



west virginia department of environmental protection

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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Thursday, February 23, 2017  
WELL WORK PERMIT  
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC (A)  
POST OFFICE BOX 611

MOON TOWNSHIP, PA 15108

Re: Permit approval for M06H  
47-051-01901-00-00

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: M06H  
Farm Name: HICKS, THOMAS E.  
U.S. WELL NUMBER: 47-051-01901-00-00  
Horizontal 6A / New Drill  
Date Issued: 2/23/2017

Promoting a healthy environment.

02/25/2017

# PERMIT CONDITIONS 4705101901

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

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

API Number: \_\_\_\_\_

# PERMIT CONDITIONS <sup>4705101901</sup>

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.



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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street  
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, 47-051-01899, 47-051-01900, 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:

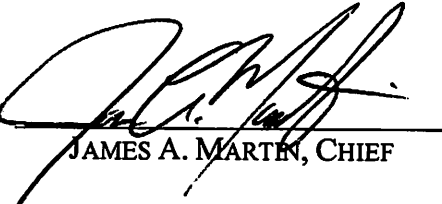
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment 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

By:



JAMES A. MARTIN, CHIEF

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

1) Well Operator: Chevron Appalachia, LLC

<u>49449935</u>	<u>Marshall</u>	<u>Clay</u>	<u>Glen Easton, WV</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: M06H Well Pad Name: Hicks

3) Farm Name/Surface Owner: Thomas E Hicks Public Road Access: Fork Ridge Road/WV-17

4) Elevation, current ground: 1177' Elevation, proposed post-construction: 1140'

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

Other \_\_\_\_\_

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

Horizontal

6) Existing Pad: Yes or No No *JW 2/13/17*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 6,362, 61' thick, 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,366

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,513

11) Proposed Horizontal Leg Length: 10,213

12) Approximate Fresh Water Strata Depths: 430'

13) Method to Determine Fresh Water Depths: 1' mile radius search around pad location

14) Approximate Saltwater Depths: 1147', 1751', 2112'

15) Approximate Coal Seam Depths: 398', 678'

16) Approximate Depth to Possible Void (coal mine, karst, other): none

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

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_



18)

**CASING AND TUBING PROGRAM**

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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	2,037	2,037	CTS
Production	5.50	New	P110	20	18,513	18,513	2,537
Tubing							
Liners							

<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20	26					
Fresh Water	13.375	17.5	0.38	2730	1911	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5750	2768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14360	9975	Class A, G, or H	1.25
Tubing							
Liners							

*JN 2/13/17*

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

*JW 2/13/17*

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

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

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

Slickwater completion with 280' stage length, 1750 lbs/ft proppant (max anticipated rate/pressure will be 115bpm/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% CaCl<sub>2</sub>, and flake. The intermediate will contain class A cement, 3% CaCl<sub>2</sub>, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.

## **Cement Additives**

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

**The intermediate will contain class A cement, 3% CaCl<sub>2</sub>, and flake.**

**The Production cement will have a lead and tail cement.**

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

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

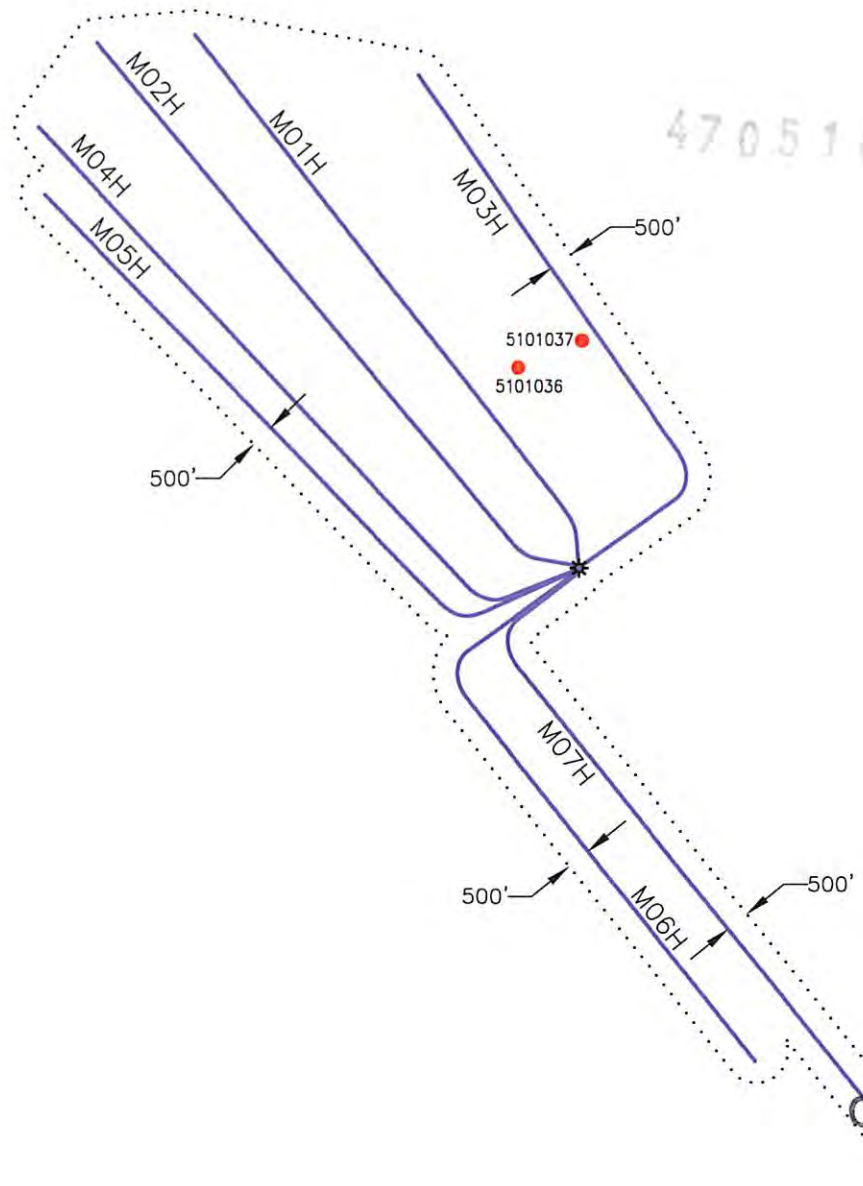


# Hicks M06H

DRILLING FLUID / BIT TYPE / TFA		CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
				MD (FT)	TVD (FT)	INC	AZM			
Clay Twp, Marshall Co, WV									Ground Level Elev. (ft above SL): 1,138	
Core Barrel / Auger	2 Bowspring per Jt		20" Conductor	60	60			26	<u>Conductor</u> 20" 78.67# X-52 Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	<b>Bow Spring:</b> (1) on shoe track w/ stop collar & (1) per jt over coupling to surface								<u>Surface Casing</u> 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	<u>Surface Blend (Class A)</u> Cement to Surface
			13-3/8" Casing	480	480			17.5	Minimum 50 ft past deepest known fresh water	
	<b>Bow Spring:</b> (1) on shoe track w/ stop collar & (1) per 3 jts over coupling								<u>Intermediate Casing</u> 9-5/8" 40# J-55 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 3,950 Collapse (psi) 2,570 Yield (Jt Strength 1,000 lbs) 630	<u>Intermediate II Blend (Class A)</u> Cement to Surface
			9-5/8" Casing	2,037	2,037			12.375 - 12.25		
	<b>Bow Spring:</b> (1) per every other jt over coupling  <b>SpiraGlider or Centek:</b> (1) per jt of csg to KOP								<u>Production Casing</u> 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	<u>Production Lead Slurry</u> Cement to Surface
		Middlesex			6,124					
		Burkett Shale			6,200					
		Tully Limestone			6,220					
		Hamilton shale			6,254					
		Upper Marcellus			6,322					
		Lower Marcellus			6,353					
		Basal Marcellus			6,378					<u>Production Tail Slurry</u> TOC minimum 200' above Marcellus
Non-Conservation	Float Equip. (2) Jts of Csg		5-1/2" Casing	18,513				8.75 - 8.5		





4705101901



Received  
Office of Oil & Gas  
DEC 01 2016

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

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

LEGEND  
 - WELL LOCATION  
 - ACTIVE WELL

**HICKS**  
 AREA OF REVIEW MAP  
 MARSHALL COUNTY  
 CLAY DISTRICT  
 WEST VIRGINIA

TOPO QUAD: GLEN EASTON, WV
SCALE: 1" = 4000'
DATE: OCTOBER 24, 2016

02/25/2017

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-01036	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.883078	-80.723078	274'	Pittsburgh Seam	None
47-051-01037	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.884675	-80.718315	578'	Pittsburgh Seam	None

Received  
Office of Oil & Gas  
DEC 01 2016

4705101001

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 Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number at next anticipated well )
- Off Site Disposal (Supply form WV-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) \_\_\_\_\_

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

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

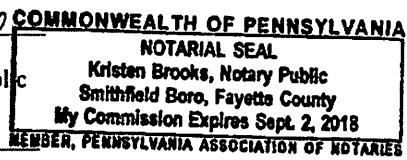
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jenny Hayes  
Company Official (Typed Name) Jenny Hayes  
Company Official Title Permitting Team Lead

Subscribed and sworn before me this 24th day of October, 2016

Kristen Brooks Notary Public  
My commission expires Sept 2, 2018



**Chevron Appalachia, LLC**

Proposed Revegetation Treatment: Acres Disturbed +/- 4 acres 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 lbs/acre

Mulch 3 Tons/acre

**Seed Mixtures**

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

**Attach:**

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jane [Signature]*

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: O.I. + Gas Inspector Date: 11/14/16

Field Reviewed?  Yes  No





4705101001

**Chevron**

**Appalachian LLC  
WV Well Site Safety Plan  
Pad: Hicks Pad A**

**Well # M06H**

**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**

*Ju  
11/16/16*

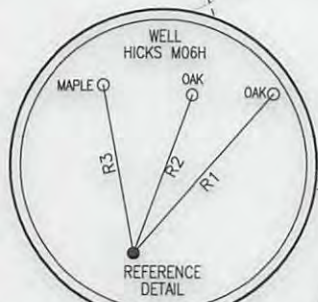
Received  
Office of Oil & Gas  
DEC 01 2016

BHL is located on topo map 11,395 feet south of Latitude: 39° 52' 30"  
 SHL is located on topo map 1,221 feet south of Latitude: 39° 52' 30"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

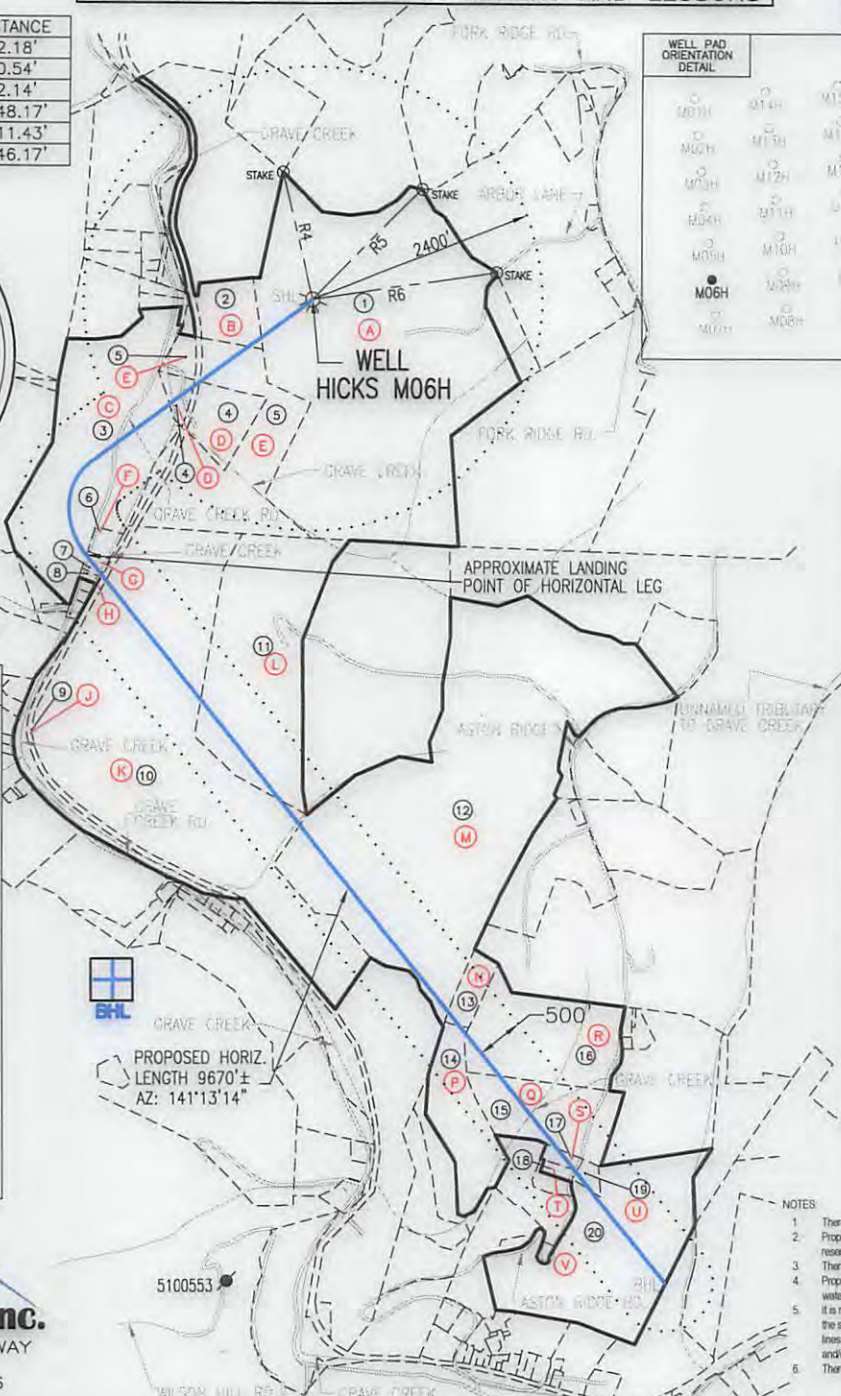


LINE	BEARING	DISTANCE
R1	N 41°28'03" E	202.18'
R2	N 20°22'15" E	160.54'
R3	N 10°20'42" W	162.14'
R4	N 13°29'38" W	1348.17'
R5	N 45°10'53" E	1611.43'
R6	N 81°43'25" E	1946.17'



**LEGEND**

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



SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83(M)	N:4413549.456 E:524095.923
NAD83, WV NORTH	N:501917.054 E:1626583.598
LAT/LON-NAD83	LAT:39°52'17.930" LON:80°43'05.665"
APPROX. LANDING POINT	
UTM 17-NAD83(M)	N:4412727.48 E:523387.78
NAD83, WV NORTH	N:499258.581 E:1624214.733
LAT/LON-NAD83	LAT:39°51'51.34" LON:80°43'35.58"
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83(M)	N:4410461.75 E:525271.36
NAD83, WV NORTH	N:491720.280 E:1630271.424
LAT/LON-NAD83	LAT:39°50'37.66" LON:80°42'16.61"

BHL is located on topo map 10,710 feet west of Longitude: 80° 40' 00"  
 SHL is located on topo map 2,781 feet west of Longitude: 80° 42' 30"

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

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

FILE #: HICKS M06H  
 DRAWING #: HICKS M06H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

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

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

PLACE SEAL HERE

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



DATE: OCTOBER 4, 2016  
 OPERATOR'S WELL #: HICKS M06H  
 API WELL #: 47 51 01901  
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1180.27'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: THOMAS E. HICKS ACREAGE: 172.100±

OIL & GAS ROYALTY OWNER: CHRISTA DAWN HICKS, ET AL ACREAGE: 850.440±

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

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,600'± TMD: 18,512.56'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY  
 Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600  
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

**02/25/2017**

# HICKS M06H PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	CHRISTA DAWN HICKS, ET AL.	4-8/37
B	SIDNEY P. POND, ET UX.	4-8/36.1
C	MABEL J. WILLIAMS	4-8/23
D	SIDNEY P. POND, ET UX.	4-8/36.2
E	LILLIE LAVERN GAREY	4-8/36
F	MARILYN MARTIN	4-8/23.3
G	MICHAEL R. ALLMAN	4-8/23.2
H	KERMIT E. PERSINGER, ET UX.	4-8/24
J	CNX GAS COMPANY, LLC.	4-12/25
K	DIOCESE OF WHEELING-CHARLESTON ROBERT S. WUERTHELE MARK K. WUERTHELE JEFFREY A. WUERTHELE MICHAEL D. WUERTHELE SISTERS OF ST. FRANCIS OF THE PROVIDENCE OF GOD MARY ANN BAKER ULMAN TRUST MARY ANN BAKER TRSTE SUSAN M. & BERNARD LUKE ZIDAR LAUREN M. TEKELY IRREVOCABLE TRUST	4-10/1
L	JAMES L. COSTER, ET AL. 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. DANIEL G. MAY, ET UX. KEVIN R. DURBIN, ET UX. GARY D. HINERMAN, ET UX.	4-10/2
M	ELAINE A. FONTES THE DAKAN FAMILY REVOCABLE LIVING TRUST RONALD W. DAKAN DAVID H. DAKAN SUZANNE SWIFT BARBARA D. FURFARI DIANE WILLIS, ET VIR. LESLIE M. BUTTS	4-10/4
N	LESLIE M. BUTTS DIANE CLARE WILLIS, ET VIR. BARBARA D. FURFARI SUZANNE E. SWIFT DAVID H. DAKAN RONALD W. DAKAN ELAINE A. FONTES DIANA K. COSLICK LESLEY D. BALLA	4-10/8

	LESSOR	DIST-TM/PAR
P	ROY A. CLARK, ET UX.	4-10/9
Q	VIOLET P. STANDIFORD RONNIE LEE MCCAMAN SR., SANDRA JEAN OAKS SALLY BECK LEO A. MATTILIO MARJORIE ANN GIBAS RAYMOND DOUGLAS SMITH LINDA K. MATTILIO-YEOMANS FREDERICK EUGENE WHITEMAN VIOLET LENORE KELLEY CAROL JEAN ABBEY LYNN EDWARD WEBB MARTHA GAY BARRETT KENNETH EUGENE SMITH, ET UX. JIMMIE LEWIS SMITH, ET UX. GARY LEE SMITH GAIL LYNN BROWN DEBORAH SUE BRICELAND ERICH MICHAEL WHITEMAN PETE LOPEZ, IV TRACY SAMANTHA SMITH TERRY M. LOPEZ, ET UX. LLOYD SUMMER TABATHA JANE TOTH	4-10/10
R	JOSEPH W. GOULDSBERRY, ET UX.	4-10/11
S	JAMES STOUT, ET UX.	4-11/8.3
T	JAMES STOUT, ET UX.	4-11/8.2
U	MARGARET L. DAVIS	4-11/8.4
V	WILLIAM R. STANDIFORD II, ET UX.	4-11/8.5

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
<b>UTM 17-NAD83(M)</b> N:4413549.456 E:524095.923  NAD83_WV NORTH N:501917.054 E:1626583.598  LAT/LON=NAD83 LAT:39°52'17.930" LON:80°43'05.665"	<b>UTM 17-NAD83(M)</b> N:4412727.48 E:523387.78  NAD83_WV NORTH N:499258.581 E:1624214.733  LAT/LON=NAD83 LAT:39°51'51.34" LON:80°43'35.58"	<b>UTM 17-NAD83(M)</b> N:4410461.75 E:525271.36  NAD83_WV NORTH N:491720.280 E:1630271.424  LAT/LON=NAD83 LAT:39°50'37.66" LON:80°42'16.61"

	SURFACE OWNER	DIST-TM/PAR
1	THOMAS E. HICKS	4-8/37
2	VICKIE L. & SIDNEY P. POND	4-8/36.1
3	MABEL JUANITA WILLIAMS	4-8/23
4	SIDNEY P. POND ET UX	4-8/36.2
5	LILLIE LAVERN GAREY	4-8/36
6	MARILYN MARTIN	4-8/23.3
7	ANN M. STEVEY	4-8/23.2
8	KERMIT E. PERSINGER ET UX	4-8/24
9	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT.	4-12/25
10	CITY OF MOUNDSVILLE	4-10/1
11	JAMES L. COSTER	4-10/2
12	DENNIS D. WINGROVE ET UX	4-10/4
13	DENNIS D. WINGROVE ET UX	4-10/8
14	ROY A. & SANDRA F. CLARK	4-10/9
15	JAMES STOUT	4-10/10
16	JOSEPH W. GOULDSBERRY ET UX	4-10/11
17	JAMES STOUT	4-11/8.3
18	JAMES STOUT	4-11/8.2
19	MARGARET DAVIS	4-11/8.4
20	WILLIAM R. STANDIFORD II ET UX	4-11/8.5

02/25/2017

OCTOBER 4, 2016

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

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

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

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

8705107007

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

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

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

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

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

Hicks M06H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
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
4-8-23	Williams, Mabel J.	Chevron U.S.A. Inc.	0.18	837/386	n/a	n/a	n/a
4-8-36.2	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 to NPAR, LLC 25/252	NPAR, LLC to Chevron U.S.A. Inc. 756/332	
4-8-23.3	Martin, Marilyn	TriEnergy Holdings, LLC	0.16	735/389	TriEnergy Holdings, LLC to NPAR, LLC 25/449	NPAR, LLC to Chevron U.S.A. Inc. 756/332	n/a
4-8-23.2	Allman, Michael R.	TriEnergy Holdings, LLC	0.18	737/250	TriEnergy Holdings, LLC to NPAR, LLC 25/489	NPAR, LLC to Chevron U.S.A. Inc. 756/332	n/a
4-8-24	Persinger, Kermit E. et ux	TriEnergy Holdings, LLC	0.16	737/236	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-12-25	CNX Gas Company LLC	Chevron U.S.A. Inc.	0.2	818/549	n/a	n/a	n/a
	Diocese Of Wheeling - Charleston	TriEnergy Holdings, LLC	0.18	738/509	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
	Wuerthele, Robert S.	Chevron U.S.A. Inc.	0.18	853/63	n/a	n/a	n/a
	Wuerthele, Mark K.	Chevron U.S.A. Inc.	0.18	853/79	n/a	n/a	n/a
	Wuerthele, Jeffrey A.	Chevron U.S.A. Inc.	0.18	853/127	n/a	n/a	n/a
	Wuerthele, Michael D.	Chevron U.S.A. Inc.	0.18	853/103	n/a	n/a	n/a
4-10-1	Chevron U.S.A. Inc.	Chevron U.S.A. Inc.	Fee	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	n/a	n/a
					36/168		
	Zidar, Susan M. & Bernard Luke	TH Exploration, LLC	0.18	877/222	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	876/177	TH Exploration, LLC to Chevron U.S.A. Inc.	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

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Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
4-10-2	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
	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		
	Fontes, Elaine A.	Chesapeake Appalachia, L.L.C.	0.1875	708/525	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/461		
4-10-4	The Dakan Family Revocable Living Trust	Chesapeake Appalachia, L.L.C.	0.1875	708/528	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
	Dakan, Ronald W.	Chevron U.S.A. Inc.	0.16	837/154	n/a	n/a	n/a
	Dakan, David H.	Chevron U.S.A. Inc.	0.16	837/145	n/a	n/a	n/a
	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
	Willis, Diane et vir	Chevron U.S.A. Inc.	0.18	849/636	n/a	n/a	n/a
	Butts, Leslie Marie-	Chevron U.S.A. Inc.	0.18	849/630	n/a	n/a	n/a
	Butts, Leslie M.	Chevron U.S.A. Inc.	0.18	884/80	n/a	n/a	n/a
	Willis, Diane Clare et vir	Chevron U.S.A. Inc.	0.18	884/86	n/a	n/a	n/a
	Furfari, Barbara D.	Chevron U.S.A. Inc.	0.16	885/476	n/a	n/a	n/a
4-10-8	Swift, Suzanne E.	Chevron U.S.A. Inc.	0.16	885/473	n/a	n/a	n/a
	Dakan, David H.	Chevron U.S.A. Inc.	0.16	882/185	n/a	n/a	n/a
	Dakan, Ronald W.	Chevron U.S.A. Inc.	0.16	882/182	n/a	n/a	n/a
	Fontes, Elaine A.	Chevron U.S.A. Inc.	0.18	882/422	n/a	n/a	n/a
	Coslick, Diana K.	Chevron U.S.A. Inc.	0.18	882/416	n/a	n/a	n/a
	Balla, Lesley D.	Chevron U.S.A. Inc.	0.18	882/410	n/a	n/a	n/a
						21/288	
							33/276
4-10-9	Clark, Robert et ux	Central Michigan Exploration LLC	0.125	670/574	Central Michigan Exploration, LLC to Stone Energy Corporation	Stone Energy Corporation to Chevron U.S.A. Inc.	n/a

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Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
					29/288		
	Standiford, Violet P.	AB Resources LLC	0.18	784/220	AB Resources LLC to Chevron U.S.A. Inc.	n/a	n/a
	McCaman, Ronnie Lee Sr.	Chevron U.S.A. Inc.	0.14	882/374	n/a	n/a	n/a
	Oaks, Sandra Jean	Chevron U.S.A. Inc.	0.14	882/377	n/a	n/a	n/a
	Beck, Sally	Chevron U.S.A. Inc.	0.14	882/368	n/a	n/a	n/a
	Mattilio, Leo A.	Chevron U.S.A. Inc.	0.14	882/371	n/a	n/a	n/a
	Gibas, Marjorie Ann	Chevron U.S.A. Inc.	0.14	882/349	n/a	n/a	n/a
	Smith, Raymond Douglas	Chevron U.S.A. Inc.	0.14	882/352	n/a	n/a	n/a
	Mattilio-Yeomans, Linda K.	Chevron U.S.A. Inc.	0.14	882/355	n/a	n/a	n/a
	Whiteman, Frederick Eugene	Chevron U.S.A. Inc.	0.14	882/436	n/a	n/a	n/a
	Kelley, Violet Lenore	Chevron U.S.A. Inc.	0.14	882/439	n/a	n/a	n/a
4-10-10	Abbey, Carol Jean	Chevron U.S.A. Inc.	0.14	882/442	n/a	n/a	n/a
	Webb, Lynn Edward	Chevron U.S.A. Inc.	0.14	882/448	n/a	n/a	n/a
	Barrett, Martha Gay	Chevron U.S.A. Inc.	0.14	882/445	n/a	n/a	n/a
	Smith, Kenneth Eugene et ux	Chevron U.S.A. Inc.	0.14	882/206	n/a	n/a	n/a
	Smith, Jimmie Lewis et ux	Chevron U.S.A. Inc.	0.14	880/614	n/a	n/a	n/a
	Smith, Gary Lee	Chevron U.S.A. Inc.	0.14	882/161	n/a	n/a	n/a
	Brown, Gail Lynn	Chevron U.S.A. Inc.	0.14	880/585	n/a	n/a	n/a
	Briceland, Deborah Sue	Chevron U.S.A. Inc.	0.14	880/588	n/a	n/a	n/a
	Whiteman, Erich Michael	Chevron U.S.A. Inc.	0.14	897/251	n/a	n/a	n/a
	Lopez, Pete IV	Chevron U.S.A. Inc.	0.14	882/266	n/a	n/a	n/a
	Smith, Tracy Samantha	Chevron U.S.A. Inc.	0.14	882/238	n/a	n/a	n/a
	Lopez, Terry M. et ux	Chevron U.S.A. Inc.	0.14	882/254	n/a	n/a	n/a
	Lloyd, Summer	Chevron U.S.A. Inc.	0.14	882/212	n/a	n/a	n/a
	Toth, Tabatha Jane	Chevron U.S.A. Inc.	0.14	885/614	n/a	n/a	n/a
					21/288		
4-10-11	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

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Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
4-11-8.3	Stout, James et ux	Chief Exploration & Development LLC	0.125	685/91	24/495 Chief Exploration & Development LLC to Radler 2000 Limited Partnership, Enerplus Resources (USA) Corporation, and AB Resources LLC	25/105 Chief Exploration & Development LLC, Radler 2000 Limited Partnership, and Enerplus (USA) Corporation to Chevron U.S.A. Inc.	756/397 AB Resources LLC to Chevron U.S.A. Inc.
4-11-8.2	Stout, James et ux	Chief Exploration & Development LLC	0.125	685/91	Chief Exploration & Development LLC to Radler 2000 Limited Partnership, Enerplus Resources (USA) Corporation, and AB Resources LLC	Chief Exploration & Development LLC, Radler 2000 Limited Partnership, and Enerplus (USA) Corporation to Chevron U.S.A. Inc.	756/397 AB Resources LLC to Chevron U.S.A. Inc.
4-11-8.4	Davis, Margaret L.	TriEnergy Holdings, LLC	0.16	717/422	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-11-8.5	Standiford, William R. II et ux	TH Exploration, LLC	0.18	869/219	36/168 TH Exploration, LLC to Chevron U.S.A. Inc.	n/a	n/a

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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 57<sup>th</sup> 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

  
4705101301

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

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Office of Oil & Gas  
DEC 01 2016

02/25/2017



**Madeline Fitzgerald**  
Land Representative

November 14, 2016

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

RE: Hicks 1H, 2H, 3H, 4H, 5H, 6H, 7H

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

4705104207  
Received  
Office of Oil & Gas  
DEC 01 2016

Appalachian Mountain Business Unit  
Chevron North America Exploration and Production Company  
A Division of Chevron U.S.A. Inc.  
700 Cherrington Parkway, Coraopolis, PA 15108  
Tel 412 865 1584 Mobile 719 859 0110  
MadelineFitzgerald@chevron.com

02/25/2017

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

Date of Notice Certification: 11/15/2016

API No. 47- \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. M06H  
Well Pad Name: Hicks

**Notice has been given:**

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>524095.923</u>
County: <u>Marshall</u>	Northing: <u>4413549.456</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WW-17</u>
Quadrangle: <u>Glen Easton, WV 7/5</u>	Generally used farm name: <u>Hicks</u>
Watershed: <u>Middle Grave Creek - Grave Creek</u>	

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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*Received  
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**Required Attachments:**

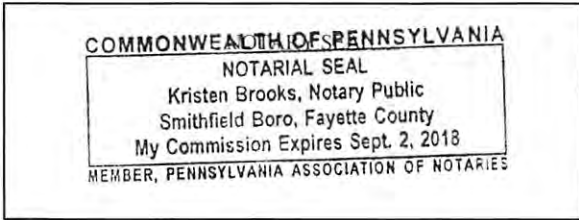
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

**Certification of Notice is hereby given:**

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

Well Operator: Chevron Appalachia, LLC  
By: Jenny Hayes  
Its: Permitting Team Lead  
Telephone: 724-564-3700

Address: 800 Mountain View Drive  
Smithfield, PA 15478  
Facsimile: 724-564-3894  
Email: \_\_\_\_\_



Subscribed and sworn before me this 15<sup>th</sup> day of Nov., 2016.  
Kristen Brooks Notary Public  
My Commission Expires Sept. 2, 2018

**Oil and Gas Privacy Notice:**

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

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

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

**Date of Notice:** 10/26/16 **Date Permit Application Filed:** 12/1/16

Notice of:

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

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

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

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

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

SURFACE OWNER(s)  
Name: Thomas E. Hicks  
Address: 353 Arbor Lane  
Moundsville, WV 26041

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

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: Jeffrey L. Ryan  
Address: 141 Clover Lane  
Moundsville, WV 26041

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

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

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

COAL OPERATOR  
Name: Murray Energy  
Address: 46226 National Road  
St. Clairsville, OH 43950

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: Kenneth B. Tagg  
Address: 3303 Big Grave Creek Rd  
Moundsville, WV 26041

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

\*Please attach additional forms if necessary

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*No Objection*

API No. 47 - \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. M06H  
Well Pad Name: Hicks

**COAL OWNER OR LESEE**

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: Vickie L. & Sidney P. Pond  
Address: 119 Labrador Lane  
Moundsville, WV 26041 /

No Ob.

**SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**

Name: Lillie Lavern Garey  
Address: 798 Big Grave Creek Rd.  
Moundsville, WV 26041

No objection

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DEC 0-1 2016

02/25/2017

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

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

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	West Virginia	East:	<u>1,658,020.149 ft</u>
County:	<u>Marshall</u>	North State Plane	North:	<u>501,880.512 ft</u>
District:	<u>Clay</u>	NAD 27	Public Road Access:	_____
Quadrangle:	_____	Generally used farm name:	<u>HICKS</u>	_____
Watershed:	_____			

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that Chevron U.S.A. Inc. drills the well on West Virginia North State Plane NAD 27 coordinates of North 501,880.512 ft, East 1,658,020.149 ft in accordance with the Agreement between Consolidation Coal Company, Murray American Energy and Chevron U.S.A. Inc. dated 9/12/2016.**

*Please check the box that applies <input type="checkbox"/> SURFACE OWNER <input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance) <input type="checkbox"/> SURFACE OWNER (Impoundments/Pits) <input type="checkbox"/> COAL OWNER OR LESSEE <input checked="" type="checkbox"/> COAL OPERATOR <input type="checkbox"/> WATER PURVEYOR <input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD	<b>Received</b> <b>Office of Oil &amp; Gas</b> <b>DEC 01 2016</b>	<b>FOR EXECUTION BY A NATURAL PERSON</b> Signature: _____ Print Name: _____ Date: _____
	<b>FOR EXECUTION BY A CORPORATION, ETC.</b> Company: <u>Consolidation Coal Company</u> By: <u>Alex O'Neill</u> Its: <u>Coal, Oil &amp; Gas Relations Manager</u> Signature: _____ Date: <u>9/20/2016</u>	

**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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

**02/25/2017**

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

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

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>524095.923</u>
County: <u>Marshall</u>	UTM NAD 83 Northing: <u>4413549.456</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WV-17</u>
Quadrangle: <u>Glen Easton, WV 7.5'</u>	Generally used farm name: <u>Hicks</u>
Watershed: <u>Middle Grave Creek - Grave Creek</u>	

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

\*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: *Sidney P Pond*  
Print Name: Sidney P Pond  
Date: 11-3-16

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: \_\_\_\_\_  
By: \_\_\_\_\_  
Its: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

**Received**  
**Office of Oil & Gas**

**DEC 01 2016**

**Oil and Gas Privacy Notice:**

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



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

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

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524095.923</u>
County:	<u>Marshall</u>		Northing:	<u>4413549.456</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

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

\*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: Mary L. Randolph POA  
Print Name: Mary L. Randolph  
Date: 11/7/14

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: \_\_\_\_\_  
By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: DEC 01 2016

**Oil and Gas Privacy Notice:**

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

02/25/2017

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

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

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

**Comment and Waiver Provisions**

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

State:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>524095.923</u>
County:	<u>Marshall</u>		Northing:	<u>4413549.456</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WV-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input checked="" type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: <u>Kenneth B. Jagg</u></p> <p>Print Name: <u>KENNETH B. JAGG</u></p> <p>Date: <u>12/11/16</u></p> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: _____</p> <p>By: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
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**Received**  
**Office of Oil & Gas**  
**DEC 01 2016**

**Oil and Gas Privacy Notice:**

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

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well 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 semi-circular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the State. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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Office of Oil & Gas  
DEC 07 2016

Such persons may request, at the time of submitting written comments, notice of the permit decision and ~~2016~~ of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

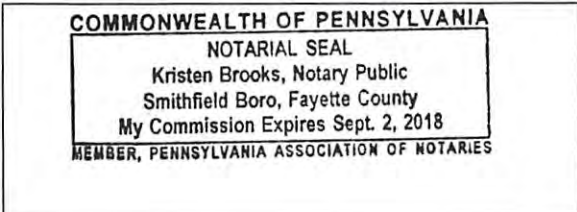
Received  
Office of Oil & Gas  
DEC 01 2016

Notice is hereby given by: Jenny Hays  
Well Operator: Chevron Appalachia, LLC  
Telephone: 724-564-3755  
Email: jzyk@chevron.com

Address: 800 Mountain View Dr.  
Smithfield, PA 15478  
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](mailto:deprivacyofficer@wv.gov).



Subscribed and sworn before me this 19th day of Oct, 2016

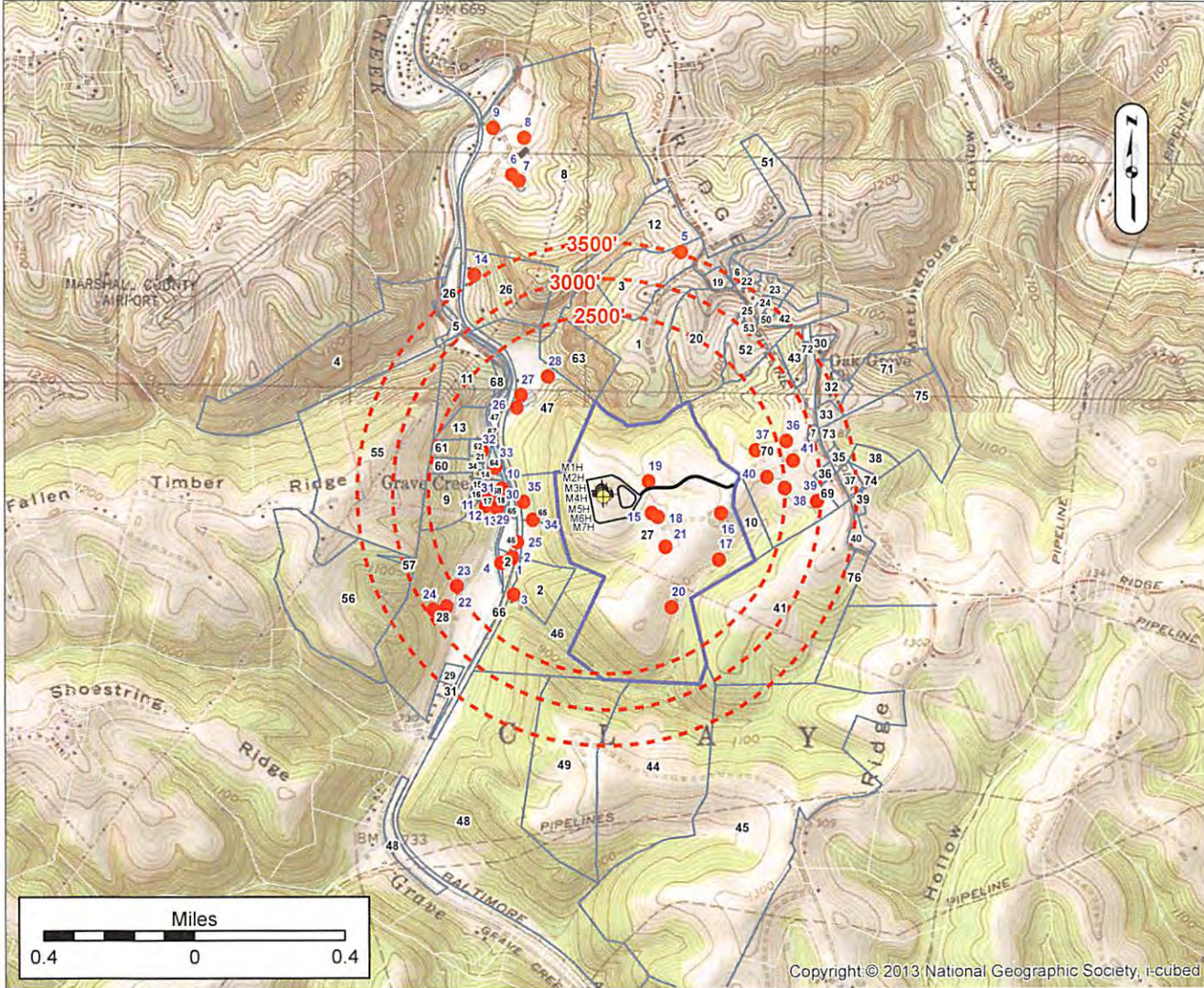
Kristen Brooks Notary Public

My Commission Expires Sept 2, 2018

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# WATER SUPPLY EXHIBIT HICKS PAD



### LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
1	SCHMER LESLIE B & LORI	25-04 8001800000000	17	CLAYTON RALPH L ET UX	25-04 8001500000000	33	SCHAMAN GERRY F & SUZANNE K	25-04 9000200000000	49	COSTER EDWARD B ET UX ESTS	25-04 1000010000000
2	POND VICKIE P ET UX	25-04 8001600000000	18	POND SIONE Y P & VICKI L	25-04 8002500000000	34	WINTER VAL ANDREW ET UX	25-04 8002500000000	50	FERRER ROBERT V ET UX	25-04 4005800100000
3	ADKINS JASON B & DAWN R	25-04 4007500000000	19	RICHEY ROBERT L ET AL	25-04 4005800130000	35	LOSH ROGER W & JODY L	25-04 9000200110000	51	OCH JOHN W III ET UX	25-04 4005800100000
4	MERCER CHARLES W JR & JUDY	25-04 8001600000000	20	CHAMBERS MONTE J ET UX	25-04 8001800010000	36	HENRY MINNIE L - LIFE	25-04 9000200010000	52	CHAMBERS FELINDA & MONTE	25-04 4005800110000
5	CLARK PATSY ANN	25-04 8001300000000	21	LITMAN RICHARD E JR ET UX	25-04 8001700000000	37	KOONCE MARTHA F & JAMES S L	25-04 9000200100000	53	CARPENTER DONALD T ET UX	25-04 4005800100000
6	LITTLETON HARRY TERODY ET UX	25-04 4005800000000	22	NEED JAMES L ET UX	25-04 4005800100000	38	MUNICH CAROL LYNN ET VTR	25-04 9000200000000	54	CONSOLIDATION COAL COMPANY	25-04 4007400000000
7	HICKS TERESA M	25-04 9000200010000	23	TRIPLETT JASON L & TRICIA L	25-04 4005800180000	39	LYONS CHRISTINA S	25-04 9000500000000	55	ASTON HENRY W & LINDA M - LIFE	25-04 8001700000000
8	MOUNTAINEER ENTERPRISES LLC	25-04 4003000000000	24	STERN JAMES MARTIN ET UX	25-04 4005800150000	40	MILLER ROBERT D ET UX	25-04 8001200000000	56	ROMAR FAMILY IRREVOCABLE TR	25-04 8001800000000
9	LITMAN RICHARD E SR	25-04 8001300000000	25	CARPENTER DONALD T JR	25-04 4005801100000	41	SCHAMAN JAMES R ET UX	25-04 9001100000000	57	WILLIAMS MABEL L JUANITA	25-04 8001800000000
10	HICKS LUCILLE E	25-04 8001700010000	26	BUCHANAN JANE T EDWARDS	25-04 4001500000000	42	FERRER ROBERT V ET UX	25-04 4005800000000	58	POND SIONE Y P & VICKIE L	25-04 8001600000000
11	HOBBS DONNIE ET UX	25-04 8001500011000	27	HICKS THOMAS E	25-04 8001300000000	43	MCGARY RUBY LAVERNE ET AL - LIFE	25-04 9000200000000	60	LITMAN RICHARD E SR	25-04 8001700000000
12	GONCHOFF JOSEPH	25-04 4005700000000	28	WILLIAMS MABEL L JUANITA	25-04 8002300000000	44	COSTER EDWARD B ET UX ESTS	25-04 1000030000000	61	LITMAN RICHARD E SR	25-04 8001300000000
13	THOMAS DENVER O ET UX	25-04 8003200000000	29	MARTIN MARILYN	25-04 8002300030000	45	WINGROVE DENNIS D ET UX	25-04 1000040000000	62	LITMAN RICHARD EARL SR	25-04 8001300000000
14	WHEELATCH RICHARD P & JAMIE L	25-04 8002800000000	30	DAV GROVE M A CHURCH	25-04 9000100000000	46	GARET L L LUE LAVERN	25-04 8001600000000	63	SCHMER LESLIE B & LORI D	25-04 8001800000000
15	TAGG KENNETH R	25-04 8002700000000	31	ALLAMAN MICHAEL RAY	25-04 8001300002000	47	STERN RONALD ELWOOD ET UX	25-04 8001500000000	64	LITMAN RICHARD E SR	25-04 8001500000000
16	CLAYTON RALPH L ET UX	25-04 8002700001000	32	HENKMAN JASON C & CHRISTINA M	25-04 9000200170000	48	NOLDSVILLE CITY OF	25-04 1000010000000	65	POND VICKIE L & SIEREY P	25-04 8001600010000

Surface Owner: THOMAS E. HICKS  
 Oil/Gas Owner: THOMAS E. HICKS  
 Well Operator: CHEVRON APPALACHIA, LLC  
 Address: 800 MOUNTAIN VIEW DRIVE  
SMITHFIELD, PA. 15478  
 Phone: 724-564-3700

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

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02/25/2017

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

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

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

**Notice Time Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.  
**Date of Notice:** 10/26/2016      **Date Permit Application Filed:** 12/1/16

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

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Thomas E. Hicks  
Address: 353 Arbor Lane  
Moundsville, WV 26041

Name: Jeffrey L. Ryan  
Address: 141 Clover Lane  
Moundsville, WV 2604

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524095.923</u>
County:	<u>Marshall</u>		Northing:	<u>4413549.456</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WV-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: Chevron Appalachia, LLC  
Address: 800 Mountain View Drive  
Smithfield, PA 15478  
Telephone: 724-564-3700  
Email: \_\_\_\_\_  
Facsimile: 724-564-3894

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

**Oil and Gas Privacy Notice:**

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

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

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

**Date of Notice:** 10/26/2016      **Date Permit Application Filed:** 12/1/16

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

**CERTIFIED MAIL**                                       **HAND**  
**RETURN RECEIPT REQUESTED**                                      **DELIVERY**

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

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

**Name:** Thomas E. Hicks  
**Address:** 353 Arbor Lane  
Moundsville, WV 26041

**Name:** Jeffrey L. Ryan  
**Address:** 141 Clover Lane  
Moundsville, WV 26041

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524095.923</u>
County:	<u>Marshall</u>		Northing:	<u>4413549.456</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

**This Notice Shall Include:**

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

Well Operator:	<u>Chevron Appalachia, LLC</u>	<b>Received</b> <b>Office of Oil &amp; Gas</b> <b>DEC 01 2016</b>	Address:	<u>800 Mountain View Drive</u>
Telephone:	<u>724-564-3700</u>			<u>Smithfield, PA 15478</u>
Email:	<u></u>		Facsimile:	<u>724-564-3894</u>

**Oil and Gas Privacy Notice:**

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

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

Earl Ray Tomblin  
Governor

Paul A. Mattox, Jr., P. E.  
Secretary of Transportation/  
Commissioner of Highways

November 7, 2016

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

1705702278

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

Hicks A Unit 1H

Hicks A Unit 2H

Hicks A Unit 3H

Hicks A Unit 4H

Hicks A Unit 5H

Hicks A Unit 6H

Hicks A Unit 7H

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  
Central Office Oil & Gas Coordinator

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

Received  
Office of Oil & Gas

DEC 01 2016

02/25/2017

## Section VI - Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	
State:	WV
County:	Marshall
API Number:	047-51-XXXXX
Operator Name:	Chevron
Well Pad Name:	Hicks
Longitude:	39.872100
Latitude:	-80.711825
Long/Lat Projection:	NAD 83
Production Type:	
True Vertical Depth (TVD):	
Total Water Volume (gal)*:	116,001,000

4705109201

### Hydraulic Fracturing Fluid Additives:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Comments
Corrosion Inhibitor A264	Schlumberger	Corrosion Inhibitor	Methanol/Aliphatic Acids/Prop-2-yn-1-ol/Aliphatic Alcohols, ethoxylated #1	Mixture	
28% HCl Acid	Schlumberger	Used to open perms	Hydrochloric Acid	7647-01-0	
Breaker J134	Schlumberger	Gel Breaker	Hemicellulase Enzyme	9012-54-8	
Water Gelling Agent J580	Schlumberger	Water Viscosifier	Carbohydrate Polymer	Proprietary	
Friction Reducer J609	Schlumberger	Friction Reducer	Ammonium Sulfate	7783-20-2	
Iron Stabilizer L58	Schlumberger	Iron Stabilizer	Sodium Erythorbate	6381-77-7	
EC6116A	Nalco	Biocide	Dibromoacetonitrile/2,2-Dibromo-3-nitripropionamide/Polyethylene Glycol	Mixture	
EC6486A Scale Inhibitor	Nalco	Scale Inhibitor	Amine Triphosphate/Ethylene Glycol	Mixture	
NALCO EC6673W	Nalco	Iron Control	Ethylene Glycol	107-21-1	
S012-3050	Schlumberger	Proppant	Crystalline Silica	14808-60-7	
S012-4070	Schlumberger	Proppant	Crystalline Silica	14808-60-7	

\* 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 MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

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Know what's below  
Call before you dig

# HICKS WELL PAD

## EROSION AND SEDIMENT CONTROL PLANS

FORK RIDGE ROAD (C.R. 17)  
CLAY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA



PREPARED FOR:

**CHEVRON APPALACHIA, LLC**  
800 MOUNTAIN VIEW DRIVE  
SMITHFIELD, PA 15478

### CONSULTANTS

BLUE MOUNTAIN AERIAL MAPPING  
11023 MASON DIXON HIGHWAY  
BURTON, WEST VIRGINIA 26052  
304.692.2628

HICKS LIMITS OF DISTURBANCE AREA (AC)	
TOTAL SITE	
ACCESS ROADS	7.7
WELL PAD	19.7
TOTAL AFFECTED AREA	27.4
TOTAL WOODED ACRES DISTURBED	0.1
IMPACTS TO RYAN JEFFREY L	
ACCESS ROADS	2.2
WELL PAD	0.0
TOTAL AFFECTED AREA	2.2
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS LUCILLE E	
ACCESS ROADS	0.1
WELL PAD	0.0
TOTAL AFFECTED AREA	0.1
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS THOMAS E	
ACCESS ROADS	5.2
WELL PAD	19.9
TOTAL AFFECTED AREA	25.0
TOTAL WOODED ACRES DISTURBED	0.1



SITE LOCATION MAP  
USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP  
MOUNDSVILLE & GLEN EASTON, WV 1997  
1" = 2000'

SHEET INDEX	
NO.	TITLE
CS 000	COVER SHEET
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ES 102	EROSION AND SEDIMENT CONTROL PLAN
ES 103	EROSION AND SEDIMENT CONTROL PLAN
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ES 112	EROSION AND SEDIMENT CONTROL DETAILS
ES 113	WELL PAD CROSS SECTION PLAN
ES 114	WELL PAD CROSS SECTIONS A AND B
ES 115	STOCKPILE CROSS SECTIONS C, D, E AND F
ES 116	ARBOR LANE PLAN AND PROFILE
ES 117	ACCESS ROAD PLAN AND PROFILE
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GE 501	GEOTECHNICAL SUBSURFACE SUMMARY
GE 502	GEOTECHNICAL CROSS SECTIONS
GE 503	GEOTECHNICAL TEST BORING INFORMATION
GE 504	GEOTECHNICAL SUBSURFACE DETAILS AND NOTES
PC 600	RECLAMATION PLAN WITH AERIAL
PC 601	RECLAMATION PLAN

LEGEND		EXISTING		PROPOSED	
TC - TOP OF CURB	---	C	CABLE TV	○	SHRUB
G - GUTTER	---	○	CLEANOUT	○	CLEANOUT
TW - TOP OF WALL	---	---	CONTOUR (MAJOR)	---	CONTOUR (MAJOR)
BW - BOTTOM OF WALL	---	---	CONTOUR (MINOR)	---	CONTOUR (MINOR)
TS - TOP OF SLOPE	---	D	DATA LINE	---	DATA LINE
BS - BOTTOM OF SLOPE	---	E	ELECTRIC LINE	---	ELECTRIC LINE
SAN - SANITARY	---	ETC	ELEC-TEL-COM	---	EASEMENT
ST - STORM	---	F	FENCE LINE	---	ELE
MH - MANHOLE	---	FM	FORGE MAIN	---	ELEC-TEL-COM
TOP - TOP OF CASTING	---	L	LOT LINE	---	FENCE LINE
FL - FLOWLINE	---	OH	OVERHEAD WIRES	---	FM
WW - WATER VALVE	---	---	PROPERTY LINE	---	GAS
GV - GAS VALVE	---	---	RIGHT-OF-WAY	---	GHE
PH - FIRE HYDRANT	---	---	ROAD CENTERLINE	---	OVERHEAD WIRES
CO - CLEANOUT	---	---	ROAD CENTERLINE	---	PROPERTY LINE
STD - STANDARD	---	---	TELEPHONE LINE	---	RIGHT-OF-WAY
PM - PARKING METER	---	---	TREE LINE	---	ROAD CENTERLINE
MB - MAILBOX	---	---	WATER LINE	---	SAN
DE - DOOR SW	---	---	WATER LINE	---	SAN LATERAL
					SPOT ELEVATIONS
					STORM SEWER
					TELEPHONE LINE
					TREE LINE
					WATER LINE
					WATER LINE LATERAL
					YARD DRAIN

START OF ARBOR LANE AT FORK RIDGE ROAD  
LATITUDE: 39 873751 N LONGITUDE: 80 707481 W

START OF ACCESS ROAD AT ARBOR LANE  
LATITUDE: 39 8721 N LONGITUDE: 80 711625 W

WELL PIN "M1H"  
LATITUDE: 39 871847 N LONGITUDE: 80 716297 W

WELL PIN "U05H"  
LATITUDE: 39 871678 N LONGITUDE: 80 717811 W

BASED ON NAD 83 WEST VIRGINIA, STATE PLANE, NORTH ZONE,  
U.S. FOOT

WATERSHED NAME (WW WATER PLAN) UPPER OHIO - WHEELING

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

Michael Baker  
INTERNATIONAL  
MICHAEL BAKER INTERNATIONAL  
CONSULTING ENGINEERS  
MOON TOWNSHIP, PENNSYLVANIA



REVISION RECORD	
NO.	DATE
1	12/27/2016
2	
3	
4	
5	
6	
7	
8	

HICKS WELL PAD  
FOR CHEVRON APPALACHIA, LLC  
CLAY DISTRICT, MARSHALL COUNTY  
PREPARED FOR:  
CHEVRON APPALACHIA, LLC  
800 MOUNTAIN VIEW DRIVE  
SMITHFIELD, PA 15478

COVER SHEET

Project Number: 153816  
Drawing Scale: AS SHOWN  
Date Issued: 10-13-2016  
Index Number:  
Created By: JAC  
Checked By: BLR  
Project Manager: TMP

CS000



**SITE LOCATION MAP**  
USGS MOUNDSVILLE & GLEN EASTON QUADS  
1" = 2000'

- NOTES**
- THE UNDERGROUND UTILITIES SHOWN ON HERE HAVE BEEN PHYSICALLY LOCATED BY SURVEY. THE 811 CALL (811-2281818) WAS COMPLETED ON MAY 26, 2016. NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. PLAN PROVIDED FOR REFERENCE ONLY. MICHAEL BAKER INTERNATIONAL DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.
  - EXISTING TOPOGRAPHICAL DATA PROVIDED FROM BLUE MOUNTAIN SURVEY DATED MARCH 27, 2016, BASED ON NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. FOOT.
  - ENVIRONMENTAL SCREENING PERFORMED ON APRIL 28, 2016 BY MICHAEL BAKER INTERNATIONAL.
  - GRADE ALL CHANNELS TO PROVIDE POSITIVE FLOW TO THE OUTFALL.
  - ROCK FILTERS BELOW CROSS DRAINS TO BE CONSTRUCTED PER DETAIL.
  - SIX INCHES OF TOPSOIL SHALL BE PLACED ON ALL FINAL SLOPES PRIOR TO FINAL STABILIZATION.
  - STOCKPILE VOLUME INCLUDES 4,000 CY FOR FUTURE FACILITIES WORK.
  - WELL PAD FILLS
    - FILLS SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY (ASTM D-998).
    - MAXIMUM LIFT THICKNESS FOR FILLS WILL BE 8".
    - FILL SHALL BE FREE OF OBJECTIONABLE MATERIAL NOTHING LARGER THAN 4".
    - ROCK FILL LIFTS SHALL NOT THICKER THAN 18".
  - CELLARS FOR WELLS WITH THROUGH WITH WILL BE INSTALLED DURING THE INITIAL SITE CONSTRUCTION. THE REMAINING CELLARS WILL BE INSTALLED AS THE DRILLING PROGRAM PROGRESSES.

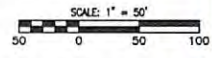
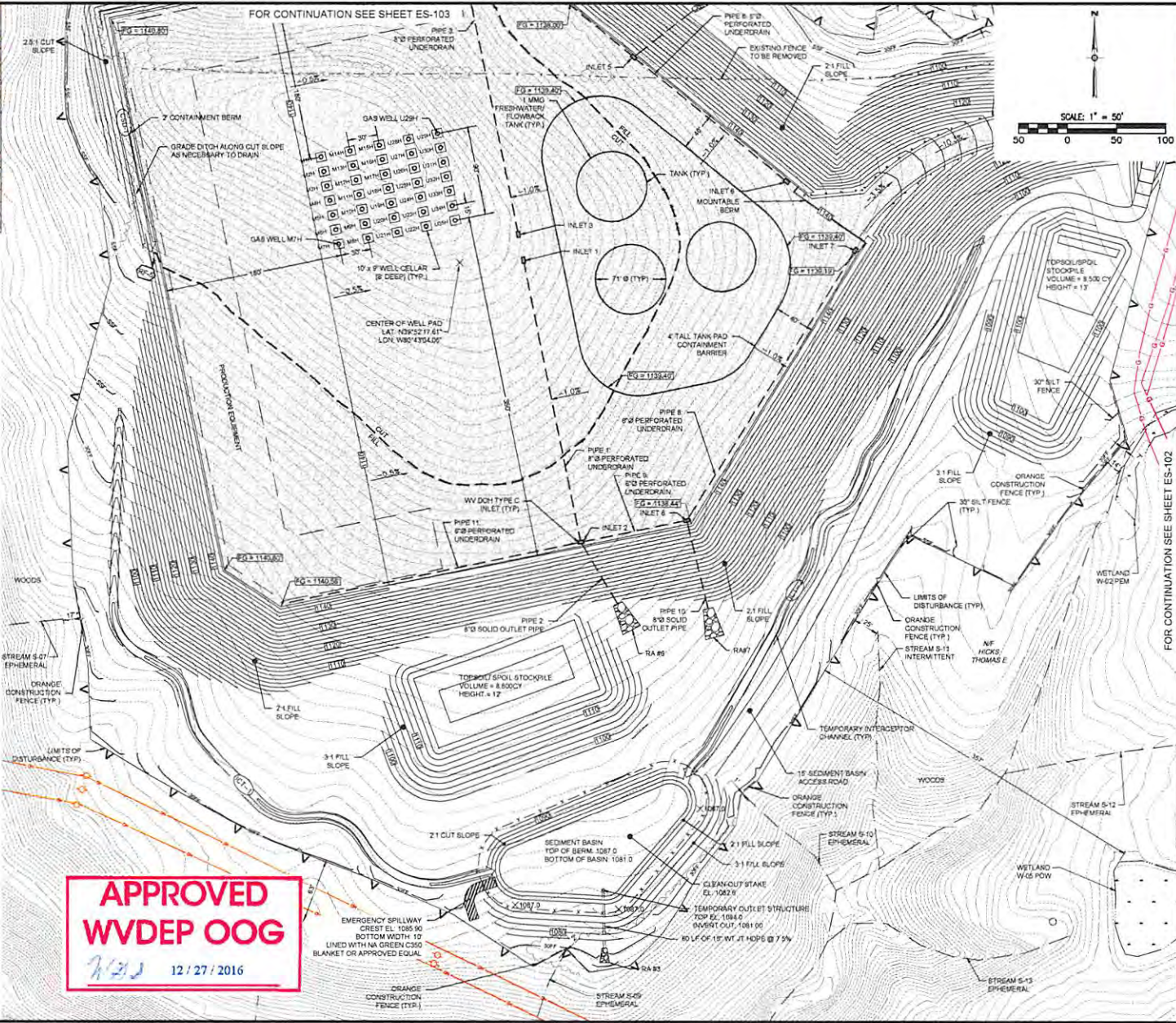
TOTAL AREA = 27.4 ACRES  
DISTURBED AREA = 27.4 ACRES



Know what's below  
Call before you dig

**EROSION & SEDIMENT CONTROL LEGEND**

- LIMITS OF DISTURBANCE/PROJECT LIMIT
- 18' SILT FENCE
- 30' SILT FENCE
- SUPER SILT FENCE
- ORANGE CONSTRUCTION FENCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- ROCK FILTER
- RIP RAP APRON
- TEMPORARY INTERCEPTOR CHANNEL
- ACCESS ROAD CHANNEL
- CUT SLOPE DITCH



**Michael Baker INTERNATIONAL**  
MICHAEL BAKER INTERNATIONAL  
CONSULTING ENGINEERS  
MOON TOWNSHIP, PENNSYLVANIA



FOR CONTINUATION SEE SHEET ES-102

NO.	DATE	REVISION RECORD
01	12/27/2016	REVISED PER WV DEP COMMENTS
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03		
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09		
10		

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

**EROSION AND SEDIMENT CONTROL PLAN**

Project Number: 150916  
Drawing Scale: AS SHOWN  
Date Issued: 10-13-2016  
Index Number:  
Drawn By: JAC  
Checked By: BLR  
Project Manager: TMP

**ES 104**



Know what's below  
Call before you dig

# HICKS W

## EROSION AND SEDIM

### FORK RIDGE

### CLAY DISTRICT, MARSHAL

PREPA

# CHEVRON AP

## 800 MOUNTA

## SMITHFIELD

CONSULTANTS	
BLUE MOUNTAIN AERIAL MAPPING 11023 MASON DIXON HIGHWAY BURTON, WEST VIRGINIA 26562 304-662-2626	

HICKS LIMITS OF DISTURBANCE AREA (AC)	
TOTAL SITE	
ACCESS ROADS	7.7
WELL PAD	19.7
TOTAL AFFECTED AREA	27.4
TOTAL WOODED ACRES DISTURBED	0.1
IMPACTS TO RYAN JEFFREY L	
ACCESS ROADS	2.2
WELL PAD	0.0
TOTAL AFFECTED AREA	2.2
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS LUCILLE E	
ACCESS ROADS	0.1
WELL PAD	0.0
TOTAL AFFECTED AREA	0.1
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS THOMAS E	
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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

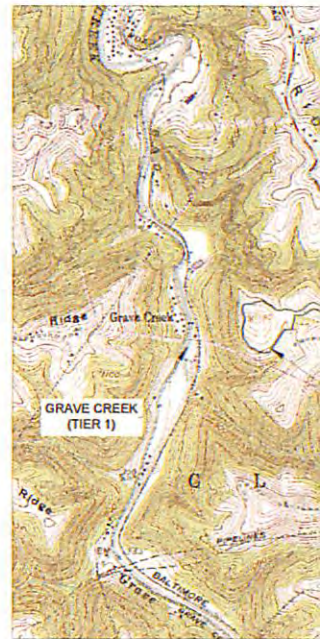
WELL PIN "M1H"  
LATITUDE: 39.871847 N LONGITUDE: 80.718297 W

WELL PIN "U35H"  
LATITUDE: 39.871678 N LONGITUDE: 80.717811 W

BASED ON NAD 83 WEST VIRGINIA, STATE PLANE, NORTH ZONE,  
U.S. FOOT

WATERSHED NAME (WV WATER PLAN): UPPER OHIO - WHEELING

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



SITE LOC  
USGS 7.5' TOPOGRAP  
MOUNDSVILLE & GI

LEGEND	EXISTING
TC - TOP OF CURB	--- C --- CABLE TV
G - GUTTER	--- CONTOUR (MAJOR)
TW - TOP OF WALL	--- CONTOUR (MINOR)
BW - BOTTOM OF WALL	--- D --- DATA LINE
TS - TOP OF SLOPE	--- E --- ELECTRIC LINE
BS - BOTTOM OF SLOPE	--- ETC --- ELEC-TEL-COM
SAN - SANITARY	--- F --- FENCE LINE
ST - STORM	--- FM --- FORCE MAIN
MH - MANHOLE	--- G --- GAS LINE
TOP - TOP OF CASTING	--- L --- LOT LINE
FL - FLOW LINE	--- OH --- OVERHEAD WIRES
WV - WATER VALVE	--- P --- PROPERTY LINE
GV - GAS VALVE	--- R --- RIGHT-OF-WAY
FH - FIRE HYDRANT	--- --- ROAD CENTERLINE
CO - CLEAN OUT	--- --- SEWER
STD - STANDARD	--- T --- TELEPHONE LINE
PM - PARKING METER	--- --- TREE LINE
MB - MAILBOX	--- W --- WATER LINE
DS - DOOR SILL	

02/25/2017

# WELL PAD EROSION AND SEDIMENT CONTROL PLANS

ROAD (C.R. 17)  
COUNTY, WEST VIRGINIA

FOR:

APPALACHIA, LLC

VIEW DRIVE  
PA 15478



ON MAP  
C QUADRANGLE MAP  
EASTON, WV 1997

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PC 600	RECLAMATION PLAN WITH AERIAL
PC 601	RECLAMATION PLAN

PROPOSED	
---	BLDG SETBACK LINE
---	CABLE TV
---	CONTOURS (MAJOR)
---	CONTOURS (MINOR)
---	DATA LINE
---	EASEMENT
---	ELECTRIC LINE
---	ELEC-TEL-COM
---	FENCE LINE
---	FORCE MAIN
---	GAS LINE
---	OVERHEAD WIRES
---	PROPERTY LINE
---	RIGHT-OF-WAY
---	ROAD CENTERLINE
---	SANITARY LINE
---	SANITARY LATERAL
---	SPT ELEVATIONS
---	STORM SEWER
---	TELEPHONE LINE
---	TRIPLE LINE
---	WATER LINE
---	WATER LINE LATERAL
○	SHRUB
○	CLEARCUT
—	ENDWALL
●	FIRE HYDRANT
⊕	GAS VALVE
⊖	HOLE
*	LIGHT
⊕	STORM MANHOLE
⊕	SAN MANHOLE
△	MARKER
⊕	METER - E. O. D.
○	PERC HOLE
⊕	POLE
○	SIGN
⚡	TELEPHONE
○	TREE
○	VENT
⊕	WATER VALVE
⊕	YARD DRIFT

*TM*  
11/14/16

Received  
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DEC 01 2016

**Michael Baker**  
INTERNATIONAL  
MICHAEL BAKER INTERNATIONAL  
CONSULTING ENGINEERS  
MOON TOWNSHIP, PENNSYLVANIA



REVISION RECORD	
No.	Date
01	
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FORK RIDGE ROAD - C.R. 17  
CLAY DISTRICT, MARSHALL COUNTY  
PREPARED FOR:  
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800 MOUNTAIN VIEW DRIVE  
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COVER SHEET  
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