

west virginia department of environmental protection

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

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

Monday, September 17, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Permit approval for LONGWORTH M14H Re: 47-051-02081-00-00

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: LONGWORTH M14H

Farm Name: GRAHAM H. LONGWORHT JR

U.S. WELL NUMBER: 47-051-02081-00-00

Horizontal 6A New Drill Date Issued: 9/17/2018

API N	mber:	
ONS	4705102081	

PERMIT CONDITIONS

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

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well.
- 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:	
	09/21/2018

PERMIT CONDITIONS 4705102081

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.

WW-6B (04/15)

API NO. 47	
OPERATOR WELL	. NO. <u>M14H</u>
Well Pad Name:	Longworth

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

1) Well Operat	or: Chevron A	ppalachia, LLC	49449935	Marshall	Clay	Glen Easton, WV
			Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number: M	14H	Well Pad	Name: Long	worth	
3) Farm Name/	Surface Owner:	Graham H Longwo	rth Jr. Public Road	d Access: Rob	erts Ridge	Road/WV-21
4) Elevation, co	urrent ground:	1294.18' Ele	evation, proposed p	post-constructi	on:	
5) Well Type	(a) Gas X	Oil	Unde	rground Storag	ge	
	Other					
	` `	allow X	Deep			
		orizontal X			\bigcirc	0/20/10
	: Yes or No Ye				//	8/30/18
	rget Formation(531, 61' thick, 0.6	s), Depth(s), Antici 4 psi/ft gradient	pated Thickness ar	nd Expected Pr	essure(s):	
8) Proposed To	tal Vertical Dep	th: 6,511'				
9) Formation at	Total Vertical I	Depth: Marcellus				
10) Proposed T	otal Measured D	Depth: 11,942'				
11) Proposed H	orizontal Leg L	ength: 4,606'				
12) Approxima	te Fresh Water S	Strata Depths:	568'			
13) Method to I	Determine Fresh	Water Depths: 1	mile radius searc	ch around pad	location	
14) Approxima	te Saltwater Dep	oths: 1279', 1883',	2134'			
15) Approxima	te Coal Seam De	epths: 520', 836'				
16) Approximat	te Depth to Poss	ible Void (coal mir	ne, karst, other): \underline{N}	lone		
17) Does Propo directly overlying	sed well location ng or adjacent to	n contain coal seam an active mine?		No	X	
(a) If Yes, pro	vide Mine Info:	Name:				
·		Depth:			· · · · · · · · · · · · · · · · · · ·	
		Seam:				***************************************
		Owner:				

API NO. 47-___

OPERATOR WELL NO 9/1/2018

Well Pad Name: Longworth

4705 * 02081

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New			60	60	CTS
Fresh Water	13.375	New	J-55	54.5	618	618 V	CTS
Coal							
Intermediate	9.625	New	L-80/N-80	40	2,206	(2,206)	CTS
Production	5.5	New	P110	20	11,942	11,942	2706 (500' below 9.625" shoe)
Tubing							
Liners		-					

Dr/5/18

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

PACKERS

Kind:	
Sizes:	
Depths Set:	

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JUL 19 2018

	API	NO. 47
47	0	OPERATOR WELL NO <u>0491/2018</u> 5 Veil Pod 2 a Me: 8 on worth

g~ 2/5/18

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

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,511 feet. Drill horizontal leg.

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

9,525 bbl fluid - 400,000 lb sand/stage - 9,400 anticipated max psi - 100 bpm anticipated max rate

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 38.9
- 22) Area to be disturbed for well pad only, less access road (acres): 19.3

23) Describe centralizer placement for each casing string:

Surface: bow spring - (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: bow spring - (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Vertical Production: bow spring - (1) per every other jt over coupling; Curve and Lateral: solid composite (1) per jt of csg to KOP.

24) Describe all cement additives associated with each cement type:

For the Water String the blend will contain class A cement, 3% CaCl2, and flake. The intermediate will contain class A cement, 3% CaCl2, 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.

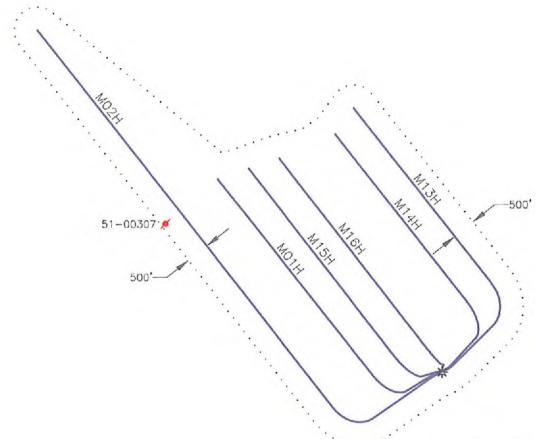
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*Note: Attach additional sheets as needed.

4705102081





Office of Oil and Gas

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WV Department of Environmental Protection



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

PREPARED FOR:

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY CORAOPOLIS, PA 15108

LEGEND





PLUGGED WELL

LONGWORTH BATCH #2 AREA OF REVIEW MAP MARSHALL COUNTY **CLAY DISTRICT** WEST VIRGINIA

TOPO QUAD: GLEN EASTON, WV

SCALE: 1" = 2000'

DATE: JANUARY 3, 2018

Producing Zones NOT Perforated

None None

Producing Formation

3,000 1,168

Longitude -80.748193 -80.720930

Latitude 39.855780 39.843735

Status Plugged Plugged

Operator - DEP

Prior Operator On Record

Arrowhead Exploration Co. Kentucky Central & Co.

Well ID 47-051-00307 47-051-00553

Operator Unknown Operator Unknown

Fourth Salt Sands 09/21/2018

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Cement Additives

The Water String the blend will contain class A cement, 3% CaCl2, and flake.

The intermediate will contain class A cement, 10% CaCl2, 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, KCI, dispersant, de-foamer, suspension agent, and friction reducer.

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*Of				Lon	gworth M		17 00	- O E O O
Twp, Marshall Co, W	v					G	round Level Elev. (ft above 5L):	1270
DRILLING FLUID / SHETYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	MD (FT)	TVO (FI)	WELLHEAD DESIGN	HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger	2 Bowspring per it	20" Conductor	42	42	INC AZM	30	Conductor 20" 78.57# X-52 Minimum 40 ft from GL or at lea	Grout to Surface ist 10 ft into bedrock
	Bow Spring: (1) on anous track w/ stop collar & (1) per if over coupling to surface						Surface Casing 13-3/8* 54 54 3-55 BTC 0.38* Wall Coupling OD (in) 14 375 10 (in) 12 615 Orrit ID (in) 12 452 Burst (ps) 2730 Collapse (ps) 1,130 Yield (h Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
		13-3/8" Casing	618	618		17.5	Minimum 50 ft past deepest k	nown fresh water
	Bow Spring: (3) on shoe track w/ stop collar (4) per 3 /s over coupling						Intermediate Caling 9-5/8" 40# I-55 BTC 0.995" Wall Coupling OD (in) 10.625 ID (in) 8.875 Drift ID (in) 8.679 Burst (psi) 3,960 Collapse (psi) 2,570 Yield (Jt Strength 1,000 lbs) 630	Intermediate II Blend (Class Al Cement to Surface
	Yertical Eow Spring:	9-5/8" Casing	2,184	2,184		12.375 - 12.25	Production Casing	Production tead Slarry
	(1) per every other it over couping <u>Course and Lateral</u> Solid Companie (1) per jt of sig to KOP						5 1/2" 208 P 110 EC, 0.361" Wall Coupling OD (in) 8.300 ID (in) 4.778 Drift ID (in) 4.653 Eurat (pai) 14360 Dol apse (psi) 12090 Yield (Jt Strength 1.000 lbs) 729	Cement to Surface
		Middlesex Burkett Shale		6 293 6 369				
		Tully Limestone		6,389				
		Hamilton shale		6,423			4	
		Upper Marcellus		6,491				Production Tail Sturry TOC minimum 200' above Marcel
		Lower Marcellus Basal Marcellus		6,522 6,547				
	Float Equip. (2) its of Csg							2/5/18
Non-Conservation	Float Equip.	5-1/2" Casing	11,942	6,511		8.5 - 8.75		1/5/12

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API Number 47 -		09/	21	/20)18	,
Operator's Well Noz Legs	0 5 mg	02	0	8	1	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC	OP Code 49449935	
	le Glen Easton, WV 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the propose		No 🗌
Will a pit be used? Yes No 🗸	V V	110
If so, please describe anticipated pit waste:		
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:		RECEIVED
Land Application (if selected provide a completed for	orm WW-9-GPP)	Office of Oil and Gas
Underground Injection (UIC Permit Number		JUL 1 9 2018
Rouse (at API Number_at next anticipated well		
Off Site Disposal (Supply form WW-9 for disposal Other (Explain	location)	WV Department of Environmental Protection
	V	
Will closed loop system be used? If so, describe: Yes, we will be utilizing multiple	ole open top tanks	1
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshv	vater, oil based, etc. Air & 0	Oil Based
-If oil based, what type? Synthetic, petroleum, etc. Synthetic		
Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological co	ontrol	
Drill cuttings disposalmethod? Leave in pit, landfill, removed offsite, etc. Re	emoved offsite	
-If left in pit and plan to solidify what medium will be used? (cement		
-Landfill or offsite name/permit number? Arden Landfill #100172, South F		eek Landfill #WW109517
Permittee shall provide written notice to the Office of Oil and Cas of any load West Virginia solid waste facility. The notice shall be provided within 24 hour where it was properly disposed.	of drill cuttings or associat s of rejection and the permi	ted waste rejected at any ittee shall also disclose
I certify that I understand and agree to the terms and conditions of the on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or conduction can lead to enforcement action. I certify under penalty of law that I have personally examined and application form and all attachments thereto and that, based on my inquiry of the information. I believe that the information is true, accurate, and complete submitting false information, including the possibility of fine or imprisonment.	nt of Environmental Protedition of the general permit am familiar with the infense individuals immediateles. I am aware that there:	ction. I understand that the and/or other applicable law brmation submitted on this y responsible for obtaining
Company Official Signature Jenny Ha	100	
Company Official (Typed Name) Jenny Hayes	8	
Company Official Title Permitting Team Lead		
Subscribed and swom before me this 19th day of January	, 20 18 Notary Public	✓
My commission expires September 17 2018	1	mmsnweelth of Pennsylvania - Notary S Laura Savage, Notary Public
Commonwealth of Pennsylvania	14.5	Allegheny County
County of Allecheny		dammission expires September 17, 20 Cammission number 1285773
Cours of Mileaner	Me	mest, Pannaylvania Association of Notar

Lime Per soil testing report Tons/acre or to correct to		port
	Per soil testing report	
Fertilizer type See table C attached		
Fertilizer amount 1,000	lbs/acre	
Mulch 2 To		
	Seed Mixtures	
Temporary	Permanent	
Seed Type lbs/acre	Seed Type lbs/acre	
See table A attached	See table B attached	
ovided). If water from the pit will be land applied, provide, W), and area in acres, of the land application area.	le water volume, include dimensions (L. W, D) of the pit, and o	dimen
1:-1 0 0		
an Approved by: Jun Cuchols		
omments:		
omments:		
omments:	RECEIVED Office of Cil and C	
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TABLE A - TEMPORARY SEEDING MIXTURES (FROM WV DOT DOM STANDARD SPECIFICATIONS)								
	SPRING	SUMMER	FALL AND WINTER					
	MAR 1 - MAY 15	MAY 16 - AUG 15	AUG 16 - APR 30					
VARIETY OF SEED	LES/ ACRE	LBS/ ACRE	LBS/ ACRE					
ANNUAL RYEGRASS	10		10					
BARLEY OF OATS (LOCAL SEEDS)	50							
MILLET (HUNGARIAN, GERMAN OR JAPANESE)		50						
CEREAL RYE OR CEREAL WHEAT			50					
TOTAL	60	50	60					

TABLE 8 - SEED MIXTURES (FROM WV D	OT DOH STANDARD SPECI	FICATIONS)
	TYPE D#	TYPEL
	(CUT AND FILL SLOPES)	(ALL OTHER AREAS)
VARIETY OF SEED	LBS/ ACRE	LBS/ ACRE
KENTUCKY 31 FESCUE	20	
RED FESCUE (PENNLAWN)	20	41
CROWNVETCH	20	
HARD FESCUE MIXTURE **		63
ANNUAL RYEGRASS AUG 1 TO MAY 15 OR WEEPING	_	12
LOVEGRASS MAY 15 TO AUGUST 1	<i>,</i>	5

^{*30} LB OF CEREAL RYE OR WHEAT SHALL BE ADDED TO TYPE D MIXTURE WHEN WOOD CELLULOSE FIBER IS USED AS A MULCH

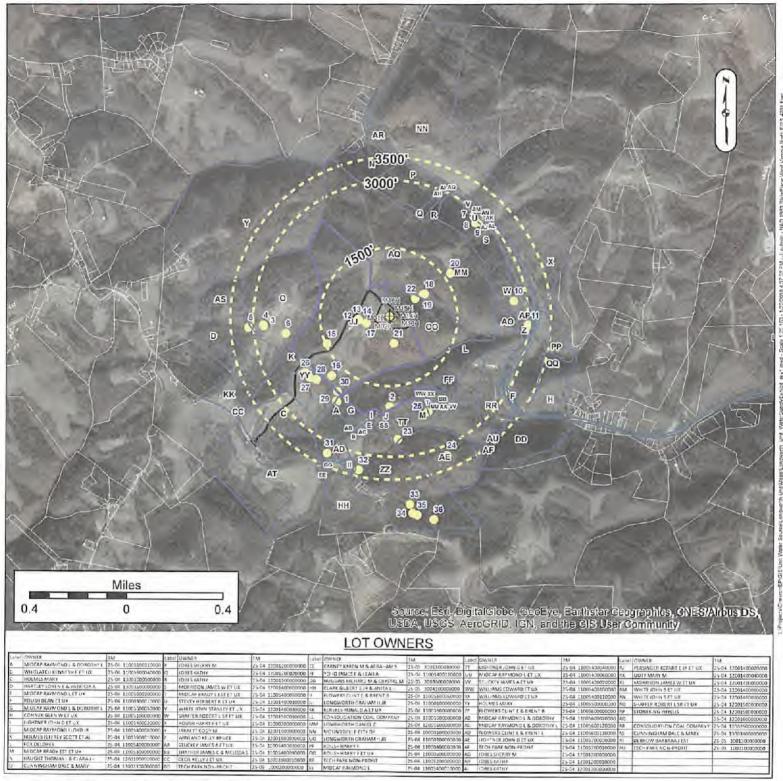
^{**}A COMBINATION OF APPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE

TABLE C - FERTILIZER							
TYPE	FORMULA	RATE (LBS/ ACRE)					
MIXED GRASSES AND LEGUMES	10-10-20	1,000					
LEGULAS STANDS ONLY	5-20-10 (PREFERRED) OR	1 000					
LEGUME STANDS ONLY	10-20-10	1,000					
GRASS STANDS ONLY	10-10-20	1,000					

WV Department of Environmental Protection







Surface Owner: GRAHAM H LONGWORTH, JR.

Oil/Gas Owner: GRAHAM H LONGWORTH, JR.

Well Operator: CHEVRON APPALACHIA, LLC

Address: 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Phone: 724-564-3700

County: MARSHALL

Township: MOUNDSVILLE, WV

GROUNDWATER & ENVIRONMENTAL

Surveyor: SERVICES, INC.

Address: 301 COMMERCE PARK DR

CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549





No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	MIDCAP RAYMOND L & DOROTHY L	Stream	1,148	163 Roberts Ridge	304-845-6114
2	ARNETT, SUSAN DUNCAN- ARNETT	Well	1,272	356 Wilson Hill Lane	304-639-2314
3	CUNNINGHAM DALE & MARY	Well	1,294	446 Cunningham Lane	304-845-0864
4	CUNNINGHAM DALE & MARY	Cistern	1,291	446 Cunningham Lane	304-845-0864
5	CUNNINGHAM DALE & MARY	Spring	1,241	446 Cunningham Lane	304-845-0864
6	CUNNINGHAM DALE & MARY Spring		1,220	446 Cunningham Lane	304-845-0864
7	MORRISON JAMES W ET UX	Well	715	94 Big Grave Crk	304-845-1835
8	MORRISON JAMES W ET UX	Spring	727	94 Big Grave Crk	304-845-1835
9	MORRISON JAMES W ET UX	Pond	652	94 Big Grave Crk	304-845-1835
10	SHAFFER ROBERT L SR ET UX	Drilled Well	670	95 Big Grave Crk	304-845-6083
11	SHAFFER ROBERT L SR ET UX	Dug Well	679	95 Big Grave Crk	304-845-6083
12	LONGWORTH GRAHAM H JR	Dug Well	1,312	2527 Fork Ridge Road	304-281-4840
13	LONGWORTH GRAHAM H JR	Dug Well	1,303	2527 Fork Ridge Road	304-281-4840
14	LONGWORTH GRAHAM H JR	Cistern	1,309	2527 Fork Ridge Road	304-281-4840
15	LONGWORTH GRAHAM H JR	Pond	1,251	2527 Fork Ridge Road	304-281-4840

No.	SUPPLY COORDINATES	1H	2H	13H	14H	15H	16H		
1	39° 50' 31.99920"N 80° 43' 50.45880"W	2,152	2,152	2,180	2,181	2,182	2,182		
2	39° 50' 31.13880"N 80° 43' 35.65200"W	1,939	1,931	1,939	1,947	1,955	1,964		
3	39° 50′ 47.99400″N 80° 44′ 11.34600″W	2,736	2,748	2.790	2,779	2,767	2,755		
4	39° 50' 48.12000"N 80° 44' 11.46480"W	2,745	2,756	2,799	2,787	2,775	2,763		
5	39° 50' 47.55840"N 80° 44' 15.60840"W	3,071	3,083	3,125	3,114	3,102	3,090		
6	39° 50′ 46.43880″N 80° 44′ 05.11440″W	2,274	2,285	2,328	2,317	2,306	2,295		
7	39° 51′ 12.27240″N 80″ 43′ 13.22040″W	2,865	2,864	2,831	2,832	2,834	2,835		
8	39° 51′ 10.91160"N 80° 43′ 12.61560"W	2,791	2,789	2,755	2,757	2,759	2,761		
9	39° 51' 10.99080"N 80° 43' 11.43120"W	2,859	2,856	2,822	2,824	2,827	2,829		
10	39° 50' 54.25800"N 80° 43' 01.44840"W	2,754	2,743	2,701	2,712	2,723	2,734		
11	39° 50′ 49.15320″N 80° 42′ 57.36240″W	3,046	3,033	2,992	3,005	3,017	3,030		
12	39° 50' 49.62840"N 80° 43' 44.71680"W	653	665	707	695	684	673		
13	39° 50' 49.76160"N 80° 43' 44.91480"W	667	679	721	709	698	686		
14	39° 50' 49.67160"N 80° 43' 44.91480"W	668	680	722	710	699	687	RECE Office of O	IVED
15	39° 50' 44.37960"N 80° 43' 53.60520"W	1,470	1,478	1,520	1,512	1,504	1,496	Cince Di V	HADRI 153

JUL 1 9 2018





No.	WATER PURVEYOR	SUF	PPLY	ELEV.		ADDRESS			PHONE #	
16	LONGWORTH GRAHAM H JR	Spring		1,190	2527	Fork Ridge	Road	11	304-281-484	40
17	LONGWORTH GRAHAM H JR	Spring		1,288	2527 Fork Ridge Road		Road	304-281-4840		40
18	LONGWORTH DANIEL C	Sp	ring	1,148	81	2 Spindle La	ane		304-845-04	13
19	LONGWORTH DANIEL C	Sp	ring	1,168	81	2 Spindle La	ane		304-845-04	13
20	LONGWORTH DANIEL C	Dug	Well	1,201	81	2 Spindle La	ane	TI	304-845-04	13
21	LONGWORTH GRAHAM H JR	Sp	ring	1,217	2527	Fork Ridge	Road		304-281-48	40
22	LONGWORTH GRAHAM H JR	Po	ond	1,151	2527	Fork Ridge	Road		304-281-484	40
23	LIGHTNER JOHN D ET UX	Str	eam	984	264	Wilson Hill I	Lane		304-280-937	70
24	LIGHTNER JOHN D ET UX	Dug	Well	1,082	264	Wilson Hill I	Lane		304-280-93	70
25	MIDCAP RAYMOND L ET UX	Stre	eam	1,132	565	5 Roberts Ri	idge		304-845-61	14
26	HOLMES MARY	Po	ond	1,241	19	7 Spindle La	ine	304-845-0703		03
27	HOLMES MARY	Po	ond	1,241	197 Spindle Lane		ane	304-845-0703		03
28	HOLMES MARY	Pond		1,189	19	7 Spindle La	ine		304-845-070	03
29	HOLMES MARY	Stream		1,055	197 Spindle Lane		ine		304-845-070	03
30	HOLMES MARY	Str	eam	1,137	197 Spindle Lane		ane	304-845-0703		03
No.	SUPPLY COORDINATES	1H	2H	13H	14H	15H	16H			
16	39° 50′ 37.55040″N 80° 43′ 52.09320″W	1,779	1,781	1,817	1,814	1,811	1,808			
17	39° 50' 48.94440"N 80° 43' 42.63240"W	506	516	558	548	539	529			
18	39° 50' 55.43520"N 80° 43' 26.41440"W	936	930	891	896	902	908			
19	39° 50' 55.37400"N 80° 43' 26.90760"W	900	895	856	861	867	872			
20	39° 51' 00.00360"N 80° 43' 19.33680"W	1,653	1,648	1,610	1,615	1,620	1,625			
21	39° 50' 44.70720"N 80° 43' 34.83480"W	578	568	570	579	590	600			
22	39° 50' 54.42000"N 80° 43' 29 10720"W	705	700	662	666	671	676			
23	39° 50′ 24.18360″N 80° 43′ 33.22560″W	2.654	2,644	2.649	2,659	2,668	2,677			
24	39° 50' 20.94000"N 80° 43' 19.41960"W	3,252	3.239	3,230	3.243	3,256	3.268			
25	39° 50' 30.21000"N 80° 43' 24.89880"W	2,221	2,209	2,200	2.212	2,225	2,238			
26	39° 50' 38.04720"N 80° 43' 59.52000"W	2,189	2,195	2,234	2.228	2,222	2,217		DEAF	
27	39° 50' 37.13640"N 80° 43' 58.28520"W	2,166	2,170	2,209	2,204	2,199	2,194	(RECE!	and Ga
28	39° 50' 36.69360"N 80° 43' 56.34840"W	2,078	2,082	2,119	2,115	2,111	2,107		JUL 19	
29	39° 50' 32.17560"N 80° 43' 50.67840"W	2,146	2,145	2,174	2,175	2,175	2,176		OUL 1 J	2018
	The state of the s	-, , , •	-1	-11.00	-,110	-,,,,,	-,110		diam	

^{*}ELEVATIONS SHOWN ARE INTERPOLATED FROM LIDAR TOPO AND SUPPLY COORDINATES ARE FROM OTHERS.





No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
31	FLOWERS CLINT E & BRENT B	Spring	1,272	6404 Roberts Ridge Road	304-639-4499
32	FLOWERS CLINT E & BRENT B	Spring	1,273	6404 Roberts Ridge Road	304-639-4499
33	FLOWERS CLINT E & BRENT B	Spring	1,284	6404 Roberts Ridge Road	304-639-4499
34	FLOWERS CLINT E & BRENT B	Spring	1,303	6404 Roberts Ridge Road	304-639-4499
35	FLOWERS CLINT E & BRENT B	Spring	1,297	6404 Roberts Ridge Road	304-639-4499
36	FLOWERS CLINT E & BRENT B	Spring	1,313	6404 Roberts Ridge Road	304-639-4499

No.	SUPPLY COORDINATES	1H	2H	13H	14H	15H	16H	
31	39° 50' 20.94360"N 80° 43' 53.01120"W	3,241	3,238	3,263	3,265	3,268	3,270	
32	39° 50' 17.44080"N 80° 43' 44.02560"W	3,377	3,372	3,387	3,393	3,399	3,405	
33	39° 50′ 10.26600″N 80° 43′ 29.49960″W	4,086	4,076	4,079	4,089	4,099	4,109	
34	39° 50′ 08.39400″N 80° 43′ 28.77240″W	4,281	4,271	4,274	4,284	4,294	4,304	
35	39° 50′ 07.99800"N 80° 43′ 27.40080"W	4,337	4,327	4,329	4,339	4,349	4,359	
36	39° 50′ 07.10880"N 80° 43′ 22.72800"W	4,498	4,487	4,485	4,496	4,507	4,518	

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WV Department of Environmental Protection

2/5/18



Chevron

Appalachian LLC WV Well Site Safety Plan

Pad: Longworth Pad A Well # M14H

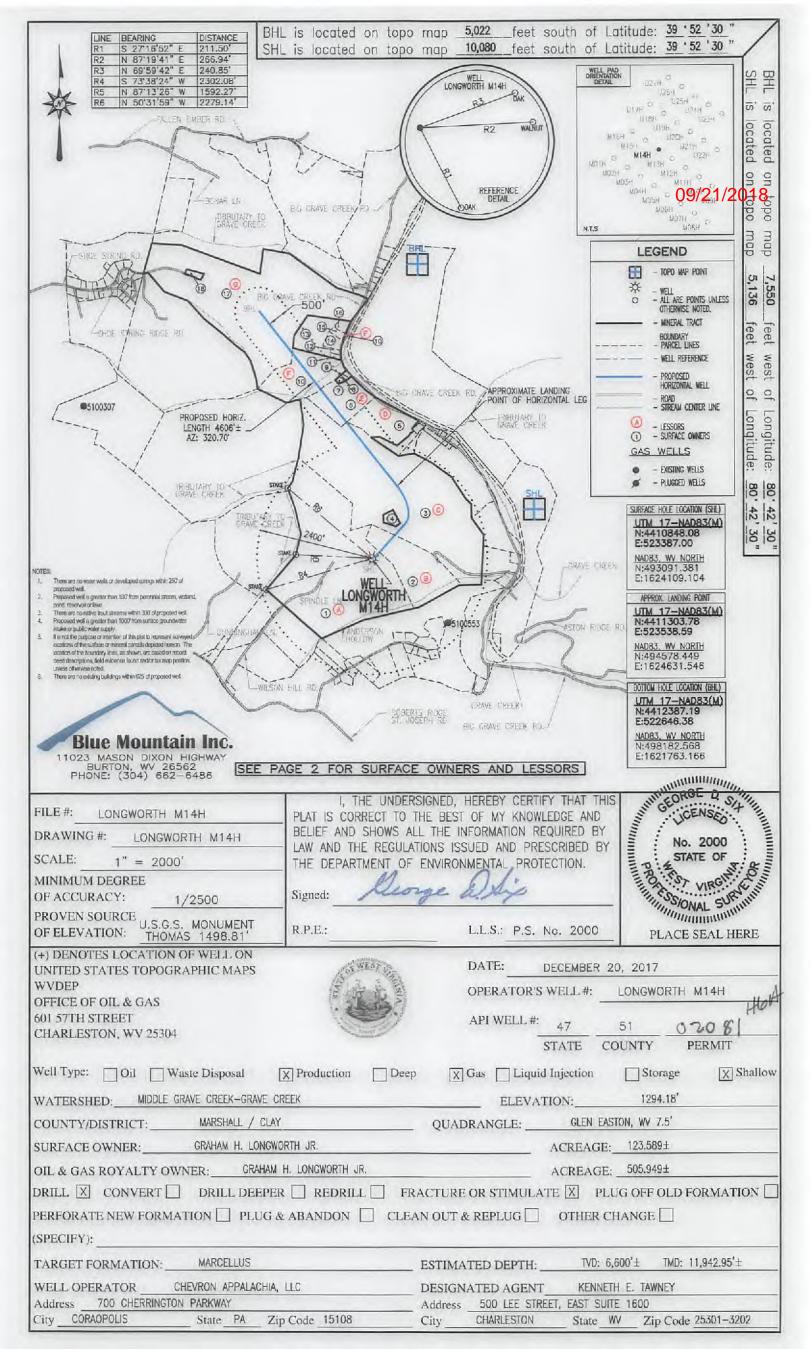
> 5962 Roberts Ridge Rd Moundsville, WV 26041 Washington District Marshall County, WV

Access Point – [39.839575°N, 80.737044°W] Well Site – [39.847350°N, 80.726939°W] Marshall County, West Virginia

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> > JUL 1 9 2018

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LONGWORTH M14H PAGE 2 OF 2

LONGWORTH 4705/ 0208/

09/21/2018

	LESSOR	DIST-TM/PAR		
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1		
В	GRAHAM H. LONGWORTH JR. ET AL	4-11/2		
	LISA NICEWARNER			
	JULIA RODGERS			
	KEITH FRIESE			
	MARK FREISE			
	ANTHONY FREISE			
	JAMES FRIESE			
	HENRY FREISE			
	STEVEN FRIESE			
2	GRAHAM H. LONGWORTH JR. ET AL	4-12/16		
	SHERI L. EVRAETS FAMILY TRUST			
	LISA NICEWARNER			
	JULIA RODGERS			
	KEITH FRIESE			
	MARK FREISE			
	ANTHONY FREISE			
	JAMES FRIESE			
	HENRY FREISE			
	STEVEN FRIESE			
)	MICHAEL A. JOBES ET UX	4-12/12		
-	MARY ANN BAKER	4-12/10.2		
	ULMAN TRUST MARY ANN BAKER TRSTE			
	DIOCESE OF WHEELING - CHARLESTON			
	ROBERT S. WUERTHELE			
	MARK K. WUERTHELE			
	JEFFREY A. WUERTHELE			
	MICHAEL D. WUERTHELE			
	SISTERS OF ST FRANCIS PROV OF GOD			
	SUSAN ZIDAR ET VIR			
	VICKIE L. MARKEY IRREVOCABLE TRST			
-	MARY ANN BAKER	4-12/10		
	ULMAN TRUST MARY ANN BAKER TRSTE			
	DIOCESE OF WHEELING - CHARLESTON			
	ROBERT S. WUERTHELE			
	MARK K. WUERTHELE			
	JEFFREY A. WUERTHELE			
	MICHAEL D. WUERTHELE			
	SISTERS OF ST FRANCIS PROV OF GOD			
	SUSAN ZIDAR ET VIR			
	VICKIE L. MARKEY IRREVOCABLE TRST			
3	JMK IREV TRST	4-12/3		
1	PURPLEBURGH VENTURES LLC	12,0		
	MARCELLUS TX MINERAL PRINRS LTD			

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	GRAHAM H. LONGWORTH JR.	4-11/2
2	DANIEL C. LONGWORTH	4-12/16
4	DANIEL C. SR. AND JEANNETTE L. LONGWORTH	4-12/16.1
5	KEVIN HAUGHT	4-12/12
6	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/10.2
7	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/6
8	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/11
9	THOMAS L. & CLARA J. HAUGHT	4-12/10.1
10	THOMAS HAUGHT ET AL	4-12/10
11	CLIFFORD A. & JOY M. WHITE	4-12/10.3
12	CLIFFORD A. & JOY M. WHITE	4-12/10.4
13	CLIFFORD A. & JOY M. WHITE	4-12/10.5
14	THOMAS L. & CLARA J. HAUGHT	4-12/9
15	THOMAS L. & CLARA J. HAUGHT	4-12/8
16	THOMAS L, & CLARA J. HAUGHT	4-12/7
17	MERLE CHAPLIN ET UX	4-12/3
18	MERLE R. & JEAN E. CHAPLIN	4-12/3.1

SURFACE HOLE LOCATION (SHL)

UTM 17-NADB3(M)
N:4410848.08
E:523387.00

NAD83, WV NORTH N:493091.381 E:1624109.104

APPROX. LANDING POINT UTM 17-NAD83(M) N:4411303.78 E:523538.59

NAD83, W NORTH N:494578.449 E:1624631.546

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M) N:4412387.19 E:522646.38

NAD83, WV NORTH N:498182.568

DECEMBER 20, 2017



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 Boo	DOOK 1 age
	Book/Page

See Attached

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

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

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

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

Well Operator: Chevron Appalachia, LLC

By: Jenny Hayes

Its: Permitting Team Lead

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JUL 19 2018

Page 1 of

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WV D-partment of Environmental Protection Longworth Unit #14H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2
4-11-1.0	LONGWORTH GRAHAM H JR ET AL	Chevron U.S.A. Inc.	0.14	BK 790 - PG 129	n/a	n/a
4-11-2.0	LONGWORTH GRAHAM H JR ET AL	Chevron U.S.A. Inc.	0.14	BK 790 - PG 129	n/a BK 28 - PG 348	n/a
	NICEWARNER LISA	TriEnergy Holdings, LLC	0.14	BK 751 - PG 260	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
	RODGERS JULIA	TriEnergy Holdings, LLC	0.14	BK 751 - PG 262	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
	FRIESE KEITH	TriEnergy Holdings, LLC	0.14	BK 751 - PG 264	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
Env	FREISE MARK	TriEnergy Holdings, LLC	0.14	Bk 751 - PG 250	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
JUL 19 2018 WV Department of Environmental Protection	Office FREISE ANTHONY RECEIVED FRIESE JAMES GRAN	TriEnergy Holdings, LLC	0.14	BK 753 - PG 580	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
9 2018 artiment of ital Protection	FRIESE JAMES	TriEnergy Holdings, LLC	0.14	BK 751 - PG 254	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
ח	FREISE HENRY	TriEnergy Holdings, LLC	0.14	BK 752 - PG 382	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
	FRIESE STEVEN	TriEnergy Holdings, LLC	0.14	BK 751 - PG 252	TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a
4-12-16.0	LONGWORTH GRAHAM H JR ET AL	Chevron U.S.A. Inc.	0.14	BK 790 - PG 129	n/a BK 25 - PG 449	n/a BK 756 - PG 332
	EVRAETS SHERI L FAMILY TRUST	TriEnergy Holdings, LLC	0.16	BK 730 - PG 407	TriEnergy Holdings, LLC to NPAR, LLC BK 28 - PG 348	NPAR, LLC to Chevron U.S.A. Inc.
	NICEWARNER LISA	TriEnergy Holdings, LLC	0.14	BK 751 - PG 260	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
	RODGERS JULIA	TriEnergy Holdings, LLC	0.14	BK 751 - PG 262	TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a

WV Department of Environmental Protection

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					BK 26 - PG 123	BK 26 - PG 201
	DIOCESE OF WHEELING - CHARLESTON	TriEnergy Holdings, LLC	0.18	BK 738 - PG 509	TriEnergy Holdings, LLC to	NPAR, LLC to Chevron
					NPAR, LLC	U.S.A. Inc.
	WUERTHELE ROBERT S	Chevron U.S.A. Inc.	0.18	BK 853 - PG 63	n/a	n/a
	WUERTHELE MARK K	Chevron U.S.A. Inc.	0.18	BK 853 - PG 79	n/a	n/a
	WUERTHELE JEFFREY A	Chevron U.S.A. Inc.	0.18	BK 853 - PG 127	n/a	n/a
	WUERTHELE MICHAEL D ET UX	Chevron U.S.A. Inc.	0.18	BK 853 - PG 103	n/a	n/a
	Chevron U.S.A. Inc.	Chevron U.S.A. Inc.	Fee	BK 886 - PG 595	n/a	n/a
					BK 36 - PG 168	
	ZIDAR SUSAN ET VIR	TH Exploration, LLC	0.18	BK 877 - PG 222	TH Exploration, LLC to	n/a
					Chevron U.S.A. Inc. BK 36 - PG 168	
	LAUREN M TEKELY IRREVOCABLE TRUST	TH Exploration, LLC	0.18	BK 876 - PG 177	TH Exploration, LLC to	n/a
					Chevron U.S.A. Inc.	
4-12-3.0	JMK IREV TRST	Chevron U.S.A. Inc.	0.16	BK 797 - PG 336	n/a	n/a
	PURPLEBURGH VENTURES LLC	Chevron U.S.A. Inc.	0.16	BK 799 - PG 325	n/a	n/a
	MARCELLUS TX MINERAL PRTNRS LTD	Chevron U.S.A. Inc.	0.16	BK 794 - PG 561	n/a	n/a

Office of Oil and Gas

JUL 19 2018

WV Department of Environmental Protection



February 1, 2018

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

RE: Longworth 1H, 2H, 13H, 14H, 15H, 16H

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,

Luke Slagel

Land Representative

Appalachian Mountain Business Unit Chevron North America Exploration and Production Company A Division of Chevron U.S.A. Inc. 700 Chernington Parkway, Coraopolis, PA 15108 Tel 412 865 1425 Luke Slagel@chevron.com Office of Oil and Gas

JUL 19 2018

WW-6AC (1/12) **4705 102081**09/21/2018

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

Date of Notic	ce Certification: 01/22/2018	API No. 4	.7	
	·		s Well No. M14	н
			Name: Longwo	
Notice has l	been given:			
		e § 22-6A, the Operator has provided the re	equired parties v	with the Notice Forms listed
	tract of land as follows:	%, F F	1 F	
State:	West Virginia	Easting:	523387.00	
County:	Marshall	UTM NAD 83 Pasting:	4410848.08	·
District:	Clay	Public Road Access:	Roberts Ridge R	oad/WV-21
Quadrangle:	Glen Easton, WV 7.5'	Generally used farm name:	Longworth	
Watershed:	Middle Grave Creek - Grave Creek			
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface desi- equired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteer	I shall contain the following information: (I ribed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the resurvey pursuant to subsection (a), section of this article were waived in writing by I tender proof of and certify to the secretary ant.	equirement was ten of this arti	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the rator has properly served the requect ALL THAT APPLY	Operator has attached proof to this Notice (red parties with the following:	Certification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY	or NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SU	RVEY or 🔳 NO PLAT SURVEY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL (r		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATIO	N RECEIVED		☐ RECEIVED
■ 5. PUE	BLIC NOTICE	Office of Oil and G		☐ RECEIVED
		JUL 1 9 2018	: J	

Required Attachments:

6. NOTICE OF APPLICATION

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.

WV Department of

Certification of Notice is hereby given:

above, to the re signature confir in this Notice (obtaining the in	at as required under West Virginia equired parties through personal ser mation. I certify under penalty of la Certification and all attachments,	Code § 22-6A, I have rvice, by registered moves that I have personal and that based on motion is true, accurate	and the notice requirements within West Virginia Code § 22- served the attached copies of the Notice Forms, identified ail or by any method of delivery that requires a receipt or ly examined and am familiar with the information submitted inquiry of those individuals immediately responsible for and complete I am aware that there are significant penalties isonment.
Well Operator:	Chevron Appalachia, LLC	Address:	700 Cherrington Parkway
By:	Jenny Hayes		Coraopolis, PA 15108
Its:	Permitting Team Lead	Facsimil	e: 412-865-2403
Telephone:	412-865-1533	Email:	JZYK@chevron.com
NOTARY SEAL Commonwealth of Pennsylvania - Notary Seal Laura Savage, Notary Public Allegheny County My commission expires September 17, 2018 Commission number 1285773		Commonwealth of Remsylvania County of Allegheny Subscribed and sworm before me this 7th day of March 201 Limanarage Notary Public My Commission Expires September 17, 2018	

Oil and Gas Privacy Notice:

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

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JUL 1 9 2018

WV Denortment of Environmental Protection

API NO. 47			
OPERATOR	WELL	NO.	мı <mark>09/21/2</mark> 018
Well Pad Nar	ne: Lon	gworth	

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

Noti	ice Time Requiren	nent: notice shall be provided n	o later than the filing date of permit application.
	e of Notice <i>! 3a </i> ice of:	18 Date Permit Application F	Filed: 7/18/18
Ø	PERMIT FOR AN		E OF APPROVAL FOR THE ION OF AN IMPOUNDMENT OR PIT
Deli	very method purs	uant to West Virginia Code §	22-6A-10(b)
	PERSONAL	☐ REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
regis sedin the si oil ar descri opera well impo have provi proposubse recor provi Code	ficate of approval for stered mail or by any ment control plan re- turface of the tract of and gas leasehold being ribed in the erosion ator or lessee, in the ecoal seams; (4) The work, if the surface bundment or pit as do a water well, spring ide water for consur- osed well work active ection (b) of this sec- reds of the sheriff req- ision of this article to eR. § 35-8-5.7.a re-	or the construction of an impoundar method of delivery that requires quired by section seven of this art in which the well is or is proposed ing developed by the proposed we and sediment control plan submit event the tract of land on which the owners of record of the surface tract is to be used for the placement of the surface are gor water supply source located with the place of	filing date of the application, the applicant for a permit for any well work or for a ment or pit as required by this article shall deliver, by personal service or by a receipt or signature confirmation, copies of the application, the erosion and icle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the ill work, if the surface tract is to be used for roads or other land disturbance as ted pursuant to subsection (c), section seven of this article; (3) The coal owner, the well proposed to be drilled is located [sic] is known to be underlain by one or tract or tracts overlying the oil and gas leasehold being developed by the proposed ent, construction, enlargement, alteration, repair, removal or abandonment of any ticle; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to smals; and (6) The operator of any natural gas storage field within which the enthan three tenants in common or other co-owners of interests described in the obsection eight, article one, chapter eleven-a of this code. (2) Notwithstanding any ider is not notice to a landowner, unless the lien holder is the landowner. W. Va. hall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any ter testing as provided in section 15 of this rule.
Ø A	pplication Notice	☑ WSSP Notice ☑ E&S Pla	n Notice
	JRFACE OWNER		☐ COAL OWNER OR LESSEE
	e: Graham H Longworth		Name: Consolidated Coal Company
	ress: 2527 Fork Ridge F	Road	Address: 1000 Consol Energy Drive
Nam	dsville, WV 26041		Canonsburg, PA 15317
Addı			☐ COAL OPERATOR Name: Murray Energy Corporation
Auui			Address: 46226 National Road
[7] ST	IREACE OWNER	(s) (Road and/or Other Disturbation	
	e: Mary Holmes	(3) (Road and/or Other Disturbat	SURFACE OWNER OF WATER WELL
	ress: 197 Spindle Lane		AND/OR WATER PURVEYOR(s)
	dsville, WV 26041		Name: Daniel C. Longworth
Nam	e: The Estate of Barbara	J. Derrow	Address: 812 Spindle Lane
Addr	ress: 6247 Roberts Ridg	ge Road	Moundsville, WV 26041
Mound	dsville, WV 26041		OPERATOR OF ANY NATURAL GAS STORAGE FIELD
		(s) (Impoundments or Pits)	Name:Address:
Addr	ress:		
			*Please attach additional forms if necessary
			RECEIVED

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Office of Oil and Gas

JUL 19 2018

WW-6A (8-13) RECEIVED Office of Oil and Gas

JUL 19 2018

API NO. 47-OPERATOR WELL NO. MAH9/21/2018 Well Pad Name: Longworth

Notice is hereby given:

WV Department of Environmental Protection

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A (8-13) API NO. 47-___-OPERATOR WELL NO. <u>M109/21/2</u>018

Well Pad Name: Longworth

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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JUL 19 2018

WV Department of Environmental Protection

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

API NO. 47-OPERATOR WELL NO. M109/21/2018 Well Pad Name: Longworth

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 Cil and Gas

JUL 19 2018

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC

Telephone: 412-865-1533 Email: jzyk@chevron.com Address: 700 Chernington Parkway

Coracpolis, PA 15108

Facsimile: 412-865-2403

Oil and Gas Privacy Notice:

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

Commoñwealth of Pennsylvania - Notary Seal Laura Savage, Notary Public

Allegheny County
My commission expires September 17, 2018
Commission number 1285773

Member, Pennsylvania Association of Notaries

Country of Allegheny

Subscribed and sworn before me this 19th day of Janu, wy

Notary Public

My Commission Expires September 17, 2018

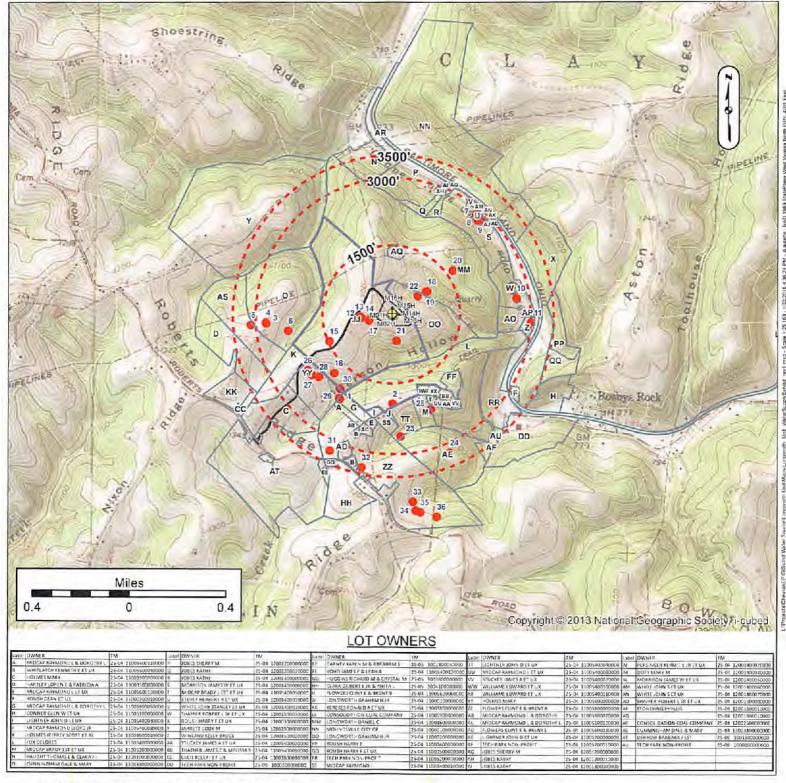
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JUL 1 9 2018

Environmental Protection







Surface Owner: GRAHAM H LONGWORTH, JR.

Oil/Gas Owner: GRAHAM H LONGWORTH, JR.

Well Operator: CHEVRON APPALACHIA, LLC

Address: 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Phone: 724-564-3700

County: MARSHALL

Township: MOUNDSVILLE, WV

GROUNDWATER & ENVIRONMENTAL

Surveyor: SERVICES, INC.

Address: 301 COMMERCE PARK DR

CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549

09/21/2018

WW-6A4 (1/12) Operator Well No. M14H Longword

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

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

Notice Time Date of Noti	Requirement: Notice shall be provided ce: 1/22/18 Date Po	at least TEN (10) days prior to filing ermit Application Filed: 7/12/	D.C. CIVED
Delivery me	thod pursuant to West Virginia Code §	§ 22-6A-16(b)	JUL 1 9 2018
☐ HAND DELIVE	CERTIFIED MAIL ERY RETURN RECEIPT RE	EQUESTED	WV Department of Environmental Protection
drilling a hor of this subsec- subsection m and if availab	izontal well: Provided, That notice give the surface of izontal well: Provided, That notice give tion as of the date the notice was provided by the surface of ay be waived in writing by the surface of the facsimile number and electronic mail	when notice of its intent to enter upon an pursuant to subsection (a), section (a) ed to the surface owner: <i>Provided, ha</i> when. The notice, if required, shall inc address of the operator and the operat	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements wever. That the notice requirements of this clude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE O		
Name: Graham Address: 2527		Name:	
Moundsville, WV		Address:	
the surface of State: County: District: Quadrangle:	wher's land for the purpose of drilling a li West Virginia Marshall Clay Glen Easton, WV 7.5'	UTM NAD 83 Public Road Access: Generally used farm name:	well operator has an intent to enter upon ollows: 523387.00 4410848.08 Roberts Ridge Road/WV-21 Longworth
Watershed:	Middle Grave Creek - Grave Creek		
Pursuant to V facsimile nur related to hor	nber and electronic mail address of the izontal drilling may be obtained from the	operator and the operator's authorized Secretary, at the WV Department of	ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	reby given by:		
Well Operato		Authorized Representative	
Address: 700 Cherrington Parkway		Address:	
Coraopolis, WV			
Telephone:	412-865-1533	Telephone:	
Email:	JZYK@chevron.com	Email:	
Facsimile:	412-865-2403	Facsimile:	-
		- A Company A	

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.

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.

Date of Noti	Requirement: Notice shall be provide ce: 1/22/18 Date	d at least TEN (10) days prior to filing a Permit Application Filed: 7/18	a permit application. 18
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		REQUESTED	
drilling a hor of this subsection m	sted or hand delivery, give the surface of izontal well: Provided, That notice give tion as of the date the notice was provi- ay be waived in writing by the surface of	owner notice of its intent to enter upon to yen pursuant to subsection (a), section to ded to the surface owner: Provided, ho	n, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this clude the name, address, telephone number, or's authorized representative.
Notice is he Name: Mary Ho	reby provided to the SURFACE (
Address: 197 Moundsville WW	Spindle Lane	Name:Address:	
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Pursuant to V the surface of State: County: District; Quadrangle: Watershed:	Vest Virginia Code § 22-6A-16(b), noti	ice is hereby given that the undersigned horizontal well on the tract of land as formula to the strate of land as formula to the strate of land as formula to the strategy of	I well operator has an intent to enter upon ollows: 523387.00 4410848.08 Roberts Ridge Road/WV-21 Longworth
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Oil and Gas Privacy Notice:

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

WW-6A4 (1/12)

09/21/2018
Operator Well No. M14H Longworth

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

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

Notice Time Date of Noti	Requirement: Notice shall be provided ce: 1/22/18 Date P	at least TEN (10) days prior to filing a ermit Application Filed: 7/18	
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVI		EQUESTED	
receipt reque drilling a hor of this subsec- subsection m and if availab	sted or hand delivery, give the surface or izontal well: <i>Provided</i> . That notice give tion as of the date the notice was provid ay be waived in writing by the surface or ole, facsimile number and electronic mail	wher notice of its intent to enter upon the pursuant to subsection (a), section the detection to the surface owner: <i>Provided, hower</i> . The notice, if required, shall include address of the operator and the operator	a, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this clude the name, address, telephone number, or's authorized representative.
	ereby provided to the SURFACE O ate of Barbara J. Derrow	WNER(s): Name:	
	7 Roberts Ridge Road	Address:	
Moundsville, WV	26041		
State: County: District: Quadrangle: Watershed:	wner's land for the purpose of drilling a West Virginia Marshall Clay Glen Easton, WV 7.5' Middle Grave Creek - Grave Creek	UTM NAD 83 Public Road Access: Generally used farm name:	0Hows: 523387 00 4410843.08 Roberts Ridge Road/WV-21 Longworth
Pursuant to facsimile nur related to ho	mber and electronic mail address of the rizontal drilling may be obtained from t	e operator and the operator's authorize the Secretary, at the WV Department	dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
	ereby given by:		
	Chevron Appalachia, LLC	Authorized Representative	
Address:	700 Cherrington Parkway	Address:	Office of Oil and Gas
Coraopolis, WV		m.t. 1	1111 4 0 0010
Telephone:	412-865-1533	Telephone:	JUL 1 9 2018
Email:	JZYK@chevron.com	Email:	WV Department of
Facsimile:	412-865-2403	Facsimile:	Environmental Protection

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator Well No. Longworth M14H

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

Notice Time Date of Notice	Requirement: notice shall be provide: 1/23/18 Date Pern	led no later than the filing nit Application Filed:	date of permit	application.
Delivery me	thod pursuant to West Virginia Co	tle § 22-6A-16(c)		
CERTI	FIED MAIL	☐ HAND		
RETUI	RN RECEIPT REQUESTED	DELIVERY		
the planned of required to be drilling of a damages to the	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed the surface affected by oil and gas operation.	surface owner whose lan his subsection shall inclu- ten of this article to a surf surface use and compen erations to the extent the d	d will be used for de: (1) A copy ace owner whose sation agreemer amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Notice is her (at the addres Name: Graham	eby provided to the SURFACE OV s listed in the records of the sheriff at	t the time of notice):		
Address: 2527		Name: Addres		
Mandsville, WV		Addres	S:	
operation on State: County:	the surface owner's land for the purp West Virginia Marshall	oose of drilling a horizonta UTM NAD 8	il well on the tra	well operator has developed a planned act of land as follows: 523387.00 4410848.08
District:	Clay	Public Road		Roberts Ridge Road/WV 21
Quadrangle:	Glen Faston 7.5'	Generally us	ed farm name:	Longworth
Watershed:	Middle Grave Creek - Grave Creek			
	Shall Include:			
horizontal we surface affect information re	II; and (3) A proposed surface use at ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57 th Street, SE,	o a surface owner whose nd compensation agreeme extent the damages are co- obtained from the Secre-	! land will be unit containing an impensable und lary at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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JUL 19 2018

M/V Dened ment of Environmental Protection WW-6A5 Operator Well No. Longworth M14H (1/12)

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

Deliver	method pursuant to West Virgini	a Code 8 22-64-16(a)		
Deniver,	method parsuant to viest virgini	a Code § 22-0/1-10(C)		
III CI	ERTIFIED MAIL	☐ HAND		
R	ETURN RECEIPT REQUESTED	DELIVERY		
return re the plan required drilling damages (d) The re of notice	ceipt requested or hand delivery, givened operation. The notice required to be provided by subsection (b), see of a horizontal well; and (3) A properto the surface affected by oil and gametices required by this section shall is.	by this subsection shall include the surface owner whose large by this subsection shall include the subsection ten of this article to a subsection ten of this article to a subsection surface use and compete soperations to the extent the dependent of the surface owners. E OWNER(s)	nd will be used foude: (1) A copy face owner who insation agreement lamages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the it containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the ac	ddress listed in the records of the she	riff at the time of notice):		
Name: M		Name		
Address	197 Spindle Lanc	Addre	SS:	
Administration	LINE BOOKS			
Notice is Pursuant	s hereby given: to West Virginia Code § 22-6A-16() n on the surface owner's land for the	c), notice is hereby given that	the undersigned	well operator has developed a planned
Notice is Pursuant operation State: County:	s hereby given:	c), notice is hereby given that purpose of drilling a horizon UTM NAD Public Roac	al well on the tra 83 Easting: Northing:	well operator has developed a planned act of land as follows: 523387 00 4410848.08 Roberts Ridge Road/WV 21
Notice is Pursuant	s hereby given: to West Virginia Code § 22-6A-16() n on the surface owner's land for the West Virginia Marshall Clay	purpose of drilling a horizon UTM NAD Public Roac	al well on the tra 83 Easting: Northing:	act of land as follows: 523387.00 4410848.08
Notice is Pursuant operation State: County: District:	s hereby given: to West Virginia Code § 22-6A-16(in on the surface owner's land for the West Virginia Marshall Clay gle: Glen Easton 7.5'	purpose of drilling a horizon UTM NAD Public Roac	al well on the tra 83 Easting: Northing: Access:	act of land as follows: 523387.00 4410848.08 Roberts Ridge Road/WV 21
Notice is Pursuant operation State: County: District: Quadran Watersh This No Pursuant to be pro- horizonts surface a informat headquare	s hereby given: to West Virginia Code § 22-6A-16(in on the surface owner's land for the West Virginia Marshall Clay gle: Glen Easton 7.5' ed: Middle Grave Creek - Grave Creek tice Shall Include: to West Virginia Code § 22-6A-16(ovided by W. Va. Code § 22-6A-16(ovided by W. Va. Code § 22-6A-16(ovided by Grave Creek) al well; and (3) A proposed surface inffected by oil and gas operations to ion related to horizontal drilling ma	e purpose of drilling a horizon UTM NAD Public Roac Generally u (c), this notice shall include: ((d)(b) to a surface owner whose and compensation agreem to the extent the damages are only be obtained from the Secret	al well on the tra 83 Easting: Northing: Access: sed farm name: 1)A copy of this se land will be to ent containing an compensable und	act of land as follows: 523387.00 4410848.08 Roberts Ridge Road/WV 21 Longwarth code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Notice is Pursuant operation State: County: District: Quadran Watersh This No Pursuant to be proportional surface a informat headquar	s hereby given: to West Virginia Code § 22-6A-16(non the surface owner's land for the West Virginia Marshall Clay gle: Glen Easton 7.5' ed: Middle Grave Creek - Grave Creek tice Shall Include: to West Virginia Code § 22-6A-16(novided by W. Va.	e purpose of drilling a horizon UTM NAD Public Roac Generally u (c), this notice shall include: ((d)(b) to a surface owner whose and compensation agreem to the extent the damages are only be obtained from the Secret	al well on the tra 83 Easting: Northing: Access: sed farm name: 1)A copy of this se land will be tent containing an compensable und etary, at the WV (304-926-0450)	act of land as follows: 523387.00 4410848.08 Roberts Ridge Road/WV 21 Longwarth code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is Pursuant operation State: County: District: Quadran Watershi This No Pursuant to be pri horizont; surface a informat headquar gas/page	s hereby given: to West Virginia Code § 22-6A-16(non the surface owner's land for the West Virginia Marshall Clay gle: Glen Easton 7.5' ed: Middle Grave Creek - Grave Creek tice Shall Include: to West Virginia Code § 22-6A-16(novided by W. Va. Code § 23-6A-16(novided by W. Va.	e purpose of drilling a horizon UTM NAD Public Roac Generally u e), this notice shall include: (0(b) to a surface owner who; use and compensation agreem to the extent the damages are of the obtained from the Secretary be obtained from the Secretary Charleston, WV 25304	al well on the tra 83 Easting: Northing: Access: sed farm name: 1)A copy of this se land will be to ent containing an compensable und	act of land as follows: 523387.00 4410848.08 Roberts Ridge Road/WV 21 Longwarth code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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Office of Oil and Gas

JUL 1 9 2018

WV Department of Environmental Protection

Operator Well No. Longworth M14H

WW-6A5 (1/12)

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

Date of Noti	ce: 1/22/18 Date Pe	ermit Applicat	ion Filed:	[18]18	аррисации.
Delivery me	thod pursuant to West Virginia	Code § 22-6A-	16(c)		
CERTI	FIED MAIL	☐ HANI	D		
	RN RECEIPT REQUESTED		VERY		
required to be drilling of a damages to the distribution of notice.	t requested or hand delivery, give to operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A proposite surface affected by oil and gas descripted by this section shall be	the surface own y this subsection on ten of this are sed surface use operations to the given to the su	ner whose land on shall include rticle to a surfa- and compens e extent the da	l will be used for the: (1) A copy ace owner who ation agreement mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the address	reby provided to the SURFACE (is listed in the records of the sherif ate of Barbara J Derrow	OWNER(s) f at the time of	notice): Name:		
	Roberts Ridge Road		Address		
Moundsville, VVV	26041		, , , , , , , , , , , , , , , , , , , ,		
operation on State: County: District: Quadrangle:	the surface owner's land for the putwest Virginia. Marshall Clay Glen Easton 7.5'	arpose of drillin	ng a horizontal UTM NAD 8: Public Road A Generally use	well on the tra Easting: Northing: Access:	well operator has developed a planned set of land as follows: 523387.00 4410843.08 Roberts Ridge Road/WV 21 Longworth
Watershed:	Middle Grave Creek - Grave Creek				
Pursuant to W to be provide horizontal we surface affect information r	ell; and (3) A proposed surface use led by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE,) to a surface and compensa- ic extent the da be obtained fro	owner whose ation agreement amages are co	land will be used to containing armount at the WV	code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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JUL 1 9 2018

WV Denarth at of Environmental protection

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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VOLUNTARY STATEMENT OF NO OBJECTION

provisions lis WW-6A and required, and State: County: District:	, hereby state that I have read ted above, and that I have received copies of a attachments consisting of pages one (1) throw the well plat, all for proposed well work on the West Virginia Marshall Clay Glen Easton, WV 7.5' Middle Grave Creek - Grave Creek	Notice of Apugh tract of land a UTM NAD	opplication, an App , including to as follows: 83 Easting: Northing:	blication for a Well Work Permit on Form the erosion and sediment control plan, if 523387.00 4410848.08 Roberts Ridge Road / WV 21			
I further state issued on thos	that I have no objection to the planned work de e materials.	scribed in the	se materials, and	I have no objection to a permit being			
*Please check	the box that applies		FOR EXECUTI	ON BY A NATURAL PERSON			
SURFAC	CE OWNER CE OWNER (Road and/or Other Disturband	ce)	Signature: MC Print Name: Name	Clevel Wm Decor 1ichael wm Dayrow 6-2018			
□ SURFAC	CE OWNER (Impoundments/Pits)		7.5.	2010			
	WNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC Company:					
☐ COAL O	PERATOR		lts:				
□ WATER	PURVEYOR						
□ OPERA	FOR OF ANY NATURAL GAS STORAG	E FIELD	Date:				

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VOLUNTARY STATEMENT OF NO OBJECTION

State:	the well plat, all for proposed well work on the trac West Virginia	Pasting	523387.00
County:	Marshall	TM NAD 83 Rasting. Northing:	4410848.08
District:	Clay	iblic Road Access:	Roberts Ridge Road / WV 21
Quadrangle:	Glen Easton, VW 7.5'	enerally used farm name:	Longworth
Watershed:	Middle Grave Creek - Grave Creek		
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	the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
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□ SURFAC SURFAC □ SURFAC	CE OWNER (Road and/or Other Disturbance)	Signature: Ma Print Name: M Date: 3-10-2	
☐ SURFACE SURFACE ☐ SURFACE ☐ COAL C	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Signature: Ma. Print Name: M. Date: A-U-2 FOR EXECUT Company; By:	rilyw Reitley arilyn Reitley 018 ION BY A CORPORATION, ETC.
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STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

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· Const	Same				1 5 mm/24 14 1.1
I, <u>GSC V</u>	ted above, and that I have received copies of a				amed on Page WW-6A and the associated
	attachments consisting of pages one (1) thro				
required, and	the well plat, all for proposed well work on the	tract of land	as foll	ows:	are crosion and seament control plan, if
State:	West Virginia			Easting:	523387.00
County:	Marshall	UTM NAD	83	Northing:	4410848.08
District:	Clay	Public Roa	d Acc	ess:	Roberts Ridge Road / WV 21
Quadrangle:	Glen Easton, WV 7.5'	Generally u	used fa	arm name:	Longworth
Watershed:	Middle Grave Creek - Grave Creek				
*Please check	the box that applies		FOR	REXECUT	ION BY A NATURAL PERSON
□ SURFAC	CE OWNER		Sign	ature:	
□ SURFAC	CE OWNER (Road and/or Other Disturband	ce)	Print Name: Date:		
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COALC	WNER OR LESSEE		Com	pany: ('0\4	rol Enry
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API NO. 47-7 0 5 1 0 2 0 8 1 8 OPERATOR WELL NO. M14H Well Pad Name: Longworth Pad A

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

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VOLUNTARY STATEMENT OF NO OBJECTION

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State: County: District:	West Virginia	UTM NAI	D 83 Easting:	523386.998
	Marshail Clay		Northing:	
Quadrangle:		Public Ros		Roberts Ridge Road
Watershed:	Upper Ohio-Beaver	Generally	used farm name:	Longworth
issued on thos	that I have no objection to the planned work of the materials. the box that applies			ION BY A NATURAL PERSON
□ SURFAC	CE OWNER		Signature:	
□ SURFAC	E OWNER (Road and/or Other Disturba	псе)	Print Name:	
□ SURFAC	E OWNER (Impoundments/Pits)			ION BY A CORPORATION FTC
□ COAL O	WNER OR LESSEE		Company: Consolida	ON BY A CORPORATION, ETC. ation Coal Company
COAL O	COAL OPERATOR		By: Mason Smith Its: Coal, Oil and Gas	Relations Manager
□ WATER	PURVEYOR		Signature: 1	wages from
□ OPERAT	OR OF ANY NATURAL GAS STORAG	GE FIELD	Date: 07/18/2018	

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

January 10, 2018

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

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

Longworth M14H

Dear Mr. Martin,

Jim Justice

Governor

The West Virginia Division of Highways has issued Permit #06-2016-0411 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 21 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,

Lay K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

Cc: Mandy Fordyce

Chevron Appalachia, LLC

CH, OM, D-6

File

Since Stating of the State of State of

Hydraulic Fracturing Fluid Additives

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

Office of July 19 2018

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ROBERTS RIDGE SAINT.

APPROVED CLAY DISTRICT, MARSHALL

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800 MOUNTAIN **SMITHFIELD**

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Office of Oil and Gas

COORDENATE DISPLANCE COMPANY INVESTIGATION OF CHIL/SIL ENGALER CONTACT: 1000 C. BALTHIN, P.E.

SITE COORDINATES AND WATERSHED
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(ARTHOE 37 50° 27 47° M, LOXATICK: 87° 44° 13.33° M

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D FOR: COUNTY, WEST VIRGINIA **OSEPH ROAD** (C.R.

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WELL SITE

PA 15478

VIEW DRIVE

SYN NO



LONGWORTH WELL SITE CLAY DISTRICT MARSHALL COUNTY WEST VIRGINIA

PREPARED FOR CHEVRON APPALACHIA, LLC
600 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 19478

REVISION RECORD

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