SFX	Chevron U.S.A. Inc.	17.00%	1379348	n/a	n/a	n/a
		MCKINNEY DIANA LOUISE - SFX	Chevron U.S.A. Inc.	17.00%	1377472	n/a	n/a	n/a
		MINCKS DIANE - SFX	Chevron U.S.A. Inc.	17.00%	1377474	n/a	n/a	n/a
		MCCLELLAN WAYNE KENNETH - SFX	Chevron U.S.A. Inc.	17.00%	859/219	n/a	n/a	n/a
		GEARHART DONALD E - SFX	Chevron U.S.A. Inc.	17.00%	1378264	n/a	n/a	n/a
		PETREE DENISE K - SFX	Chevron U.S.A. Inc.	17.00%	1378262	n/a	n/a	n/a
		CURRY AARON - SFX	Chevron U.S.A. Inc.	17.00%	1378282	n/a	n/a	n/a
		CURRY BEULAH J - SFX	Chevron U.S.A. Inc.	17.00%	1378279	n/a	n/a	n/a
		VARNER KIMBERLY PAULA - SFX	Chevron U.S.A. Inc.	17.00%	1378278	n/a	n/a	n/a
		ROWLANDS GEOFFREY A - SFX	Chevron U.S.A. Inc.	17.00%	1378280	n/a	n/a	n/a
		SANDOR JASON M - SFX	Chevron U.S.A. Inc.	17.00%	1379324	n/a	n/a	n/a
		FLOYD ANDREW W - SFX	Chevron U.S.A. Inc.	17.00%	1379328	n/a	n/a	n/a
		JORDAN JENNIFER - SFX	Chevron U.S.A. Inc.	17.00%	1379329	n/a	n/a	n/a
		SANDOR JAMES M JR - SFX	Chevron U.S.A. Inc.	17.00%	1379330	n/a	n/a	n/a
		CASTLE CANDICE J - SFX	Chevron U.S.A. Inc.	17.00%	861/257	n/a	n/a	n/a
		WELLMAN RALPH E ET AL - SFX	Chevron U.S.A. Inc.	18.00%	1378304	n/a	n/a	n/a
		HAYS LINDA - SFX	Chevron U.S.A. Inc.	17.00%	1381466	n/a	n/a	n/a
ROWLANDS KEVIN L - SFX	Chevron U.S.A. Inc.	17.00%	1381464	n/a	n/a	n/a		
MAZZAFERRO THOMAS - SFX	Chevron U.S.A. Inc.	17.00%	1381465	n/a	n/a	n/a		
TRESSLER SANDRA - SFX	Chevron U.S.A. Inc.	17.00%	1381456	n/a	n/a	n/a		
ROGERS LORREN - SFX	Chevron U.S.A. Inc.	17.00%	1381457	n/a	n/a	n/a		
WELLING ROBERT L - SFX	Chevron U.S.A. Inc.	17.00%	1381458	n/a	n/a	n/a		
WASKO MELANY L - SFX	Chevron U.S.A. Inc.	17.00%	867/174	n/a	n/a	n/a		

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		WELLING JOHN T - SFX	Chevron U.S.A. Inc.	17.00%	1381462	n/a	n/a	n/a
		WELLING MARK D - SFX	Chevron U.S.A. Inc.	17.00%	1382585	n/a	n/a	n/a
		WORKMAN THERESA B - SFX	Chevron U.S.A. Inc.	17.00%	1382583	n/a	n/a	n/a
		BLAKE JAMES R - SFX	Chevron U.S.A. Inc.	17.00%	1382582	n/a	n/a	n/a
		SEIBERT TERRY - SFX	Chevron U.S.A. Inc.	18.00%	921938	n/a	n/a	n/a
		SINCLAIR SHEREE - SFX	Chevron U.S.A. Inc.	18.00%	922168	n/a	n/a	n/a
		RICE JAMES E - SFX	Chevron U.S.A. Inc.	18.00%	922169	n/a	n/a	n/a
		GODFREY BETH - SFX	Chevron U.S.A. Inc.	18.00%	922727	n/a	n/a	n/a
		RICE STEVE - SFX	Chevron U.S.A. Inc.	18.00%	922805	n/a	n/a	n/a
		PIERSON STEVEN DALE - SFX	Chevron U.S.A. Inc.	18.00%	1386463	n/a	n/a	n/a
		SEIBERT RANDY - SFX	Chevron U.S.A. Inc.	18.00%	1384679	n/a	n/a	n/a
		BLAKE LONNIE V - SFX	Chevron U.S.A. Inc.	18.00%	1399067	n/a	n/a	n/a
		PONDER SHIRLEY - SFX	Chevron U.S.A. Inc.	16.00%	1405686	n/a	n/a	n/a
		BLAKE EARLE VINCENT - SPL COM DAVID C	Chevron U.S.A. Inc.	16.00%	1408927	n/a	n/a	n/a
D	14-9-46.1	MCCARTNEY MICHAEL J ET UX	Chesapeake Appalachia, LLC	18.75%	1293591	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc. (50%)	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc. (50%)	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc. (50%)
E	14-9-46	MCCARTNEY MICHAEL J ET UX	Chesapeake Appalachia, LLC	18.75%	1293591	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc. (50%)	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc. (50%)	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc. (50%)
		HOLLIDAY DONNA - SFX	TriEnergy Holdings, LLC	16.00%	699/31	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		HALL DALE - SFX	TriEnergy Holdings, LLC	16.00%	699/23	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

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Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Instrument Number or Book/Page	Assignment #1	Assignment #2	Assignment #3
		SCAMEHORN DENISE - SFX	TriEnergy Holdings, LLC	16.00%	699/25	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		HALL DAVID - SFX	TriEnergy Holdings, LLC	16.00%	699/27	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		BLAKE ROBERT K ET UX - SFX	TriEnergy Holdings, LLC	17.00%	736/347	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		LIGHTNER CECIL R - SFX	Chevron U.S.A. Inc.	18.00%	1400784	n/a	n/a	n/a
		WELLMAN IVAN L ET UX - SFX	TriEnergy Holdings, LLC	17.00%	736/352	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		YOUNG MELANIE J -SFX	Chevron U.S.A. Inc.	17.00%	921937	n/a	n/a	n/a
		WELLMAN ELMER Z ET UX - SFX	TriEnergy Holdings, LLC	17.00%	736/357	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		CURRY TIMOTHY L ET UX - SFX	TriEnergy Holdings, LLC	17.00%	738/221	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		BLAKE CHARLES L ET UX - SFX	TriEnergy Holdings, LLC	17.00%	738/236	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		MORGAN TAMRA C - SFX	TriEnergy Holdings, LLC	17.00%	738/241	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		WELLMAN GARREN D - SFX	TriEnergy Holdings, LLC	17.00%	738/251	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		DICKERHOOF MARTHA E - SFX	TriEnergy Holdings, LLC	17.00%	738/256	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a

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F	14-12-24	EARNEST RACHEL - SFX	Chevron U.S.A. Inc.	17.00%	1370897	n/a	n/a	n/a
		GUSTIN CATHERINE A - SFX	Chevron U.S.A. Inc.	17.00%	1371654	n/a	n/a	n/a
		WATSON KAY - SFX	Chevron U.S.A. Inc.	17.00%	137941	n/a	n/a	n/a
		WIDDER MARY - SFX	Chevron U.S.A. Inc.	17.00%	1379340	n/a	n/a	n/a
		DANCIK CHANTEE M - SFX	Chevron U.S.A. Inc.	17.00%	1378265	n/a	n/a	n/a
		PRICE MELISSA S - SFX	Chevron U.S.A. Inc.	17.00%	1371792	n/a	n/a	n/a
		WELLS HARVEY LEE JR - SFX	Chevron U.S.A. Inc.	17.00%	1399074	n/a	n/a	n/a
		WELLS APRIL DAWN - SFX	Chevron U.S.A. Inc.	17.00%	1399078	n/a	n/a	n/a
		FRANKENFIELD KIMBERLY R - SFX	Chevron U.S.A. Inc.	17.00%	1374523	n/a	n/a	n/a
		ELDER DEBORAH - SFX	Chevron U.S.A. Inc.	17.00%	1374535	n/a	n/a	n/a
		MICHAELS DARCY - SFX	Chevron U.S.A. Inc.	17.00%	1374534	n/a	n/a	n/a
		THURMAN DARLA - SFX	Chevron U.S.A. Inc.	17.00%	1374553	n/a	n/a	n/a
		WAGGONER MELISSA A - SFX	Chevron U.S.A. Inc.	17.00%	1379344	n/a	n/a	n/a
		PFAUS ANDREW - SFX	Chevron U.S.A. Inc.	17.00%	1371791	n/a	n/a	n/a
		PFAUS GREGORY A - SFX	Chevron U.S.A. Inc.	17.00%	1371789	n/a	n/a	n/a
		PFAUS MATHEW - SFX	Chevron U.S.A. Inc.	17.00%	1371787	n/a	n/a	n/a
		GREATHOUSE NANCY - SFX	Chevron U.S.A. Inc.	17.00%	1378277	n/a	n/a	n/a
		WELLS DENISE A - SFX	Chevron U.S.A. Inc.	17.00%	1378276	n/a	n/a	n/a
		WELLS STEVEN D - SFX	Chevron U.S.A. Inc.	17.00%	1378273	n/a	n/a	n/a
		MCCLELLAN ROBERT JOHN - SFX	Chevron U.S.A. Inc.	17.00%	1378274	n/a	n/a	n/a
		DENNIS RANDALL W - SFX	Chevron U.S.A. Inc.	17.00%	1379323	n/a	n/a	n/a
		MCCLELLAND DONALD - SFX	Chevron U.S.A. Inc.	17.00%	1379339	n/a	n/a	n/a
		DAVIS DONNA - SFX	Chevron U.S.A. Inc.	17.00%	1379332	n/a	n/a	n/a
		MCCLELLAN GEORGE JR - SFX	Chevron U.S.A. Inc.	17.00%	1379348	n/a	n/a	n/a
		MCKINNEY DIANA LOUISE - SFX	Chevron U.S.A. Inc.	17.00%	1377472	n/a	n/a	n/a
		MINCKS DIANE - SFX	Chevron U.S.A. Inc.	17.00%	1377474	n/a	n/a	n/a
		MCCLELLAN WAYNE KENNETH - SFX	Chevron U.S.A. Inc.	17.00%	859/219	n/a	n/a	n/a
		GEARHART DONALD E - SFX	Chevron U.S.A. Inc.	17.00%	1378264	n/a	n/a	n/a
PETREE DENISE K - SFX	Chevron U.S.A. Inc.	17.00%	1378262	n/a	n/a	n/a		
CURRY AARON - SFX	Chevron U.S.A. Inc.	17.00%	1378282	n/a	n/a	n/a		
CURRY BEULAH J - SFX	Chevron U.S.A. Inc.	17.00%	1378279	n/a	n/a	n/a		
VARNER KIMBERLY PAULA - SFX	Chevron U.S.A. Inc.	17.00%	1378278	n/a	n/a	n/a		

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		ROWLANDS GEOFFREY A - SFX	Chevron U.S.A. Inc.	17.00%	1378280	n/a	n/a	n/a
		SANDOR JASON M - SFX	Chevron U.S.A. Inc.	17.00%	1379324	n/a	n/a	n/a
		FLOYD ANDREW W - SFX	Chevron U.S.A. Inc.	17.00%	1379328	n/a	n/a	n/a
		JORDAN JENNIFER - SFX	Chevron U.S.A. Inc.	17.00%	1379329	n/a	n/a	n/a
		SANDOR JAMES M JR - SFX	Chevron U.S.A. Inc.	17.00%	1379330	n/a	n/a	n/a
		CASTLE CANDICE J - SFX	Chevron U.S.A. Inc.	17.00%	861/257	n/a	n/a	n/a
		WELLMAN RALPH E ET AL - SFX	Chevron U.S.A. Inc.	18.00%	1378304	n/a	n/a	n/a
		HAYS LINDA - SFX	Chevron U.S.A. Inc.	17.00%	1381466	n/a	n/a	n/a
		ROWLANDS KEVIN L - SFX	Chevron U.S.A. Inc.	17.00%	1381464	n/a	n/a	n/a
		MAZZAFERRO THOMAS - SFX	Chevron U.S.A. Inc.	17.00%	1381465	n/a	n/a	n/a
		TRESSLER SANDRA - SFX	Chevron U.S.A. Inc.	17.00%	1381456	n/a	n/a	n/a
		ROGERS LORREN - SFX	Chevron U.S.A. Inc.	17.00%	1381457	n/a	n/a	n/a
		WELLING ROBERT L - SFX	Chevron U.S.A. Inc.	17.00%	1381458	n/a	n/a	n/a
		WASKO MELANY L - SFX	Chevron U.S.A. Inc.	17.00%	867/174	n/a	n/a	n/a
		WELLING JOHN T - SFX	Chevron U.S.A. Inc.	17.00%	1381462	n/a	n/a	n/a
		WELLING MARK D - SFX	Chevron U.S.A. Inc.	17.00%	1382585	n/a	n/a	n/a
		WORKMAN THERESA B - SFX	Chevron U.S.A. Inc.	17.00%	1382583	n/a	n/a	n/a
		BLAKE JAMES R - SFX	Chevron U.S.A. Inc.	17.00%	1382582	n/a	n/a	n/a
		SEIBERT TERRY - SFX	Chevron U.S.A. Inc.	18.00%	921938	n/a	n/a	n/a
		SINCLAIR SHEREE - SFX	Chevron U.S.A. Inc.	18.00%	922168	n/a	n/a	n/a
		RICE JAMES E - SFX	Chevron U.S.A. Inc.	18.00%	922169	n/a	n/a	n/a
		GODFREY BETH - SFX	Chevron U.S.A. Inc.	18.00%	922727	n/a	n/a	n/a
		RICE STEVE - SFX	Chevron U.S.A. Inc.	18.00%	922805	n/a	n/a	n/a
		PIERSON STEVEN DALE - SFX	Chevron U.S.A. Inc.	18.00%	1386463	n/a	n/a	n/a
		SEIBERT RANDY - SFX	Chevron U.S.A. Inc.	18.00%	1384679	n/a	n/a	n/a
		BLAKE LONNIE V - SFX	Chevron U.S.A. Inc.	18.00%	1399067	n/a	n/a	n/a
		PONDER SHIRLEY - SFX	Chevron U.S.A. Inc.	16.00%	1405686	n/a	n/a	n/a
		BLAKE EARLE VINCENT - SPL COM DAVID C	Chevron U.S.A. Inc.	16.00%	1408927	n/a	n/a	n/a
		VARGO RICHARD F ET UX	Chevron U.S.A. Inc.	18.00%	889/108	n/a	n/a	n/a
		CROW RUTH ANN - SFX	Chevron U.S.A. Inc.	18.00%	889/113	n/a	n/a	n/a
		NEEHOUSE MARY KATHRYN	Chevron U.S.A. Inc.	18.00%	889/103	n/a	n/a	n/a

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H	14-9-50	ROGERS PATRICK J	TriEnergy Holdings, LLC	19.00%	699/015	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
J	14-9-54	BIETH GREG - SFX	Chevron U.S.A. Inc.	16.00%	1379342	n/a	n/a	n/a
		CARTWRIGHT JULIE - SFX	Chevron U.S.A. Inc.	16.00%	1379343	n/a	n/a	n/a
		JONES DALE - SFX	Chevron U.S.A. Inc.	16.00%	1375686	n/a	n/a	n/a
		KELLER JENNIFER - SFX	Chevron U.S.A. Inc.	16.00%	1375685	n/a	n/a	n/a
		LARSON BARRY F ET UX - SFX	Chevron U.S.A. Inc.	16.00%	1375722	n/a	n/a	n/a
		BIETH TANYA - SFX	Chevron U.S.A. Inc.	16.00%	1375687	n/a	n/a	n/a
		CHAMBERLAIN ALYN BRENT - SFX	Chevron U.S.A. Inc.	16.00%	854/269	n/a	n/a	n/a
		CHAMBERLAIN ERIC - SFX	Chevron U.S.A. Inc.	16.00%	1375718	n/a	n/a	n/a
		CHAMBERLAIN BRAD - SFX	Chevron U.S.A. Inc.	16.00%	1375670	n/a	n/a	n/a
		NIX PAUL C - SFX	Chevron U.S.A. Inc.	18.00%	1386458	n/a	n/a	n/a
		FIRST UNITED METHODIST CHURCH OF OR	Chevron U.S.A. Inc.	16.00%	1386460	n/a	n/a	n/a
		PLOWDEN GERALDINE - SFX	Chevron U.S.A. Inc.	18.00%	1392264	n/a	n/a	n/a
		LARSON JOYCE K - SFX	Chevron U.S.A. Inc.	16.00%	1400643	n/a	n/a	n/a
		DIXIE UNITED METHODIST CHURCH - SFX	Chevron U.S.A. Inc.	16.00%	1400641	n/a	n/a	n/a
		BISHOP GRAY RETIREMENT FOUNDATION	Chevron U.S.A. Inc.	18.00%	1400642	n/a	n/a	n/a
		FL UNITED METHODIST CHILDRENS HOME	Chevron U.S.A. Inc.	18.00%	1398524	n/a	n/a	n/a
		EMMANUEL EPISCOPAL CHURCH - SFX	Chevron U.S.A. Inc.	16.00%	1413608	n/a	n/a	n/a
		EDGEWOOD CHILDRENS RANCH INC - SFX	Chevron U.S.A. Inc.	18.00%	1398523	n/a	n/a	n/a
		CHAMBERLAIN ERIC M - SFX	AB Resources, LLC	16.00%	1322825	29/277 AB Resources, LLC to Chevron U.S.A. Inc.	n/a	n/a
		CHAMBERLAIN TODD B - SFX	AB Resources, LLC	16.00%	1322828	29/277 AB Resources, LLC to Chevron U.S.A. Inc.	n/a	n/a

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		CHAMBERLAIN BRAD - SFX	AB Resources, LLC	16.00%	1322826	29/277 AB Resources, LLC to Chevron U.S.A. Inc.	n/a	n/a
		CHAMBERLAIN ALYN BRENT - SFX	AB Resources, LLC	16.00%	1322829	29/277 AB Resources, LLC to Chevron U.S.A. Inc.	n/a	n/a
		PARRIOTT JOSEPH ET UX	TriEnergy Holdings, LLC	12.50%	116440	19/623 TriEnergy, Inc. to AB Resources, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
K	14-9-54.4	BIETH GREG - SFX	Chevron U.S.A. Inc.	16.00%	1379342	n/a	n/a	n/a
		CARTWRIGHT JULIE - SFX	Chevron U.S.A. Inc.	16.00%	1379343	n/a	n/a	n/a
		JONES DALE - SFX	Chevron U.S.A. Inc.	16.00%	1375686	n/a	n/a	n/a
		KELLER JENNIFER - SFX	Chevron U.S.A. Inc.	16.00%	1375685	n/a	n/a	n/a
		LARSON BARRY F ET UX - SFX	Chevron U.S.A. Inc.	16.00%	1375722	n/a	n/a	n/a
		BIETH TANYA - SFX	Chevron U.S.A. Inc.	16.00%	1375687	n/a	n/a	n/a
		CHAMBERLAIN ALYN BRENT - SFX	Chevron U.S.A. Inc.	16.00%	854/269	n/a	n/a	n/a
		CHAMBERLAIN ERIC - SFX	Chevron U.S.A. Inc.	16.00%	1375718	n/a	n/a	n/a
		CHAMBERLAIN BRAD - SFX	Chevron U.S.A. Inc.	16.00%	1375670	n/a	n/a	n/a
		CHAMBERLAIN TODD - SFX	Chevron U.S.A. Inc.	16.00%	867/284	n/a	n/a	n/a
		NIX PAUL C - SFX	Chevron U.S.A. Inc.	18.00%	1386458	n/a	n/a	n/a
		FIRST UNITED METHODIST CHURCH OF OR	Chevron U.S.A. Inc.	16.00%	1386460	n/a	n/a	n/a
		PLOWDEN GERALDINE - SFX	Chevron U.S.A. Inc.	18.00%	1392264	n/a	n/a	n/a
		LARSON JOYCE K - SFX	Chevron U.S.A. Inc.	16.00%	1400643	n/a	n/a	n/a
		DIXIE UNITED METHODIST CHURCH - SFX	Chevron U.S.A. Inc.	16.00%	1400641	n/a	n/a	n/a
		BISHOP GRAY RETIREMENT FOUNDATION	Chevron U.S.A. Inc.	18.00%	1400642	n/a	n/a	n/a
		PARRIOTT JOSEPH D ET UX	Chevron U.S.A. Inc.	18.00%	140069	n/a	n/a	n/a
		FL UNITED METHODIST CHILDRENS HOME	Chevron U.S.A. Inc.	18.00%	1398524	n/a	n/a	n/a
EMMANUEL EPISCOPAL CHURCH - SFX	Chevron U.S.A. Inc.	16.00%	1413608	n/a	n/a	n/a		
EDGEWOOD CHILDRENS RANCH INC - SFX	Chevron U.S.A. Inc.	18.00%	1398523	n/a	n/a	n/a		
		PARRIOTT JOSEPH D ET UX	Chevron U.S.A. Inc.	18.00%	140069	n/a	n/a	n/a

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M	14-9-8	PARRIOTT JOSEPH ET UX	TriEnergy Holdings, LLC	12.50%	116440	19/623 TriEnergy, Inc. to AB Resources, LLC	756/397 AB Resources, LLC to Chevron U.S.A. Inc.	n/a
N	14-9-8.1	PARRIOTT JOSEPH ET UX	TriEnergy Holdings, LLC	12.50%	116440	19/623 TriEnergy, Inc. to AB Resources, LLC	756/397 AB Resources, LLC to Chevron U.S.A. Inc.	n/a
P	14-8-40	GUMP FLOYD E ET UX	Chevron U.S.A. Inc.	17.00%	1392284	n/a	n/a	n/a

02/22/2019



**Kevin J Cruz**  
Land Representative, AMBU

October 22, 2018

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

**RE: Hines 1H, 2H, 3H, 13H, and 14H**

To Whom It May Concern,

This letter is to confirm that Chevron U.S.A. Inc. has the rights to access minerals under any road along the above referenced laterals. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kevin J Cruz".

Kevin J Cruz  
Land Representative

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

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

Date of Notice Certification: 12/17/18

API No. 47- \_\_\_\_\_  
Operator's Well No. M03H  
Well Pad Name: Hines

**Notice has been given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>525699,12</u>
County:	<u>Marshall</u>		Northing:	<u>4417400,72</u>
District:	<u>Washington</u>	Public Road Access:	<u>Route 38/Campbell Hill Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hines</u>	
Watershed:	<u>Middle Grave Creek/Grave Creek</u>			

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED Office of Oil and Gas</p> <p><input type="checkbox"/> RECEIVED DEC 18 2018</p> <p><input type="checkbox"/> RECEIVED WV Department of Environmental Protection</p>
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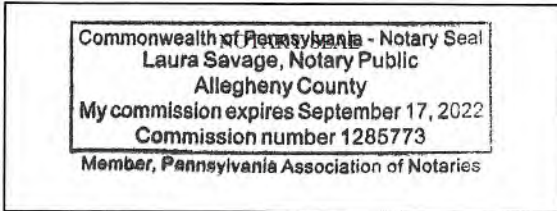
**Required Attachments:**  
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

**Certification of Notice is hereby given:**

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

*Jenny Butchko*

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



Commonwealth of Pennsylvania  
County of Allegheny  
Subscribed and sworn before me this 8th day of November, 2018.  
Laura Savage Notary Public  
My Commission Expires September 17, 2022

**Oil and Gas Privacy Notice:**

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

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

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

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

Notice of:

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

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

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

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

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

[X] SURFACE OWNER(s)  
Name: Donald Hines and Wanda L. Hines  
Address: 301 4th Street  
Glen Dale, WV 26038

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

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

[X] COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

[ ] SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

[X] SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attached  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

[ ] SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

[ ] OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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



**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

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**Notice is hereby given by:**

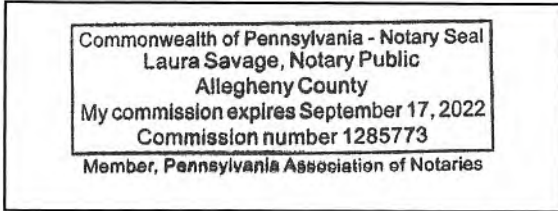
Well Operator: Chevron Appalachia, LLC  
Telephone: 412-865-1533  
Email: JZYK@chevron.com

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

*Jenny Buentke*

**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](mailto:depprivacyofficer@wv.gov).



*Commonwealth of Pennsylvania  
County of Allegheny*

Subscribed and sworn before me this 8<sup>th</sup> day of November, 2018.

Laura Savage Notary Public

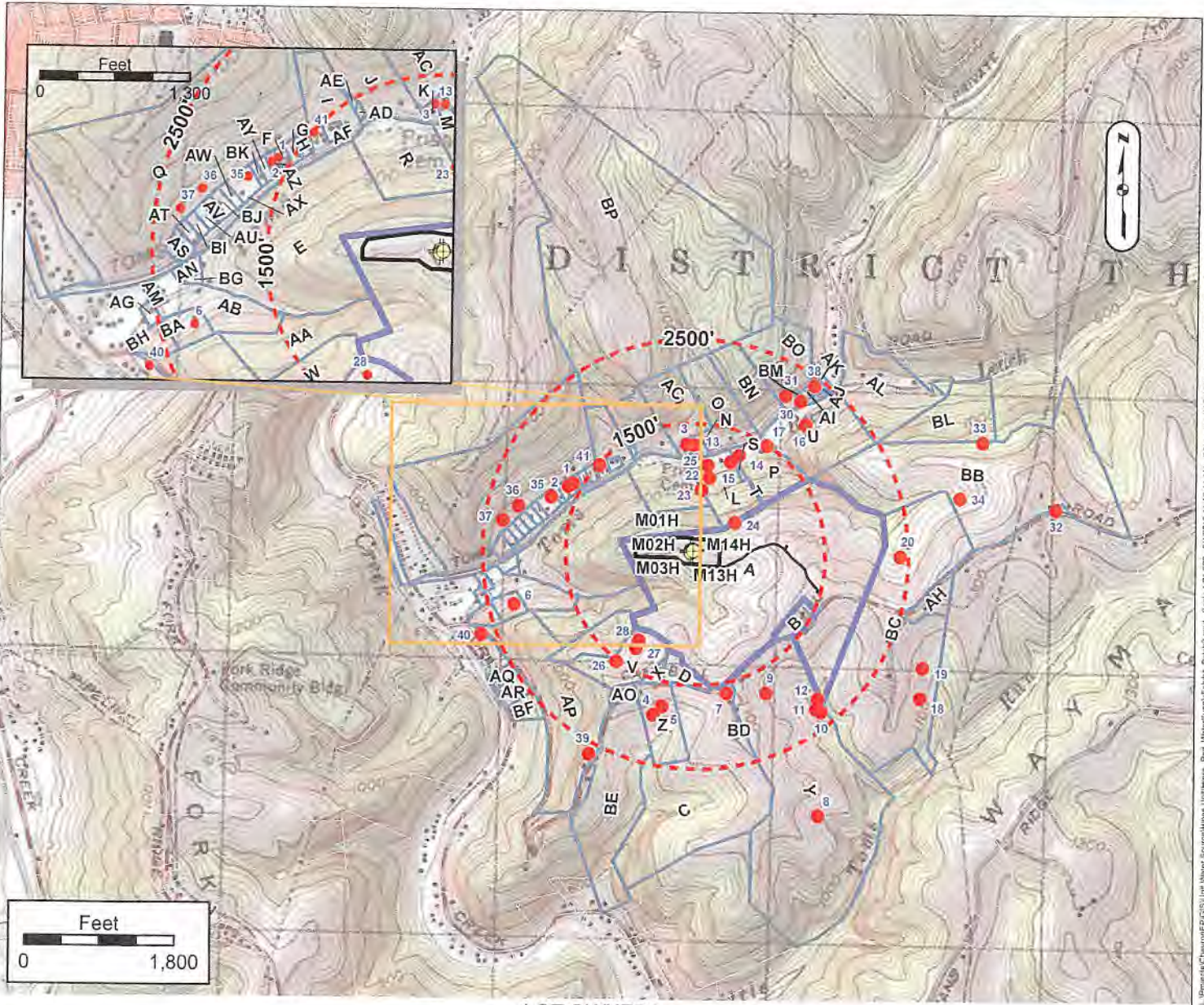
My Commission Expires September 17, 2022

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# WATER SUPPLY EXHIBIT HINES PAD BATCH #3

02/22/2019  
GES



### LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
A	HINES DONALD ET UX	25-14 12003300000000	Q	PAL CHARLES R	25-14 12002400000000	AW	YOHIO LYLE WAYNE	25-14 12000700000000	RA	PILES RONNIE E ET UX	25-14 90041000000000
B	GOODSPT JANICE FT UX	25-14 12002900000000	R	STATE OF W VA	25-14 12002900000000	AX	ROBERTS EARNEST ET UX	25-14 12003100000000	RB	WADE RUSSELL	25-14 90043000000000
C	PARSONS HENRY T ET ETAL	25-14 12001300000000	S	PITTS MEMMO JOHN F & ANGELA L	25-14 12002100000000	AY	SMITH PAUL K & BETTY-LISE	25-14 12000900000000	RC	PILES RONNIE E ET UX	25-14 90043000000000
D	WOOD CLIFTON HINES	25-14 12003000000000	T	WILTHEWARD DAVID & GATHY JO	25-14 12002000000000	AZ	ANDLINGER SANDRA SUE & CHR A	25-14 12004000000000	RD	CREW MARGARET LIFE	25-14 90047000000000
E	GOODNIGHT ARIAN N ET UX	25-14 12002500000000	U	BECKE TOWN A ST UX	25-14 12002000000000	BA	GODDINGH OSCAR J	25-14 12000500000000	RE		
F	BROWN FERRY K ET UX	25-14 12000100000000	V	LACFIELD MORGAN T	25-14 12001000000000	BB	GODDINGH OSCAR J	25-14 12000500000000	RF		
G	TRICKER JESS L & MELBA	25-14 12000100000000	W	LACFIELD MORGAN T	25-14 12001000000000	BC	BAFF DNEY T JR	25-14 12001200000000	RG		
H	YOHIO RAYMOND R	25-14 12000100000000	X	WOODS ELSIE F	25-14 12000300000000	BD	PARSONS HENRY T ET ETAL	25-14 12004500000000	RH		
I	MCCARTNEY MICHAEL FT UX	25-14 90044000000000	Y	COLLINSBERRY DOUBLAS FWARD ET	25-14 12003100000000	BE	PARSONS HENRY T JR & VIOLET	25-14 12006500000000	RI		
J	LUCAS LEONARD L ET UX	25-14 90044000000000	Z	BOSTON DONALD M ET UX	25-14 12001300000000	BF	VAN SCOEC DELBERT M FT UX	25-14 12006500000000	RJ		
K	BAKER BOBBY G ET UX	25-14 90044000000000	AA	GOODNIGHT ADRIAN N ET UX	25-14 12001500000000	BG	JENKINS MICHAEL J FT UX	25-14 12000400000000	RK		
L	WILTHEWARD DAVID ET UX	25-14 12000700000000	AB	GOODNIGHT GEORGE ET UX ESTS	25-14 12001500000000	BH	SCHNEIDER JOHN M & TALINE J	25-14 12000200000000	RL		
M	GRAN STAFF ELMER B ET UX	25-14 90044000000000	AC	LUCAS LEONARD L ET UX	25-14 90044000000000	BI	THOMAS HARRY ET UX	25-14 12000200000000	RM		
N	BAKER BRUCE W ET UX	25-14 90044000000000	AD	LUCAS LEONARD L ET UX	25-14 90044000000000	BJ	WHITELATCH DEBBIE ANN	25-14 12000200000000	RN		
O	SILVER DENALD ETAL	25-14 90044000000000	AE	LUCAS LEONARD L ET UX	25-14 90044000000000	BK	FOSTER RONNA	25-14 12000400000000	RO		
P	BROWN TORAL & JESSICA	25-14 12002800000000	AF	MCCARTNEY MICHAEL FT UX	25-14 90044000000000	BL	FOGGER NORMA	25-14 12000500000000	RP		

Surface Owner: DONALD HINES  
 Oil/Gas Owner: DONALD HINES  
 Well Operator: CHEVRON APPALACHIA, LLC  
 Address: 700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108  
 Phone: 724-564-3700

County: MARSHALL  
 Township: MOUNDSVILLE, WV  
GROUNDWATER & ENVIRONMENTAL  
 Surveyor: SERVICES, INC.  
 Address: 301 COMMERCE PARK DR  
CRANBERRY TOWNSHIP, PA 16066  
 Phone: 800-267-2549

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

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Attachment to WW-6A

API No. 47- \_\_\_\_\_ - \_\_\_\_\_

OPERATOR WELL NO. M03HWell Pad Name: Hines

- COAL OWNER OR LESSEE**  
Name: Consol Mining Company LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317
- COAL OPERATOR**  
Name: Murray Energy Corporation  
Address: 46229 National Road  
St. Clairsville, OH 43950
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: William L and Tina M Haines  
Address: 873 Toms Run Lane  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Mark Grandstaff  
Address: 762 Toms Run Road  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Edward D. Knuth  
Address: 747 Toms Run Lane  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Morgan Lacefield  
Address: 1851 Campbell Hill Road  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Tobias G & Jessica D Brown  
Address: 873 Toms Run Lane  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Raymond R Yoho  
Address: 524 Toms Run Lane  
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Bobby G Baker  
Address: 742 Toms Run Road  
Moundsville, WV 26041

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02/22/2019

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

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

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

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

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

HAND DELIVERY  CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**Notice is hereby given:**

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

State: West Virginia UTM NAD 83 Easting: 525699,12  
County: Marshall Northing: 4417400,72  
District: Washington Public Road Access: Route 38/Campbell Hill Road  
Quadrangle: Moundsville, WV 7.5' Generally used farm name: Hines  
Watershed: Middle Grave Creek/Grave Creek

**This Notice Shall Include:**

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

**Notice is hereby given by:**

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

Authorized Representative: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Email: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

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

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

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

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

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND 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 Hines  
Address: 301 4th Street  
Glen Dale, WV 26038

Name: Consol Mining Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>525699,12</u>
County:	<u>Marshall</u>		Northing:	<u>4417400,72</u>
District:	<u>Washington</u>	Public Road Access:	<u>Route 38/Campbell Hill Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hines</u>	
Watershed:	<u>Middle Grave Creek/Grave Creek</u>			

This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

DEC 18 2018

WV Department of Environmental Protection

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

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>525699,12</u>
County:	<u>Marshall</u>		Northing:	<u>4417400,72</u>
District:	<u>Washington</u>	Public Road Access:	<u>Route 38/Campbell Hill Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hines</u>	
Watershed:	<u>Middle Grave Creek/Grave Creek</u>			

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

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

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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](mailto:depprivacyofficer@wv.gov).

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

**Instructions to Persons Named on Page WW-6A**

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**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>525699,12</u>
County:	<u>Marshall</u>		Northing:	<u>4417400,72</u>
District:	<u>Washington</u>	Public Road Access:	<u>Route 38/Campbell Hill Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hines</u>	
Watershed:	<u>Middle Grave Creek/Grave Creek</u>			

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: <u>Raymond Paul Yoho</u></p> <p>Print Name: <u>RAYMOND PAUL YOH0</u></p> <p>Date: <u>11-14-18</u></p>
	<p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>

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WW-6AW  
(1-12)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_ **02/22/2019**  
OPERATOR WELL NO. M03H  
Well Pad Name: Hines Pad A

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

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>525699.117</u>
County:	<u>Marshall</u>		Northing:	<u>4417400.719</u>
District:	<u>Washington</u>	Public Road Access:	<u>Campbell Hill Road</u>	
Quadrangle:	<u>Moundsville 7.5'</u>	Generally used farm name:	<u>Hines</u>	
Watershed:	<u>Upper Ohio-Beaver</u>			

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p style="text-align: center;"><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p style="text-align: center;"><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: <u>Consolidation Coal Company</u></p> <p>By: <u>Mason Smith</u></p> <p>Its: <u>Coal, Oil and Gas Relations Manager</u></p> <p>Signature: <u><i>Mason Smith</i></u></p> <p>Date: <u>08/23/2018</u></p> <div style="text-align: right; border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> RECEIVED Office of Oil and Gas DEC 18 2018 WV Department of Environmental Protection </div>
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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](mailto:depprivacyofficer@wv.gov).



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

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

Jill M. Newman  
Deputy Commissioner

November 1, 2018

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

Subject: DOH Permit for the Hines Pad A Well Site, Marshall County  
Hines A Unit M03H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2017-0073 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 38 SLS.

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

Very Truly Yours,

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

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

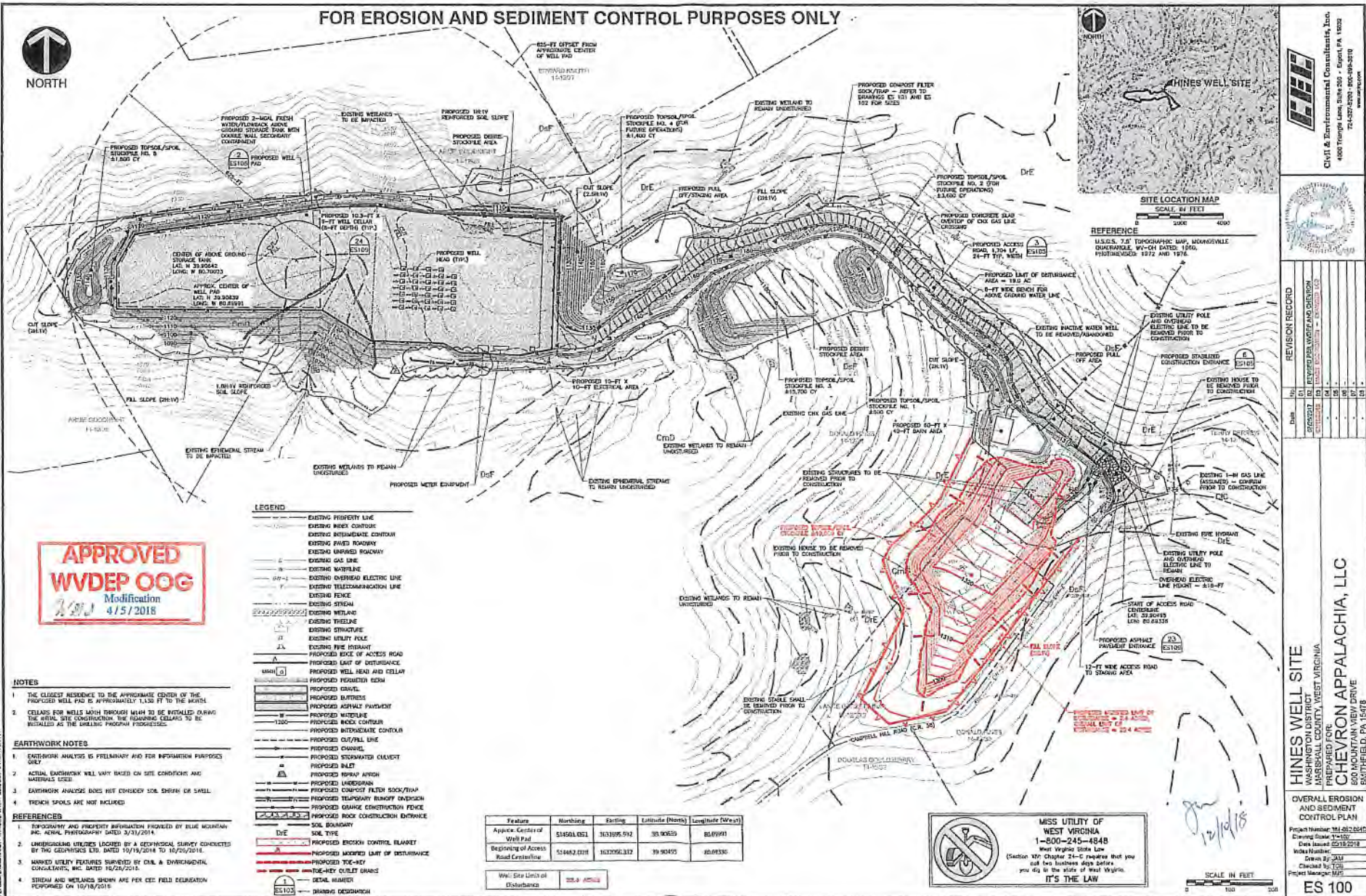
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Environmental Protection

## 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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WV Department of  
Environmental Protection

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



REFERENCE  
U.S.G.S. 7.5' TOPOGRAPHIC MAP, HARRISVILLE QUADRANGLE, WV-04 DATED 1986, PHOTOGRAPHED 1972 AND 1976.

**Civil & Environmental Consultants, Inc.**  
4800 Triangle Lane, Suite 200 - Export, PA 15622  
724-666-0000  
www.civilandenvironmental.com



DATE	BY	DESCRIPTION
12/10/18	ES/100	ISSUED FOR PERMITS

**HINES WELL SITE**  
WASHINGTON DISTRICT  
HARRISVILLE QUADRANGLE  
PREPARED FOR  
**CHEVRON APPALACHIA, LLC**  
800 MOUNTAIN VIEW DRIVE  
SOUTHFIELD, PA 15418

OVERALL EROSION AND SEDIMENT CONTROL PLAN  
Project Number: W-02-000  
Drawing Scale: 1"=100'  
Date Issued: 12/10/2018  
Notes Number:  
Drawn By: JMS  
Checked By: TJS  
Project Manager: MJS

**ES 100**

**APPROVED WVDEP OOG**  
Modification  
12/10/18  
4/15/2018

- LEGEND**
- EXISTING PROPERTY LINE
  - EXISTING INDEX CONTOUR
  - EXISTING DISTURBANCE CONTOUR
  - EXISTING PAVED ROADWAY
  - EXISTING UNPAVED ROADWAY
  - EXISTING GAS LINE
  - EXISTING WATERLINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING TELECOMMUNICATION LINE
  - EXISTING FENCE
  - EXISTING STREAM
  - EXISTING WETLAND
  - EXISTING THREELINE
  - EXISTING STRUCTURE
  - EXISTING UTILITY POLE
  - EXISTING FIRE HYDRANT
  - PROPOSED EDGE OF ACCESS ROAD
  - PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED WELL HEAD AND CELLAR
  - PROPOSED FOUNDATION
  - PROPOSED DRIVEWAY
  - PROPOSED BUTTRESS
  - PROPOSED ASPHALT PAVEMENT
  - PROPOSED WATERLINE
  - PROPOSED ROCK CONTOUR
  - PROPOSED INTERMEDIATE CONTOUR
  - PROPOSED CUT/FILL LINE
  - PROPOSED CHANNEL
  - PROPOSED STORMWATER CULVERT
  - PROPOSED INLET
  - PROPOSED MANHOLE APRON
  - PROPOSED UNDERDRAIN
  - PROPOSED COMPOST FILTER SOCK/TROP
  - PROPOSED TEMPORARY RUNOFF DIVERSION
  - PROPOSED GABION CONSTRUCTION FENCE
  - PROPOSED ROCK CONSTRUCTION ENTRANCE
  - SOIL BOUNDARY
  - D/E
  - PROPOSED EROSION CONTROL BLANKET
  - PROPOSED GABION CONSTRUCTION FENCE
  - PROPOSED ROCK CONSTRUCTION ENTRANCE
  - TOE-KEY
  - TOE-KEY CULVERT DRAINS
  - DETAIL MARKER
  - DRAINAGE DESIGNATION

Feature	Northing	Easting	Latitude (North)	Longitude (West)
Approx. Center of Well Pad	514561.051	163309.912	39.90620	81.07991
Beginning of Access Road Centerline	514462.038	163206.372	39.90405	81.07636

Well Site Limit of Disturbance: 25.4 AC

**MISS UTILITY OF WEST VIRGINIA**  
1-800-245-4848  
West Virginia State Law  
Chapter 24-2 requires that you call two business days before you dig in the state of West Virginia.  
**IT'S THE LAW**

- NOTES**
- THE CLOSEST RESIDENCE TO THE APPROXIMATE CENTER OF THE PROPOSED WELL PAD IS APPROXIMATELY 1,130 FT TO THE NORTH.
  - CELLARS FOR WELLS BOTH THROUGH MELH TO BE INSTALLED DURING THE WELLS SITE CONSTRUCTION. THE REMAINING CELLARS TO BE INSTALLED AS THE WELLS PROGRAM PROGRESSES.
- EARTHWORK NOTES**
- EARTHWORK ANALYSIS IS PRELIMINARY AND FOR INFORMATION PURPOSES ONLY.
  - ACTUAL EARTHWORK WILL VARY BASED ON SITE CONDITIONS AND MATERIALS USED.
  - EARTHWORK ANALYSIS DOES NOT CONSIDER SOIL SHrink OR SWELL.
  - TRENCH SHOULDS ARE NOT INCLUDED.
- REFERENCES**
- TOPOGRAPHY AND PROPERTY INFORMATION PROVIDED BY BLUE MOUNTAIN INC. AERIAL PHOTOGRAPHY DATED 3/7/2014.
  - UNDERLYING UTILITIES LOCATED BY A GEOTECHNICAL SURVEY CONDUCTED BY THE GEOTECHNICALS LTD. DATED 10/19/2014 TO 10/20/2014.
  - MARKED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/20/2018.
  - STREAM AND WETLANDS SHOWN ARE PER CEC FIELD EVALUATION PERFORMED ON 10/18/2018.

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Office of Oil and Gas  
DEC 18 2018  
WV Department of  
Environmental Protection

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



NORTH

**APPROVED**  
**WV DEP OOG**  
 Modification  
*WJG*  
 4/15/2018

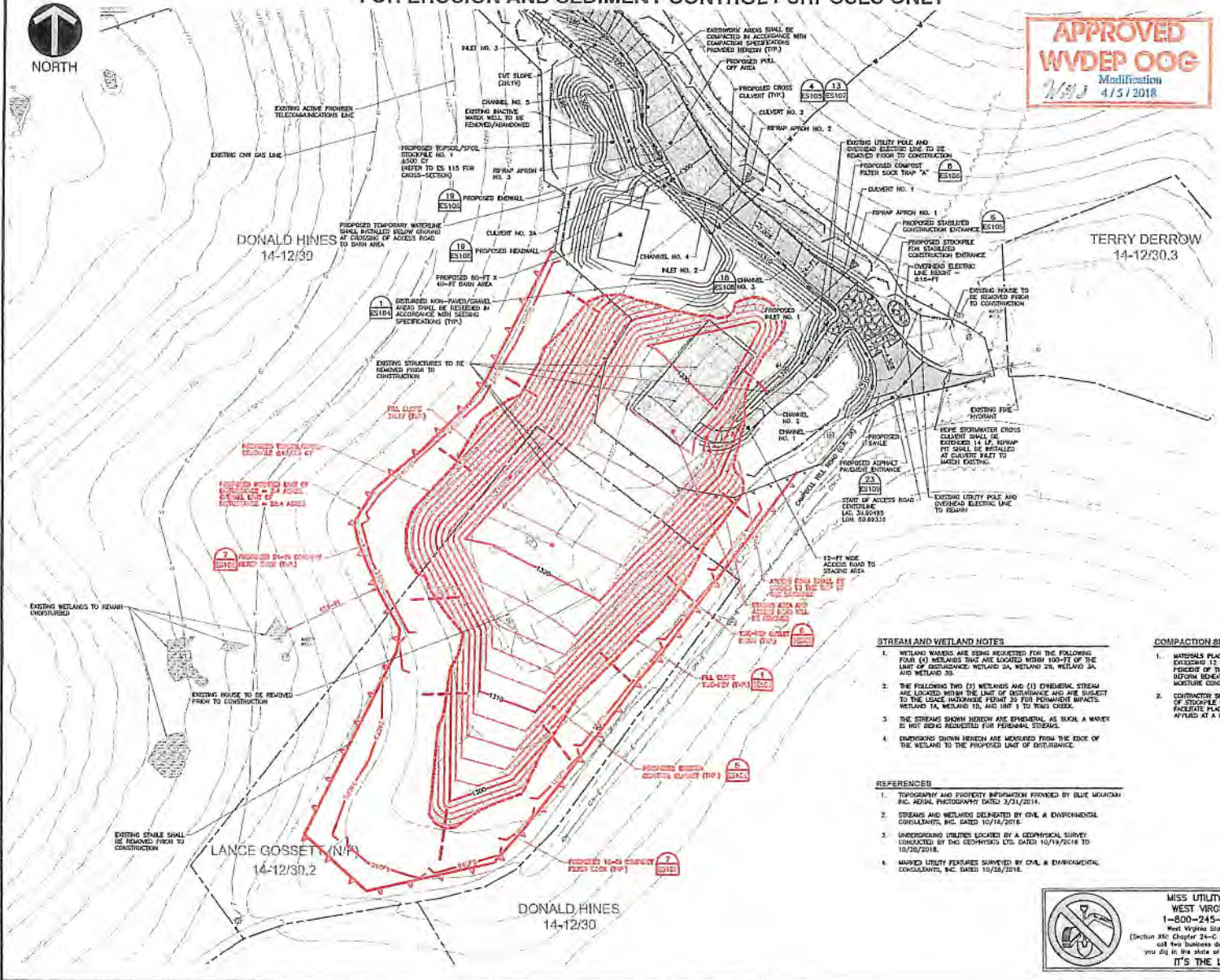
- LEGEND**
- - - - - EXISTING PROPERTY LINE
  - - - - - EXISTING BANK CONTOUR
  - - - - - EXISTING INTENSIFICATION CONTOUR
  - - - - - EXISTING PAVED ROADWAY
  - - - - - EXISTING IMPAVED ROADWAY
  - - - - - EXISTING GAS LINE
  - - - - - EXISTING WATERLINE
  - - - - - EXISTING OVERHEAD ELECTRIC LINE
  - - - - - EXISTING TELECOMMUNICATION LINE
  - - - - - EXISTING FENCE
  - - - - - EXISTING STREAM
  - - - - - EXISTING WETLAND
  - - - - - EXISTING TREELINE
  - - - - - EXISTING STRUCTURE
  - - - - - EXISTING UTILITY POLE
  - - - - - EXISTING FINE WETLAND
  - - - - - PROPOSED EDGE OF ACCESS ROAD
  - - - - - PROPOSED LIMIT OF DISTURBANCE
  - - - - - PROPOSED WELL HEAD AND CELLAR
  - - - - - PROPOSED PERMANENT BANK
  - - - - - PROPOSED GRAVEL
  - - - - - PROPOSED BATTERIES
  - - - - - PROPOSED ASPHALT PAVEMENT
  - - - - - PROPOSED WATERLINE
  - - - - - PROPOSED BANK CONTOUR
  - - - - - PROPOSED INFORMATION CONTOUR
  - - - - - PROPOSED CENTERLINE
  - - - - - PROPOSED SPOT ELEVATION
  - - - - - PROPOSED CHANNEL
  - - - - - PROPOSED STORMWATER CULVERT
  - - - - - PROPOSED INLET
  - - - - - PROPOSED REPAIR APRON
  - - - - - PROPOSED UNDERDRAIN
  - - - - - PROPOSED COMPOST FILTER SOCK TRAP
  - - - - - PROPOSED 18-IN COMPOST FILTER SOCK
  - - - - - PROPOSED 24-IN COMPOST FILTER SOCK
  - - - - - PROPOSED 33-IN COMPOST FILTER SOCK
  - - - - - PROPOSED TEMPORARY RAINFALL EROSION CONTROL
  - - - - - PROPOSED ORANGE CONSTRUCTION FENCE
  - - - - - PROPOSED ROCK CONSTRUCTION ENTRANCE
  - - - - - PROPOSED INLET PROTECTION
  - - - - - PROPOSED EROSION CONTROL BLANKET
  - - - - - PROPOSED MODIFIED LIMIT OF DISTURBANCE
  - - - - - PROPOSED TIE-IN
  - - - - - TIE-IN/OUTLET DRAINS
  - - - - - DETAIL NUMBER
  - - - - - DRAWING DESCRIPTION

Civil & Environmental Consultants, Inc.  
 4805 Tangle Lane, Suite 200 - Export, PA 15622  
 Tel: 724-283-9999  
 Fax: 724-283-9999



**REVISION RECORD**

NO.	DATE	DESCRIPTION
1	10/10/17	ISSUE FOR PERMITS
2	10/10/17	ISSUE FOR PERMITS
3	10/10/17	ISSUE FOR PERMITS
4	10/10/17	ISSUE FOR PERMITS
5	10/10/17	ISSUE FOR PERMITS
6	10/10/17	ISSUE FOR PERMITS
7	10/10/17	ISSUE FOR PERMITS
8	10/10/17	ISSUE FOR PERMITS
9	10/10/17	ISSUE FOR PERMITS
10	10/10/17	ISSUE FOR PERMITS
11	10/10/17	ISSUE FOR PERMITS
12	10/10/17	ISSUE FOR PERMITS
13	10/10/17	ISSUE FOR PERMITS
14	10/10/17	ISSUE FOR PERMITS
15	10/10/17	ISSUE FOR PERMITS
16	10/10/17	ISSUE FOR PERMITS
17	10/10/17	ISSUE FOR PERMITS
18	10/10/17	ISSUE FOR PERMITS
19	10/10/17	ISSUE FOR PERMITS
20	10/10/17	ISSUE FOR PERMITS



DONALD HINES  
 14-12/30

TERRY DERROW  
 14-12/30.3

LANCE GOSSETT, N/A  
 14-12/30.2

DONALD HINES  
 14-12/30

**STREAM AND WETLAND NOTES**

1. WETLAND WATERS ARE BEING REQUESTED FOR THE FOLLOWING: FOUR (4) WETLANDS THAT ARE LOCATED WITHIN 150-FT OF THE LIMIT OF DISTURBANCE; WETLAND 2A, WETLAND 2B, WETLAND 2A, AND WETLAND 3B.
2. THE FOLLOWING TWO (2) WETLANDS AND (1) Ephemeral Stream ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE LOCAL WETLANDS PERMIT FOR PERMANENT IMPACTS; WETLAND 1A, WETLAND 1B, AND INT 1 TO TRAIL CREEK.
3. THE STREAMS SHOWN HEREON ARE Ephemeral AS SUCH A WAIVER IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
4. DIMENSIONS SHOWN HEREON ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

**COMPACTION SPECIFICATIONS**

1. MATERIALS PLACED IN THE PERMANENT SWALE PILES SHALL BE PLACED IN LIFTS NOT EXCEEDING 12 INCHES THICK, SHALL NOT BE EXCEEDED-WET ETC., WITHIN 5 PERCENT OF THE OPTIMAL MOISTURE CONTENT, AND SHALL NOT EXCEED 95 PERCENT UNIFORM BEHAVIOR THE HEIGHT OF CONSTRUCTION EQUIPMENT DURING PLACEMENT. MOISTURE CORRECTIONS OF SPILL MATERIALS MAY BE NECESSARY.
2. CONTRACTOR SHOULD ASSUME FOR PLACING PURPOSES APPROXIMATELY 50 PERCENT OF STOCKPILE MATERIAL WILL BE USED, OR TREATED WITH LIME OR CEMENT TO FACILITATE PLACEMENT. CONTRACTOR SHOULD ASSUME LIME OR CEMENT SHALL BE APPLIED AT A RATE OF 5 PERCENT BY WEIGHT.

**REFERENCES**

1. TOPOGRAPHY AND PROPERTY INFORMATION PROVIDED BY BLUE MOUNTAIN INC. ASHIN, PHOTOGRAPHY DATED 3/31/2014.
2. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/16/2016.
3. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE GEOPHYSICAL LTD. DATED 10/19/2016 TO 10/20/2016.
4. MARKED UTILITY FEATURES SURVEYED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/20/2016.

MISS UTILITY OF  
 WEST VIRGINIA  
 1-800-245-4848  
 West Virginia State Law  
 (Section 20-2 Chapter 24-C requires that you  
 call two business days before  
 you dig in the state of West Virginia.)  
**IT'S THE LAW**

HINES WELL SITE  
 WASHINGTON DISTRICT  
 MARSHALL COUNTY, WEST VIRGINIA  
 PREPARED FOR  
**CHEVRON APPALACHIA, LLC**  
 800 MOUNTAIN VIEW DRIVE  
 SARTFIELD, PA 15428

MAJOR MOD. EROSION  
 AND SEDIMENT  
 CONTROL PLAN

Project Number: 174-021-050  
 Drawing Scale: 1"=50'  
 Date Issued: 10/10/17  
 Issue Number:  
 Drawn By: JWH  
 Checked By: JWH  
 Project Manager: TCB

ES 101A

RECEIVED  
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**DEC 18 2018**  
 WV Department of  
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