

west virginia department of environmental protection

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

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

Friday, January 25, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for M12H 47-051-02132-00-00

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: M12H

Farm Name: GRAHAM H. LONGWORTH

U.S. WELL NUMBER: 47-051-02132-00-00

Horizontal 6A New Drill Date Issued: 1/25/2019

Promoting a healthy environment.

API Number: 4705102132

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 4705102132

PERMIT CONDITIONS

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

API NO. 4747 0-5 3 02 1 32

OPERATOR WELL NO. M12H
Well Pad Name: Longworth

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

l) Well Opera	tor: Chevro	on Appalach	nia, LLC	49449935	Marshall	Clay	Glen Easton, WV
				Operator ID	County	District	Quadrangle
2) Operator's	Well Numbe	r: M12H		Well I	ad Name: Lon	gworth	
3) Farm Name	/Surface Ow	ner: Graham	H. Longwo	orth, Jr. Public R	oad Access: Ro	oberts Ridg	e Road/WV 21
4) Elevation, c	_		El	levation, propose	d post-construc	tion: <u>1270'</u>	
5) Well Type	(a) Gas Other	X	_ Oil	Un	derground Stor	age	
	(b)If Gas	Shallow	Х	Deep			
6) Existing Pac	i: Yes or No	Horizontal Yes	X			Qn) 10/10/18
7) Proposed Ta		on(s), Depth	(s), Antic	ipated Thickness	and Expected I		, ,
8) Proposed To			1				
9) Formation at	t Total Vertic	cal Depth: 1	<i>M</i> arcellus			-	
10) Proposed T	otal Measure	ed Depth: 1	7,724				
11) Proposed H	lorizontal Le	g Length: 9	,769		-		
12) Approxima	te Fresh Wat	er Strata Dep	oths:	568' below GL			
13) Method to I 14) Approximat				ased on deeper oft, 2134 ft belov		ithin 1 mi ra	ıdius
				#8 coal seam to		GI	
				ne, karst, other):			
17) Does Propodirectly overlying	sed well loca ng or adjacen	tion contain t to an active	coal seam mine?	rs Yes	No	X	
(a) If Yes, pro	vide Mine In	fo: Name:	_				
		Depth:					
		Seam:					
		Owner:					
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API NO. 4747 05 102 132

OPERATOR WELL NO. M12H
Well Pad Name: Longworth

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well	CEMENT: Fill-up
Conductor	20	New			60	<u>(ft)</u> 60	CTS
Fresh Water	13.375	New	J-55	54.5	618	618	CTS
Coal						010	CIS
Intermediate	9.625	New	L-80/N-80	40	2,184	2,184	CTS
Production	5.5	New	P110	20	17,724	17,724	2,684 (500' below 9.625" shoe)
Tubing				7,1	,	17,727	2,007 (300 DBIOW 9.825 SAGE)
Liners							

JN 10/10/18

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield
Conductor	20	26"			1 ressure (psi)		(cu. ft./k)
Fresh Water	13.375	17.5	0.38	2730	1911	Class A	
Coal				2700	1311	Class A	
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					0070		
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

Description of the Herein of Oil and Gas

OCT 26 2018

WW-6B (10/14) 47.05 02132 API NO. 47-

OPERATOR WELL NO. M12H

Well Pad Name: Longworth

9,0/9/18

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 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: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

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

For the Water String the blend will contain class A cement, 3% 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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WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

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, KCI, dispersant, suspension agent, and retarder.

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

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	***************************************			LC	ng	worth I	M12H		
Twp, Marshall Co, W	v					·····		Ground Lavel Elev. [ft above \$1]:	1270
DRILLING FLUXD /	CENTRALIZER	CASING SIZE /	-	DEPTH	1	WELLHEAD DESIGN			
BIT TYPE / IFA Core Barrel / Auger	PROGRAM	FORMATION	MD (FT)	TVD		WELLACOU DESIGN	HOLE SPZE (UH)	CASING SPECS	CEMENT PROGRAM
	2 Bowspring per 31	20" Conductor	42	42		INC AZM	20	<u>Conductor</u> 26* 78.67# X-52	Grout to Surface
	Bow Spring:					1 11	1 2	Minimum 40 ft fram 61 or at	least 16 ft into bedrock
	(1) on shoo teach of stop col & (1) per it over coupling to surface	far ,						Surface Carlon 13-9/6" 54.5% p-55 titt 0 38" Well Coupling 00 (in) 14 377 10 (in) 12.515 Drift 10 (in) 12.455 Burs (pai) 2730 Collapse (pai) 1,130 Yield (ft Strength 1,000 lbs) 053	
· · · · · · · · · · · · · · · · · · ·		13-3/8" Casing	618	618			17.5	Minimum SO It past deepas	t known fresh water
	Bow Spring:			-				Intermediate Casing	Intermediato II Blond (Class A
	[1] on shoe track w/ stop calls & {1] per 3 /ts over coupling				*			9-5/8" 40ar I-SS BTC 0.395" Wall Coupling OD (in) 10 625 ID (in) 8 835 Didt ID (in) 8 679 Burst (psi) 3,950 Collapse (psi) 2,570 Yield (Jt Strongth 1,000 lbs) 63d	Cement to Surface
·····	Yriksi Bow Spring:	9-3/2° Casing	2,184	2,194			12.375 - 12.25		
·	ii) per every other glover coupling Since enditerent Solid Composite (ii) per glaf og to KOP			THE CONTRACTOR OF THE CONTRACT				Production Centus 5-1/2" 20# P-110 EC, 0.36.1" Wall Coupling OD (in) 6 300 ID (in) 4 778 Drift ID (in) 4 653 Burst (psi) 14360 Collapse (psi) 12090 Yield (Jit Strangth 1,000 lbs) 729	<u>Production Leed Sterry</u> Cement to Surface
		Middlesex		6,293	***************************************		-		
		Burken Shale		6 369					
		Tully Limestone		6,389		-			
		Hamilton shale		6,423		***************************************			
And the second s		Upper Marcellus		6,491		The same of the same	Addisoration and Agency and Addisorate and Addisora		<u>Production Tail Slurry</u> TOC minimum 200° above Martelly
	er de la companya de	Lower Marcellus		6.522					
	Slage	Basal Marcellus	***************************************	6,547		*****			
-Conservation	Floot Equip. (2) Its of Csg Floot Equip.	5-1/2" Cosing	17,724	6,511		Į.			JN 10/11/18

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Commission number 1285773

Member, Pennsylvania Assessation of Notaries

WW-9 (4/16)

API Number 47 -	-9
Operator's W	ell No. M12H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name_Chevron Appalachia, LLC OP Code 49449935
Watershed (HUC 10) Middle Grave Creek - Grave Creek Quadrangle Glen Easton, WV 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes ☐ No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number)
Reuse (at API Number_at next anticipated well
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? If so, describe: Yes, we will be utilizing multiple open top tanks
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air to KOP, Oil Based KOP to TMD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological control
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Arden Landfill #100172, South Hills Landfill #100592, Short Creek Landfill #WW109517
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature RECEIVED Office of Oil and Gas
Company Official (Typed Name) Jenny Butchko
Company Official Title Termiting Team Lead
Subscribed and sworn before me this 17th day of October, 2018 Commonwealth of fennsylva Lawrence My Department of Environmental Protection Commonwealth of fennsylva Country of All egheny Notary Public
My commission expires Suptember 17, 2022 Commonwealth of Pennsylvania - Notary Sea Laura Savage, Notary Public Allegheny County My commission expires Sentember 17, 2022

Form WW-9	Operator's Well No. M12H
Chevron Appalachia, LLC	
Proposed Revegetation Treatment: Acres Disturbed 14.2	Prevegetation pH Per soil testing report
Lime Per soil testing report Tons/acre or to correct to p	Per soil testing report
Fertilizer type See table C attached	
Fertilizer amount 1,000	_lbs/acre
Mulch 2 Ton	is/acre
Se	eed Mixtures
Temporary	Permanent
Seed Type lbs/acre	Seed Type lbs/acre
See table A attached	See table B attached
Maps(s) of road, location, pit and proposed area for land app	lication (unless engineered plans including this info have been
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include creage, of the land application area.	lication (unless engineered plans including this info have been dimensions (L x W x D) of the pit, and dimensions (L x W), and
Attach: Maps(s) of road, location, pit and proposed area for land apporovided). If water from the pit will be land applied, include acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:	lication (unless engineered plans including this info have been dimensions (L x W x D) of the pit, and dimensions (L x W), and
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	lication (unless engineered plans including this info have been dimensions (L x W x D) of the pit, and dimensions (L x W), and
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Title: Oil and Gas Inspector

Date: 10/9/18

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Field Reviewed?

1) Ye

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TABLE A - TEMPORARY SEEDING IV	NXIUSES (EROM WAY DOT ?	ON STANDARD SPECIFIC	RECEIVED Gas
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		10
MILLET (HUNGARIAN, GERMAN OR JAPANESE)		5C	
CEREAL RYE OR CEREAL WHEAT			F0
TOTAL	60	50	50

TABLE B - SEED MIXTURES (FROM WV DOT DOH STANDARD SPECIFICATIONS)										
VARIETY OF SEED	TYPE D* (CUT AND FILL SLOPES) LBS/ ACRE	TYPE L (ALL OTHER AREAS) LBS/ ACRE								
KENTUCKY 31 FESCUE	20									
RED FESCUE (PENNLAWN)	20	41								
CROWNVEICH	20									
HARD FESCUE MIXTURE **		53								
ANNUAL RYEGRASS AUG 1 TO MAY 15 OR WEEPING LOVEGRASS MAY 15 TO AUGUST 1		12								

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

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

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



Chevron

Appalachian LLC WV Well Site Safety Plan

Pad: Longworth Pad A Well # M12H 2 10 10 (18

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

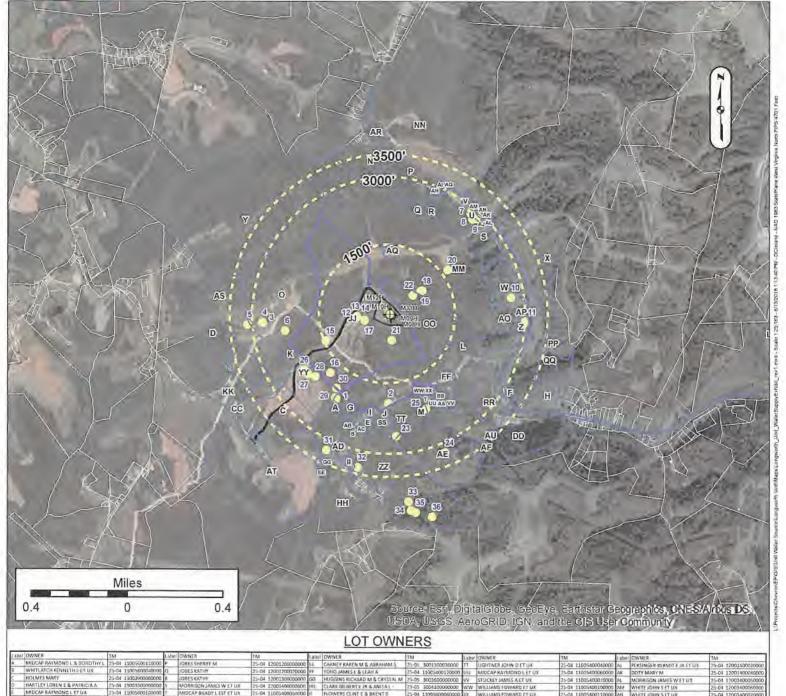
Access Point – [39.839575°N, 80.737044°W] Well Site – [39.847350°N, 80.726939°W] Marshall County, West Virginia

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1006	OWNER	164	Läbel	OWNER	TM	Label	OWNER	TM	Laho	OWNER	TM		Label	OWNER	TM
A	MIDEAP RAYMOND L'S DOROTHY L	25-04 11005600110000	#	IOBES SHERRY M	25-04 12001200000000	E.E.	CARNEY KAREN M & ABRAHAM S	25-06 3001300030000	TT	LIGHTNER JOHN DET UX	25-04	11005400040000		PERSINGER MERMOTE IN ET LIX	25-04 12001400020000
B	WHITLATCH KENNETH E-ET DX	25-04 11005600040000	O.	JOBES KATHY	25-04 12001200020000	FF	YOHO JAMES E & LEAH A	25-04 11005400120000	UU	MIDCAP RAYMOND LET UX	25-04	11005400060000	AK	DDTY MARY M	25-04 12001400040000
C	HOLMES MARY	25-04 13003900000000	B	JOBES KATHY	25-04 12001300000000	GG	HUGGINS RICHARD M & CRYSTAL M	25-05 3003600000000	W	STUCKEY JAMES A ET UX	25:04	11005400070000	AL.	MORRISON JAMES W F7 UX	25-04 17001400050000
0	HARTLEY LOREN E & PATRICIA A	25-04 13003500000000	5	MORRISON JAMES WIET UX	25/04 12001400000000	HH	CLARK GILBERT E JR & ANITAL	75-05 3004100000000	ww	WILLIAMS EDWARD ET UX	25-04	11005400100000	AM	WHITE JOHN 5 ET UX	25-04 12001400060000
Ė	MIDEAP RAYMOND LET UX	25-04 11005600100000	T	MIDCAP BRADY LEST ET UX	25-04 11005400050000	H	FLOWERS CLINT E & BRENT B	25-04 11005500060000	XX	WILLIAMS EDWARD ET UX	25-04	11005400110000	-	WHITE JOHN SET UK	25-04 12001400070000
F	ROUSH DEAN ET UX	25-04 11000300010000	U.	STEVEY HERBERT R ET UX	25-04 12001406010000	Ш	LONGWORTH GRAHAM HUR	25-04 110001000000000	YY	HOLMES MARY	25-04	11005500000000	AD:	SHAFFER ROBERT LISH ET UX	25-04 12001500000000
G	MIDCAP RAYMOND L & DORDTHY L	25-04 11005600050000	V	WHITE JOHN STANLEY ET UX	25-04 12001400030000	kx	KEREKES RONALD A ET UX	25-04 13003800000000	72	FLOWERS CLINT E & BRENT 6	25-04	1100560000000		STONEKING PHYLLIS	25-04 12001500016000
H	CONNER GLEN W LT UX	25-04 11005100000000	w	SHAFFER KOBERT L SR ET UX	25-04 12001500030000	LL	CONSOLIDATION COAL COMPANY	25-04 110055000000000	AH.	MIDEAPRAYMOND L& DOROTHY	25-04	11005600070000	AD		25-04 12001600010000
	LIGHTNER JOHN D ET UX	25-04 11005400030000	X	ROUSH HARRY F ET UX	25-04 110003000000000	MM	LONGWORTH DANIEL C	25-04 12001600000000	AC	MIDCAP RAYMOND L & DOROTHY L	25-04	11005600120000	All	CONSOLIDATION COAL COMPANY	25-04 12002500000000
j	MIDEAP RAYMOND LLOYD JR	IS-04 11005400080000	Y.	JARRETT CODY M	29-04 120019000000000	NN	MOUNDSVILLE CITY OF	25-84 10000100000000	AD	FLOWERS CLINT E & BRENT L	25-04	11005600130000	A5	CUNNINGHAM DALE & MARY	25-04 13003400000000
K.	HOLMES JEFFREY SCOTT ET AL	25-04 13003900010000	Z	WINLAND KELLY BRUCE	25-04 12001500020000	CO	LONGWORTH GRAHAM H IR	25-04 11000200000000	ΔF	LIGHTNER JOHN O FT UX	25-04	11005700000000		DERROW BARBARA J EST	25-05 3001300000000
L.	FOX DELORES	25-04 11005400000000	AA	STUCKEY JAMES A ET LIX	25-04 11005400030000	pp	ROUSH HARRY F	25-04 11000400000000	AF.	TECH PARK NON-PROFIT	25-04	11005/00010000	AU	TECH PARK NON-PROFIT	25-09 1000100000000
M	MIDCAP BRADY EST ET LIX	25-04 11005300000000	86	THATHER JAMES C & MELISSA'S	25-04 1100:400090000	CCI .	ROUSH HARRY FET UX	25-04 11000500000000	AG	JOBES SHERRY M		12001200000000			
74	HAUGHT THOMAS L & CLARA I -	25-04 12001000020000	CC	CECIL KELLY J ET UX	25-04 13003800010000	RR	TECH PARK NON-PROFIT	25-04 11005200000000	AH	JOBES KATHY		12001200010000			
0	CUNNINGHAM DALE & MARY	25-04 13003300000000	00	TECH PARK NON-PROFIT	25-09 1000203000000	55	MIDCAP RAYMOND L	25-04 11005400010000	Al	JOBES KATHY		12001300000000			

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 & ENVIRONMENTALCEIVED Gas SERVICES, INC. Office of Oil and Gas

Surveyor: SERVICES, INC.

Address: 301 COMMERCE PARK DR NCT

CRANBERRY TOWNSHIP, PA

PA 16066 WV Department of Environmental Protection Phone: 800-267-2549

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





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

No.	SUPPLY COORDINATES	8H	9H	10H	11H	12H	
1	39° 50' 31.99920"N 80° 43' 50.45880"W	2,148	2,178	2,178	2,178	2,178	
2	39° 50' 31.13880"N 80° 43' 35.65200"W	1,878	1,903	1,911	1,919	1,928	
3	39° 50′ 47.99400"N 80° 44′ 11.34600"W	2,820	2,839	2,827	2,815	2,803	
4	39° 50' 48.12000"N 80° 44' 11.46480"W	2,829	2,847	2,835	2,823	2,811	
5	39° 50' 47.55840"N 80° 44' 15.60840"W	3,155	3,173	3,161	3,150	3,138	
6	39° 50' 46.43880"N 80° 44' 05.11440"W	2,352	2,372	2,361	2,350	2,339	
7	39° 51' 12.27240"N 80° 43' 13.22040"W	2,859	2,829	2,829	2,831	2,832	
8	39° 51' 10.91160"N 80° 43' 12.61560"W	2,779	2,750	2,751	2,753	2,755	
9	39° 51' 10.99080"N 80° 43' 11.43120"W	2,845	2,815	2,817	2,819	2,821	
10	39° 50′ 54.25800″N 80° 43′ 01.44840″W	2,677	2,656	2,667	2,678	2,689	
11	39° 50′ 49.15320″N 80° 42′ 57.36240″W	2,956	2,940	2,952	2,965	2,978	1
12	39° 50' 49.62840"N 80° 43' 44.71680"W	738	755	743	731	719	
13	39° 50' 49.76160"N 80° 43' 44.91480"W	754	770	758	746	734	Vie
14	39° 50' 49.67160"N 80° 43' 44.91480"W	754	771	759	746	734	
15	39° 50' 44.37960"N 80° 43' 53.60520"W	1,529	1,554	1,545	1,536	1,528	

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No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
16	LONGWORTH GRAHAM H JR	Spring	1,190	2527 Fork Ridge Road	304-281-4840
17	LONGWORTH GRAHAM H JR	Spring	1,288	2527 Fork Ridge Road	304-281-4840
18	LONGWORTH DANIEL C	Spring	1,148	812 Spindle Lane	304-845-0413
19	LONGWORTH DANIEL C	Spring	1,168	812 Spindle Lane	304-845-0413
20	LONGWORTH DANIEL C	Dug Well	1,201	812 Spindle Lane	304-845-0413
21	LONGWORTH GRAHAM H JR	Spring	1,217	2527 Fork Ridge Road	304-281-4840
22	LONGWORTH GRAHAM H JR	Pond	1,151	2527 Fork Ridge Road	304-281-4840
23	LIGHTNER JOHN D ET UX	Stream	984	264 Wilson Hill Lane	304-280-9370
24	LIGHTNER JOHN D ET UX	Dug Well	1,082	264 Wilson Hill Lane	304-280-9370
25	MIDCAP RAYMOND L ET UX	Stream	1,132	5655 Roberts Ridge	304-845-6114
26	HOLMES MARY	Pond	1,241	197 Spindle Lane	304-845-0703
27	HOLMES MARY	Pond	1,241	197 Spindle Lane	304-845-0703
28	HOLMES MARY	Pond	1,189	197 Spindle Lane	304-845-0703
29	HOLMES MARY	Stream	1,055	197 Spindle Lane	304-845-0703
30	HOLMES MARY	Stream	1,137	197 Spindle Lane	304-845-0703

No.	SUPPLY COORDINATES	8H	9H	10H	11H	12H	
16	39° 50′ 37.55040″N 80° 43′ 52.09320″W	1,799	1,828	1,825	1,821	1,818	
17	39° 50' 48.94440"N 80° 43' 42.63240"W	581	601	590	579	569	
18	39° 50′ 55.43520″N 80° 43′ 26.41440″W	901	873	877	882	887	
19	39° 50' 55.37400"N 80° 43' 26.90760"W	868	839	843	848	852	
20	39° 51' 00.00360"N 80° 43' 19.33680"W	1,621	1,593	1,597	1,601	1,606	
21	39° 50' 44.70720"N 80° 43' 34.83480"W	506	530	539	548	557	
22	39° 50' 54.42000"N 80° 43' 29.10720"W	677	648	651	655	658	
23	39° 50' 24.18360"N 80° 43' 33.22560"W	2,586	2,610	2,619	2,628	2,637	
24	39° 50' 20.94000"N 80° 43' 19.41960"W	3,161	3,177	3,190	3,202	3,215	
25	39° 50' 30.21000"N 80° 43' 24.89880"W	2,130	2,147	2,160	2,172	2,185	
26	39° 50' 38.04720"N 80° 43' 59.52000"W	2,230	2,257	2,251	2,245	2,239	
27	39° 50' 37.13640"N 80° 43' 58.28520"W	2,200	2,228	2,223	2,218	2,213	
28	39° 50′ 36.69360″N 80° 43′ 56.34840″W	2,107	2,135	2,131	2,126	2,122	
29	39° 50' 32,17560"N 80° 43' 50.67840"W	2,142	2,172	2,172	2,172	2,172	
30	39° 50' 34.24200"N 80° 43' 50.41200"W	1,960	1,990	1,989	1,989	1,988	

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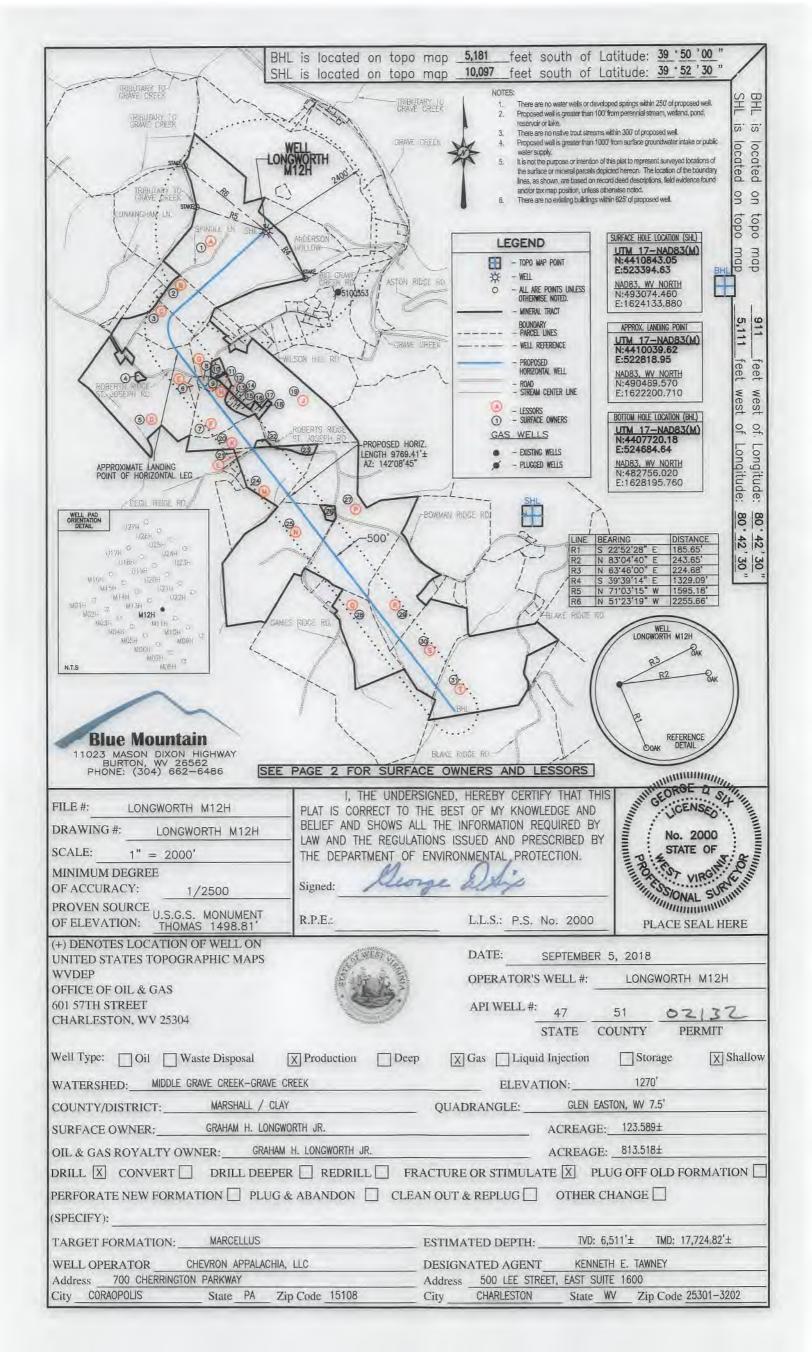


No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
31	FLOWERS CLINT E & BRENT B	Spring	1,272	6404 Roberts Ridge Road	304-639-4499
32	FLOWERS CLINT E & BRENT B	Spring	1,273	6404 Roberts Ridge Road	304-639-4499
33	FLOWERS CLINT E & BRENT B	Spring	1,284	6404 Roberts Ridge Road	304-639-4499
34	FLOWERS CLINT 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	8H	9H	10H	11H	12H	
31	39° 50' 20.94360"N 80° 43' 53.01120"W	3,222	3,252	3,254	3,256	3,258	
32	39° 50' 17.44080"N 80° 43' 44.02560"W	3,335	3,362	3,368	3,374	3,379	
33	39° 50' 10.26600"N 80° 43' 29.49960"W	4,015	4,038	4,047	4,057	4,067	
34	39° 50' 08.39400"N 80° 43' 28.77240"W	4,209	4,232	4,242	4,252	4,262	
35	39° 50' 07.99800"N 80° 43' 27.40080"W	4,263	4,286	4,296	4,306	4,316	
36	39° 50' 07.10880"N 80° 43' 22.72800"W	4,418	4,439	4,450	4,461	4,472	

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	LESSOR	DIST-TM/PAR
Α	GRAHAM H. LONGWORTH JR., ET AL.	4-11/1
В	HOLMES CWC LEGACY LLC	4-11/55
C	MARY W. HOLMES ET AL	4-13/39
D	MICHAEL W. DERROW ET AL	5-3/13
E	*KAREN M. CARNEY	5-3/13.3
	*ABRAHAM S. NEMURAS	
F	GEORGE R. LIGHTNER, SR.	5-3/41
G	RICHARD M. & CRYSTAL M. HUGGINS	5-3/36
Н	GEORGE R. LIGHTNER SR.	5-3/41.1
J	CLINT E. FLOWERS AND BRENT L. FLOWERS	4-11/56
K	LLOYD BAKER	5-3/17
L	LLOYD BAKER	5-3/18
М	PIKEWOOD ENERGY CORP.	9-1/19
N	CNX GAS COMPANY LLC	9-1/20.1
Р	SHANNON R. & LYLA L. HUBBS	9-1/21
Q	*JOHN D. ROBERTS	9-4/8
R	DEAN B. COLVIN	9-1/22.2
	MARGARET KINNEY	
	PATRICIA COLVIN GRANDSTAFF	
	MARILYN PYLES SNYDER	
	JAMES E. PYLES	
	SUSAN ASTON	
	CAROL HULL	
	DAVID GEORGE MOORE	
	BETTY LOU DELLGET KERNS	
	MARILYN SOUTH	
	HOWARD GUMP ET UX	
	JUDY REILLEY FEIERSTEIN	
	RICHARD O'HARA	
	CATHY J. COLVIN	
	ALICE FAYE VAN DINE	1
	LORA FORNSHELL	
	KEITH PYLES	
	WANDA L. PYLES	
	SHERLEY M. WHITE FKA SHERLEY M. VAN DINE	
	VERENDA STOKES	
	DOMINAE VESICO-RAMIREZ	
	KRISTA L. VAN DINE	

	LESSOR	DIST-TM/PAR
R	ROBERT P. COLVIN	9-1/22.2
	RONALD PYLES	
	DONALD COOK POA CAROL HULL	
	KEVIN O'HARA	
	CATHY LUDWIG GARRETT	
	ROBERT R. D'ERAMO JR., ET AL	
	DEBRA FORDYCE	
	KEITH JOEL VAN DINE	
	GLADYS PETRELLE BY AIF SHIRLEY BUFFONE	
	RODNEY COLVIN	
	PAULA REILLEY	
	VICKIE EISENHAUER	
	KIM YOHO	
	JASON COLVIN	
	BRENDA WILLINGHAM	
	DONALD COLVIN	
	MICHAEL COLVIN	
	STACY PANYKO	
	HAROLD E. VAN DINE	
	JOHN E. VAN DINE	
3	THOMAS B. CLARK ET UX	9-4/9.1
Γ	THOMAS B. CLARK ET UX	9-5/2

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	HOLMES-CWC-LEGACY LLC	4-11/55
3	MARY HOLMES - LIFE	4-13/39
4	TRACY MERCER	5-3/13.2
5	DOUGLAS G., MICHAEL W. & STEVEN S. DERROW	5-3/13
6	*KAREN M. CARNEY & ABRAHAM S. NEMURAS	5-3/13.3
7	GEORGE R. LIGHTNER SR.	5-3/41
8	JORDAN M. & ASHLEY J. WALLACE	5-3/36
9	ASHLEY J. & JORDAN M. WALLACE	5-3/41.1
10	CLINT E. & BRENT L. FLOWERS	4-11/56.13
11	CLINT E. & BRENT L. FLOWERS	4-11/56.6
12	MARK DAVID MILLER	5-3/41.2
13	MARK DAVID MILLER	5-3/37
14	MARK DAVID MILLER	5-3/38
15	JOHN D. JR. & CATHY L. LIGHTNER	5-3/39
16	CAMDEN M. CHAMBERS II	5-3/40
17	DAVID A. & BONNIE LYNN FOX	4-11/56.8
18	THOMAS O. RICHMOND ET UX	4-11/56.1
19	CLINT E. & BRENT B. FLOWERS	4-11/56
20	LLOYD BAKER	5-3/17
21	LLOYD BAKER	5-3/18
22	LLOYD BAKER	5-3/19
23	KENNETH A. MAYHUGH II & SHELBY E. HARRIS	4-11/58
24	CHAS R. & EDITH V. KERNAN	9-1/19
25	CNX LAND RESOURCES INC	9-1/20.1
26	CNX LAND RESOURCES INC	9-1/20
27	CNX LAND RESOURCES INC	9-1/21
28	*JOHN D. & MARSHA ROBERTS	9-4/8
29	GEORGE CHRIS LAGOS ET UX	9-1/22.2
30	THOMAS B. & ANNETTE K. CLARK	9-4/9.1
31	THOMAS B. & ANNETTE K. CLARK	9-5/2

SURFACE HOLE LOCATION (SHL)

UTM 17—NAD83(M)
N:4410843.05
E:523394.63

NAD83, WV NORTH
N:493074.460
E:1624133.880

APPROX. LANDING POINT

UTM 17—NAD83(M)
N:4410039.62
E:522818.95

NAD83, WV NORTH
N:490469.570
E:1622200.710

BOTTOM HOLE LOCATION (BHL)

UTM 17—NAD83(M)
N:4407720.18
E:524684.64

NAD83, WV NORTH
N:482756.020
E:1628195.760

WW-6A	1
(5/13)	

Operator's V	Vell No.	M12H
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Lease Name or
Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

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 Butchko

Its:

Permitting Team Lead

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02132 4705

Longworth Unit #12H Lessor Lessee Royalty Book/Page Assignment #1 Assignment #2 Assignment #3 Lessee Royalty Book/Page Lessor								
Plat ID	Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment#3
1	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	n/a ₩ O
2	4-11-55.0	HOLMES CWC LEGACY LLC	Chevron U.S.A. Inc.	0.14	BK 790 - PG 120	n/a	n/a	n/a
3	4-13-39.0	HOLMES MARY W ET AL	Chevron U.S.A. Inc.	0.14	BK 791 - PG 234	n/a BK 30 - PG 461	n/a	n/a
5	5-3-13	DERROW MICHAEL WILLIAM ET AL	Chesapeake Appalachia, LLC	0.125	BK 681 - PG 335	Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	n/a	n/a
6	5-3-13.3	NEMURAS ABRAHAM S - SFX	Chevron U.S.A. Inc.	0.15	BK 880 - PG 385	n/a	n/a	n/a
		CARNEY KAREN M	TriEnergy Holdings, LLC	0.16	BK 735 - PG 449	BK 24 - PG 180 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
7	5-3-41	LIGHTNER GEORGE R SR	Chevron U.S.A. Inc.	0.18	BK 834 - PG 389	n/a	n/a	n/a
8	5-3-36	HUGGINS RICHARD M ET UX	TriEnergy Holdings, LLC	0.16	BK 709 - PG 057	BK 24 - PG 180 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
9	5-3-41.1	LIGHTNER GEORGE R SR	Chevron U.S.A. Inc.	0.18	BK 834 - PG 389	n/a BK 30 - PG 392	n/a	n/a
19	4-11-56	FLOWERS CLINT E ET AL	Chesapeake Appalachia, LLC	0.15	BK 700 - PG 408	Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	n/a	n/a
20	5-3-17	BAKER LLYOD	Chevron U.S.A. Inc.	0.17	BK 947 - PG 505	n/a	n/a	n/a
22	5-3-18	BAKER LLYOD	Chevron U.S.A. Inc.	0.17	BK 947 - PG 505	n/a	n/a	n/a
24	9-1-19	PIKEWOOD ENERGY CORP	Chevron U.S.A. Inc.	0.14	BK 932 - PG 371	n/a	n/a	n/a
25	9-1-20.1	CNX GAS COMPANY, LLC	Chevron U.S.A. Inc.	0.18	BK 1014 - PG 30	n/a	n/a	n/a
27	9-1-21	HUBBS SHANNON ROGER ET UX	Chevron U.S.A. Inc.	0.16	BK 798 - PG 535	n/a	n/a	n/a
28	9-4-8	ROBERTS JOHN D ET UX	Chevron U.S.A. Inc.	0.18	BK 864 - PG 010	n/a	n/a BK 026 - PG 269	n/a
29	9-1-22.2	COLVIN DEAN B	TriEnergy Holdings, LLC	0.18	BK 726 - PG 593	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc. BK 026 - PG 269	n/a
		KINNEY MARGARET	TriEnergy Holdings, LLC	0.18	BK 726 - PG 598	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
		GRANDSTAFF PATRICIA COLVIN	TriEnergy Holdings, LLC	0.18	BK 726 - PG 612	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		SNYDER MARILYN PYLES	TriEnergy Holdings, LLC	0.18	BK 726 - PG 607	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a

		Lo	ngworth	ı Unit #12H			Wassignment of the Solution of
Plat ID Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignmen# 📙
	PYLES JAMES E	TriEnergy Holdings, LLC	0.18	BK 726 - PG 601	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	ASTON SUSAN	TriEnergy Holdings, LLC	0.18	BK 727 - PG 215	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	HULL CAROL	TriEnergy Holdings, LLC	0.18	BK 727 - PG 220	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	MOORE DAVID GEORGE	TriEnergy Holdings, LLC	0.18	BK 727 - PG 223	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	KERNS BETTY LOU DELLGET	TriEnergy Holdings, LLC	0.18	BK 728 - PG 393	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	SOUTH MARILYN	TriEnergy Holdings, LLC	0.18	BK 728 - PG 398	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	GUMP HOWARD ET UX	TriEnergy Holdings, LLC	0.18	BK 729 - PG 338	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	FEIERSTEIN JUDY REILLEY	TriEnergy Holdings, LLC	0.18	BK 728 - PG 414	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 307 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	O'HARA RICHARD	TriEnergy Holdings, LLC	0.18	BK 730 - PG 615	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	COLVIN CATHY J	TriEnergy Holdings, LLC	0.18	BK 730 - PG 613	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	VAN DINE ALICE FAYE	TriEnergy Holdings, LLC	0.18	BK 734 - PG 179	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	FORNSHELL LORA	TriEnergy Holdings, LLC	0.18	BK 735 - PG 208	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

		Lo	ongwortl	n Unit #12H			Pifice of Oil and Ges
Plat ID Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	PYLES KEITH	TriEnergy Holdings, LLC	0.18	BK 735 - PG 211	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	PYLES WANDA L	TriEnergy Holdings, LLC	0.18	BK 735 - PG 205	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	WHITE SHERLEY M FKA VAN DINE SHERLEY M	TriEnergy Holdings, LLC	0.18	BK 735 - PG 411	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	STOKES VERENDA	TriEnergy Holdings, LLC	0.18	BK 735 - PG 414	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc. BK 756 - PG 332	n/a
	VESICO-RAMIREZ DOMINAE	TriEnergy Holdings, LLC	0.18	BK 735 - PG 421	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
	VAN DINE KRISTA L	TriEnergy Holdings, LLC	0.18	BK 738 - PG 532	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 26 - PG 201 NPAR, LLC to Chevron U.S.A. Inc. BK 026 - PG 269	n/a
	COLVIN ROBERT P	TriEnergy Holdings, LLC	0.18	BK 726 - PG 595	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc. BK 026 - PG 269	n/a
	PYLES RONALD	TriEnergy Holdings, LLC	0.18	BK 726 - PG 604	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
	COOK DONALD POA CAROL HULL	TriEnergy Holdings, LLC	0.18	BK 727 - PG 217	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 026 - PG 269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	O'HARA KEVIN	TriEnergy Holdings, LLC	0.18	BK 730 - PG 618	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	GARRETT CATHY LUDWIG	TriEnergy Holdings, LLC	0.18	BK 730 - PG 637	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
	D'ERAMO ROBERT R JR ET AL	TriEnergy Holdings, LLC	0.18	BK 734 - PG 166	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

Dist ID	DI-+ ID			 _	1 01111 #1211	A	A 1 40	A: 4 4 2
Plat ID	Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		FORDYCE DEBRA	TriEnergy Holdings, LLC	0.18	BK 734 - PG 317	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 756 - PG 332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		VAN DINE KEITH JOEL	TriEnergy Holdings, LLC	0.18	BK 738 - PG 529	BK 25 - 463 TriEnergy Holdings, LLC to NPAR, LLC	BK 26 - PG 201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		PETRELLE GLADYS BY AIF BUFFONE SHIRLEY	TriEnergy Holdings, LLC	0.16	BK 767 - PG 610	BK 28 - PG 348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
		COLVIN RODNEY	Chevron U.S.A. Inc.	0.15	BK 885 - PG 632	n/a	n/a	n/a
		REILLEY PAULA	Chevron U.S.A. Inc.	0.16	BK 885 - PG 629	n/a	n/a	n/a
		EISENHAUER VICKIE	Chevron U.S.A. Inc.	0.15	BK 885 - PG 470	n/a	n/a	n/a
		УОНО КІМ	Chevron U.S.A. Inc.	0.15	BK 885 - PG 467	n/a	n/a	n/a
		COLVIN JASON	Chevron U.S.A. Inc.	0.15	BK 885 - PG 515	n/a	n/a	n/a
		WILLINGHAM BRENDA	Chevron U.S.A. Inc.	0.15	BK 885 - PG 512	n/a	n/a	n/a
		COLVIN DONALD	Chevron U.S.A. Inc.	0.15	BK 885 - PG 509	n/a	n/a	n/a
		COLVIN MICHAEL	Chevron U.S.A. Inc.	0.15	BK 885 - PG 506	n/a	n/a	n/a
		PANYKO STACY	Chevron U.S.A. Inc.	0.18	BK 885 - PG 620	n/a	n/a	n/a
		VAN DINE HAROLD E	Chevron U.S.A. Inc.	0.18	BK 885 - PG 623	n/a	n/a	n/a
		VAN DINE JOHN E	Chevron U.S.A. Inc.	0.18	BK 885 - PG 626	n/a	n/a	n/a
30	9-4-9.1	CLARK THOMAS B ET UX	Fossil Creek Ohio, LLC	0.20	BK 838 - PG 521	BK 33 - PG 09 Fossil Creek Ohio LLC to Gulfport Energy Corp.	BK 036 - PG 588 Fossil Creek Ohio LLC & Gulfport Energy Corp. to American Petroleum Partners Operating LLC	BK 040 - PG 267 American Petroleum Partners Operating LLC to Chevron U.S.A. Inc.
31	9-5-2	CLARK THOMAS B ET UX	Fossil Creek Ohio, LLC	0.20	BK 838 - PG 521	BK 33 - PG 09 Fossil Creek Ohio LLC to Gulfport Energy Corp.	BK 036 - PG 588 Fossil Creek Ohio LLC & Gulfport Energy Corp. to American Petroleum Partners Operating LLC	BK 040 - PG 267 American Petroleum Partners Operating LLC to Chevron U.S.A. Inc.



September 10, 2018

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

RE: Longworth 08H, 09H, 10H, 11H, 12H

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 Cherrington Parkway, Coraopolis, PA 15108 Tel 412 865 1426 Luke.Slagel@chevron.com

Office of Oil and Gas

OCT 26 2018

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

		NOTICE CERTIFICATION		
Data of Nati	ce Certification: 15/25/18	ADING 47		
Date of Noti	te Certification. 10/00/10	API No. 47- Operator's V		
		Well Pad Na		
Notice beel	hoon givon:	wen rau Na	ime. Longwo	W W 1
	been given:	§ 22-6A, the Operator has provided the requ	inad nartice r	with the Notice Forms listed
	tract of land as follows:	g 22-6A, the Operator has provided the requ	ired parties v	with the Notice Forms listed
State:	West Virginia	Easting:	523394.63	
County:	Marshall		4410843.05	
District:	Clay		Roberts Ridge R	oad/WV 21
Quadrangle:	Glen Easton, WV 7.5'		Longworth	
Watershed:	Middle Grave Creek - Grave Creek			
information report giving the requirements Virginia Code of this article Pursuant to that the Ope	equired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen ce § 22-6A-11(b), the applicant shall have been completed by the applicant	perator has attached proof to this Notice Cer	uirement was n of this arti le surface ov nat the notice	deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	☐ NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCTED		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or □ NO PLAT SURVEY WAS CON	NDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	E OWNER	
■ 4. NO	ΓICE OF PLANNED OPERATION			RECEIVED
■ 5. PUE	BLIC NOTICE			RECEIVED
■ 6. NO	TICE OF APPLICATION			□ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under west virginia code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service of Oil and Gas

OCT 2 6 2018

☐ RECEIVED

Certification of Notice is hereby given:

THEREFORE,	I Jenny Butchko , ha	ave read and understand	the notice requirements within West Virginia Code § 22-					
6A. I certify that	at as required under West Virginia (Code § 22-6A, I have so	erved the attached copies of the Notice Forms, identified					
above, to the re	equired parties through personal ser-	vice, by registered mail	or by any method of delivery that requires a receipt or					
signature confir	mation. I certify under penalty of law	w that I have personally	examined and am familiar with the information submitted					
in this Notice (Certification and all attachments, a	and that based on my i	inquiry of those individuals immediately responsible for					
			d complete. I am aware that there are significant penalties					
			onment Jewy B wanted					
Well Operator:	Chevron Appalachia, LLC	Address:	700 Cherrington Parkway					
By:	Jenny Butchko		Coraopolis, PA 15108					
Its:	Permitting Team Lead	Facsimile:	412-865-2403					
Telephone:	412-865-1533	Email:	JZYK@chevron.com					
		- County of	1th of Pennsylvania f Allechany					
Commonwealth of Pagnsylvania - Notary Seal		Subscribed and swo	orn before me this 17th day of October 2018.					
L	aura Savage, Notary Public	V						
Allegheny County My commission expires September 17, 2022		Julia	a Notary Public					
1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ommission number 1285773	Daniel Lance						
-	Pennsylvania Association of Notaries	My Commission Ex	My Commission Expires September 17, 2022					
		The second secon						

Oil and Gas Privacy Notice:

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



WW-6A (9-13)

API NO. 47-	
OPERATOR WELL NO.	M12H
Well Pad Name: Longworth	

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

Noti	ce Time Requirem	ent: notice shall be provi	ded no later tha	an the filing date of permit application.
	of Notice: 10/4/ ce of:	Date Permit Applicat	tion Filed: <u>//</u>	125/18
V	PERMIT FOR AN WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT
Deliv	very method pursu	ant to West Virginia Co	de § 22-6A-10	O(b)
☐ PERSONAL ☐ REGISTERED ☑				IOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL		IPT OR SIGNATURE CONFIRMATION
sedin the su oil and descr opera more well i import have provi proposubse recore provi: Code	ment control plan requarface of the tract on ad gas leasehold being ibed in the erosion autor or lessee, in the erosion action or lessee, in the erosion action or lessee, in the erosion action or lessee, in the erosion seams; (4) The work, if the surface to undment or pit as dea a water well, spring and water for consum used well work activities of the sheriff requision of this article to R. § 35-8-5.7.a required.	uired by section seven of the which the well is or is pro- g developed by the propose and sediment control plan sevent the tract of land on we owners of record of the surfact is to be used for the placeribed in section nine of the or water supply source location by humans or domesty is to take place. (c)(1) If on hold interests in the lartired to be maintained purse the contrary, notice to a lie uires, in part, that the operation is proposed to the properties of the contrary, notice to a lie uires, in part, that the operation is developed to the contrary, that the operation is proposed to the contrary, that the operation is proposed to the contrary, that the operation is proposed to the contrary, that the operation is the contrary is proposed to the contrary, that the operation is the contrary is proposed to the contrary in the contrary.	nis article, and to posed to be loc- ed well work, in ubmitted pursual thich the well purface tract or tra- accement, constrainthis article; (5) A ated within one tic animals; and more than three ads, the applican- uant to section and en holder is not ator shall also p	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 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 retenants in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☑ A ₁	pplication Notice	☑ WSSP Notice ☑ E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:
	RFACE OWNER(s			☑ COAL OWNER OR LESSEE
	e: Graham H. Longworth,			Name: Consolidated Coal Company
	ess: 2527 Fork Ridge Ro	ad		Address: 1000 Consol Energy Drive
	sville, WV 26041			Canonsburg, PA 15317
Name				□ COAL OPERATOR
Addr	ess:			Name: \Murray Energy Corporation
			30 00 10	Address: 46226 National Road
☑ SU	RFACE OWNER(s	(Road and/or Other Dis	turbance)	St. Clairsville, OH 43950
Name	e: Mary Holmes			□ SURFACE OWNER OF WATER WELL
Addr	ess: 107 Spindle Lane	V		AND/OR WATER PURVEYOR(s)
	sville, WV 26041			Name: Qaniel C. Longworth
Name	: The Estate of Barbara J	. Derrow		Address: 812 Spindle Lane
	ess: 6247 Roberts Ridge			Moundsville, WW 26041
	sville, WV 26041			□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
444		(Impoundments or Pits)		: (CONTENT OF CONTENT
		(impoundments of Fits)		Name: Address:
Addre	ess:			· rudi coo.
				*Please attach additional forms if necessary
-			-	- rease ditach additional forms if fleecosaly

WW-6A
(8-13)

API NO. 47
OPERATOR WELL NO. M12H
Well Pad Name: Longworth

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

OCT 26 2018

WW-6A (8-13) API NO. 47-OPERATOR WELL NO. M12H

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

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:

drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

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

Written Comment:

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

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

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

WW-6A (8-13)

API NO. 47	
OPERATOR WELL NO. M12H	
Well Pad Name: Longworth	

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas

OCT 26 2018

WW-6A	
(8-13)	

API NO. 47-OPERATOR WELL NO. M12H Well Pad Name: Longworth

Notice	is	hereby	given	by:
	-		0	

Well Operator: Chevron Appalachia, LLC

Telephone: 412-865-1533

Coraopolis, PA 15108 Email: JZYK@chevron.com

Facsimile: 412-865-2403

Address: 700 Cherrington Parkway

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, 2022 Commission number 1285773

Member, Pennsylvania Association of Notaries

Commonwealth of lennsylvania Country of Allegheny

Subscribed and sworn before me this 3rd day of October 2018

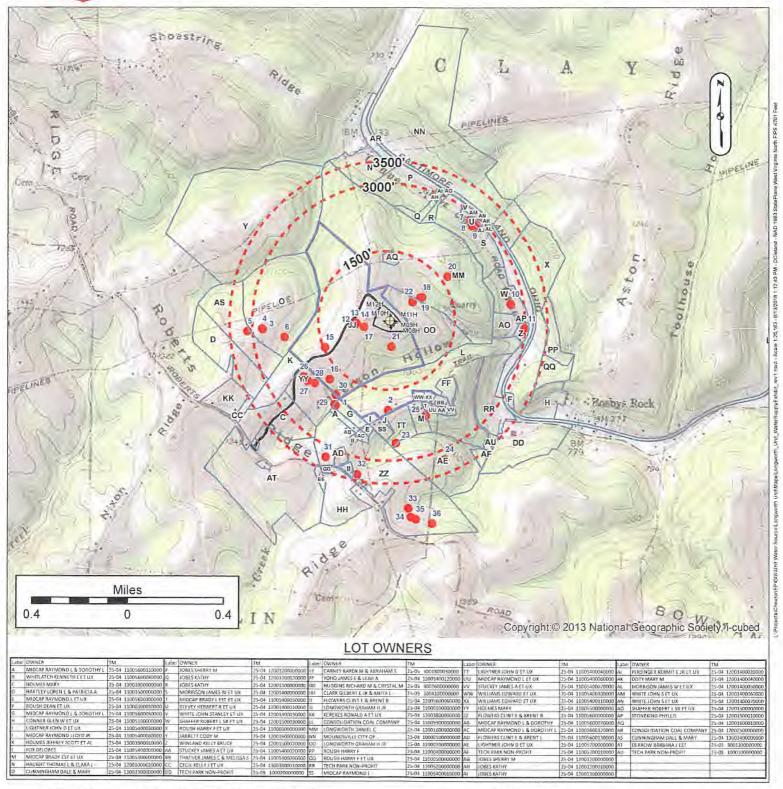
Notary Public

My Commission Expires

RECEIVED Office of Oil and Gas







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

WW-6A4 (1/12)

Operator Well No. M12H

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

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

Date of Noti	Requirement: Notice shall be provide ce:/0/4/18 Date	d at least TEN (10) days prior to filing Permit Application Filed: 10/25	a permit application.
Delivery me	thod pursuant to West Virginia Code	e § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		REQUESTED	
receipt request drilling a hore of this subsect subsection man	sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice givetion as of the date the notice was provided by the surface of the waived in writing by the surface of	owner notice of its intent to enter upon ven pursuant to subsection (a), section to ded to the surface owner: <i>Provided, ho</i>	a, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this clude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE (OWNER(s):	
Name: Graham		Name: Mary Holmes	
Address: 2527 Moundsville, WV		Address: 197 Spindle Lane	
Moundsville, VVV	20041	Moundsville, WV 26041	
State: County: District:	West Virginia Marshall	uhorizontal well on the tract of land as f UTM NAD 83 Easting: Northing:	523394.63 4410843.05
lightlet.	Clay	Public Road Access:	Roberts Ridge Road/WV 21
	Ol- E- WALLE CO		
Quadrangle: Watershed:	Glen Easton, WV 7.5" Middle Grave Creek - Grave Creek	Generally used farm name:	Longworth
Quadrangle: Watershed: This Notice Pursuant to Vacsimile numeriated to hor	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the ber and electronic mail address of the izontal drilling may be obtained from	nis notice shall include the name, add ne operator and the operator's authoriz the Secretary, at the WV Department of	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters.
Quadrangle: Watershed: This Notice Pursuant to Values and the number of the following selected to hor ocated at 601	Shall Include: West Virginia Code § 22-6A-16(b), the observation of the state of th	nis notice shall include the name, add ne operator and the operator's authoriz the Secretary, at the WV Department of	ress, telephone number, and if available, sed representative. Additional information
Quadrangle: Watershed: This Notice Pursuant to Vacsimile nun related to hor ocated at 601 Notice is her	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the share and electronic mail address of the sizontal drilling may be obtained from 57th Street, SE, Charleston, WV 2530 reby given by:	nis notice shall include the name, add ne operator and the operator's authoriz the Secretary, at the WV Department of	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters.
Quadrangle: Watershed: This Notice Pursuant to Vacsimile nun related to hor ocated at 601 Notice is her	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the share and electronic mail address of the sizontal drilling may be obtained from 57th Street, SE, Charleston, WV 2530 reby given by:	nis notice shall include the name, add ne operator and the operator's authoriz the Secretary, at the WV Department of	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Vacsimile nun related to hor ocated at 601 Notice is he Well Operato	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the share and electronic mail address of the sizontal drilling may be obtained from 57th Street, SE, Charleston, WV 2530 reby given by:	nis notice shall include the name, add ne operator and the operator's authoriz the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.d	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Vacsimile nuncelated to horocated at 601	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the standard electronic mail address of the izontal drilling may be obtained from 57th Street, SE, Charleston, WV 2530 reby given by: Chevron Appalachia, LLC 700 Cherrington Parkway	nis notice shall include the name, add ne operator and the operator's authoriz the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.d Authorized Representative	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Vacsimile nun related to hor ocated at 601 Notice is he Well Operator Address: Coraopolis, PA 1	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the standard electronic mail address of the izontal drilling may be obtained from 57th Street, SE, Charleston, WV 2530 reby given by: Chevron Appalachia, LLC 700 Cherrington Parkway	nis notice shall include the name, add ne operator and the operator's authoriz the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.d Authorized Representative	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Vacsimile nun related to hor ocated at 601 Notice is he Well Operator Address:	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the standard electronic mail address of the standard drilling may be obtained from 57th Street, SE, Charleston, WV 2530 reby given by: Chevron Appalachia, LLC 700 Cherrington Parkway	nis notice shall include the name, add ne 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:	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Vacsimile number at 601 Notice is here Well Operator Address: Coraopolis, PA 1 Telephone:	Middle Grave Creek - Grave Creek Shall Include: West Virginia Code § 22-6A-16(b), the ber and electronic mail address of the izontal drilling may be obtained from 57th Street, SE, Charleston, WV 2530 reby given by: Chevron Appalachia, LLC 700 Cherrington Parkway 5108 412-865-1533	nis notice shall include the name, add ne 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:	ress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.

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.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact of Celved Office of Oil and Gas

OCT 2 6 2018

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

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

Notice Time Date of Noti	Requirement: Notice shall be provided at ice: 1014/18 Date Per	t least TEN (10) days prior to filing mit Application Filed:	a permit application.
Delivery me	ethod pursuant to West Virginia Code § 2	22-6A-16(b)	,
☐ HAND	■ CERTIFIED MAIL		
DELIV		UESTED	
drilling a hor of this subsection m	rizontal well: <i>Provided</i> , That notice given ction as of the date the notice was provided	pursuant to subsection (a), section to the surface owner: <i>Provided, ho</i> er. The notice, if required shall income.	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, tor's authorized representative.
Notice is he	ereby provided to the SURFACE OW	NER(s):	
	ate of Barbara J. Derrow	Name:	
Moundsville, WV	7 Roberts Ridge Road	Address:	
	20071		
Notice is he Pursuant to V the surface ov State: County: District: Quadrangle: Watershed:	Vest Virginia Code § 22-6A-16(b), notice i wner's land for the purpose of drilling a hor West Virginia Marshall Clay Glen Easton, WW 7.5' Middle Grave Creek - Grave Creek	s hereby given that the undersigned izontal well on the tract of land as f UTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name:	well operator has an intent to enter upon collows: 523394.63 4410843.05 Roberts Ridge Road/WV-21 Longworth
This Notice	Shall Include:		
Pursuant to V facsimile num related to hor	West Virginia Code § 22-6A-16(b), this range and electronic mail address of the optizontal drilling may be obtained from the 57 th Street, SE, Charleston, WV 25304 (30)	Secretary at the WW Denominant of	ed representative. Additional information
	reby given by:		
	Chevron Appalachia, LLC	Authorized Representative:	
Address:	700 Cherrington Parkway	Address:	
Coraopolis, WV 1	15108		
Telephone:	412-865-1533	Telephone:	
Email:	JZYK@chevron.com	Email:	
Facsimile:	412-865-2403	Facsimile:	
Oil and Gas	Privacy Notice		

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Option appropriately secure your personal information. If you have any questions about our use or your personal information, please contact Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. OCT 26 2018

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

Delivery met	nod pursuant to West Virginia Cod	le § 22-6A-16(c)		
■ CERTIE	TIED MAIL	☐ HAND		
	N RECEIPT REQUESTED	DELIVERY		
return receipt the planned o required to be drilling of a h damages to th	requested or hand delivery, give the separation. The notice required by the provided by subsection (b), section to orizontal well; and (3) A proposed a surface affected by oil and gas oper	surface owner whose land is subsection shall inclu- en of this article to a surf surface use and compen- tations to the extent the data	d will be used for de: (1) A copy ace 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 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
	by provided to the SURFACE OW listed in the records of the sheriff at	the time of notice):	Manu Malman	
	f. Longworth, Jr.	Name		
Name: Graham I			Mary Holmes \(\) \tag{97 Spindle Lane}	
Name: Graham I Address: 2527 Moundsville, WV : Notice is here Pursuant to W	Fork Ridge Road (26041 by given: est Virginia Code § 22-6A-16(c), not	Addres Moundsv ice is hereby given that the	s: 197 Spindle Lane ille, WV 26041 ne undersigned	well operator has developed a planned
Name: Graham I Address: 2527 Moundsville, WV : Notice is here Pursuant to W	Fork Ridge Road (6041 by given:	Addres Moundsv dice is hereby given that the content of drilling a horizonta of the content of	s: 197 Spindle Lane fille, WV 26041 the undersigned of the tra la Easting: Northing: Access:	well operator has developed a planned act of land as follows: 523394.63 4410843.05 Roberts Ridge Road/WV 21 Longworth
Name: Graham I Address: 2527 Moundsville, WV : Notice is here Pursuant to W operation on State: County: District:	by given: est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Marshall Clay	Addres Moundsv dice is hereby given that the content of drilling a horizonta of the content of	s: 197 Spindle Lane iille, WV 26041 ne undersigned of the tra ill well on the tra Easting: Northing:	act of land as follows: 523394.63 4410843.05 Roberts Ridge Road/WV 21
Name: Graham I Address: 2527 Moundsville, WV: Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal wel surface affects information re	by given: est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Marshall Clay Glen Easton, WV 7.5' Middle Grave Creek - Grave Creek thall Include: est Virginia Code § 22-6A-16(c), thi d by W. Va. Code § 22-6A-10(b) to l; and (3) A proposed surface use and the distribution of the elated to horizontal drilling may be elated to for the elated to 157th Street, SE, Co	Addres Mounds Mounds	s: 197 Spindle Lane fille, WV 26041 The undersigned of the transport of t	act of land as follows: 523394.63 4410843.05 Roberts Ridge Road/WV 21 Longworth code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Name: Graham I Address: 2527 Moundsville, WV : Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal well surface affects information re headquarters,	by given: est Virginia Code § 22-6A-16(c), not he surface owner's land for the purpowest Virginia Marshall Clay Glen Easton, WV 7.5' Middle Grave Creek - Grave Creek hall Include: est Virginia Code § 22-6A-16(c), thid by W. Va. Code § 22-6A-10(b) to light and (3) A proposed surface use and by oil and gas operations to the elated to horizontal drilling may be elated at 601 57th Street, SE, Coult.aspx.	Addres Mounds Mounds	s: 197 Spindle Lane fille, WV 26041 The undersigned of the transport of t	act of land as follows: 523394.63 4410843.05 Roberts Ridge Road/WV 21 Longworth code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Name: Graham I Address: 2527 Moundsville, WV: Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal wel surface affecte information re headquarters, gas/pages/defa	by given: est Virginia Code § 22-6A-16(c), not he surface owner's land for the purpowest Virginia Marshall Clay Glen Easton, WV 7.5' Middle Grave Creek - Grave Creek hall Include: est Virginia Code § 22-6A-16(c), thid by W. Va. Code § 22-6A-10(b) to light and (3) A proposed surface use and by oil and gas operations to the elated to horizontal drilling may be elated at 601 57th Street, SE, Coult.aspx.	Addres Moundsw Moun	s: 197 Spindle Lane fille, WV 26041 The undersigned of the transport of t	act of land as follows: 523394.63 4410843.05 Roberts Ridge Road/WV 21 Longworth code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-rkway

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



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

Date of Notice	tequirement: notice shall be provided no later the control of the	han the filing ion Filed:	g date of permit - 10/25/18	application.
Delivery meth	od pursuant to West Virginia Code § 22-6A-1	16(c)	. ,	
	IED MAIL HAND N RECEIPT REQUESTED DELIV			
the planned op required to be p drilling of a ho damages to the	Va. Code § 22-6A-16(c), no later than the date equested or hand delivery, give the surface owneration. The notice required by this subsection provided by subsection (b), section ten of this arrow arrival well; and (3) A proposed surface use surface affected by oil and gas operations to the required by this section shall be given to the surface.	er whose land in shall inclusticle to a surand compend extent the description.	Id will be used for ude: (1) A copy face owner whose usation agreemer	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 at containing an offer of compensation for pensable under article six b of this chapter.
Notice is hereb (at the address I Name: The Estate Address: 6247 Ro Moundsville, WV 26	oberts Ridge Road	notice): Name: Addres		
State:	st Virginia Code § 22-6A-16(c), notice is hereby e surface owner's land for the purpose of drilling	given that t g a horizonta	al well on the tra Easting:	ct of land as follows: 523394.63
		Public Road	Northing:	4410843.05 Roberts Ridge Road/WV 21
` -			ed farm name:	Longworth
This Notice Sha	all Include: st Virginia Code § 22-6A-16(c), this notice shal	l include: (1) A gany of this	ondo continu (2) The info
horizontal well; surface affected information rela	and (3) A proposed surface use and compensate by oil and gas operations to the extent the darented to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, W.	owner whose ion agreeme mages are co	e land will be unt containing an ompensable under the WAY	offer of compensation for damages to the er article six-b of this chapter. Additional
Well Operator:	Chevron Appalachia, LLC	Address:	700 Chemington Park	(Way
Telephone:	412-865-1533		Coraopolis, PA 1510	
Email:	JZYK@chevron.com	Facsimile:	412-865-2403	
Oil and Gas Pri	ivacy Notice:			

C

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.



API NO. 47-	
OPERATOR WELL NO.	M12H
Well Pad Name: Longworth F	Pad A

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

provisions lis WW-6A and	Clay P	otice of Application, an Ap	plication for a Well Work Permit on For the erosion and sediment control plan, 523394.631
issued on tho	that I have no objection to the planned work descrise materials. the box that applies		I have no objection to a permit being
□ SURFAC	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE		
■ COAL C		By: Mason Its: Coul, pil	Smith and gas relations manager

Oil and Gas Privacy Notice:

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

October 10, 2018

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

Jill M. Newman Deputy Commissioner

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

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

Longworth M12H

Dear Mr. Martin,

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. Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Dary K. Clayton

Cc: Christopher Rerko

Chevron Appalachia, LLC

CH, OM, D-6

Office of Oil and Gas

OCT 26 2018

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

RECEIVED
Office of Oil and Gas

OCT 26 2018

LONG	VORTH	WELL	SITE
AS	S-BUILT	SURVEY	

WVDEP OOG
ACCEPTED AS-BUILT

Val 1/25/2019

ROBERTS RIDGE SAINT JOSEPH ROAD CLAY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

PREPARED FOR:

CHEVRON APPALACHIA, LLC

700 CHERRINGTON PARKWAY CORAOPOLIS, PA 15108

CONSULTANTS

CML & DATRONSENTAL CONSULTANTS, INC. 4000 TRANSCE LANE, SUITE 200 EXPORT, PA 15632 PHONE 724–327–5200

CML/SITE ENGINEER CONTACT: JOSHUA A. MAGARGEE ENAL ADDRESS: Imagarger@cecinc.com

GEOTECHNICAL ENGINEER CONTACT: MICHAEL J. SHELEHEDA, P. EMAL, ADDRESS; mahelehede@oecing.com

SURVEY CONTACT: JAMES R. BRUGGEMAN, P.L.S.

SITE COORDINATES AND WATERSHE

START OF ACCESS ROAD LATTIUDE, 39' 50' 22.42' N. LONGITUDE: 80' 44' 13.39" W

END OF ACCESS ROAD LATTUDE 35" 50" 53.11" W

WELL HEAD MOSH LATTUDE 39" 50" 50.13" N. LONGITUDE: 80" 43" 35.07" W

APPROXIMATE CONTER OF WELL PAD LATTICE 39' 50' 50.04" N, LONGTUDE: 80' 43' 35.75" W

*BASED ON HAD 83. WEST VIRGINIA NORTH ZONE

MATERSHED NAME: UPPER ONIO SOUTH
RECEMBE STREAM: UNINAMED TRIBUTARIES TO GRAVE CREEK

WORTH STATE STATE

LIST OF DRAWINGS

SHEET TITLE
CONDI BICET
AS-BULT SURVEY
AS-BULL ROAD PROFILE

Ju-4/19

EXISTING API NUMBERS 47-051-01903 47-051-01904

47-051-01914

47-051-01916

47-051-01917 47-051-02078

47-051-02079 47-051-02080 47-051-02081 47-051-02082

47-051-02083

1 2 -3 4

CERTIFICATION

DIS PROJECT WAS CONSTRUCTED IN CENERAL ACCORDANCE
WITH THE PERSON TO DESCRIPTION WORSE ACCOUNTED.
DESCRIPTION IN THE RIBE OF CHAPTER APPROPRIES.



11.00	EXISTING CONTOUR	0	CHICH BASH
	PENCE	8	BELLIA WARRACET
- 21	STORM SENIOR LINE		WATER BOY (NO)
- 0	OIS LINE		MITTER LINE MANUES
	WATER LINE	**	FIRE HYDRWIT
	ISLANDIE DE	0	SAS BOY (CO)
6.5	LACORDIOUNO DEEC. LINE		DAZ TIME MAJARIA
S ND	OVERHEAD ELECTRIC		POHEN POLE
	STADE AVE	-	OUT WIE
mm	THEOLOG	Ø.	TELEPHONE PERISTA
1	gov	m	ELECTRIC PULL BOX



Civil & Environmental Consultants, Inc.
233 Sasterio Read - Philateria, Pa. 13706
Ph. 412.49; 223. - 802.56.233. - Pac. 412.45.2114
www.ceduc.com

AS-BUILT SURVEY
LONGWORTH WELL SITE
CLAY DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
CHEVRON U.S.A. INC.

OLITE D1/23/2018 SCALE AS SHOWN DAMPS IN LAW ASB-0 PROJECT NO 161-415 APPROVED BY MUS PAGE: 1 0 7

