

west virginia department of environmental protection

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

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

Wednesday, April 4, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Permit approval for HICKS M20H Re: 47-051-01996-00-00

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: HICKS M20H

Farm Name: THOMAS E. HICKS U.S. WELL NUMBER: 47-051-01996-00-00

Horizontal 6A New Drill Date Issued: 4/4/2018

API Number:	
Ari Number:	

PERMIT CONDITIONS

4705101996

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

CONDITIONS

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

API Number: ____

PERMIT CONDITIONS

4705 i 01996

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



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street Charleston, WV 25304 (304) 926-0450 fax (304) 926-0452 Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Chevron Appalachia, LLC P.O. Box 611 Moon Township, PA 15108

DATE: February 22, 2017 ORDER NO.: 2017-W-4

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to Chevron Appalachia, LLC (hereinafter "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- 2. Chevron Appalachia, LLC is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 611, Moon Township, Pennsylvania.
- 3. On December 1, 2016, Chevron Appalachia, LLC submitted well work permit applications identified as API#s 47-051-01897, 47-051-01898, 47-051-01899, 47-051-01900, 47-051-01901, 47-051-01902 and 47-051-01913. The proposed wells are to be located on the Hicks Pad in Clay District of Marshall County, West Virginia.
- 4. On December 1, 2016, Chevron Appalachia, LLC requested a waiver for Wetland W-02 outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-01897, 47-051-01898, 47-051-01909, 47-051-01901, 47-051-01902 and 47-051-01913.

CONCLUSIONS OF LAW

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

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland W-02 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-01897, 47-051-01898, 47-051-01899, 47-051-01900, 47-051-01901, 47-051-01902 and 47-051-01913. The Office of Oil and Gas hereby **ORDERS** that Chevron Appalachia, LLC shall meet the following site construction and operational requirements for the Hicks Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland W-02 shall have two layers of thirty-inch (30") silt fence to prevent any sediment from reaching the wetland or stream from the well pad and adjacent tank pad. Orange construction fence also delineates the LOD boundary near the wetland to minimize the change of disturbance.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 22nd day of February, 2017.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

Order No. 2017-W-4

Page 4

4705101996

11/3/14
Wetland and Perennial Stream Waiver Request

Well Operator: Chevron Appalacia, LLC

Well Number:

C	perator's Well Number: _		•	
Well Pad Name	Hicks Well Site	 		-

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

County, District, Quadrangle of Well Location: Marshall County, Clay District, Moundsville & Glen Easton, WV

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

11/3/14
Wetland and Perennial Stream Waiver Request

API Number:	
Operator's Well Number:	

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The project site consists of forest and meadow with an existing road. The proposed alterations to the project area include clearing approximately 0.1 acres of forest, construction of a combined well pad and tank pad, the improvement of existing private road and the construction of new access road for natural gas operations. The proposed development will disturb approximately 27.4 acres. The waiver is sought for wetland W-02, for which the buffer between the wetland and the limit of disturbance (LOD) is 14 feet. No perennial streams are located within the project area. Please refer to the Erosion and Sediment Control Drawings for the location of wetland W-02.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.
 - a. Include a No-Action Alternative as to show "the future without the project"
 - b. Location Alternatives must be shown
 - c. Must demonstrate why a one hundred foot buffer cannot be maintained
 - d. Describe how the proposed project is the least environmentally damaging practicable alternative

A. The No-Action Alternative for this site would involve the construction of four additional pad sites to access the natural gas resources that will be covered by the Hick's Site. The construction of the four alternate locations would cause a greater disturbance to the surrounding environment and region.

- B. Chevron investigated several alternate locations in conjunction with the Hick's site. The Hick's Well site was designed to combine all of three separate locations and a portion of a fourth location into one pad site. By combining these alternate sites, the total disturbance to the existing land, forested areas and other critical natural resources has been minimized.
- C. Due to the surrounding topography and site conditions, maintaining a 100 foot buffer between the limit of disturbance and wetland W-02 is not viable.
- D. The Hick's Well site was designed to utilize the topography of the site in the most practical and efficient manner. Temporary soil stock piles were placed to minimize the overall disturbance to the site. Alternate locations would increase disturbed area and expand the overall limit of disturbance. The proposed stockpile locations minimize the surface area of the stockpile, thus minimizing the disturbed area. Additional E&S controls will be implemented to protect the wetland from adverse impacts.

11/3/14
Wetland and Perennial Stream Waiver Request

API Number:	
Operator's Well Number:	

 Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

Temporary erosion and sediment control measures including, erosion control blanket, rock filters, riprap aprons, channels, silt fence, a sediment basin, stone construction entrances, mountable berms and temporary seeding and mulching will be used to protect the waters of the state.

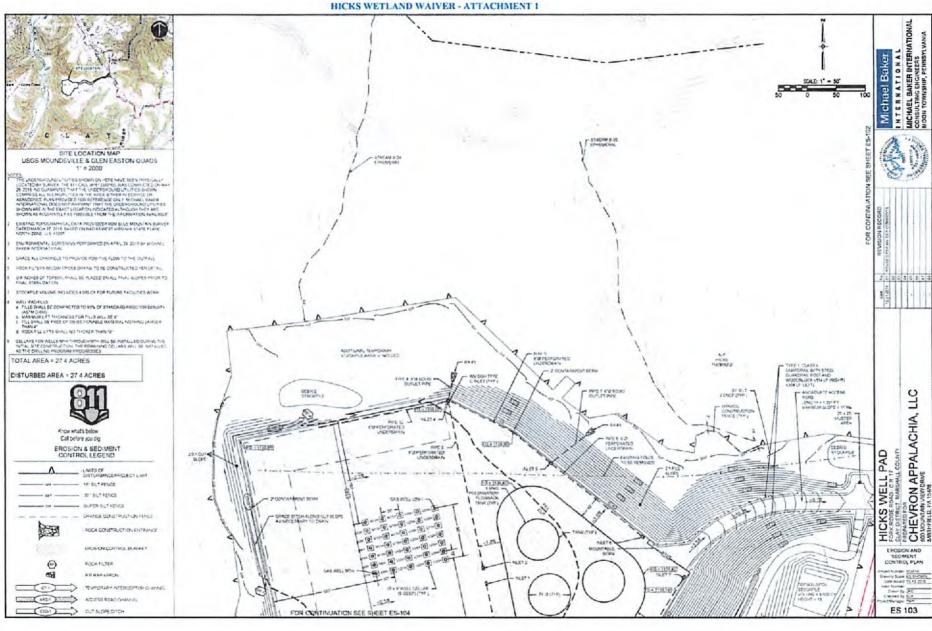
Permanent erosion control measures include permanent seeding and mulching and aggregate surfacing. Any areas that are not permanently stabilized with aggregate will be seeded and mulched according to the seeding specifications. Temporary erosion and sediment control measures will remain in place until the site has reached a uniform 70% perennial vegetative cover on all disturbed areas.

Additional details, including maintenance guidelines, have been included on the attached Erosion and Sediment Control Plan. The contractor(s) will be responsible for inspecting and maintaining all temporary and permanent erosion and sediment control best management practices.

- Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
 - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

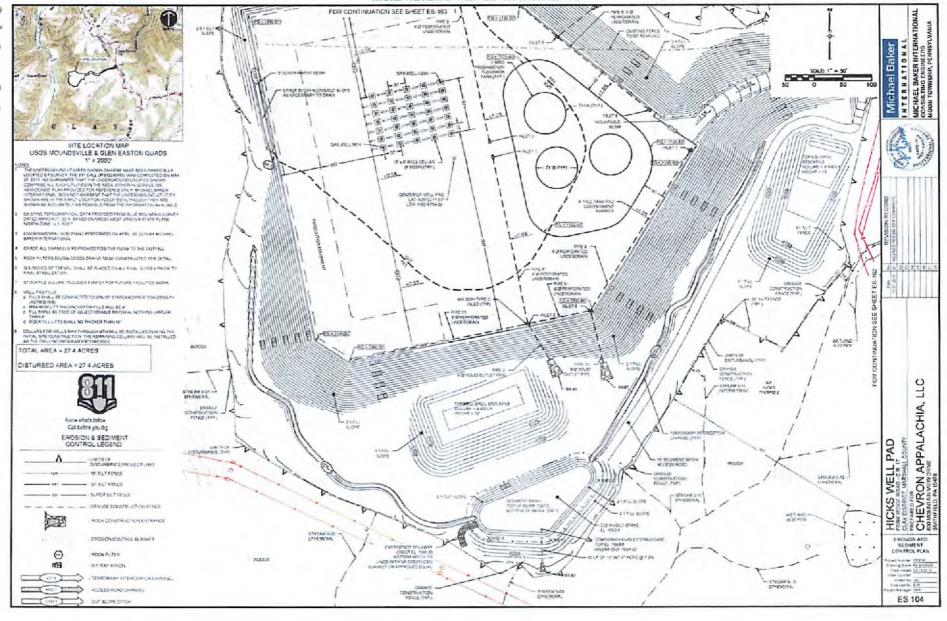
All erosion and sediment control features have been designed and shall be installed in accordance with the 2006 West Virginia Erosion and Sediment Control Best Management Practice Manual and the West Virginia Erosion and Sediment Control Field Manual (dated 2012).

A double layer of 30" silt fence will be installed as additional protection between the disturbed area and wetland W-02.



Spe

HICKS WETLAND WAIVER - ATTACHMENT I



WW-6B (04/15)

API NO. 47-051	
OPERATOR WELL NO. M20H	
Well Pad Name: Hicks	

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

1) Well Operator:	Chevron Ap	palachia, LLC	49449935	Marshall	Clay	Glen Easton 7.5'
-			Operator ID	County	District	Quadrangle
2) Operator's Wel	ll Number: M2	20H	Well Pad	Name: Hicks		
3) Farm Name/Su	rface Owner:	Thomas E Hicks	Public Road	d Access: Fork	Ridge Rd	/WV-17
4) Elevation, curre	ent ground:	1161.57 El	evation, proposed p	oost-construction	n: 1140	
5) Well Type (a) Gas X	Oil	Unde	rground Storag	e	
O	ther					
(b	•	llow X	Deep			
6) Eviatina Dade V		izontal X				
6) Existing Pad: Y7) Proposed Targe Marcellus, 6,362	et Formation(s)	, Depth(s), Antic	ipated Thickness ar	nd Expected Pr	essure(s):	
8) Proposed Total	Vertical Depth	n: 6,366				
9) Formation at To	otal Vertical D	epth: Marcellus				
10) Proposed Tota	al Measured De	epth: 21,149			<u>.</u>	·
11) Proposed Hori	izontal Leg Le	ngth: 13,695				
12) Approximate	Fresh Water St	trata Depths:	430'			
13) Method to De	termine Fresh	Water Depths: 1	' mile radius sear	ch around pac	location	
14) Approximate	Saltwater Dept	ths: 1147', 1751'	, 2112'			
15) Approximate	Coal Seam Dep	oths: 398', 678'				
16) Approximate	Depth to Possi	ble Void (coal mi	ne, karst, other): 1	lone		
17) Does Proposed directly overlying			ns Yes	No	<u>x</u>	
(a) If Yes, provide	de Mine Info:	Name:				
		Depth:				RECEIVED
		Seam:		<u> </u>	Offic	e of Oil and Gas
		Owner:		<u>.</u>		APR 2 2018

WV Department of Environmental Protection

Page 1 of 3 04/6/2018

API NO. 47-4617	0	5	1	0	1	9	9	6
-----------------	---	---	---	---	---	---	---	---

OPERATOR WELL NO. M20H
Well Pad Name: Hicks

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	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	480	480	CTS
Coal							
Intermediate	9.625	New	L-80	40	2,024	2,024	CTS
Production	5.50	New	P110	20	21,149	21,149	2,524' (500' below
Tubing							9.625" shoe)
Liners							

Ju/2/17

ТҮРЕ	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	26					
Fresh Water	13.375	17.5	0.38	2,730	1911	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5,750	2768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14,360	9975	Class A,G or H	1.25
Tubing							
Liners							

PACKERS

RECEIVED Office of Oil and Gas

DEC 0 6 2017

WV Department of Environmental Protection

WW-6B	
(10/14)	

API NO. 47-054 7 0 5 1 0 1 9 9 6 OPERATOR WELL NO. M20H

Well Pad Name: Hicks

11/3/17

19)	Describe propos	sed well wor	k, including the	drilling and p	olugging bac	ck of any pilot hole:
-----	-----------------	--------------	------------------	----------------	--------------	-----------------------

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,366 feet. Drill horizontal leg.

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

Slickwater completion with 200' stage length, 1750 lbs/ft proppant (max anticipated rate/pressure will be 115 bpm/9900 psi, respectively)

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 27.4
- 22) Area to be disturbed for well pad only, less access road (acres): 19.7
- 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% CaC12, and flake. The intermediate will contain Class A cement, 3% CaC12, Salt and flake. The Production cement will have a lead and tail cement. The lead will contain Class A, G or H cement, KCl, dispersant, suspension agent, and retarder. the tail will contain Class A, G or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent and friction reducer.

25) Proposed borehole conditioning procedures:

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

Office of Oil and Gas

DEC 0 6 2017

WV Department of

*Note: Attach additional sheets as needed.

Environmental Protection

Hicks Marcellus - Cement Additives

Attachment WW-6B

For the Water String the blend will contain Class A cement, 3% CaC12, and flake.

The intermediate will contain Class A cement, 3% CaC12, and flake.

The Production cement will have a lead and tail cement.

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

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

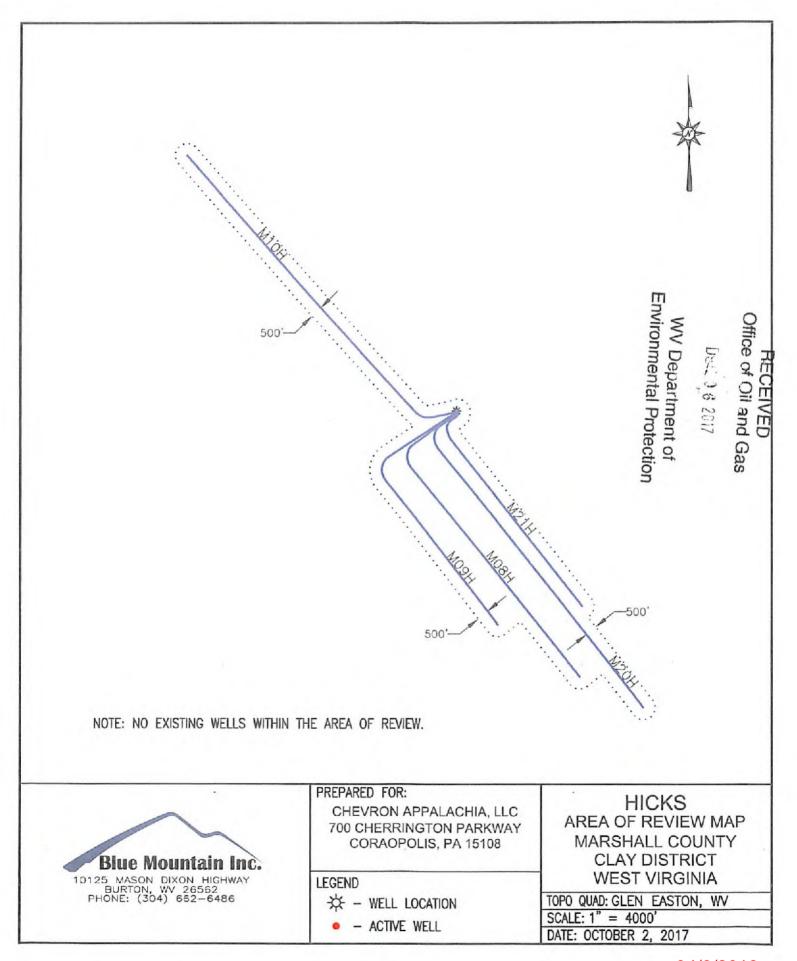
RECEIVED
Office of Oil and Gas

DEC. 0 8 2017

WV Department of Environmental Protection

Ola + 21				Hic	ks M20)H		
Clay Twp, Marshall Co,	WV						Ground Level Elev. (ft above SL):	1,138
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION		WELLH		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger		20" Conductor		o INC	The state of the s	26	Conductor 20" API 5L Minimum 40 ft from GL o	Grout to Surface
	How Spring: (1) on shoe track w/slop, colar & (1) per if over coupling to surface	E ONINGKO				20	Surface Casing 13-3/8" 54.5# J-55 BTC 0,380" Wall Coupling OD (in) 14 IO (in) 12 Drift ID (in) 12 Burs (psi) 2 Collapse (psi) 1,	Surface Blend (Class A) Cement to Surface 375 615 459 730 130 53
	Bow Spring:	13-3/6" Casing	480 4	30		17.5	Intermediate Casing	pest known fresh water Intermediate II Blend (Class A)
	(1) on shoe track w/ stop corlar & (1) per 3 its over coupling						ID (in) 88 Drift ID (in) 88 Burst (psi) 5, Collapse (psi) 3,	Gement to Surface 625 635 779 750 880
	Bow Spring: (1) per every other it over coupling SpiraGlider or Centek; (1) per it of dag to KOP	9-5/6* Casing	2,024 2,0	24		375 - 2.25	ID (in) 4.	Production Load Slurry Cement to 500' below 9-5/8" shoe
							Collapse (psi) 12,	360 090 29
							M 11/3/17	<u>Production Tail Sturry</u> TOC minimum 200 above Marcellus
Non-Conservation	Float Equip. (2) Jits of Cag Float Equip.	5-1/2" Casing	21,149			.75 - 8.5		RECEIVED of Oil and Ga

DEC, 0, 6 2017



Operator's Well No. Hicks M20H

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 Glen Easton, 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 from KOP to TMD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological control	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number? Arden Landfill #100172; South Hills Landfill #100592; Short C	reek Landfill #WW0109517
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associa West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the perm where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PC on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prot provisions of the permit are enforceable by law. Violations of any term or condition of the general pelaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the imapplication form and all attachments thereto and that, based on my inquiry of those individuals i obtaining the information, I believe that the information is true, accurate, and complete. I am awa penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	ection. I understand that the ermit and/or other applicable formation submitted on this immediately responsible for
Company Official (Typed Name) Jenny Hayes	
Company Official Title Permitting Team Lead	DEC, 0.6 2017
Company Official Title 1 official 2000	WV Department of
3011	Environmental Protection
	COMMONWEALTH OF PENNSYLVANIA
Suly 7, 2017 Koyina Joque Notary Public	NOTARIAL SEAL Regina Logue, Notary Public New Sewickley Twp., Beaver Count
My commission expires 7/7/18	My Commission Expires July 7, 2: MEMBER, PENNSYLVANIA ASSOCIATION OF NO. AND ASSOCIATION OF NO. AND ASSOCIATION OF NO.

Operator's Well No. Hicks M20H

	nt: Acres Disturbed +1-4 acre	Prevegetation pH	Per soils testing report
Lime 3	Tons/acre or to correct to pH	unless otherwise noted in soils report	
Fertilizer type _10-20-	20		
Fertilizer amount 300	<u>lb</u> :	s/acre	
Mulch_3	Tons/a	cre	
	Seed	l Mixtures	
Temp	orary	Perman	ient
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	50	Non Aricultural Upland and Hayfield	l, Pastureland and Cropland
Winter Wheat	75	Tall Fescue 100, Orchard Grass 8	0, Perennial Ryegrass 33
		Timothy 80, Ladino Clover 1	8, Birdsfoot-Trefoil 20
		Birdsfoot-Trefoil 18, Ladino	Clover 20, Red Top 6
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application a	will be land applied, include dir area.	ation (unless engineered plans including the mensions (L \times W \times D) of the pit, and	ing this info have been dimensions (L x W), and
provided). If water from the pit acreage, of the land application a	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including mensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved	will be land applied, include dir area.	ation (unless engineered plans including the pit, and the	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including the pit, and the	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved Plan Approved by:	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including the pit, and the	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved Plan Approved by:	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including the pit, and the	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved Plan Approved by:	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including the pit, and the	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved Plan Approved by:	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including mensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved Plan Approved by:	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans includencesions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved Plan Approved by:	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including mensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of involved Plan Approved by:	will be land applied, include dirarea. 7.5' topographic sheet.	ation (unless engineered plans including mensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of the land ap	will be land applied, include dirarea. 7.5' topographic sheet. Clarketes	mensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pit an provided). If water from the pit acreage, of the land application application of the land ap	will be land applied, include dirarea. 7.5' topographic sheet. Clarketes	Date: 11/3/17	ing this info have been dimensions (L x W), and

DEC_0 6 2017

WV Department of Environmental Protection



Chevron

Appalachian LLC
WV Well Site Safety Plan

Pad: Hicks Pad A Well # M20H

01/3/17

271 Arbor Lane
Moundsville, WV 26041
Clay District
Marshall County, WV

Access Point – [39.872100°N, 80.711825°W] Well Site – [39.871558°N, 80.717794°W] Marshall County, West Virginia

RECEIVED
Office of Oll and Gas

DEC. 0.8 2017

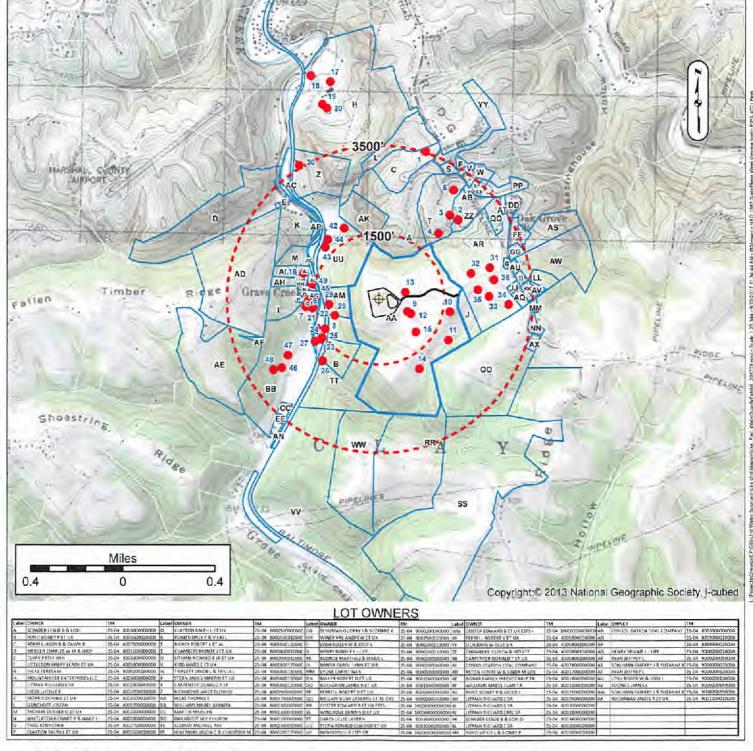
WV Department of Environmental Protection



WATER SUPPLY EXHIBIT HICKS PAD

4705101995





Surface Owner: THOMAS E. HICKS

Oil/Gas Owner: THOMAS E. HICKS

Well Operator: CHEVRON APPALACHIA, LLC

Address: 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

County: MARSHALL

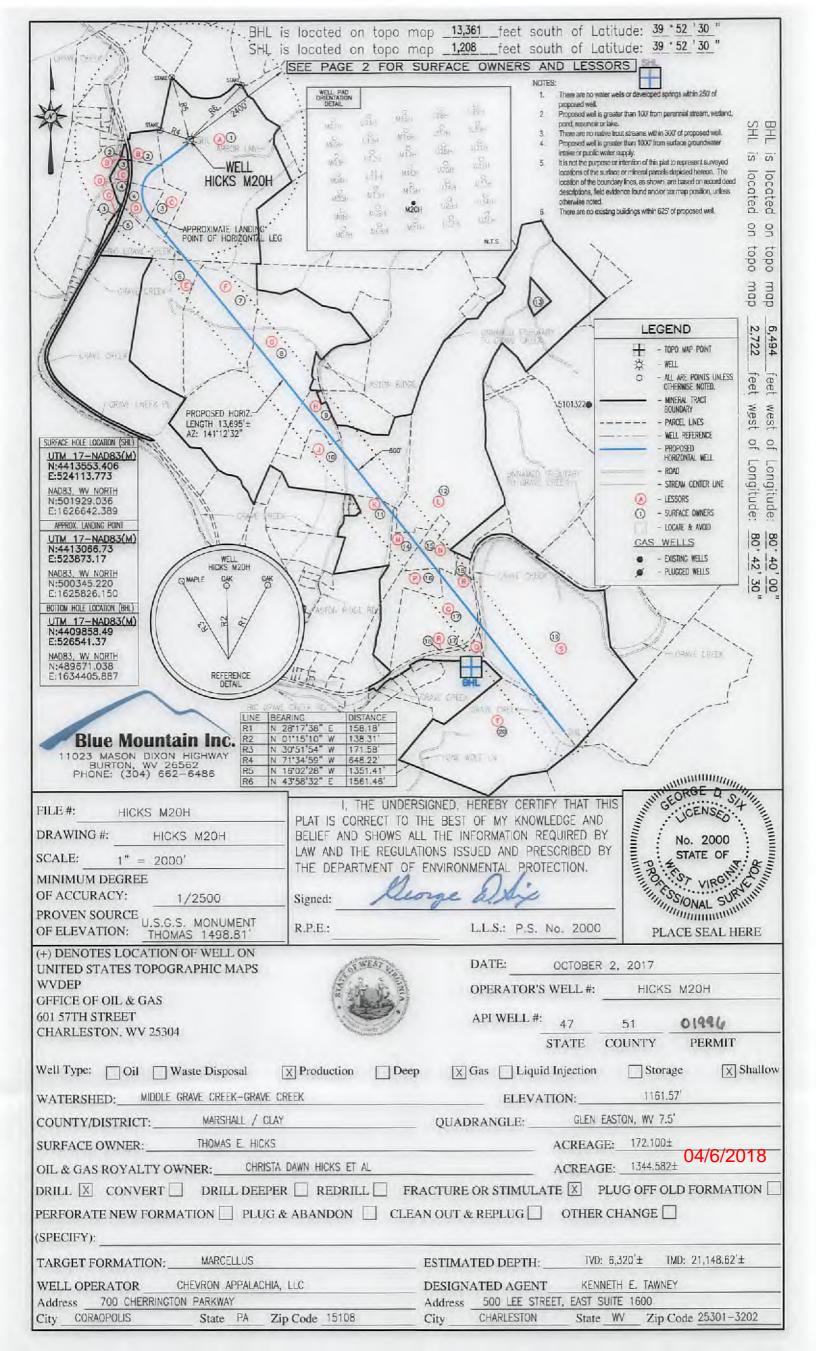
RECEIVED Township: MOUNDSVILLE, WW GROUNDWATER & ENVIRONMENTAL and Gas

Surveyor: SERVICES, INC

2 2018

Address: 301 COMMERCE PARK

CRANBERRY TOWNSHIP PA 16 PROPERTY Of



HICKS M20H PAGE 2 OF 2

	LESSOR	DIST-TM/PA
A	CHRISTA DAWN HICKS ET AL	4-8/37
В	SIDNEY P. POND ET UX	4-8/36.1
C	LILLIE LAVERN GAREY	4-8/36
D	SIDNEY P. POND ET UX	4-8/36.2
E	JAMES L. COSTER ET AL	4-10/2
	FLOYD C. GREATHOUSE ET UX	
	PAUL R. BLAZER ET UX	
	ROBERT A. HOWARD EDGE JR. ET UX	1
	THOMAS A. MONTI ET UX	
	G. JEANETTE SOUTH	l.
	RONALD L. LANCH ET UX	V.
	MICHAEL E. RHODEHAMEL ET UX	la constant
	EDWARD D. YEATER	
	ROBERT A. EDGE ET UX	
	KENNETH R. RUNYAN ET UX	
	KENNETH R. RUNYAN ET UX	
	DANIEL G. MAY ET UX	
	KEVIN R. DURBIN ET UX	
	GARY D. HINERMAN ET UX	
-		4-10/3
	JAMES L. COSTER ET AL	4-10/3
	FLOYD G. GREATHOUSE ET UX	
	PAUL R. BLAZER ET UX	
	ROBERT A. HOWARD EDGE JR. ET UX	
	THOMAS A. MONTI ET UX	
	G. JEANETTE SOUTH	
	RONALD L. LANCH ET UX	
	MICHAEL E. RHODEHAMEL ET UX	
	EDWARD D. YEATER	
	ROBERT A. EDGE ET UX	
	KENNETH R. RUNYAN ET UX	
	KENNETH R. RUNYAN ET UX	
	DANIEL G. MAY ET UX	
	KEVIN R. DURBIN ET UX	
	GARY D. HINERMAN ET UX	
G	ELAIN A. FONTES	4-10/4
	THE DAKAN FAMILY REVOCABLE LIVING TRUST	1
	RONALD W. DAKAN	
	DAME II DAMAN	
	TUAVID H. DAKAN	
	DAVID H. DAKAN SUZANNE SWIFT	
	SUZANNE SWIFT	
	SUZANNE SWIFT BARBARA D. FURFARI	
	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR	
er.	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS	4 10/7 7
	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX	4-10/7.3
J	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX	4-10/7
J K	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX	4-10/7 4-10/13
J K	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX	4-10/7 4-10/13 4-10/21
K	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN	4-10/7 4-10/13 4-10/21 4-10/14
K M	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15
J K L M	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9
K L M	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9
K M N P	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10
M N P Q	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN CONX GAS COMPANY LLC	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59
K M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN COX GAS COMPANY LLC OKEY BURTON ET UX	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3
K M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59
K M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN COXX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3
K M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONSERT M.	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3
K L M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *DIOCESE OF WHEELING — CHARLESTON *MARK K. WUERTHELE	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3
K L M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONS GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *MARK K. WUERTHELE *JEFFREY A. WUERTHELE	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3
K L M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *DIOCESE OF WHEELING — CHARLESTON *MARK K. WUERTHELE *MICHAEL D. WUERTHELE	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3
H J K L M N P Q R R S T T	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONS GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *MARK K. WUERTHELE *JEFFREY A. WUERTHELE	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3
K L M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *DIOCESE OF WHEELING — CHARLESTON *MARK K. WUERTHELE *MICHAEL D. WUERTHELE	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3 9-2/1
K L M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *DIOCESE OF WHEELING — CHARLESTON *MARK K. WUERTHELE *MICHAEL D. WUERTHELE *ROBERT S. WUERTHELE *ROBERT S. WUERTHELE	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3 9-2/1
K L M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN COX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *DIOCESE OF WHEELING — CHARLESTON *MARK K. WUERTHELE *JEFFREY A. WUERTHELE *JEFFREY A. WUERTHELE *SISTERS OF ST. FRANCIS OF THE PROVIDENCE OF GOD *MARY ANN BAKER	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3 9-2/1
K L M N P Q R	SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS ET VIR LESLIE MARIE BUTTS CHARLES EMERY ET UX JOSEPH W. GOULDSBERRY ET UX DEVRON LEE WEST ET UX LEE TAYLOR ET UX ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN ROBERT M. SULLIVAN CONX GAS COMPANY LLC OKEY BURTON ET UX *GEORGE BARNARD CROW, JR. ET UX *CLARA I. CROW *DIOCESE OF WHEELING — CHARLESTON *MARK K. WUERTHELE *JEFFREY A. WUERTHELE *MICHAEL D. WUERTHELE *FOBERT S. WUERTHELE *SISTERS OF ST. FRANCIS OF THE PROVIDENCE OF GOD	4-10/7 4-10/13 4-10/21 4-10/14 4-10/15 4-11/9 4-11/10 4-11/59 9-2/3 9-2/1

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M) N:4413553.406 E:524113.773
NAD83, WV NORTH N:501929.036 E:1626642.389
APPROX. LANDING POINT
UTM 17-NAD83(M) N:4413066.73 E:523873.17
NAD83, WV NORTH N:500345.220 E:1625826.150
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)

N:4409858.49 E:526541.37 NAD83, WY NORTH N:489671.038 E:1634405.887

	SURFACE OWNER	DIST-TM/PAR
1	THOMAS E. HICKS	4-8/37
2	VICKIE L. & SIDNEY P. POND	4-8/36.1
3	LILLIE LAVERN GAREY	4-8/36
4	SIDNEY P. POND ET UX	4-8/36.2
5	*CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-12/25
6	JAMES L. COSTER	4-10/2
7	JAMES L. COSTER	4-10/3
8	DENNIS D. WINGROVE ET UX	4-10/4
9	CHARLES E. & DEBBY R. EMERY - TODD	4-10/7.3
10	JOSEPH W. GOULDSBERRY ET UX	4-10/7
11	DEVRON LEE & TRACI JANE WEST	4-10/13
12	LEE R. TAYLOR ET UX	4-10/21
13	LEE R. TAYLOR ET UX	4-9/27
14	ROBERT MORRIS SULLIVAN - ROBERT W. SULLIVAN	4-10/14
15	ROBERT MORRIS SULLIVAN - ROBERT W. SULLIVAN	4-10/15
16	ROBERT MORRIS SULLIVAN - ROBERT W. SULLIVAN	4-11/9
17	ROBERT MORRIS SULLIVAN - ROBERT W. SULLIVAN	4-11/10
18	CNX GAS COMPANY LLC	4-11/59
19	CNX LAND RESOURCES INC	9-2/3
20	*GEORGE J. & SHIRLEY CROW	9-2/1

04/6/2018

OCTOBER 2, 2017



* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

WW-6A1 (5/13)

Operator's	Well	No.	Hicks M20H	

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

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

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

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

See Attached

RECEIVED
Office of Oil and Gas

DEC 0 6 2017

WV Department of Environmental Protection

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

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

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

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

Well Operator: Chevron Appalachia, LLC

By: Permitting Team Lead

Page 1 of 1

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment
4-8-37	Hicks, Christa Dawn et al	Chevron U.S.A. Inc.	0.18	841/246	n/a	n/a	n/a
4-8-36.1	Pond, Sidney P. et ux	Chevron U.S.A. Inc.	0.18	876/295	n/a	n/a	n/a
					24/180	756/332	
4-8-36	Garey, Lillie Lavern	TriEnergy Holdings, LLC	0.16	707/9	TriEnergy Holdings, LLC	NPAR, LLC to Chevron	n/a
					to NPAR, LLC	U.S.A. Inc.	
4-8-36.2	Pond, Sidney P. et ux	Chevron U.S.A. Inc.	0.18	876/295	n/a	n/a	n/a
	Coster, James L. et al	Chevron U.S.A. Inc.	0.16	873/233	n/a	n/a	n/a
	Greathouse, Floyd G. et ux	Chevron U.S.A. Inc.	0.16	817/473	n/a	n/a	n/a
	Blazer, Paul R. et ux	Chevron U.S.A. Inc.	0.16	817/564	n/a	n/a	n/a
	Edge, Robert A. Howard Jr. et ux	Chevron U.S.A. Inc.	0.16	816/430	n/a	n/a	n/a
	Monti, Thomas A. et ux	Chevron U.S.A. Inc.	0.16	816/436	n/a	n/a	n/a
	South, G. Jeanette	Chevron U.S.A. Inc.	0.16	819/115	n/a	n/a	n/a
	Lanch, Ronald L. et ux	Chevron U.S.A. Inc.	0.16	821/195	n/a	n/a	n/a
4-10-2	Rhodehamel, Michael E. et ux	Chevron U.S.A. Inc.	0.16	821/201	n/a	n/a	n/a
	Yeater, Edward D.	Chevron U.S.A. Inc.	0.16	819/121	n/a	n/a	n/a
	Edge, Robert A. et ux	Chevron U.S.A. Inc.	0.16	822/486	n/a	n/a	n/a
	Runyan, Kenneth R. et ux	Chevron U.S.A. Inc.	0.16	826/162	n/a	n/a	n/a
	Runyan, Kenneth R. et ux	Chevron U.S.A. Inc.	0.16	826/152	n/a	n/a	n/a
	May, Daniel G. et ux	Chevron U.S.A. Inc.	0.16	835/207	n/a	n/a	n/a
	Durbin, Kevin R. et ux	Chevron U.S.A. Inc.	0.16	829/555	n/a	n/a	n/a
	Hinerman, Gary D. et ux	Chevron U.S.A. Inc.	0.16	835/255	n/a	n/a	n/a
	Coster, James L. et al	Chevron U.S.A. Inc.	0.16	873/233	n/a	n/a	n/a
	Greathouse, Floyd G. et ux	Chevron U.S.A. Inc.	0.16	817/473	n/a	n/a	n/a
	Blazer, Paul R. et ux	Chevron U.S.A. Inc.	0.16	817/564	n/a	n/a	n/a
	Edge, Robert A. Howard Jr. et ux	Chevron U.S.A. Inc.	0.16	816/430	n/a	n/a	n/a
	Monti, Thomas A. et ux	Chevron U.S.A. Inc.	0.16	816/436	n/a	n/a	n/a
	South, G. Jeanette	Chevron U.S.A. Inc.	0.16	819/115	n/a	n/a	n/a
	Lanch, Ronald L. et ux	Chevron U.S.A. Inc.	0.16	821/195	n/a	n/a	n/a
4-10-3	Rhodehamel, Michael E. et ux	Chevron U.S.A. Inc.	0.16	821/201	n/a	n/a	n/a
	Yeater, Edward D.	Chevron U.S.A. Inc.	0.16	819/121	n/a	n/a	n/a
	Edge, Robert A. et ux	Chevron U.S.A. Inc.	0.16	822/486	n/a	n/a	n/a
	Runyan, Kenneth R. et ux	Chevron U.S.A. Inc.	0.16	826/162	n/a	n/a	n/a
	Runyan, Kenneth R. et ux	Chevron U.S.A. Inc.	0.16	826/152	n/a	n/a	n/a
	May, Daniel G. et ux	Chevron U.S.A. Inc.	0.16	835/207	n/a	n/a	n/a
	Durbin, Kevin R. et ux	Chevron U.S.A. Inc.	0.16	829/555	n/a	n/a	n/a
	Hinerman, Gary D. et ux	Chevron U.S.A. Inc.	0.16	835/255	n/a	n/a	n/a
				-	30/461		-
	Fontor Claims A	Charanaska Ar-al-akia 11.0	A 407E	700/525	Chesapeake Appalachia,	- Ic	_ /_
	Fontes, Elaine A.	Chesapeake Appalachia, L.L.C.	0.1875	708/525	L.L.C. to Chevron U.S.A.	n/a	n/a
					Inc.		
					30/461		
	The Dakan Family Revocable Living Trust	Chesapeake Appalachia, L.L.C.	0.1875	708/528	Chesapeake Appalachia,	n/a	-/-
4-10-4	The bakast rainity kevocable civing trust	спезареаке Арраіаспіа, с.с.с.	0.1075	700/320	L.L.C. to Chevron U.S.A.	n/a	n/a
10- 	₹				Inc.		
	Dakan, Ronald W.	Chevron U.S.A. Inc.	0.16	837/154	n/a	n/a	n/a
DEÇ.	Dakan, David H.	Chevron U.S.A. Inc.	0.16	837/145	n/a	n/a	n/a
<u>_</u>	Swift, Suzanne	Chevron U.S.A. Inc.	0.16	839/373	n/a	n/a	n/a
., 	Furfari, Barbara D.	Chevron U.S.A. Inc.	0.16	847/364	n/a	n/a	n/a
တ	Willis, Diane et vir	Chevron U.S.A. Inc.	0.18	849/636	n/a	n/a	n/a
2	Butts, Leslie Marie-	Chevron U.S.A. Inc.	0.18	849/630	n/a	n/a	n/a
0 6 2017	Dakan, David H. Swift, Suzanne Furfari, Barbara D. Willis, Diane et vir Butts, Leslie Marie-						
7							
	Gas						
	Ø						

4705 101996

4-10-7.3	Emery, Charles et ux	Mountaineer Natural Gas Company	0.125	679/385	21/359 Mountaineer Natural Gas Company to Anchor OGM, L.L.C. 21/288	21/362 Anchor OGM, L.L.C. to AB Resources LLC	756/397 AB Resources LLC to Chevron U.S.A. Inc.
4-10-7	Gouldsberry, Joseph W. et ux	Central Michigan Exploration LLC	0.125	671/502	Central Michigan Exploration, LLC to Stone Energy Corporation	33/276 Stone Energy Corporation to Chevron U.S.A. Inc.	n/a
4-10-13	West, Devron Lee et ux	Chevron U.S.A. Inc.	0.14	814/478	n/a 19/138	n/a 756/397	n/a
4-10-21	Taylor, Lee et ux	TriEnergy, Inc.	0.125	741/94	TriEnergy, Inc. to AB Resources LLC	AB Resources LLC to Chevron U.S.A. Inc.	n/a
4-10-14	Sullivan, Robert M.	Chevron U.S.A. Inc.	0.16	579/77	n/a	n/a	n/a
4-10-15	Sullivan, Robert M.	Chevron U.S.A. Inc.	0.16	579/77	n/a	n/a	n/a
4-11-9	Sullivan, Robert M.	Chevron U.S.A. Inc.	0.16	579/77	n/a	n/a	n/a
4-11-10	Sullivan, Robert M.	Chevron U.S.A. Inc.	0.16	579/77	n/a	n/a	n/a
4-11-59	CNX Gas Company LLC	Chevron U.S.A. Inc.	0.2	818/553	n/a	n/a	n/a
					21/156	21/545	756/397
9-2-3	Burton, Okey et ux	TriEnergy, Inc.	0.14	740/614	TriEnergy, Inc. to TriEnergy Holdings, LLC	TriEnergy Holdings, LLC to AB Resources LLC	AB Resources LLC to Chevron U.S.A. Inc.
	Crow, George Barnard Jr. et ux	Chevron U.S.A. Inc.	0.18	863/351	n/a	n/a	n/a
	Crow, Clara I.	Chevron U.S.A. Inc.	0.18	863/308	n/a 26/123	n/a 26/201	n/a
	Diocese Of Wheeling - Charleston	TriEnergy Holdings, LLC	0.16	739/569	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
	Wuerthele, Mark K.	Chevron U.S.A. Inc.	0.18	853/27	n/a	n/a	n/a
	Wuerthele, Jeffrey A.	Chevron U.S.A. Inc.	0.18	853/34	n/a	n/a	n/a
	Wuerthele, Michael D.	Chevron U.S.A. Inc.	0.18	853/41	n/a	n/a	n/a
9-2-1	Wuerthele, Robert S.	Chevron U.S.A. Inc.	0.18	853/48	n/a	n/a	n/a
7.1	Sisters of St. Francis of the Providence of God	Fee acreage	n/a	886/595	n/a	n/a	n/a
	Baker, Mary Ann	Chevron U.S.A. Inc.	0.16	808/518	n/a	n/a	n/a
	Ulman Trust Mary Ann Baker TRSTE	Chevron U.S.A. Inc.	0.16	808/550	n/a 36/168	n/a	n/a
	Zidar, Susan M. & Bernard Luke	TH Exploration, LLC	0.18	873/162	TH Exploration, LLC to Chevron U.S.A. Inc. 36/168	n/a	n/a
	Lauren M. Tekely Irrevocable Trust	TH Exploration, LLC	0.18	877/201	TH Exploration, LLC to Chevron U.S.A. Inc.	n/a	n/a

WY Department of Environmental Protection

DEC 0 8 2017

Office of Oil and Gas



Branden Weimer Permitting Team Lead Chevron Appalachia, LLC 800 Mountain View Drive Smithfield, PA 15478 Tel 724 564 3745 Fax 724 564 3894 bwkb@chevron.com

January 6, 2015

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

To Whom It May Concern:

Please be advised that Chevron Appalachia, LLC and Chevron U.S.A. Inc. are affiliated entities. Unless and until revoked, and as evidenced by the signatures of authorized representatives of each entity below, Chevron Appalachia, LLC is authorized to operate assets owned by Chevron U.S.A. Inc. which are located in West Virginia, including oil and gas leases. More particularly, Chevron Appalachia, LLC is authorized to obtain well work permits for assets owned by Chevron U.S.A. Inc. I trust that this will alleviate any concerns the Department may have about Chevron Appalachia, LLC applying for well work permit applications on properties either leased or owned by Chevron U.S.A. Inc. If you have any further questions or concerns, please do not hesitate to contact me.

Branden Weimer

Attorney-In-Fact for Chevron Appalachia, LLC

Marc Tate

Attorney-In-Fact for Chevron U.S.A. Inc.

RECEIVED Office of Oil and Gas

DEC. 0 6 2017

WV Department of Environmental Protection 04/6/2018



October 23, 2017

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

RE: Hicks 8H, 9H, 10H, 20H, 21H

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,

Madeline Fitzgerald Land Representative

> WV Department of Environmental Protection

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

	ce Certification:	API No. 47-	
		Operator's Well No.	M20H
		Well Pad Name: His	ks
Notice has			
		§ 22-6A, the Operator has provided the required parti	es with the Notice Forms listed
State:	tract of land as follows: West Virginia	Easting: 524113.773	
County:	Marshall	UTM NAD 83 Northing: 4413553.40	5
District:	Clay		Road/WV-17
Quadrangle:	Glen Easton, WV 7.5'	Generally used farm name: Hicks	
Watershed:	Middle Grave Creek-Grave Creek		
information r of giving the requirements Virginia Cod	equired by subsections (b) and (c), see surface owner notice of entry to su of subsection (b), section sixteen of	bed in subdivisions (1), (2) and (4), subsection (b) section sixteen of this article; (ii) that the requirement urvey pursuant to subsection (a), section ten of this of this article were waived in writing by the surface tender proof of and certify to the secretary that the notat.	was deemed satisfied as a result article six-a; or (iii) the notice cowner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this Notice Certification and parties with the following:	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
			NOT REQUIRED
□ 2. NO		SEISMIC ACTIVITY WAS CONDUCTED	NOT REQUIRED
□ 2. NO	TICE OF ENTRY FOR PLAT SURV	SEISMIC ACTIVITY WAS CONDUCTED VEY or NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY	NOT REQUIRED RECEIVED RECEIVED NOT REQUIRED
□ 2. NO ■ 3. NO	TICE OF ENTRY FOR PLAT SURV	SEISMIC ACTIVITY WAS CONDUCTED VEY or NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER	NOT REQUIRED RECEIVED RECEIVED NOT REQUIRED
□ 2. NO ■ 3. NO ■ 4. NO	TICE OF ENTRY FOR PLAT SURV	SEISMIC ACTIVITY WAS CONDUCTED VEY or NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER	NOT REQUIRED THE RECEIVED RECEIVED NOT REQUIRED R

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 Godo § 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 eard or other postal receipt for certified mailing.

DEC 0 6 2017

By:

Its:

Certification of Notice is hereby given:

Well Operator: Chevron Appalachia, LLC

Permitting Team Leady

Telephone: 412-865-1533

Address: 700 Cherrington Parkway

Coraopolis, PA 15108

Facsimile: 412-865-2403 Email: jzyk@chevron.com

NOTARY SEAL

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Regins Logue, Notary Public
New Sewickley Twp., Beaver County
My Commission Expires July 7, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 27th day of NOU. 2011.

Motory Dublic

My Commission Expires

Oil and Gas Privacy Notice:

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

WW-6A (9-13)

API NO. 47	<u> </u>
OPERATOR WE	LL NO. M20H
Well Pad Name:	Hicks

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: 11/01/2017 Date Permit Application Filed: RECEIVED Notice of: Office of Oil and Gas PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT DEC 0.6 2017 **WELL WORK** Delivery method pursuant to West Virginia Code § 22-6A-10(b) WV Department of ☑ METHOD OF DELIVERY THAT REQUIRES A Environmental Protection ☐ PERSONAL REGISTERED **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) ☑ COAL OWNER OR LESSEE Name: Thomas E. Hicks Name: Consol Mining Company, LLC Address: 353 Arbor Lane Address: 1000 Consol Energy Drive Moundsville, WV 26041 Canonsburg, PA 15317 Name: COAL OPERATOR Address: Name: Murray Energy Address: 46226 National Road SURFACE OWNER(s) (Road and/of Other Disturbance) St. Clairsville, OH 43950 ☑ SURFACE OWNER OF WATER WELL Name: Jeffrey Ryan Address: 141 Clover Lane AND/OR WATER PURVEYOR(s) Moundsville, WV 26041 Name: see attached Name: Address: Address: _ **OPERATOR OF ANY NATURAL GAS STORAGE FIELD** ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Address: *Please attach additional forms if necessary

WW-6A	١
(8-13)	

API NO. 47-	47	0	5	1	0	1	9	9	6
OPERATOR									
Well Pad Na	me: Hi	cks							

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A (8-13) API NO. 474705 1019 9 6
OPERATOR WELL NO. M20H

Well Pad Name: Hicks

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

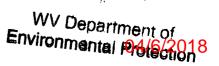
Written Comment:

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

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

RECEIVED
Office of Oil and Gas

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.



WW-6A (8-13) API NO. 474705101996
OPERATOR WELL NO. M20H
Well Pad Name: Hicks

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas

DEC 0 6 2017

WV Department of Environmental Protection

04/6/2018

WW-6A
(8-13)

4705101996

API NO. 47OPERATOR WELL NO. M20H
Well Pad Name: Hicks

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:

Oil and Gas Privacy Notice:

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

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL Regina Logue, Notary Public New Sewickley Twp., Beaver County My Commission Expires July 7, 2018

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 30th day of oct, 2017

Roman Some

Notary Public

My Commission Expires_

RECEIVED
Office of Oil and Gas

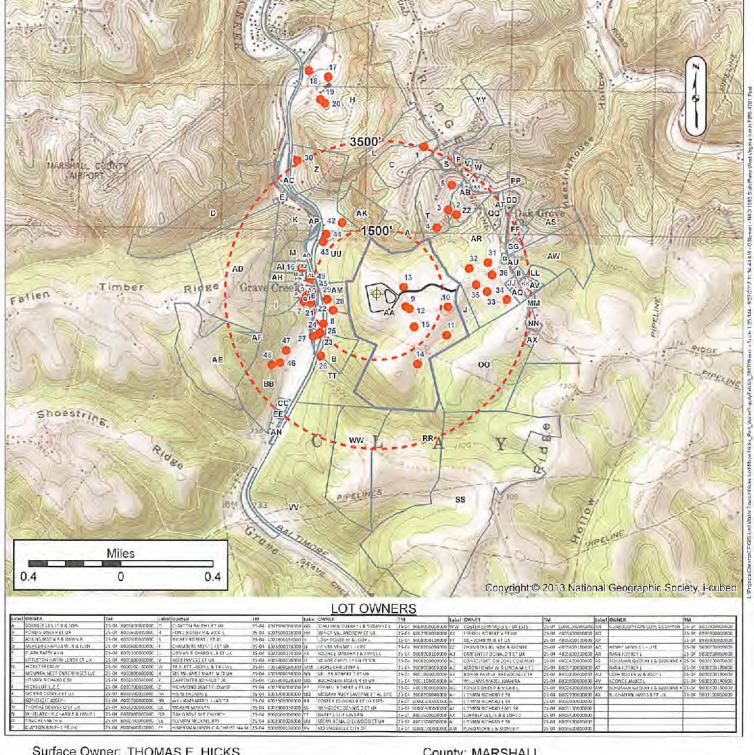
DEC 0 6 2017

WV Department of Environmental Protection 04/6/2018



WATER SUPPLY EXHIBIT HICKS PAD

4705101996



Surface Owner: THOMAS E. HICKS

Oil/Gas Owner: THOMAS E. HICKS

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

Attachment

API No. 47
OPERATOR WELL NO. M20H
Well Pad Name: Hicks

⊠ COAL OWNER OR LESSEE

Name:

Christa Dawn Hicks

Address:

65 Clover Lane

Moundsville, WV 26041

⊠ COAL OWNER OR LESSEE

Name:

Leslie Mae Hicks

Address:

1611 Skye Drive

Chapel Hill, NC 27516

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR

Name:

Lillie & Lavern Garey

Address:

798 Big Grave Creek Road

Moundsville, WV 26041

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR

Name:

Vickie L. & Sidney P. Pond

Address:

3331 Big Grave Road

Moundsville, WV 26041

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR

Name:

Kenneth B. Tagg

Address:

3303 Big Grave Creek Road

Moundsville, WV 26041

RECEIVED
Office of Oil and Gas

DEC 3 6 2017

WV Department of Environmental Protection

4705101996

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 Date of Notic	Requirement: Notice shall be provided at ce: 11/01/2017 Date Peru	least TEN (10) days prior to filing a	a permit application.
Delivery met	thod pursuant to West Virginia Code § 2	2-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		UESTED	
receipt request drilling a hore of this subsect subsection ma	W. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own rizontal well: <i>Provided</i> , That notice given petion as of the date the notice was provided ay be waived in writing by the surface own ple, facsimile number and electronic mail ad	er notice of its intent to enter upon to pursuant to subsection (a), section to to the surface owner: <i>Provided</i> , ho er. The notice, if required, shall inc	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number,
Notice is he	ereby provided to the SURFACE ØW	NER(s):	,
Name: Thomas	s E. Hicks	Name: Jeffrey L. Ryan	<u> </u>
Address: 363		Address: 141 Clover Lane	
Moundsville, WV	/ 26041	Moundsville, WV 26041	
Pursuant to V the surface ov State:	ereby given: West Virginia Code § 22-6A-16(b), notice i wner's land for the purpose of drilling a hor West Virginia	izontal well on the tract of land as for Easting:	well operator has an intent to enter upon ollows: 524113.773
County:	Marshall	Northing:	4413553.406
District:	Clay	Public Road Access:	Fork Ridge Road/WV-17
Quadrangle:	Glen Easton, 7.5'	Generally used farm name:	Hicks
Watershed:	Middle Grave Creek - Grave Creek	<u> </u>	
Pursuant to Nacsimile nun related to hor	e Shall Include: West Virginia Code § 22-6A-16(b), this rember and electronic mail address of the orizontal drilling may be obtained from the 1 57th Street, SE, Charleston, WV 25304 (3	perator and the operator's authoriz Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters.
Notice is he	ereby given by:		
	OF: Chevron Appalachia, LLC	Authorized Representative	
Address:	700 Cherrington Parkway	Address:	
Coraopolis, PA 1	15108		
Telephone:	412-865-1533	Telephone:	-,-,
Email:	jzyk@chevron.com	Email:	
Facsimile:	412-865-2403	Facsimile:	
Oil and Gas	s 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 fourse of the princes or as needed to comply with statutory or regulatory requirements, including Freedom of Information. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, pressessing the state of the property of of DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. DEC 0 6 2017

WV Department of Environmental Protection 18

WW-6A5 (1/12)

Operator Well No. M20H

STATE OF WEST VIRGINIA 4705 101996 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE OF PLANNED OPERATION**

2	ce: 11/01/2017 Date Permit A	Application Filed:		application.
Delivery me	hod pursuant to West Virginia Code §	22-6A-16(c)		
	FIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY		
return receipt the planned or required to be drilling of a damages to the	requested or hand delivery, give the sur- operation. The notice required by this e provided by subsection (b), section ten- horizontal well; and (3) A proposed sur- ue surface affected by oil and gas operation	face owner whose land subsection shall inclu- of this article to a surf- face use and compens- ons to the extent the da	I will be used for de: (1) A copy ace owner whos sation agreemen amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	Arbor Lane	time of notice): Name: Addres	Jeffrey L. Ryan S: 141 Clover Lane ille, WV 26041	
operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Marshall Clay	of drilling a horizonta UTM NAD 8 Public Road	I well on the tra Easting: Northing: Access:	well operator has developed a planned act of land as follows: 524113.773 4413553.406 Fork Ridge Road/WV-17
Quadrangle: Watershed:	Glen Easton, 7.5' Middle Grave Creek - Grave Creek	Generally use	ed farm name:	Hicks
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) to a ll; and (3) A proposed surface use and c ed by oil and gas operations to the extered to horizontal drilling may be obtolocated at 601 57th Street, SE, Characteristics.	surface owner whose ompensation agreeme ent the damages are co- ained from the Secret	e land will be unt containing an ompensable und arv. at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

> > DEC 0 6 2017

WV Department/2018 **Environmental Protection**

API NO. 47-	4	7	0	5		0	1	9	9	6
OPERATOR	WE	ELL	NO)	M20H					
Well Pad Nar	ne:	Hick	(S							

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY 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, Jove + Vicile , hereby state that I have read the Instruction provisions listed above, and that I have received copies of a Notice of All WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the tract of land a State: West Virginia	pplication, an App , including the as follows: Base Easting: Northing: d Access: used farm name:	plication for a Well Work Permit on Form the erosion and sediment control plan, if 524113.773 4413553.406 Fork Ridge Road/WV-17 Hicks
*Please check the box that applies	FOR EXECUT	ION RY A NATHRAL PERSON
☐ SURFACE OWNER	Signature	ho Hod way / Ban
☐ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: S)	duey P+ VICKIC L Tond
☐ SURFACE OWNER (Impoundments/Pits)	Date: _// . 3 ·	
☐ COAL OWNER OR LESSEE		ION BY A CORPORATION, ETC.
☐ COAL OPERATOR	Ву:	
■ WATER PURVEYOR		
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date:	

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 personal information may be disclosed to other State agencies or third parties in the normal personal information as needed to comply with statutory or regulatory requirements, including Freedom of Information personal information. If you have any questions about our use or your personal information, please Gasact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

DEC 0,6 2017

WW-6AW	
(1-12)	

	4	V	J	i	V		J	y	1
API NO	O. 47		-						
OPERA	TOR	WEL	$\overline{L}\overline{N}$	0.	M20	Н			
Well Pa	id Nam	e: H	icks	-					

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 STAT	EMENT (OF:	NO OBJ	JECTION
Biducy	Wickie to hereby state that I have read	the Instruction	ons to	Persons Na	amed on Page WW-6A and the associated
brosizione nei	ieu above, and mai i nave received copies of a	I Notice of Ap	ppiica	tion, an Api	dication for a Well Work Permit on Form
WW-6A and	attachments consisting of pages one (1) thro	ough	,	including t	the erosion and sediment control plan, if
	the well plat, all for proposed well work on the	tract of land a	as foll	ows:	
State:	West Virginia	UTM NAD	83	Easting:	524113.773
County:	Marshall	CIMINAD	0.0	Northing:	4413553.406
District:	Clay	Public Road	d Acc	ess:	Fork Ridge Road/WV-17
Quadrangle:	Glen Easton, WV 7.5'	Generally u	ised fa	arm name:	Hicks
Watershed:	Middle Grave Creek-Grave Creek				
*Please check	e materials. the box that applies		FOR	R EXECUT	ON BY A NATURAL PERSON.
□ SURFAC	CE OWNER		Signa	atere:	to Dearing Par
□ SURFAC	E OWNER (Road and/or Other Disturbance	ce)		Name: 5 1	ducy P+ Vickie L Bnd
☐ SURFAC	E OWNER (Impoundments/Pits)				
□ COAL O	WNER OR LESSEE		Com	pany:	ON BY A CORPORATION, ETC.
□ COAL O	PERATOR		By: _		
WATER	PURVEYOR				
☐ OPERAT	OR OF ANY NATURAL GAS STORAG	E FIELD	Date		

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, and the Office of Oil and Gas processes your personal information may be disclosed to other State agencies or third parties in the normalization of as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. On a finde Gas 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.



API NO. 47-	5	•	0	1	9	9	
OPERATOR WELL N	0.	M2	юн			•	
Well Pad Name: Hicks							

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

provisions list WW-6A and required, and State: County: District: Quadrangle: Watershed:	the b. 16 cm., hereby state that I have real ted above, and that I have received copies of attachments consisting of pages one (1) throthe well plat, all for proposed well work on the West Virginia Marshall Clay Glen Easton, WV 7.5' Middle Grave Creek-Grave Creek that I have no objection to the planned work demanderals.	a Notice of Appough tract of land as UTM NAD 8 Public Road Generally use	olication, an App, including to follows: Basting: Northing: Access: ed farm name:	blication for a Well Work Permit on Form the erosion and sediment control plan, if 524113.773 4413553.406 Fork Ridge Road/WV-17 Hicks		
*Please check	the box that applies	I	FOR EXECUTI	ON BY A NATURAL PERSON		
□ SURFAC	CE OWNER	s	Signature: Kin	meth B Lass		
☐ SURFAC	E OWNER (Road and/or Other Disturban	ce) F	Signature: Numeth B Yess Print Name: KENNETH B TAGG Date: Nov. 8 2017			
□ SURFAC	E OWNER (Impoundments/Pits)		-			
□ COAL O	WNER OR LESSEE			ON BY A CORPORATION, ETC.		
□ COAL O	PERATOR	1	3y:			
■ WATER	PURVEYOR					
□ OPERAT	OR OF ANY NATURAL GAS STORAG	E FIELD	Date:			

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 requirements will appropriately secure your personal information. If you have any questions about our use or your personal information. DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

DEL 0 6 2017



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

Jim Justice Governor

November 15, 2017

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

Subject: DOH Permit for the Hicks Pad A Well Site, Marshall County
Hicks A M20H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2016-0504 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 17 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

Day K. Clayton

Central Office Oil &Gas Coordinator

Cc: Mandy Fordyce

Chevron Appalachia, LLC

CH, OM, D-6

File

RECEIVED
Office of Oil and Gas

DEC 0 6 2017

WV Department of Environmental Pottle 2018

WV Department of Environmental Protection

RECEIVED
Office of Oil and Gas

Section VI - Hydraulic Fracturing Fluid Product Component Information Disclosure

	Fracture Date.
WV	State.
Marshall	County:
047-51-200000	API Number;
Chevron	Operator Name:
Hicks	Well Pad Name:
39 872100	Longitude :
-80 711825	Latitude:
NAD 83	Long/Lat Projection:
	Production Type :
	True Vertical Depth (TVD):
116001,000	Total Water Volume (gal) *:

Hydrau ic Fracturing Fluid Add tives:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Comments
Corrosion Inhibitor A254	Schlumber ger	Corresion whilater	Methanol/Al phatic Acids/Prop-2 yn 1 ol/Aliphatic Alcohols, ethonylated #1	Mature	
28% HCIAcid	Schlumberger	Used to open perfs	Hydrochlaric Acid	7647-01-0	
Breaker J134	Schlumberger	GetBreaker	Hemicellulase Enzyme	9012-54-8	
Water Gelling Agent J580	Schlumberger	Water Viscosifier	Carbohydrate Polymer	Proprietary	
Friction Reducer #609	Schlumberger	Friction Reducer	Ammonium Sulfate	7783-23-2	
hrun Stab Aize r LS8	Schlumberger	Iron Stabilizer	Sodium Erythorbate	5381-77-7	
AG(13)3	Nalco	Brocide	Dibromeacetonitnie/2,2-Dibromo-3- nitniopropionamide/Polyethylene Glycol	Mixture	
EC 6486AScale inhibitor	Nalco	Scale Inhibitor	Amme Triphosphate/Ethylene Glycol	Mixture	
NALCO EC6673W	Nalco	Iron Control	Ethylene Glycol	107-21-1	
5012-3050	Schlumberger	Proppart	Crystaline Stica	14808-60-7	
5012-4070	Schlumberger	Proppant	Crystaline Silica	14808-50-7	
			19,000		

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary". "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSUS as subject to 29 OH 1910 1200(i) and Appendix U

1705 .0199



Call before you dig

HICKS WE

EROSION AND SEDIME FORK RIDGE R CLAY DISTRICT, MARSHALL

PREPARE

CONSULTANTS

11023 MASON DIXON HIGHWAY BURTON, WEST VIRGINIA 26562 304-662-2626

TOTAL WOODED ACRES DISTURBED	TOTAL AFFECTED AREA	WELL PAD	ACCESS ROADS	IMPACTS TO HICKS THOMAS E	TOTAL WOODED ACRES DISTURBED	TOTAL AFFECTED AREA	WELL PAD	ACCESS ROADS	IMPACTS TO HICKS LUCILLE E	TOTAL WOODED ACRES DISTURBED	TOTAL AFFECTED AREA	WELL PAD	ACCESS ROADS	IMPACTS TO RYAN JEFFREY L	DISTURBED	TOTAL AFFECTED AREA	WELL PAD	ACCESS ROADS	TOTAL SITE
0.1	25.0	19.9	5.2	KS THOMAS E	0.0	0.1	0.0	0.1	KS LUCILLE E	0.0	2.2	0.0	2.2	A JEFFREY L	0.1	27.4	19.7	7.7	SITE

START OF ARBOR LANE AT FORK RIDGE ROAD
LATITUDE 39 873761 N LONGITUDE 80 707481 W
START OF ACCESS ROAD AT ARBOR LANE
LATITUDE 39 8721 N LONGITUDE 80 711825 W
WELL PRI "MIH"
LATITUDE 39 871647 N LONGITUDE 80 717811 W
VELL PRI "MIH"
LATITUDE 39 877678 N LONGITUDE 80 717811 W

BASED ON NAD 83 WEST VIRGINIA, STATE PLANE, NORTH ZONE, U.S. FOOT U.S. FOOT WATERSHED NAME (NV WATER PLAN), UPPER OHIO - VAICELING

RECEIVING STREAM (USGS BLUE LINE), GRAVE CREEK DISTANCE TO NEAREST USGS BLUE LINE STREAM = 1061 FT NO ANTICIPATED WETLAND IMPACTS

CHEVRON APP 800 MOUNTAIN SMITHFIELD



SITE LOCA
USGS 7.5' TOPOGRAPA
MOUNDSVILLE & GLE

			DS - DOOR SILL	MB - MAILBOX	PN - PARKING METER	STO - STANDARD	CC -CLEAN OUT	FH - FIRE HYDRANT	BY - GAS VALVE	WW - WATER VALVE	FL - SLOW LIVE	TOP - TOP OF CASTING	MH - MANHOLE	ST - STORM	SAN SANITARY	BS - BOTTOM OF SLOPE	TS . TOP OF SLOPE	BW - BOTTOM OF WALL	TWW - TOP OF WALL	G - GUTTER	TC - TOP OF CURE	LEGEND	
				- 4	Advention to																		
				14 eatth	871 178		- A.W.	SW ENVISOR NE	1210-10-11-11										S PART S LAND S			EXISTING	
13	0	(0)	4	0	,		1	1					o				d						
-0/-	6	10.50	y.			Till I	WON			N	3		1	100		1	į	7			Ĩ.	1	

COUNTY, WEST VIRGINIA DAD (C.R. 17) NT CONTROL PLANS PAD

FOR:

ALACHIA, VIEW DRIVE PA 15478









Project Number 15:3516 Drawing State AS SHOWN Date Issued 10-13-2016 Index Number Drawn By JAC Checked By BER Project Manager TMP CS000

COVER

HICKS WELL PAD
FORK RIDGE ROAD - C.R. 17
CLAY DISTRICT, MARSHALL COUNTY
PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478



REVISION RECORD

12-21-2016 01 REVISED PER WY DEP COMMENTS

02

04 05

05

08

Michael Baker

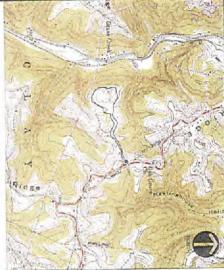
NVDEP OOG

12/27/2016

APPROVED

INTERNATIONAL

MICHAEL BAKER INTERNATIONAL CONSULTING ENGINEERS MOON TOWNSHIP, PENNSYLVANIA



SITE LOCATION MAP USGS MOUNDSVILLE & GLEN EASTON QUADS $1^{\circ} = 2000^{\circ}$

- SILT FENCE, CROSS DRAINS AND ROCK FILTERS SHALL REMAIN OPERATIONAL UNTIL THE SITE HAS BEEN RESTORED TO ORIGINAL TOPOGRAPHY.

ITE RESTORATION SEQUENCE

- RESEED ALL DISTURBED AREAS IF VEGETATION IS NOT ESTABLISHED WITHIN 30 DAYS
- VE THE SEDIMENT BASIN BY: NATER THE BASIN AS NECESSARY USING A PUMPED WATER FILTER
- MOVE THE TEMPORARY RISER, QUITLET PIPE AND RIPRAP OUTLET OTECTION GRADE THE BASIN TO THE ORIGINAL TOPOGRAPHY

- LIVES ON PAD DRAINAGE SUMPS SHALL TO COMPLETIONS OPERATIONS ARE DO

DISTURBED AREA = 27.4 AC TOTAL AREA = 27.4 AG



Know what's below Call before you dig

SITE RESTORATION LEGEND



DISTURBANCE/PROJECT LIMIT

- PERMANENT SEED AND MULCH

