

#### 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

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

Re: Permit approval for LONGWORTH M13H 47-051-02080-00-00

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 M13H

Farm Name: GRAHAM H. LONGWORHT JR

U.S. WELL NUMBER: 47-051-02080-00-00

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

API Number:	
	00/21/2019

## PERMIT CONDITIONS 4705102080

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

### CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well.
- 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 4705102080

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. M13H
Well Pad Name:	Longwerth

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

1) Well Operator: Chevron A	Appalachia, LLC	49449935	Marshall	Clay	Glen Easton, WV
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: <u>M</u>	113H	Well P	ad Name: Long	gworth	
3) Farm Name/Surface Owner:	Graham H Longv	vorth Jr. Public Re	oad Access: Ro	berts Ridg	e Road/WV-21
4) Elevation, current ground:	1294.18' I	Elevation, propose	d post-construc	tion:	
5) Well Type (a) Gas X Other	Oil _	Un	derground Stor	age	
(b)If Gas Sh	allow X	Dеер			
Но	orizontal X			$\bigcirc$	
6) Existing Pad: Yes or No $\underline{Y}$	es			γν ε	3/30/18
<ol> <li>Proposed Target Formation ( Marcellus, 6,531, 61' thick, 0.</li> </ol>		icipated Thickness	and Expected	Pressure(s):	
8) Proposed Total Vertical Dep	th: 6,511'				
9) Formation at Total Vertical 1	Depth: Marcellu	ıs			
10) Proposed Total Measured I	Depth: 12,716'				
l I) Proposed Horizontal Leg L	ength: 4,810'				
12) Approximate Fresh Water S	Strata Depths:	568'			
13) Method to Determine Fresh	Water Depths:	1 mile radius se	arch around pa	d location	
14) Approximate Saltwater Dep	oths: 1279', 188	3', 2134'			
15) Approximate Coal Seam D	epths: 520', 836	)			
16) Approximate Depth to Poss	sible Void (coal n	nine, karst, other):	None		
17) Does Proposed well locatio			N	o X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:		····		
	Seam:				
	Owner:				

API NO. 47-\_\_\_\_OPERATOR WELL NO. 2/12/1/2018
Well Pad Name: Longworth

4705 102080

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	CTS
Coal					_		
Intermediate	9.625	New	L-80/ N-80	40	2,206	2,206	CTS
Production	5.5	New	P110	20	12,716	12,716	2706 (500' below 9.625" shoe)
Tubing							
Liners					-		

A 2/5/18

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"	<del></del> -				
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				V			
Liners							

### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

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JUL 19 2018

WW-6B	
(10/14)	

	API	NO. 47
		OPERATOR WELL NO 1914/2018
7		5/ell Pol Marge: gongworth
T /	U	3 - 0 2 0 9 0

1 A	N D :: l		J 11 -	1 -	:	41 1-:11:	1	, ,	1 1 0	any pilot hole	
19	i Describe i	nronosea	ı well v	<i>x</i> ork	inciliaino	the arillin	ิ จทก	nliigging	hack of	any nilot hole	•
• - ,	, Dobbilde	propose	* *** OII *	, ,	morading	tile di lilli	E min	prugging	Duck Of	any prior noice	•

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:

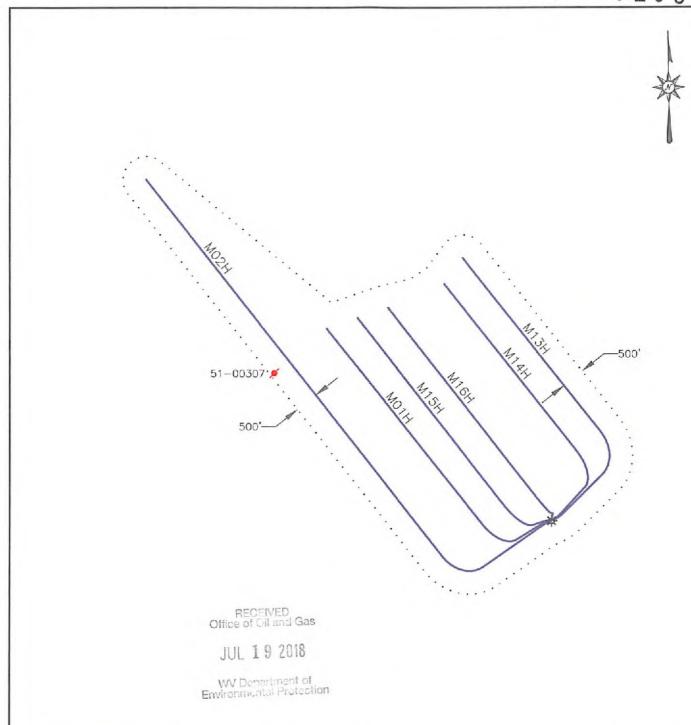
Air sections ensured to be clean via air circulation once TD is reached. Fluid sections will be circulated a minimum of 2 bottoms up once casing point has been reached and until uniform mud properties are achieved.

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<sup>\*</sup>Note: Attach additional sheets as needed.





10125 MASON DIXON HICHWAY BURTON, WV 26562 PHONE: (304) 562-6486

### PREPARED FOR:

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY CORAOPOLIS, PA 15108

#### **LEGEND**

→ WELL LOCATION

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

### 4705102080

Well ID	Propr Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
17-051-00307	Arrowhead Exploration Co.	Operator Unknown	Plugged	39,855780	-80.748193	3,000	Fourth	None
47-051-00553	Kentucky Central & Co.	Operator Unknown	Plugged	39.843735	-80.720930	1,168	Salt Sands	None
	9/2							

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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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				Lon	gworth M	113H		
			-				ound Level Elev. (ft above SL):	1270
Twp, Marshall Co, Wi	/					-		
DRILLING FLUID / BUT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	MD (FT)	H TVD [FI]	WELLHEAD DESIGN	HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
Core Barrel / Auger	2 Bowspring per R	20" Conductor	42	42	INC AZM	30	<u>Conductor</u> 20" 78.67# X-52 Minimum 40 ft from GL or at lear	Grout to Surface
	Bow Spring: (1) on shoe track w/step collar A (1) see jt over coupling to surface						Surface Coxing   13-3/8" 54.5# 155 8TC   0.38" Wall     Coupling OD (in)	Surface Blond (Class A) Cement to Surface
		13-3/8" Casing	618	618		17.5	Minimum 50 ft past deepest k	nown fresh water
	Bow Spring						Intermediate Casing	intermediate II Blend (Class A
	(1) on those track w,' stop collar & (1) per 3 gs over coupling						9-5/8" 404 3-55 BTC D 395" Wall Coupling OD (in) 10-625 D (in) 6-835 Dntt ID (in) 8-835 But ID (in) 3-950 Collapse (psh) 2-570 Yield (Jt Strength 1,000 lbs) 6390	Cement to Surface
h	Vertical.	9-5/8" Casing	2,184	2,184		12.375 - 12.25		
	tion Spring: (1) per every other it over coupling  Surve and Lateral Solid Composite (1) per jt of eng to KOP						Production Casing 5-1/2* 200 P-110 EC, 0.361" Wall Coupling OD (in) 5:300 (D (in) 4:778 Drift ID (in) 4.653 Burst (psi) 14380 Collapse (psi) 12990 Yield (Jt Strength 1,003 lbs) 729	Production Lead Sturry. Cement to Surface
		Middlesex		6,293				
		Burkett Shale		6,389				
		Tully Limestone		6,389				
		Hamilton shale		6,423				Production Tail Slurry
		Upper Marcellus		5,491				TCC minimum 200' above Marce
		Lower Marcellus		6,522			1.00	
		Basal Marcellus		6,547			2/5	
	Float Equip. (?) its of Csg						12/2	10
Non-Conservation	Float Equip.	5-1/2" Casing	12,715	6,511		8.5 - 8.75	-	

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API Numb	er 47	-	-
Operator's	Well	No.	Longworth M13H

# 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 49	449935	
Watershed (HUC 10) Middle Grave Cre	ek - Grave Creek	Quadrangle Glen Easton, WV		
Do you anticipate using more than 5,000	bbls of water to complete	the proposed well work? Ye	es 🗸 No	
Will a pit be used? Yes No	$\checkmark$			
If so, please describe anticipate	ed pit waste:			
Will a synthetic liner be used in	the pit? Yes	No If so, what ml.?		
Proposed Disposal Method For	Treated Pit Wastes:			
Underground  Reuse (at AP	ition (if selected provide a Injection (UIC Permit N I Number at next anticipated w osal (Supply form WW-9	vell /	)	
Other (Explai	in			
Will closed loop systembe used? If so,				
Drilling medium anticipated for this wel		V	e. Air & Oil Based	
-If oil based, what type? Synth	etic, petroleum, etc. Synth	etic		
Additives to be used in drilling medium?	Barite, fluid loss, emulsifier	s, rheological control		-
Drill cuttings disposal method? Leave in	a pit, landfill, removed off	site, etc. Removed offsite		
-If left in pit and plan to solidify	y what medium will be us	ed? (cement, lime, sawdust)		
-Landfill or offsite name/permit	number? Arden Landfill #1	00172; South Hills Landfill #100592;	Short Creek Landfill #WV109517	/
Permittee shall provide written notice to West Virginia solid waste facility. The n where it was properly disposed.	the Office of Oil and Gas notice shall be provided wi	of any load of drill cuttings or thin 24 hours of rejection and t	associated waste rejected at ar he permittee shall also disclos	iy se
I certify that I understand and a on April I, 2016, by the Office of Oil as provisions of the permit are enforceable or regulation can lead to enforcement act I certify under penalty of law application form and all attachments the the information, I believe that the information including the Company Official Signature	nd Cas of the West Virgin by law. Violations of any tion. that I have personally ex- reto and that, based on my mation is true, accurate, a	ia Department of Environment term or condition of the general samined and am familiar with inquiry of those individuals im- and complete. I am aware that	al Protection. I understand the dispermit and/or other applicable the information submitted of mediately responsible for obtained.	nat the le law  n this aining les for
Company Official (Typed Name) Jenny	y Hayes	0	JUL 19	2018
Company Official Title Permitting Team	n Lead		WV Departn Environmental I	Dec.
Subscribed and swom before me this	19th day of Ju	nunary , 20		
My commission expires	September	17, 2018	Commonwealth of Pennsylv Laura Savage, Note	ania - Notary So ary Public
Cummunwealth of Benrsyl	Vania	1	Allegheny Co My commission expires Se	unty ptember 17, 20
County of Allegheny			Commission number	r 1285773

Proposed Revegetation Treatment: Acres Disturbed	d 14.2 Prevegetation pH Per soil testing report
Lime Per soil testing report Tons/acre or to e	orrect to pH Per soil testing report
Fertilizer type	
Fertilizer amount 1,000	lbs/acre
Mulch_C	Tons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type Ibs/acre See table A attached	Seed Type lbs/acre See table B attached
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied (L, W), and area in acres, of the land application are Photocopied section of involved 7.5' topographic sl	
Plan Approved by: Jue Techo	he
Comments:	
	PECEIVED Office of Oil and Gas
	JUL 19 2018
Title: Oil + Gas (mg) call	Date: 3 6 8 Environment of Environment at Protection
Field Reviewed?	()No

TABLE A - TEMPORARY SEEDING M	IXTURES (FROM WY DOT D	OH STANDARD SPECIFICA	ATIONS)
VARIETY OF SEED	SPRING MAR 1 - MAY 15 LBS/ ACRE	SUMMER MAY 16 - AUG 15 LBS/ ACRE	FALL AND WINTER AUG 16 - APR 30 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	50

TABLE B - SEED MIXTURES (FROM WV D	OT DOH STANDARD SPEC!	FICATIONS)
	TYPE D*	TYPE L
	(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 **		53
ANNUAL RYEGRASS AUG 1 TO MAY 15 OR WEEPING	-	12
LOVEGRASS MAY 15 TO AUGUST 1	,	5

<sup>\*30</sup> 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

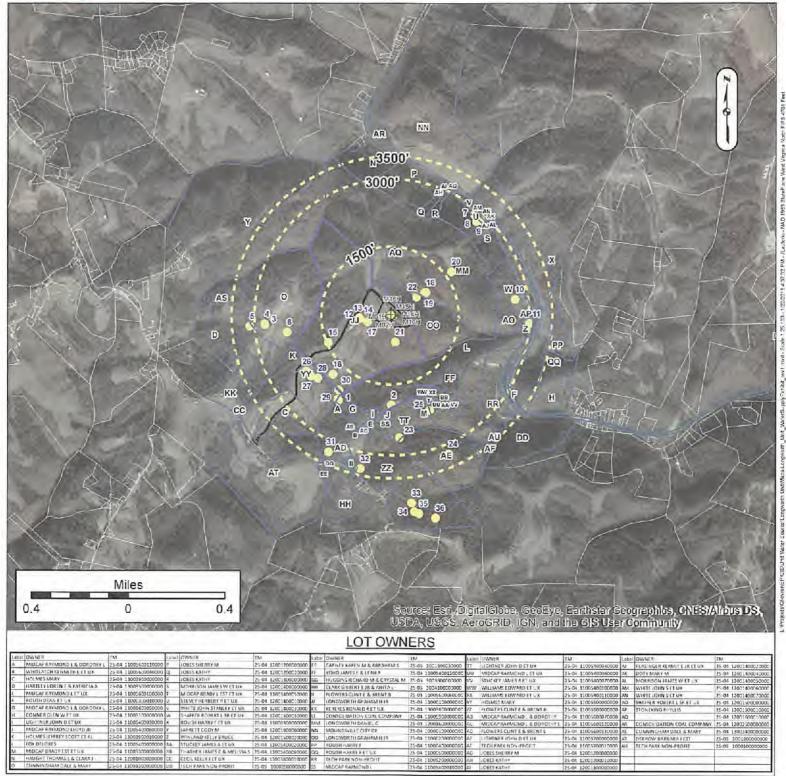
TABLE C - FERTILIZER					
TYPE	FORMULA	RATE (LBS/ ACRE)			
MIXED GRASSES AND LEGUMES	10-10-20	1,000			
	5-20-10 (PREFERRED) OR	1 000			
LEGUME STANDS ONLY	10-20-10	1,000			
GRASS STANDS ONLY	10-10-20	1,000			

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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



Office of Cit and Gas

JUL 19 247 0 5



SUPPLY PHONE # No. WATER PURVEYOR ELEV. **ADDRESS** 1 MIDCAP RAYMOND L & DOROTHY L Stream 1,148 163 Roberts Ridge 304-845-6114 ARNETT, SUSAN DUNCAN-2 Well 1,272 356 Wilson Hill Lane 304-639-2314 ARNETT 3 **CUNNINGHAM DALE & MARY** Well 1,294 446 Cunningham Lane 304-845-0864 Cistern 304-845-0864 4 **CUNNINGHAM DALE & MARY** 446 Cunningham Lane 1,291 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 Well 715 94 Big Grave Crk 304-845-1835 MORRISON JAMES W ET UX 8 MORRISON JAMES W ET UX Spring 727 94 Big Grave Crk 304-845-1835 9 Pond MORRISON JAMES W ET UX 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 95 Big Grave Crk 304-845-6083 679 Dug Well 12 LONGWORTH GRAHAM H JR 1,312 2527 Fork Ridge Road 304-281-4840 Dug Well 13 LONGWORTH GRAHAM H JR 2527 Fork Ridge Road 304-281-4840 1,303 14 LONGWORTH GRAHAM H JR Cistern 1,309 2527 Fork Ridge Road 304-281-4840 15 LONGWORTH GRAHAM H JR Pond 2527 Fork Ridge Road 304-281-4840 1,251 1H 2H No. SUPPLY COORDINATES 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	
15	39° 50′ 44.37960″N 80° 43′ 53.60520″W	1,470	1,478	1,520	1,512	1,504	1,496	



JUL 1 9 2018



SUPPLY ELEV. No. WATER PURVEYOR 304-281-4840 Spring 1,190 2527 Fork Ridge Road 16 LONGWORTH GRAHAM H JR 304-281-4840 LONGWORTH GRAHAM H JR Spring 1,288 2527 Fork Ridge Road 17 304-845-0413 LONGWORTH DANIEL C Spring 812 Spindle Lane 18 1,148 304-845-0413 19 LONGWORTH DANIEL C Spring 1,168 812 Spindle Lane Dug Well 812 Spindle Lane 304-845-0413 20 LONGWORTH DANIEL C 1,201 304-281-4840 21 LONGWORTH GRAHAM H JR Spring 1,217 2527 Fork Ridge Road 22 LONGWORTH GRAHAM H JR Pond 1,151 2527 Fork Ridge Road 304-281-4840 23 LIGHTNER JOHN D ET UX Stream 264 Wilson Hill Lane 304-280-9370 984 24 Dug Well 264 Wilson Hill Lane 304-280-9370 LIGHTNER JOHN D ET UX 1,082 25 MIDCAP RAYMOND LET UX Stream 1.132 5655 Roberts Ridge 304-845-6114 Pond 26 HOLMES MARY 1,241 197 Spindle Lane 304-845-0703 27 HOLMES MARY Pond 1 241 197 Spindle Lane 304-845-0703 28 HOLMES MARY Pond 197 Spindle Lane 304-845-0703 1,189 29 HOLMES MARY Stream 304-845-0703 1.055 197 Spindle Lane 30 HOLMES MARY Stream 304-845-0703 1,137 197 Spindle Lane No. SUPPLY COORDINATES 2H 13H 14H 16H 1H 15H 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 516 506 558 548 539 529 18 39° 50' 55.43520"N 80° 43' 26.41440"W 891 930 896 902 908 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 578 568 570 590 579 600 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 27 39° 50' 37.13640"N 80° 43' 58.28520"W 2,166 2,170 2,209 2,204 2,199 2,194 28 39° 50' 36.69360"N 80° 43' 56.34840"W 2,078 2,082 2,119 2,115 2,111 2,107 29 39° 50' 32.17560"N 80° 43' 50.67840"W 2,146 2,145 2,174 2,175 2,175 2,176

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39° 50' 34.24200"N 80° 43' 50.41200"W

30



4705 102080

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	

Office of Oil and Gas

JUL 1 9 2018

WV Department of Environmental Protection



### Chevron

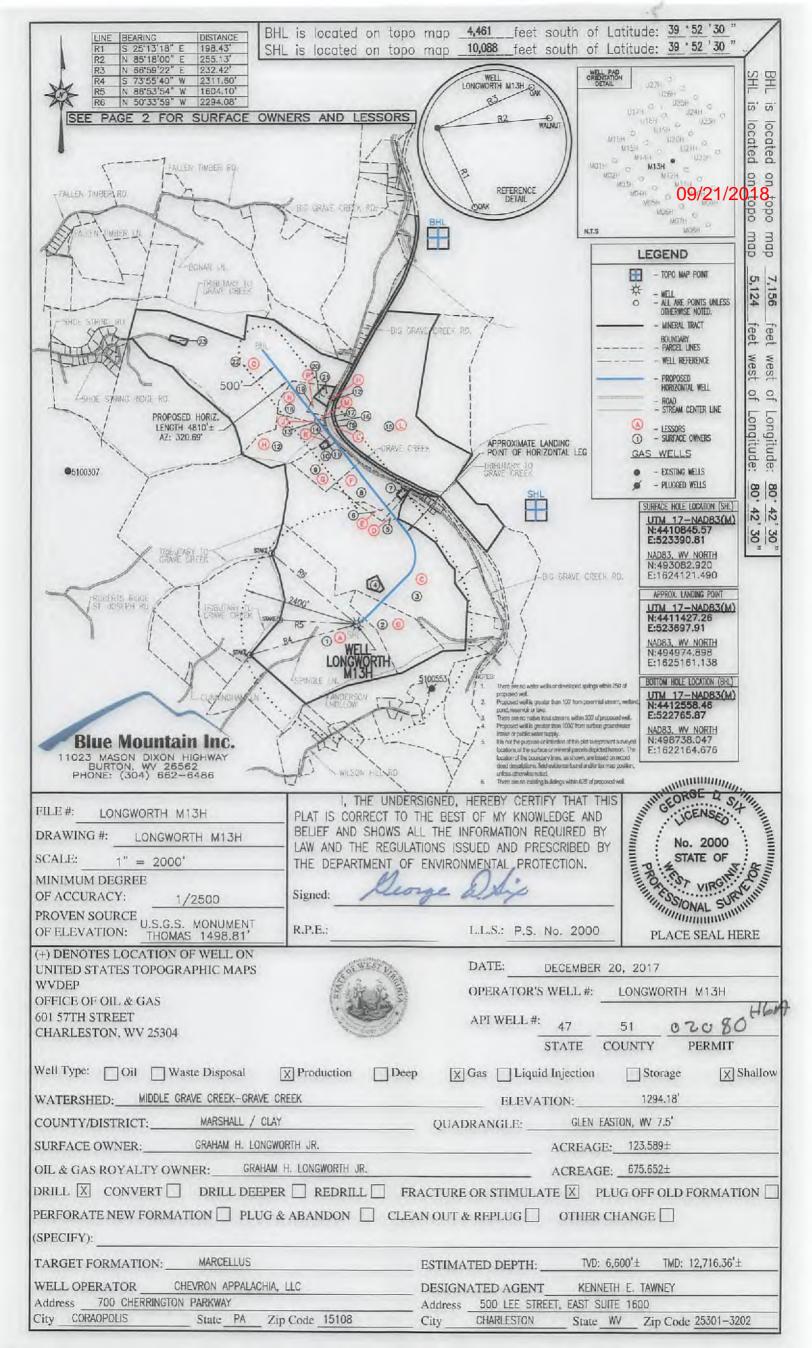
Appalachian LLC WV Well Site Safety Plan

Pad: Longworth Pad A Well # M13H gn 1/5/18

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

Office of Oil and Gas
JUL 1 9 2018
WV Department of
Environmental Protection



# LONGWORTH 47. 051. 02080 M13H PAGE 2 OF 2

ORTH JR. ET AL 4-11/1  ORTH JR. ET AL 4-11/2  ORTH JR. ET AL 4-12/16	6
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	LESSOR	009/21/20 4-12/10.4
A	MARY ANN BAKER	4-12/10.4
	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	
N	MARY ANN BAKER	4-12/10.5
	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	
P	MARY ANN BAKER	4-12/9
	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	4 40/7
3	JMK IREV TRST	4-12/3
	PURPLEBURGH VENTURES LLC	
	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
3	DANIEL C. LONGWORTH	4-12/16
4	DANIEL C. SR. AND JEANNETTE L. LONGWORTH	4-12/16.1
5	KEVIN HAUGHT	4-12/13
6	KEVIN HAUGHT	4-12/12.2
7	KEVIN HAUGHT	4-12/12.1
8	KEVIN HAUGHT	4-12/12
9	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/10.2
10	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/6
11	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/11
12	THOMAS HAUGHT ET AL	4-12/10
13	CLIFFORD A. & JOY M. WHITE	4-12/10.3
14	THOMAS L. & CLARA J. HAUGHT	4-12/10.1
15	CITY OF MOUNDSVILLE	4-10/1
16	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-12/25
17	CLIFFORD A. & JOY M. WHITE	4-12/10.4
18	CLIFFORD A. & JOY M. WHITE	4-12/10.5
19	THOMAS L. & CLARA J. HAUGHT	4-12/9
20	THOMAS L. & CLARA J. HAUGHT	4-12/8
21	THOMAS L. & CLARA J. HAUGHT	4-12/7
22	MERLE CHAPLIN ET UX	4-12/3
23	MERLE R. & JEAN E. CHAPLIN	4-12/3.1

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4410845.57
E:523390.81

NADR3 W NORTH

NAD83, WV NORTH N:493082.920 E:1624121.490

APPROX. LANDING POINT

<u>UTM 17-NAD83(M)</u>
N:4411427.26
E:523697.91

NAD83, W NORTH N:494974.898 E:1625161.138

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4412558.46
E:522765.87
NAD83 W NORTH

NAD83, W NORTH N:498738.047 E:1622164.676



### 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 —

- 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

### 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

RECEIVED Office of Oil and Gas

JUL 19 2018

Page 1 of

WV Department of Environmental Protection

## 4705102080

Longworth Unit #13H

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
office of Oil and Gas  JUL 19 2018		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
	REC Office of (	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
	SIVED Oil and Ga	FREISE ANTHONY	TriEnergy Holdings, LLC	0.14	BK 753 - PG 580	TriEnergy Holdings, LLC to Chevron U.S.A. Inc. BK 28 - PG 348	n/a
	S	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
		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
4-12-1	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 Chevror 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

					BK 28 - PG 348	
	FRIESE KEITH	TriEnergy Holdings, LLC	0.14	BK 751 - PG 264	TriEnergy Holdings, LLC to	n/a
					Chevron U.S.A. Inc. BK 28 - PG 348	
	FREISE MARK	TriEnergy Holdings, LLC	0.14	Bk 751 - PG 250	TriEnergy Holdings, LLC to	n/a
					Chevron U.S.A. Inc. BK 28 - PG 348	
	FREISE ANTHONY	TriEnergy Holdings, LLC	0.14	BK 753 - PG 580	TriEnergy Holdings, LLC to	n/a
, <u>o</u>					Chevron U.S.A. Inc. BK 28 - PG 348	
	FRIESE JAMES	TriEnergy Holdings, LLC	0.14	BK 751 - PG 254	TriEnergy Holdings, LLC to	n/a
RECEIVED Office of Oil and Gas					Chevron U.S.A. Inc. BK 28 - PG 348	
ZED and	FREISE HENRY	TriEnergy Holdings, LLC	0.14	BK 752 - PG 382	TriEnergy Holdings, LLC to	n/a
Gas					Chevron U.S.A. Inc. BK 28 - PG 348	
	FRIESE STEVEN	TriEnergy Holdings, LLC	0.14	BK 751 - PG 252	TriEnergy Holdings, LLC to	n/a
					Chevron U.S.A. Inc. BK 24 - PG 180	BK 756 - PG 332
4-12-13.0	JOBES MICHAEL A ET UX	TriEnergy Holdings, LLC	0.16	BK 704 - PG 24	TriEnergy Holdings, LLC to	NPAR, LLC to Chevron
					NPAR, LLC BK 24 - PG 180	U.S.A. Inc. BK 756 - PG 332
4-12-12.2	JOBES MICHAEL ET UX	TriEnergy Holdings, LLC	0.16	BK 704 - PG 22	TriEnergy Holdings, LLC to	NPAR, LLC to Chevron
					NPAR, LLC BK 24 - PG 180	U.S.A. Inc. BK 756 - PG 332
4-12-12.0	JOBES MICHAEL A ET UX	TriEnergy Holdings, LLC	0.16	BK 704 - PG 18	TriEnergy Holdings, LLC to	NPAR, LLC to Chevron
4-12-10.2	DAVED AAADV AANI	Charman II C A Jus	0.46	DK 000 DC 540	NPAR, LLC	U.S.A. Inc.
4-12-10.2	BAKER MARY ANN ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
	OLIMAN TROST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a BK 26 - PG 123	n/a 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

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							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 Chevron U.S.A. Inc.	n/a
	4-12 <b>-1</b>	0.0	BAKER MARY ANN	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
			ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a	n/a
							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	NPAR, LLC to Chevron U.S.A. Inc.
			WUERTHELE ROBERT S	Chevron U.S.A. Inc.	0.18	BK 853 - PG 63	n/a	n/a
Env.		0	WUERTHELE MARK K	Chevron U.S.A. Inc.	0.18	BK 853 - PG 79	n/a	n/a
100	JUL	ffice	<b>WUERTHELE JEFFREY A</b>	Chevron U.S.A. Inc.	0.18	BK 853 - PG 127	n/a	n/a
100 mg	 	of (	WUERTHELE MICHAEL D ET UX	Chevron U.S.A. Inc.	0.18	BK 853 - PG 103	n/a	n/a
	9 2018	RECEIVED Office of Oil and Gas	Chevron U.S.A. Inc.	Chevron U.S.A. Inc.	Fee	BK 886 - PG 595	n/a	n/a
nend Prot	201	a					BK 36 - PG 168	
VAV Dengatment of Environmental Frotection	œ	Gas	ZIDAR SUSAN ET VIR	TH Exploration, LLC	0.18	BK 877 - PG 222	TH Exploration, LLC to Chevron U.S.A. Inc. BK 36 - PG 168	n/a
			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.	
	4-12-1	0.3	BAKER MARY ANN	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
			ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a	n/a
			DIOCESE OF WHEELING - CHARLESTON	Tuiffnonn, Holdings, H.C.	0.10	DK 730 DC 500	BK 26 - PG 123	BK 26 - PG 201
			DIOCESE OF WHEELING - CHARLESTON	TriEnergy Holdings, LLC	0.18	BK 738 - PG 309	TriEnergy Holdings, LLC to 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 Chevron U.S.A. Inc.	n/a

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4-12-10.		10.1	BAKER MARY ANN	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
			ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a	n/a
							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
띄		0	WUERTHELE MICHAEL D ET UX	Chevron U.S.A. Inc.	0.18	BK 853 - PG 103	n/a	n/a
vio. Menin		Ħo	Chevron U.S.A. Inc.	Chevron U.S.A. Inc.	Fee	BK 886 - PG 595	n/a	n/a
		e of FIE					BK 36 - PG 168	
E C	19	일표	ZIDAR SUSAN ET VIR	TH Exploration, LLC	0.18	BK 877 - PG 222	TH Exploration, LLC to	n/a
WV Deportment of Environmental Protection	2018	RECEIVED Office of Oil and G					Chevron U.S.A. Inc. BK 36 - PG 168	
	α.	Gas	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.	
	4-10	-1.0	BAKER MARY ANN	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
			ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a	n/a
							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	
			WILEDTIES COOPER C				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 BK 36 - PG 168	n/a
			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-	10.4	BAKER MARY ANN	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
			ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a	n/a
							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	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 BK 36 - PG 168	n/a
		ZIDAR SUSAN ET VIR	TH Exploration, LLC	0.18	BK 877 - PG 222	TH Exploration, LLC to Chevron U.S.A. Inc. BK 36 - PG 168	n/a	
			LAUREN M TEKELY IRREVOCABLE TRUST	TH Exploration, LLC	0.18	BK 876 - PG 177	TH Exploration, LLC to Chevron U.S.A. Inc.	n/a
	4-12-3	10.5	BAKER MARY ANN	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
			ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a BK 26 - PG 123	n/a BK 26 - PG 201
			DIOCESE OF WHEELING - CHARLESTON	TriEnergy Holdings, LLC	0.18	BK 738 - PG 509	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.
			WUERTHELE ROBERT S	Chevron U.S.A. Inc.	0.18	BK 853 - PG 63	n/a	n/a
Ē		RECEIVED Office of Oil and Gas	WUERTHELE MARK K	Chevron U.S.A. Inc.	0.18	BK 853 - PG 79	n/a	n/a
Ř. Š.			WUERTHELE JEFFREY A	Chevron U.S.A. Inc.	0.18	BK 853 - PG 127	n/a	n/a
Der			WUERTHELE MICHAEL D ET UX	Chevron U.S.A. Inc.	0.18	BK 853 - PG 103	n/a	n/a
ertine ital Pic	9 20		Chevron U.S.A. Inc.	Chevron U.S.A. Inc.	Fee	BK 886 - PG 595	n/a BK 36 - PG 168	n/a
WV Department of Environmental Protection	018		ZIDAR SUSAN ET VIR	TH Exploration, LLC	0.18	BK 877 - PG 222	TH Exploration, LLC to Chevron U.S.A. Inc. BK 36 - PG 168	n/a
			LAUREN M TEKELY IRREVOCABLE TRUST	TH Exploration, LLC	0.18	BK 876 - PG 177	TH Exploration, LLC to Chevron U.S.A. Inc.	n/a
	4-12-	9.0	BAKER MARY ANN	Chevron U.S.A. Inc.	0.16	BK 808 - PG 518	n/a	n/a
			ULMAN TRUST MARY ANN BAKER TRSTE	Chevron U.S.A. Inc.	0.16	BK 808 - PG 550	n/a BK 26 - PG 123	n/a BK 26 - PG 201
			DIOCESE OF WHEELING - CHARLESTON	TriEnergy Holdings, LLC	0.18	BK 738 - PG 509	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron 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

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JUL 19 2018

WV Department of Environmental Protection



4705 \* 02080

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 Chemngton Parkway, Coraopolis, PA 15108
Tel 412 865 1425
Luke Slagel@chevron.com

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JUL 1 9 2018

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☐ RECEIVED

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

Date of Notic	ce Certification: 1/22/18	API No. 47	'	
	1	Operator's	Well No. M13	н
		Well Pad N	ame: Longwo	orth
<b>Notice has I</b> Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the req	uired parties v	with the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	UTM NAD 83 Easting:	523390.81	
County:	Marshall	Nortning:	4410845.57	
District:	Clay	Public Road Access:	Roberts Ridge R	oad/WV-21
Quadrangle: Watershed:	Glen Easton, WV 7.5'	Generally used farm name:	Longworth	
watersned:	Middle Grave Creek - Grave Creek	<del></del>		
requirements Virginia Code of this article Pursuant to	of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall thave been completed by the applicant West Virginia Code § 22-6A, the Option 1.	erator has attached proof to this Notice Co	the surface over that the notice	vner; and Pursuant to West
that the Ope	rator has properly served the require	d parties with the following:		
*PLEASE CHE	ECK ALL THAT APPLY			OOG OFFICE USE ONLY
☐ 1. NOT	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	FICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY WAS CO	NDUCTED	☐ RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)	CE OWNER	
■ 4. NOT	TICE OF PLANNED OPERATION	RECEIVED Office of Oil and Ga	S	☐ RECEIVED
■ 5. PUB	BLIC NOTICE	JUL 1 9 2018		☐ RECEIVED

### **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

**Environmental Fratastion** 

# 47 0 5 1 0 209/28/2018

### Certification of Notice is hereby given:

THEREFORE,	I Jeility Hayes , ha	ave read and understand the notice requirements within West Virginia Code § 2	22-				
6A. I certify that	at as required under West Virginia (	Code § 22-6A, I have served the attached copies of the Notice Forms, identify	ied				
above, to the re	bove, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or						
signature confir	signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted						
in this Notice (	in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible						
		ation is true, accurate and complete. Lam aware that there are significant penalt					
		bility of fine and imprisonment.					
Well Operator:	Chevron Appalachia, LLC	Address: 700 Cherrington Parkway					
By:	Jenny Hayes	Coraopolis, PA 15108					
Its:	Permitting Team Lead	Facsimile: 412-865-2403					
Telephone:	412-865-1533	Email: JZYK@chevron.com					
		Commonwealth of Pennsylvania					
		County of Alleghamy					
Commonwe	ealth of Pennsylvania - Notary Seal	Subscribed and sworn before me this 7th day of March, 2018.	2				
	ra Savage, Notary Public						
	Allegheny County	Notary Public					
	ssion expires September 17, 2018	4					
	mission number 1285773	My Commission Expires September 17 2018					
Member, Pe	ennsylvania Association of Notaries						

#### 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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Office of Oil and Gas

JUL 1 9 2018

WV Department of f Environmental Franction

API NO. 47	00/04/0040
OPERATOR WELL NO.	мы9/21/2018
Well Pad Name: Longworth	

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

Notic	e Time Requirement: notic	ce shall be provided no later th	an the filing date of permit application.
Date Notic		Permit Application Filed: 7	118/18
	PERMIT FOR ANY WELL WORK	CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Deliv	ery method pursuant to W	est Virginia Code § 22-6A-1	0(b)
	PERSONAL	GISTERED	OD OF DELIVERY THAT REQUIRES A
	SERVICE MA		IPT OR SIGNATURE CONFIRMATION
certific registe sedime the sur oil and descrii operat more of well w impour have a provid propos subsec record provis Code I	cate of approval for the consti- ered mail or by any method of ent control plan required by so rface of the tract on which the d gas leasehold being develop- bed in the erosion and sedime for or lessee, in the event the tractional seams; (4) The owners of work, if the surface tract is to be andment or pit as described in a water well, spring or water so le water for consumption by hased well work activity is to take totion (b) of this section hold in its of the sheriff required to be ion of this article to the contra R. § 35-8-5.7.a requires, in pa	ruction of an impoundment or p f delivery that requires a receipt fection seven of this article, and we well is or is proposed to be loc ped by the proposed well work, i ent control plan submitted pursu tract of land on which the well p f record of the surface tract or tr be used for the placement, const a section nine of this article; (5) a supply source located within one numans or domestic animals; and ke place. (c)(1) If more than threa nterests in the lands, the applicate maintained pursuant to section ary, notice to a lien holder is not part, that the operator shall also p	e of the application, the applicant for a permit for any well work or for a it as required by this article shall deliver, by personal service or by or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the f the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to a thousand five hundred feet of the center of the well pad which is used to d (6) The operator of any natural gas storage field within which the ete tenants in common or other co-owners of interests described in the net may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any an notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☑ Ap	plication Notice 🛮 WSSP	PNotice DE&S Plan Notice	■ Well Plat Notice is hereby provided to:
☑ SUF	RFACE OWNER(s)		☑ COAL OWNER OR LESSEE
Name	Graham H Longworth Jr		Name: Consolidated Coal Company
Addre	SS: 2527 Fork Ridge Road		Address: 1000 Consol Energy Drive
	ville, WV 26041	<del></del>	Canonsburg, PA 15317
Name:	:		☑ COAL OPERATOR
Addre	ess:		Name: Murray Energy Corporation
			Address: 46226 National Road
☑ SUF	RFACE OWNER(s) (Road a	and/or Other Disturbance)	St. Clairsville, OH 43950
Name:	Mary Holmes		SURFACE OWNER OF WATER WELL
Addre	SS: 197 Spindle Lane		AND/OR WATER PURVEYOR(s)
	ville, WV 26041		Name: Daniel C. Longworth
Name:	The Estate of Barbara J. Derrow		Address: 812 Spindle Lane
Addre	SS: 6247 Roberts Ridge Road		Moundsville,WV 26041
	ville, WV 26041		OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	RFACE OWNER(s) (Impoun		Name: Address:
Addre	ss:		
			*Please attach additional forms if necessary

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JUL 1 9 2018

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Office of Oil and Gas

JUL 1 9 2018

API NO. 47-\_\_\_OPERATOR WELL NO. MGW/21/2018
Well Pad Name: Longworth

#### Notice is hereby given:

Environmental motertion

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 <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### **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

API NO. 47-OPERATOR WELL NO. M10/9/21/2018

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:

| RECEIVED Office of Oil and Gas

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

JUL 19 2018

WV Department of Invironmental 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.

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

### **Permit Denial or Condition**

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

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

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

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

RECEIVED Office of Oil and Gas

JUL 1 9 2018

V / Department of Environmental Protection

Notice	is	hereby	given	by:

Well Operator: Chevron Appalachia, LLC

Telephone: 412-865-1533

Email: izyk@chevron.com

Address: 700 Cherrington Parkway

Coraopolis, PA 15108

Facsimile: 412-865-2403

Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal Laura Savage, Notary Public Allegheny County My commission expires September 17, 2018 Commission number 1285773 Member, Pennsylvania Association of Notaries Commonwealth of Pennsylvania
Country & Allegheny
Subscribed and sworn before me this 19th day of Jany ary 2018.

Howard wage Notary Public

My Commission Expires September 17 2018

Office of Oil and Gas

JUL 1 9 2018

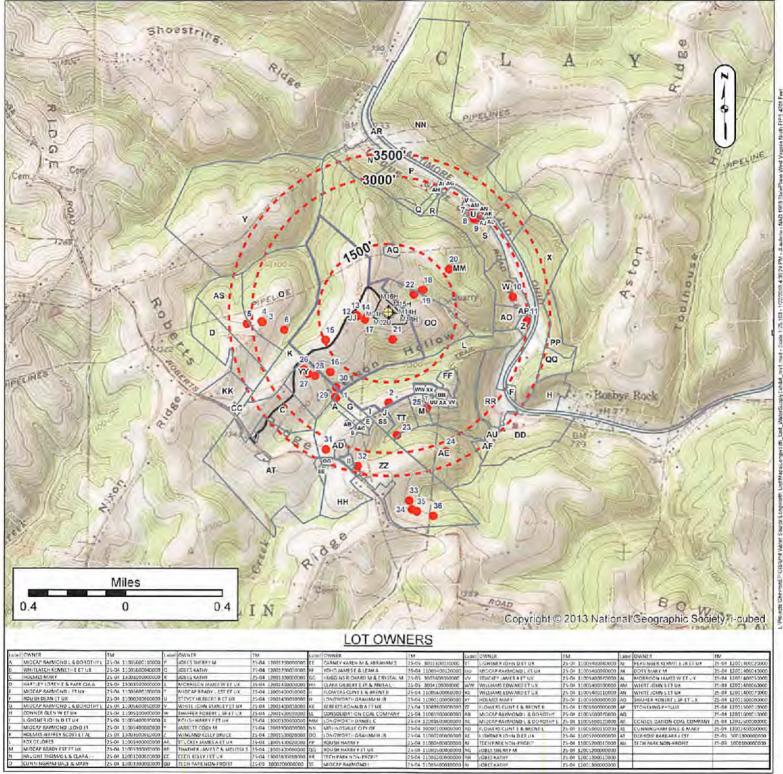
 ∀ J Department of Environmental Protection



JUL 1 5 2018



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: <u>724-564-3700</u>

County: MARSHALL

Township: MOUNDSVILLE, WV

**GROUNDWATER & ENVIRONMENTAL** 

Surveyor: SERVICES, INC.

Address: 301 COMMERCE PARK DR

CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549

WW-6A4 (1/12) 4705 \$ 0200/8102018 Operator Well No. M13H Longworth

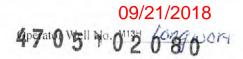
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

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 Notic	Requirement: Notice shall be provided at lea	st TEN (10) days prior to filing a	permit application.
Delivery met	hod pursuant to West Virginia Code § 22-6	A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		STED	
receipt request drilling a hor of this subsec- subsection mand if availab	V. Va. Code § 22-6A-16(b), at least ten days p sted or hand delivery, give the surface owner rizontal well: <i>Provided</i> , That notice given purtion as of the date the notice was provided to tay be waived in writing by the surface owner. le, facsimile number and electronic mail address.	notice of its intent to enter upon to suant to subsection (a), section the surface owner: <i>Provided, ho</i> . The notice, if required, shall incess of the operator and the operator.	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number.
	reby provided to the SURFACE OWNE		UU 7 0 0010
Name: Graham Address: 2527		Name:	JUL 1 9 2018
Moundsville, WV		Address:	WV Departurent of Environmental Protection
State: County:	vner's land for the purpose of drilling a horizo West Virginia Marshall	UTM NAD 83 Easting: Northing:	523390.B1 4410845.57
District:	Clay	Northing:	Harris and the second s
Quadrangle:	Glen Easton, WV 7.5'	Public Road Access: Generally used farm name:	Roberts Ridge Road/WV-21 Longworth
Watershed:	Middle Grave Creek - Grave Creek	Ocherany used farm hame.	Longworth
Pursuant to Y facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the oper izontal drilling may be obtained from the Sec. 57th Street, SE, Charleston, WV 25304 (304-	ator and the operator's authorize cretary, at the WV Department of	ed representative. Additional information
Pursuant to V facsimile nur related to hor located at 601 Notice is he	West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the oper izontal drilling may be obtained from the Sec. 57th Street, SE, Charleston, WV 25304 (304-reby given by:	ator and the operator's authorize cretary, at the WV Department of	ed representative. Additional information
Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the oper izontal drilling may be obtained from the Set 57th Street, SE, Charleston, WV 25304 (304-	ator and the operator's authorize cretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V facsimile nur related to hor located at 601 Notice is he	West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the oper izontal drilling may be obtained from the Sec. 57th Street, SE, Charleston, WV 25304 (304-reby given by:	ator and the operator's authorize cretary, at the WV Department of 926-0450) or by visiting <u>www.d</u>	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V facsimile nur related to hor located at 600 Notice is he Well Operato Address: Coracpolis, WV	West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the oper izontal drilling may be obtained from the Sec. 57th Street, SE, Charleston, WV 25304 (304-reby given by:  Chevron Appalachia, LLC 700 Cherrington Parkway	ator and the operator's authorize cretary, at the WV Department of 926-0450) or by visiting <u>www.d</u> Authorized Representative	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V facsimile nur related to hor located at 600 Notice is he Well Operato Address: Coracpolis, WV Telephone:	West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the oper izontal drilling may be obtained from the Sec. 57th Street, SE, Charleston, WV 25304 (304-reby given by:  Chevron Appalachia, LLC 700 Cherrington Parkway	ator and the operator's authorize cretary, at the WV Department of 926-0450) or by visiting <u>www.d</u> Authorized Representative	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address:	West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the oper izontal drilling may be obtained from the Sec. 57th Street, SE, Charleston, WV 25304 (304-reby given by:  T: Chevron Appalachia, LLC 700 Cherrington Parkway	ator and the operator's authorize tretary, at the WV Department of 926-0450) or by visiting www.d  Authorized Representative Address:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.

#### Oil and Gas Privacy Notice:

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# 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 provide	ed at least TEN (10) days prior to filing Permit Application Filed: 7	a permit application.
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND DELIVE	CERTIFIED MAIL RETURN RECEIPT I	REQUESTED	
drilling a hor of this subsection m	V. Va. Code § 22-6A-16(b), at least ten sted or hand delivery, give the surface rizontal well: <i>Provided</i> , That notice give etion as of the date the notice was provi- ay be waived in writing by the surface	days prior to filing a permit application owner notice of its intent to enter upon the pursuant to subsection (a), section the ded to the surface owner: Provided has	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements owever, That the notice requirements of this clude the name, address, telephone number, for's authorized representative.
Notice is he	ereby provided to the SURFACE (		
Address: 197		Name:	
Moundsville, VVV		Address:	
the surface of State: County: District: Quadrangle: Watershed:	west Virginia Code § 22-6A-16(b), not 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:	well operator has an intent to enter upon follows: 523390.81 4410845.57 Roberts Ridge Road/WV-21 Longworth
Pursuant to V facsimile nur related to hor	izontal drilling may be obtained from	the Secretary at the WV Department	ress, telephone number, and if available, sed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	reby given by:		
wen Operato	F. Chevron Appalachia IIIC	Authorized Representatives	
Address:	Chevron Appalachia, LLC 700 Cherrington Parkway	Authorized Representative:	
Address:	700 Cherrington Parkway	Authorized Representative: Address:	RECEIVED
Address: Coraopolis, WV	700 Cherrington Parkway 1510B	Address:	
Address: Coraopolis, WV Telephone:	700 Cherrington Parkway 15108 412-865-1533	Address:	RECEIVED
Address:	700 Cherrington Parkway 1510B	Address:	RECEIVED

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WW-6A4 (1/12)



## 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 provided ce: 1/22/18 Date I	d at least TEN (10) days prior to filing Permit Application Filed: 118	a permit application.
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		EQUESTED	
receipt reque drilling a hor of this subsec subsection m and if availab	sted or hand delivery, give the surface of izontal well: <i>Provided</i> . That notice give ction as of the date the notice was provid ay be waived in writing by the surface of the sle, facsimile number and electronic main	owner notice of its intent to enter upon the pursuant to subsection (a), section to ded to the surface owner: <i>Provided, ho</i> owner. The notice, if required, shall incided address of the operator and the operator	i, 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.
	reby provided to the SURFACE (	Name:	
	Roberts Ridge Road	Address:	
Moundsville, WV	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Address.	
the surface of	wner's land for the purpose of drilling a	horizontal well on the tract of land as f	l well operator has an intent to enter upon
the surface ov State: County: District: Quadrangle:	wner's land for the purpose of drilling a West Virginia Marshall Clay Glen Easton, WV 7.5' Middle Grave Creek - Grave Creek	horizontal well on the tract of land as for the street of land as for	ollows: 523390.81 4410845.57 Roberts Ridge Road/WV-21 Longworth
the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Valessimile nur	West Virginia  Marshall  Clay  Glen Easton, WV 7.5'  Middle Grave Creek - Grave Creek  Shall Include: West Virginia Code § 22-6A-16(b), the other and electronic mail address of the fizontal drilling may be obtained from	horizontal well on the tract of land as for the control of land as for the	ollows: 523390.81 4410845.57 Roberts Ridge Road/WV-21
the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Valesimile nurrelated to hor located at 601 Notice is he	West Virginia  Marshall  Clay  Glen Easton, WV 7.5'  Middle Grave Creek - Grave Creek  Shall Include: West Virginia Code § 22-6A-16(b), the mber and electronic mail address of the rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530-1 reby given by:	horizontal well on the tract of land as for the control of land as for the	ollows: 523390.81  4410845.57  Roberts Ridge Road/WV-21  Longworth  ress, telephone number, and if available, and representative. Additional information of Environmental Protection handquarters.
the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Valacisimile nurrelated to hor located at 601 Notice is he Well Operato	West Virginia  Marshall  Clay  Glen Easton, WV 7.5'  Middle Grave Creek - Grave Creek  Shall Include:  West Virginia Code § 22-6A-16(b), the other and electronic mail address of the cizontal drilling may be obtained from 157th Street, SE, Charleston, WV 2530-157th Street, SE, Charleston, WV 2530-1	horizontal well on the tract of land as for Easting:  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  his notice shall include the name, add the operator and the operator's authorize the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.d	ollows: 523390.81  4410845.57  Roberts Ridge Road/WV-21  Longworth  ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Values and to Notice at 601 Notice is he Well Operato Address:	West Virginia  Marshall  Clay  Glen Easton, WV 7.5'  Middle Grave Creek - Grave Creek  Shall Include:  West Virginia Code § 22-6A-16(b), the observation of the control of	horizontal well on the tract of land as for the control of the con	ollows: 523390.81  4410845.57  Roberts Ridge Road/WV-21  Longworth  ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Values and to Notice at 601 Notice is he Well Operato Address: Coraopolis, WW	West Virginia  Marshall  Clay  Glen Easton, WV 7.5'  Middle Grave Creek - Grave Creek  Shall Include: West Virginia Code § 22-6A-16(b), the observation of the rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	horizontal well on the tract of land as for the control of the con	ollows: 523390.81  4410845.57  Roberts Ridge Road/WV-21  Longworth  ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vales in the Notice at 601 Notice is he Well Operato Address: Coraopolis, WV Telephone:	wher's land for the purpose of drilling a  West Virginia  Marshall  Clay  Glen Easton, WV 7.5'  Middle Grave Creek - Grave Creek  Shall Include:  West Virginia Code § 22-6A-16(b), the observation of the fizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530-157th Street, SE, Charleston, WV 2530-157th Chevron Appalachia, LLC  700 Cherrington Parkway  15108  412-865-1533	horizontal well on the tract of land as for Easting:  Northing: Public Road Access: Generally used farm name:  his notice shall include the name, add the operator and the operator's authorize the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.d  Authorized Representative Address:  Telephone:	ollows: 523390.81  4410845.57  Roberts Ridge Road/WV-21  Longworth  ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Valesimile nurrelated to hor located at 601 Notice is he	West Virginia  Marshall  Clay  Glen Easton, WV 7.5'  Middle Grave Creek - Grave Creek  Shall Include: West Virginia Code § 22-6A-16(b), the observation of the rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	horizontal well on the tract of land as for the control of the con	ollows: 523390.81  4410845.57  Roberts Ridge Road/WV-21  Longworth  ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.

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WW-6A5 (1/12) Operator Well No. Lengworth M13H

## 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 proved: 1/22/18 Date Per	vided no later th rmit Application	on the filing on Filed:	date of permit	application.
Delivery me	thod pursuant to West Virginia C	Code § 22-6A-1	6(c)	1 1	
	FIED MAIL RN RECEIPT REQUESTED	☐ HAND			
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the peration. The notice required by a provided by subsection (b), section horizontal well; and (3) A proposed as surface affected by oil and gas of the surface affected by section shall be a required by this section shall be	the surface owner this subsection ten of this art ed surface use a perations to the given to the surface that the surface the surface that the	er whose land shall included in the shall included in the shall include and compension of the shall include in the shall include include in the shall include include include in the shall include in	d will be used for de: (1) A copy face owner whose sation agreement amages are com	ication, 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
	eby provided to the SURFACE C s listed in the records of the sheriff		otice):		
Name: Graham			Name:		
Address: 2527 Moundsville, WV			Addres	s:	
State: County: District:	the surface owner's land for the pu West Virginia Marshall Clay		g a horizonta JTM NAD 8 Public Road	Easting: Northing:	523390.81 4410845.57
Quadrangle:	Glen Easton 7.5'			ed farm name:	Roberts Ridge Road/WV 21 Longworth
Watershed:	Middle Grave Creek - Grave Creek		senerally us	ett farm name.	Langwani
Pursuant to V to be provide horizontal we surface affect information r	It; and (3) A proposed surface use ted by oil and gas operations to the elated to horizontal drilling may be located at 601 57 <sup>th</sup> Street, SE,	to a surface of and compensate e extent the date of obtained from	owner whose ion agreeme mages are co	e land will be unt containing arompensable und	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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

RECEIVED Office of Oil and Gas

Operator Well No. Longworth M13H

WW-6A5 (1/12)

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

Delivery me	thod pursuant to West Virginia Co	-J- 6 22 7 1 177 5		
	mod pursuant to west virginia Co	one § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
RETU	RN RECEIPT REQUESTED	DELIVERY		
the planned required to be drilling of a damages to the damages to the drilling of notice.	operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A proposed the surface affected by oil and gas open cs required by this section shall be g	e surface owner whose land this subsection shall includ ten of this article to a surfa d surface use and compensa erations to the extent the dar tiven to the surface owner at	will be used for the copy of t	ication, 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	eby provided to the SURFACE O' is listed in the records of the sheriff a	WNER(s)		
Name: Mary Ho	Ilmes	Name:		
Address: 197		Address:		
Moundsville, WV	26041	radiess,		
State: County: District: Quadrangle:	West Virginia Marshall Clay Glen Easton 7.5	pose of drilling a horizontal  UTM NAD 83  Public Road A  Generally used	well on the tra Easting: Northing: ccess:	well operator has developed a planned let of land as follows: 523390 B1 4410845.57 Roberts Ridge Road/WV 21 Longworth
1170	Middle Grave Creek - Grave Creek			
Watershed:	middle draws draws - Brave breek			
Watershed: This Notice 5 Pursuant to W to be provide horizontal we surface affect information r headquarters,	Shall Include:  Vest Virginia Code § 22-6A-16(c), the day W. Va. Code § 22-6A-10(b). The state of the day of the state of	nd compensation agreement extent the damages are con-	land will be u containing ar upensable und	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-drill-article-articl&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Watershed: This Notice 8 Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def&lt;/td&gt;&lt;td&gt;Shall Include:  Vest Virginia Code § 22-6A-16(c), the dot W. Va. Code § 22-6A-10(b). It and (3) A proposed surface use a sed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.&lt;/td&gt;&lt;td&gt;nd compensation agreement&lt;br&gt;extent the damages are con&lt;br&gt;obtained from the Secreta&lt;br&gt;Charleston, WV 25304 (3&lt;/td&gt;&lt;td&gt;land will be used to containing an appensable und y, at the WV 04-926-0450)&lt;/td&gt;&lt;td&gt;used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting &lt;a href=" oil-and-dep.wv.<="" oil-and-dep.wv.gov="" td="" www.dep.wv.gov=""></a>
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil and Gas

WW-6A5 (1/12) Operator Well No. Longworth M13H

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

			1	
Delivery met	thod pursuant to West Virginia C	ode § 22-6A-16(c)	,	
E CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a li- damages to the (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose a surface affected by oil and gas ones required by this section shall be	he surface owner whose land this subsection shall incluent ten of this article to a surfed surface use and compenderations to the extent the digiven to the surface owner	d will be used for ide: (1) A copy face owner whose sation agreement 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 containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	eby provided to the SURFACE C is listed in the records of the sheriff			
	ate of Barbara J. Derrow	Name:		
	Roberts Ridge Road	Addres		
Notice is her Pursuant to W operation on	eby given: Vest Virginia Code § 22-6A-16(c),	notice is hereby given that i	he undersigned	well operator has developed a planned
Notice is her Pursuant to W operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Marshall	urpose of drilling a horizont  UTM NAD	al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows:  523390.81  4410845.57
Notice is her Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(e), the surface owner's land for the pu West Virginia Marshall	urpose of drilling a horizont UTM NAD Public Road	al well on the tra Easting: Northing: Access:	net of land as follows: 523390.81
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Office of Oil and Gas

# 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**

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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

I, Muchaf wa Repuse, hereby state that I have read provisions listed above, and that I have received copies of a WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the State:  West Virginia  County:  Marshall  District:  Clay  Quadrangle:  Glen Easton, WV 7.5'  Watershed:  Middle Grave Creek - Grave Creek  I further state that I have no objection to the planned work decissued on those materials.	a Notice of Applica ough tract of land as fol UTM NAD 83 Public Road Acc Generally used f	ation, an App , including t lows: Easting: Northing: cess: Farm name:	lication for a Well Work Permit on Form he erosion and sediment control plan, if  523390.81  4410845.57  Roberts Ridge Road / WV 21  Longworth
*Please check the box that applies	FO	R EXECUTI	ON BY A NATURAL PERSON
SURFACE OWNER	Sign	nature: Mc	charl Way Person
☐ SURFACE OWNER (Road and/or Other Disturban	ce) Prin	it Name: <u>191</u> e: <u>1</u> -26	charl WM. Dorrow
☐ SURFACE OWNER (Impoundments/Pits)			
☐ COAL OWNER OR LESSEE			ON BY A CORPORATION, ETC.
□ COAL OPERATOR	By:		
□ WATER PURVEYOR			
	Sign Date	nature: e:	
OPERATOR OF ANY NATURAL GAS STORAC	JE FIELD   Dan		

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County: District: Quadrangle: Watershed:	Clay P	TM NAD 83 Northing: ublic Road Access: Generally used farm name:	Roberts Ridge Road / WV 21
Quadrangle:	Glen Easton, WV 7.5'	STATE AND STREET	
-		Generally used farm name:	Longworth
Watershed:	Middle Grave Creek - Grave Creek		
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	k the box that applies	100000000000000000000000000000000000000	ION BY A NATURAL PERSON
□ SURFA	CE OWNER	Signature: Mar	ilezn Reilley arilyn Reilley
☐ SURFA	CE OWNER (Road and/or Other Disturbance)	Print Name: 1/10 Date: 2-10-20	atilyn Reilley
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		FOR EXECUT	ION BY A CORPORATION, ETC.
	CE OWNER (Impoundments/Pits)  OWNER OR LESSEE	FOR EXECUTE Company:	ION BY A CORPORATION, ETC.
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Office of Oil and Gas

API NO. 47-\_\_\_\_OPERATOR WELL NO. M13H9/21/2018
Well Pad Name: Longworth

# STATE OF WEST VIRGINIA 4705 † 02080 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

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**VOLUNTARY STATEMENT OF NO OBJECTION** 

#### 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: West Virginia Easting: 523390.81 UTM NAD 83 County: Marshall Northing: 4410845.57 **Public Road Access:** District: Clay Roberts Ridge Road / WV 21 Quadrangle: Glen Easton, WV 7.5' Generally used farm name: Longworth Watershed: Middle Grave Creek - Grave Creek I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. \*Please check the box that applies FOR EXECUTION BY A NATURAL PERSON ☐ SURFACE OWNER Signature: Print Name: ☐ SURFACE OWNER (Road and/or Other Disturbance) Date: ☐ SURFACE OWNER (Impoundments/Pits) FOR EXECUTION BY A CORPORATION, ETC. D COAL OWNER OR LESSEE Company: Consol Energy ☐ COAL OPERATOR □ WATER PURVEYOR Signature: OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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ww-bA and	attachments consisting of pages one (1) the well plat, all for proposed well work on the well well work on the well work on the well well well as well	hrough	, including t	the erosion and sediment control plan, if
State:	West Virginia		Castina	500000 045
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District:	Clay	- Public Ros	ad Access:	Roberts Ridge Road
Quadrangle:	Glen Easton 7.5'	•	used farm name:	
Watershed:		. Concluiny	asca laitti ilaine.	Longworth
_	the box that applies		FOR EXECUTI	ON BY A NATURAL PERSON
□ SURFAC	CE OWNER			
□ SURFAC	E OWNER (Road and/or Other Disturba	ance)	Print Name:	
☐ SURFAC	E OWNER (Impoundments/Pits)			
□ COAL O	WNER OR LESSEE		Company: Consolida	ON BY A CORPORATION, ETC.
COAL O	PERATOR		By: Mason Smith Its: Coal. Oil and Gas	
□ WATER	PURVEYOR		Signature: M	wogysung
□ OPERAT	OR OF ANY NATURAL GAS STORA	GE FIELD	Date: 07/18/2018	

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Office of Oil and Gas



#### 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 57<sup>th</sup> Street, SE Charleston, WV 25304

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

Longworth M13H

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,

Gary K. Clayton, P.E.

Dary K. Clayton

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Cc: Mandy Fordyce

Chevron Appalachia, LLC

CH, OM, D-6

File

#### **Hydraulic Fracturing Fluid Additives**

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



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800 MOUNTAI SMITHFIELD

CONSULTANTS

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PHOSE: 774-327-5700

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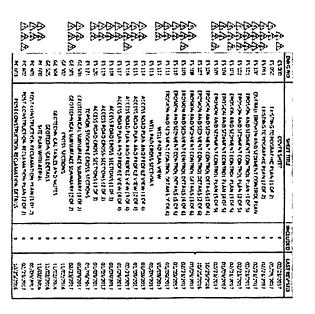
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COUNTY, WEST OSEPH ROAD (C.R. VIRGINIA

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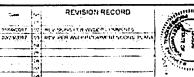




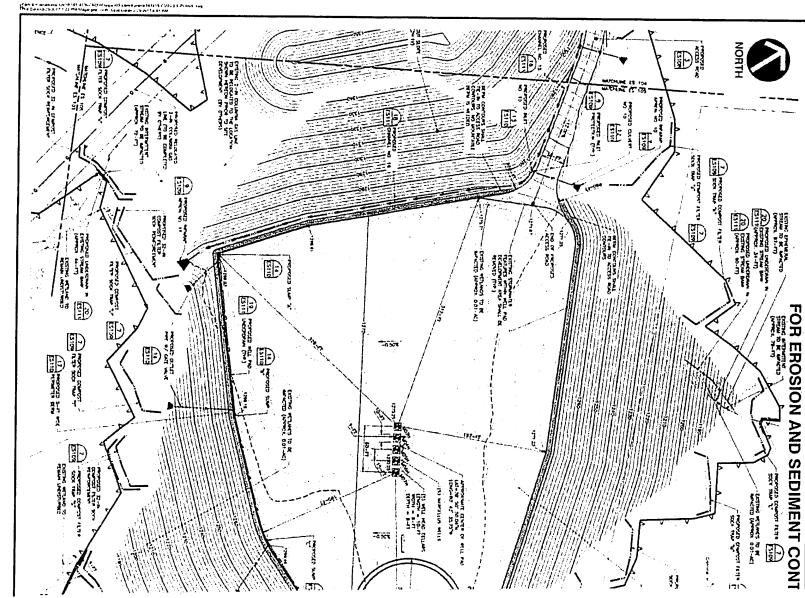
LONGWORTH WELL SITE CLAY DISTRICT MARSHALL COUNTY, WEST VIRGINIA

SYM NO

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







RECEIVED
Office of Oil and Gas

