

west virginia department of environmental protection

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

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

Friday, June 14, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

# AMERICAN PETROLEUM PARTNERS OPERATING, LLC 4600 J. BARRY COURT SUITE 310

CANONSBURG, PA 15317

Re: Permit approval for RIVERRUN-5UH 47-051-02179-00-00

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: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 6/14/2019 RIVERRUN-5UH APP MINERALS 47-051-02179-00-00 New Drill

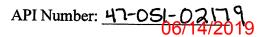
Promoting a healthy environment.

# **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**

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



# **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, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

.

-



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57<sup>th</sup> Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 1, 2019

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02179

COMPANY: American Petroleum Partners Operating, LLC

FARM: <u>APP Minerals, LLC</u> <u>RiverRun-5UH</u>

COUNTY: Marshall DISTRICT: Webster QUAD: Moundsville

The deep well review of the application for the above company is <u>Approved to drill to the Point</u> Pleasant formation for completion. Pooling Docket No. 275-267

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? yes
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: 47-051-02090, 47-051-02091, 47-051-02137, 47-051-02136, 47-051-02178, 47-051-02180, 47-051-02134, 47-051-02106, 47-051-02118
- 4. Provided a plat showing that the proposed location is a distance of <u>400+</u> feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

senhose

Susan Rose Administrator

API NO. 47-051 - 206/14/2019 OPERATOR WELL NO. RiverRun-5UH Well Pad Name: Dire Wolf-River Run

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

1) Well Operator: American	Petroleum Partn	494521257	Marshall	Webster	Moundsville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	liverRun-5UH	Well F	ad Name: Dire	Wolf-River	Run
3) Farm Name/Surface Owner:	App Minerals, I	LC Public R	oad Access: M	cCreary's R	idge Road (CR 7)
4) Elevation, current ground:	1247.9' E	levation, propose	ed post-construc	tion: 1249	.00'
5) Well Type (a) Gas <u>x</u> Other	Oil	Ur	nderground Stor	age	
(b)If Gas Sh	nallow	Deep	x		
He	orizontal <u>×</u>				
6) Existing Pad: Yes or No No	0				
7) Proposed Target Formation Point Pleasant Formation 11,395					00 psi or .89 psi per foot.
8) Proposed Total Vertical Dep	oth: 11,395'			_	
9) Formation at Total Vertical	D DI	easant			
10) Proposed Total Measured	Depth: 23,783'				
11) Proposed Horizontal Leg I	Length: 12,018'	1.0			
12) Approximate Fresh Water	Strata Depths:	162' 845	I.		
13) Method to Determine Fresh	h Water Depths:	Nearest offset v	vell		
14) Approximate Saltwater De	pths: Na				
15) Approximate Coal Seam E	Depths: 455', 655	j.			
16) Approximate Depth to Pos	sible Void (coal m	ine, karst, other)	None anticipate	d. drilling in pilla	ar - Mine maps attached.
17) Does Proposed well location directly overlying or adjacent t	on contain coal sea			lo	
(a) If Yes, provide Mine Info	: Name: The C	Dhio County Mine-M	lurray American Er	nergy and Cons	solidation Coal Company
and the second se		, 655'			
		burgh #8			
	Owner: Murr	ay American Er	nergy & Conso	lidation Coa	I Company

WW-6B (04/15)

# 4705102179 06/14/2019

API NO. 47-\_051 -\_\_\_

OPERATOR WELL NO. River Run 5 UH Well Pad Name: Dire Wolf-River Run

18)

## CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> or Used	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	30"	New	LS	81.3#	60'	60'	CTS
Fresh Water	20"	New	J-55	54.5#	905'	905'	15.6ppg to sur 521 sr w/30% OH escess
Coal	13 3/8"	New	J-55	54.5#	1941'	1941'	15 Zppg to sur 558 ax W/30% OH Excess
Intermediate	9 5/8"	New	HCP-110	40#	9542'	9542'	15 2ppg to surf 936 sr w/30% OH excess
Production	5 1/2"	New	HCP-110	23#	23,783'	23,783'	15.4 8ppg TOC >=200' above 9 825 shoe
Tubing	2 7/8"	New	J-55	6.5#			
Liners							

JN 11/13/18

TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	36"		300		Type 1	Leed yield 2.38 tz# 521 sx Yield 1.18
Fresh Water	20"	24"	.388	2,730	688	Class A	Load yield 2.38 Tail 558 ox Yield 1.27
Coal	13 3/8"	17.5"	.380	2,730	688	Class A	Lead Yistd 2.38 Tel: 558 sx Yield 1.27
Intermediate	9 5/8"	12.375"-12.25"	.395	7,870	3,166	Class A	Lozd Yield 1.28 Tesi 936 ax Yield 1.28
Production	5 1/2"	8.75"	.361	14,360	11,000	Class H	Lead Yield 1.27 Tail 4714 sx Yield 1.27
Tubing	2 7/8"	5.14"	.217	10,570	8,000		
Liners							

#### PACKERS

Kind:			
Sizes:		 	
Depths Set:		C	RECEIVED ffice of Oil and Gas

JAN 2 5 2019

W Department of Environmental Protection

#### WW-6B (04/15)

4705 · 0211,79

**WW-6B** (10/14)

API NO. 47- 051

OPERATOR WELL NO. River Run 5 UH Well Pad Name: Dire Wolf-River Run

JN 11/13/18

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

Drill the vertical depth to the Point Pleasant at an estimated total vertical depth of approximately 11,395'. Drill the horizontal leg- stimulate and produce the Utica/Point Pleasant. Should we encounter a unanticipated void we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

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

The stimulation will be in multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineerig design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. Our maximum pressure is not to exceed 10,000 lbs.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.7 acres

22) Area to be disturbed for well pad only, less access road (acres): 12.11 acres

23) Describe centralizer placement for each casing string:

Conductor- No centralizers used. Freshwater/Surface- Bow Spring centralizers every 3 joints to 100' from surface. 1st Intermediate - Bow Spring centralizers every 3 joints to 100' from surface. 2nd Intermediate - Bow Spring centralizers every 3 joints to 100' from surface. Production - Rigid bow springs every third joint from KOP to TOC. Rigid every joint to KOP.

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

Type 1 to Surface. Surface/Freshwater - 15.6 Class A +2% CaCl, 30% OH Excess Yield =1.18. 1st Intermediate - 15.6 ppg Class A +2% CaCl, 0.25 Lost Circ. 30% Yield =1.27. 2nd Intermediate- 2 Stage cement job with 15.4 ppg Class A lead + additives (antisettling, antifoam, fluid loss retarder, salt, viscosifer) & 15.4 Class A tail with additives (antisettling, antisettling, a l and Gas extender, dispersant) 15% excess TOC>=200' above 9.625" shoe.

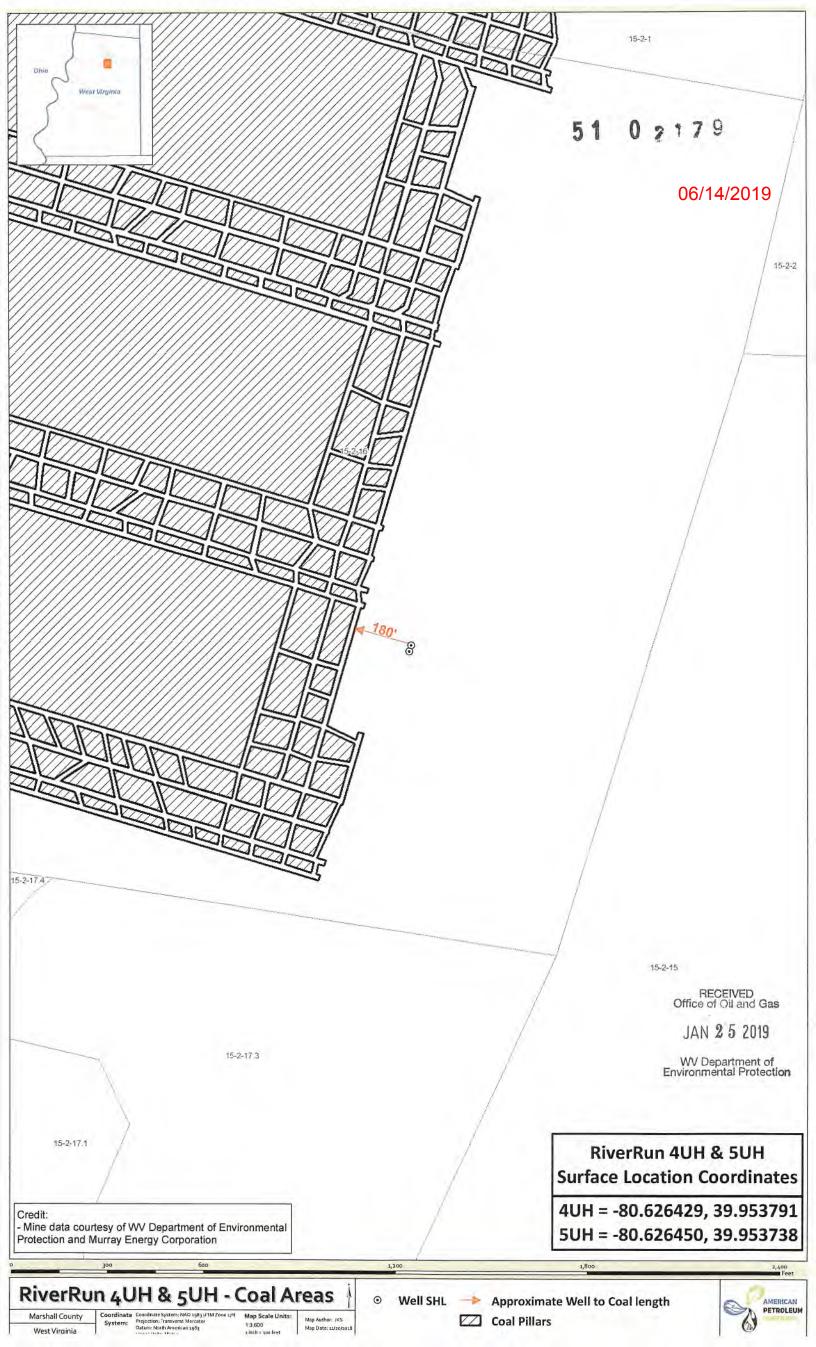
JAN 25 2019

25) Proposed borehole conditioning procedures:

MAY Dan iment of

Conductor - The hole is drilled w/ air and casing is run on air. Apart from insuring hole is clean via air circulation at TD, there are no other conditioning procedures. Freshwater/Surface- The hole is drilled w/air or Freshwater based mud and casing is run on air. Once casing is at setting depth, fill with KCI water circulate a minimum of one hole volume prior to pumping cement. First Intermediate- Drilled on Air. Once casing is at a setting depth, circulate a minimum of one hole volume prior to pumping cement. Second Intermediate - Drilled on air. Fill with salt saturated water once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Production- drilled on +/- 14.8ppg SOBM. Once at TD, circulate at max allowable pump rate for at least 6x bottoms up. Once on bottom with casing, circulate minimum of one hole volume prior to pumping cement.

\*Note: Attach additional sheets as needed.



			CA-100 Accelerator		Base Cement	CCAC (Class A Comparison) Additive (Material) Type		1	9
			White, flake		Grey powder	Additive (Material) Description	Cement Additives		
	7647-14-5	7732-18-5	7447-40-7	10043-52-4	65997-15-1	CAS #			

. .

.

•

RECEIVED Office of Oil and Gas

W Department of

# 51-02179

C	AN	AMERICAN			L						
)		PARTNERS						A 1 A	RiverRun-5UH Utica Horizontal Marshall Co. WV	tal W	
		-	Horizontal Well Plan with Cemented Long String Completion	lan with	Cement	ted Long S	String Co	mpletion			
HOLE	ERIG	CASING	GEOLOGY	Top TVD	QW	MUD CEM	CEMENT DIR	DIRECTIONAL	LOGS	BITS	COMMENTS
36	Conductor Rig	rr 30" 81.3#				AIR To St	To Surface	N/A	N/A		Stabilize surface fill/soil
			Conductor	60	60		5				
			Sewickley Coal	305							
24"	Top-Hole	20" 94# J-	Pittsburgh Coal	505		AIR 10 SU	15.6ppg to surface 20"	20" Air Hammer		Carbide hammer	Protect fresh aroundwater
	-	_				-	~	Totco at TD		bit	
			Surf. Casing	905	905	OHe	OH excess				
			Big Lime	1525				Center Rock			
ţ	-		Greenbrier Group	1592		-		15" Air Hammer		diamond gage	
-G./I	I op-Hole	81-54.5# J-55 BTC	Big Injun	1641		AIR to su	to surface Gyro	Gyro above Coal,		Test casing to	
		) i	Int. Casing	1941	1941	OH I	-	Totco at TD		800psi	
			0+	0100							
			Hamilton	6216 6245		-	-				
			Channel Mallan			_					
-			Cherry Valley Marcellus Shale	6354 6356		_					
		0 E (01 10 E H	Oriskanv Sandstone	6390 6619	Τ				MWD surveys		PU cleanout assembly,dress plug,
12.375" .	운	P-1101C	Collect Crosse	LOOF	Γ	AIR to su	to surface 15"	12" Air Hammar	ft samples	Tricone	displace to 12.0ppg
12.25	5" Rig	BTC	Vormon Shalo	7050		-	~	Totco every 400ft	caldina in		SOBM, PU Curve BHA, time drill / KO cement plug.
			Lockoort Dolomito	8175		OHe	OH excess				Expect Seepage in curve
			Clinton Group	8890	Γ	-	/				
			Medina Group	8962							
			Queenston Shale	9142			-				
			Int. Casing	9542	9542						
			Utica Shale	11212							
a		5-1/2" 23#	Point F	11395		_	_	6.75" PDM &	MWD Surveys Mud Logger - 30	PDC	
C.0 Curvell	£				ŧ.	0	Ahnve 9 625		ft samples	5 - 25 WOB	Ganetaarinn
ateral	al Rig	TSH Wedge	TARGET			SOB shoe 45	1	2.38° ADJ Bend	(Curve) 90 ft	100 - 120 RPM	6 Balloopo
		can				-		(cho ning -	(Lateral)		
-			Production Casing		Τ	OHe	OH excess				
			8.5 Hole - Cemented Long	-	/2" 23# P11	String 5-1/2" 23# P110ICY TSH Wedge 563	ge 563				-
⊒÷+	Landing Point 11395 TVD 11765 MD		90.5 degrees		5 C C 2	12018 ft Lateral Length		89.5 Inc 145 Az		Total Depth 11395 TVD 23783 TD	D.

JAN 2 5 2019

	4	7	0	5	À	0	2	1	7	9	
							(	)6/	/14	/20	19
API Number 47 - 051				_	-		-				
Operator's We	ell N	0.	River	Run 5	UH		_		-		

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

## FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name American Petroleum Partners Operating, LLC OP Code 494521257	
Watershed (HUC 10) Upper Ohio South Quadrangle Moundsville	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes <u>V</u> N Will a pit be used? Yes <u>No</u> <u>No</u>	o
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	
<ul> <li>Underground Injection (UIC Permit Number See attached sheet</li> <li>Reuse (at API Number at next anticipated well</li> </ul>	)
Off Site Disposal (Supply form WW-9 for disposal location)     Other (Explain	
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etcArtwater based mud to	rough intermediate then SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? See attached sheet with list.	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill - See attached sheet	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? See Attached Sheet	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated was West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee sl where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUT on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. provisions of the permit are enforceable by law. Violations of any term or condition of the general permit ar law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the informati application form and all attachments thereto and that, based on my inquiry of those individuals immedi obtaining the information, I believe that the information is true, accurate, and complete. I am aware that penalties for submitting false information, including the possibility of fine or imprisonment.	I understand that the nd/or other applicable on submitted on this ately responsible for
Company Official (Typed Name) Braulio Silva	JAN 2 5 2019
Company Official Title_Vice President - Drilling	WV beparenent of Environmental Protection
Subscribed and sworn before me this 12th day of NOVEMBER, 20_18	
Carlin Bugar CONTRATIVENENTA OF PE	NNSYLVANIA
My commission expires 1/23/2020 Notarial SEA My commission expires 1/23/2020 Notarial SEA New Sewickley Twp., Bea 7 Commission Expires J 3ER FENNSYLVANIA ASSOCIAT	AL y Public aver County an. 23, 2020

WW-9 (4/16)

47 0 5 7 0 26/14/2019

Form	W	W	-9
I UIIII			

# Operator's Well No. River Run 5 UH

## American Petroleum Partners Operating, LLC

Proposed Revegetation Treatment: Acres Disturbed 14.7 Prevegetation pH 6.0

Lime 2-3 Tons/acre or to correct to pH

Fertilizer type 10-20-20 or Equal

Fertilizer amount 500 Ibs/acre

Mulch Hay or Straw at 2 Tons/acre

#### Seed Mixtures

Tempo	orary	Permanen	it	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Annual Rye Grass	40	Crownvetch	10-15	
Filed Bromegrass	40	Tall Fescue	30	
Spring Oats 96		Perennial Ryegrass 20		
*Refer to attached Red	clamation Plan f	or further detail.		

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:	
Comments:	
	RECEIVED Office of Oil and Gas
	JAN 2 5 2019
Title: WV DEP Oil and Gas Inspector Date: 11/1-	WV Depart vent of Environmental Protection
Field Reviewed? () Yes () No	(

## Additives for Drilling Medium

51 0 2 - 7 9

CALCIUM CHLORIDE POWDER
CARBO TEC
CARBO-GEL 2
CARBO-TEC S
ECCO-BLOK
LIME
MIL-CARB TM
MIL-CLEAN
MIL-SEAL
NEXT BASE eC
NEXT DRILL
NEXT-HOLD
NEXT-MUL
OMNI-COTE
MIL-BAR
NEXT-MUL HT
SODA ASH
POTASSIUM CHLORIDE

Closed Loop:

In our case, we will be running mud returns thru both, the barite recovery centrifuge or "Stripper" and the low gravity centrifuge or "Polisher" to be able to clean our mud and be put back into the mud tanks where it will be conditioned again and put back into the loop.

RECEIVED Office of Oil and Gas

JAN 2 5 2019

WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961

#### Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 330-892-0164

Nabors Completion & Production Services Co. PO Box 975682 Dallas, TX 75397-5682

Select Energy Services, LLC PO Box 203997 Dallas, TX 75320-3997

**Nuverra Environmental Solutions 11942** Veterans Memorial Highway Masontown, WV 26542

**Mustang Oilfield Services LLC** PO Box 739 St. Clairsville, OH 43950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15301

#### **Disposal Locations:**

Solidification Waste Management, Arden Landfill Permit # 100172 200 Rangos Lane Washington, PA 15301 724-225-1589

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 330-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545

CMS of Delaware Inc. DBA CMS Oilfield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, Inc. 1380 Rte. 286 Hwy. E, Suite 303 Indiana, PA 15701

Solo Construction P.O. Box 544 St. Mary's, WV 26170

**Equipment Transport 1** Tyler Court Carlisle, PA 17015

Myers Well Service, Inc. 2001 Ballpark Court Export, PA 15632

Nichlos 1-A (SWIW #13)

Coraopolis, PA 15108

Groselle (SWIW #34)

Permit # 3862

412-329-7275

Permit # 4096

713-275-4816

Permit # 8780

7675 East Pike

614-648-8898

740-796-6495

Garrettsville. OH

Kemble 1-D Well

Norwich, Oh 43767

Rt. 88

**Burns Drilling & Excavating** 618 Crabapple Road P.O. Box 41 Wind Ridge, PA 15380

RECEIVED Office of Oi; and Gas

JAN 2 5 2019 300 Cherrington Pkwy, Suite 200

WV Department of Environmental Protection

51 0 2 · 7 9

06/14/2019

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 512-478-6545

Adams #3 (Buckeye Brine, LLC) Permit #34-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Oilfield Services, Inc. 2939 Hubbard Road Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652

# 51 0 2 . 7 9

OH UIC #1 Buckeye UIC Barnesville 1 & 2 CNX Gas Company, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

# 06/14/2019

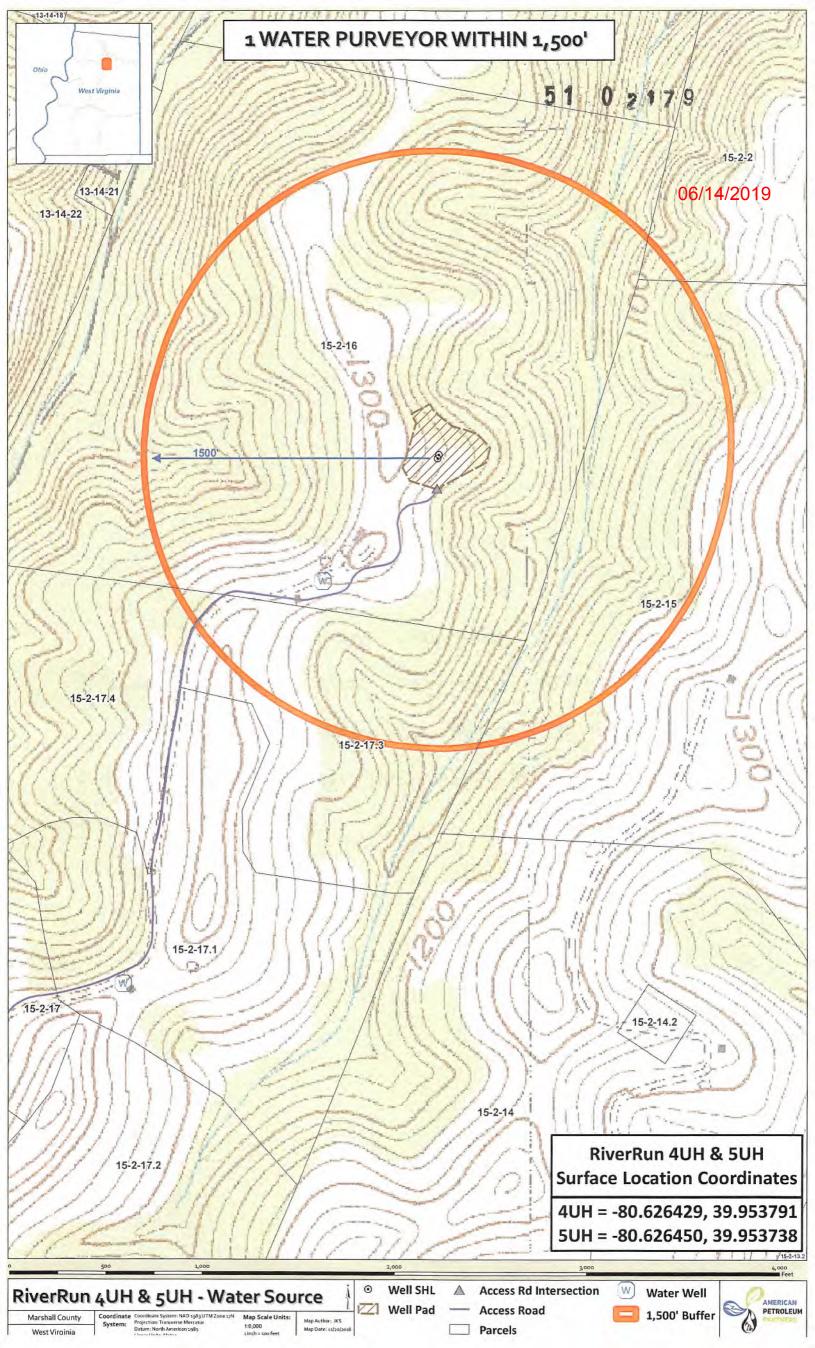
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4137-00-00 Elkhead Gas& Oil Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966

> RECEIVED Office of Oil and Gas

JAN 2 5 2019

W Depan nent of Environmental Protection





4705202179

11/13/18

RECEIVED Office of Oil and Gas

06/14/2019

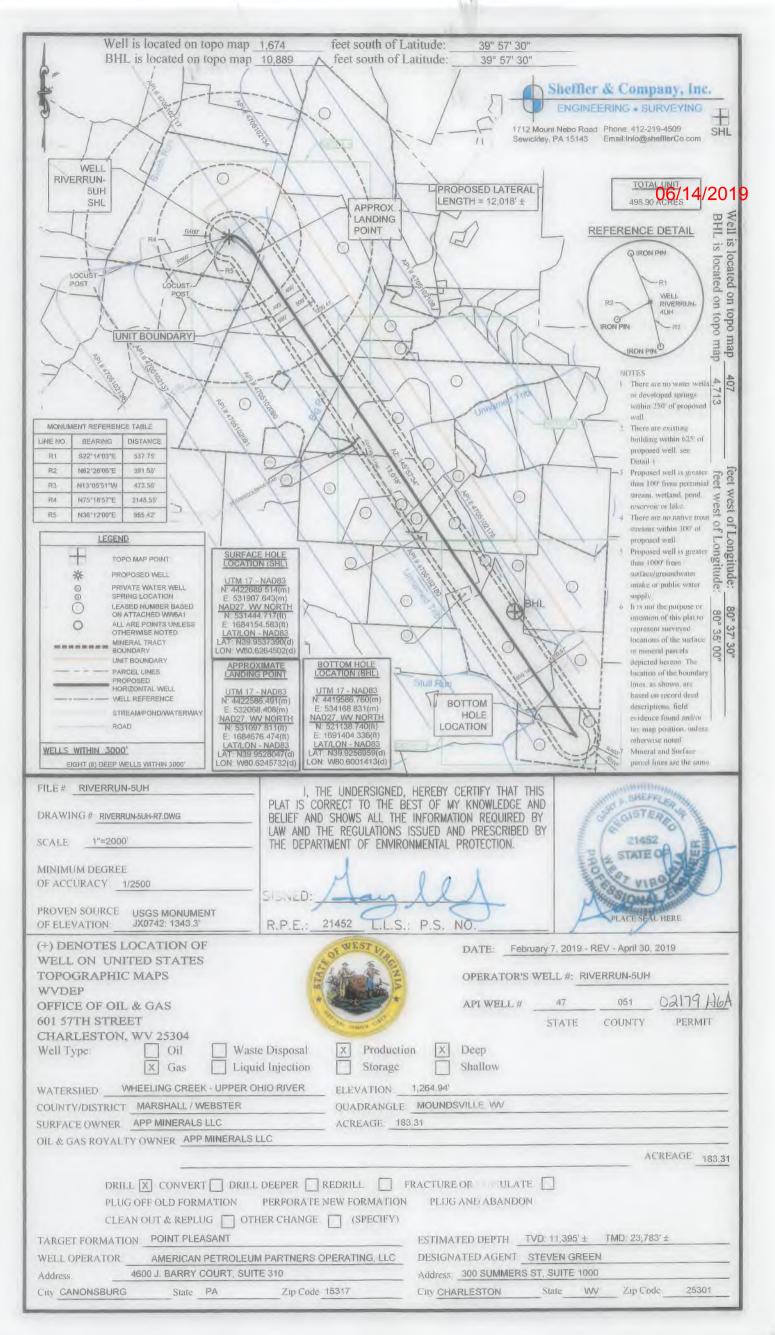
# **Site Safety Plan**

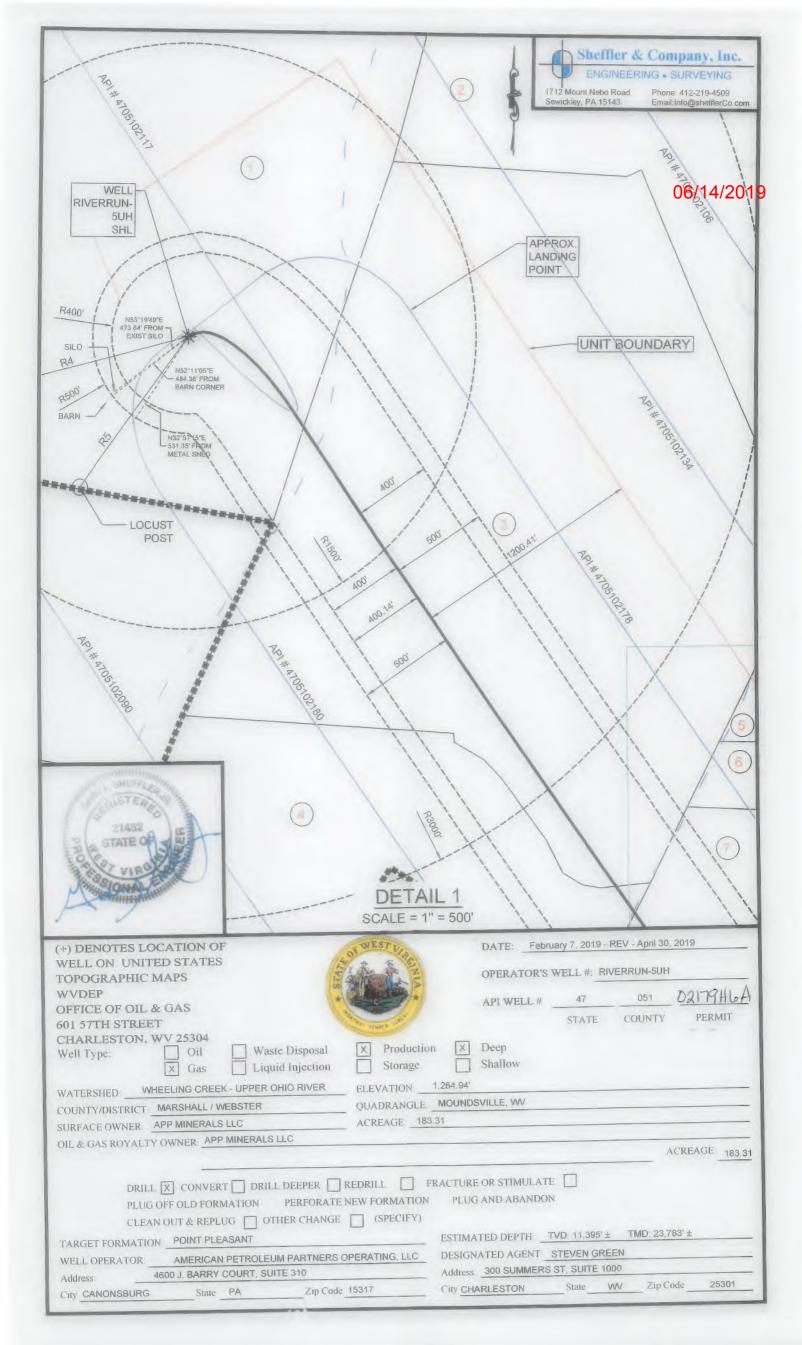
American Petroleum Partners Operating, LLC Dire Wolf- River Run Well Pad (5UH)

# June 2018: Version 1

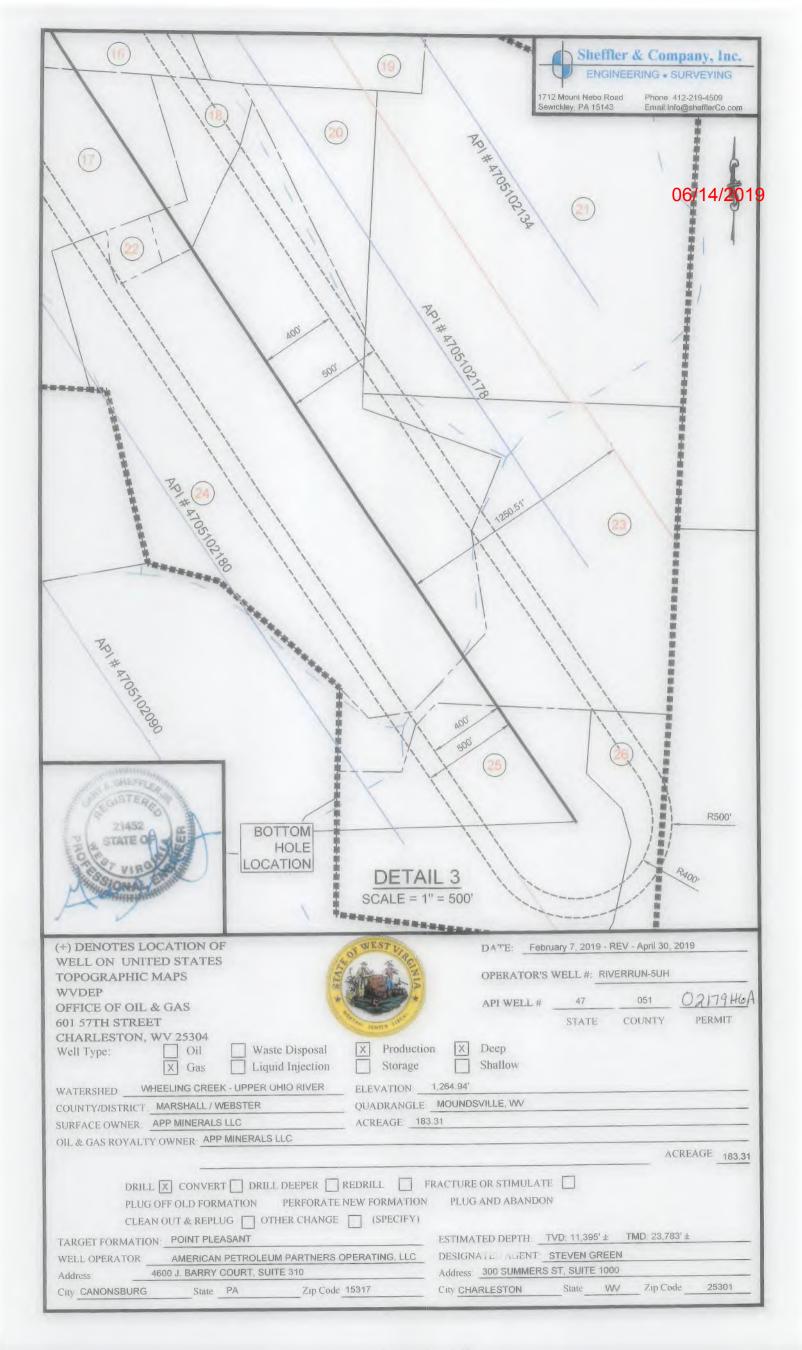
For Submission to West Virginia Department of Environmental Protection, Office of Oil and Gas

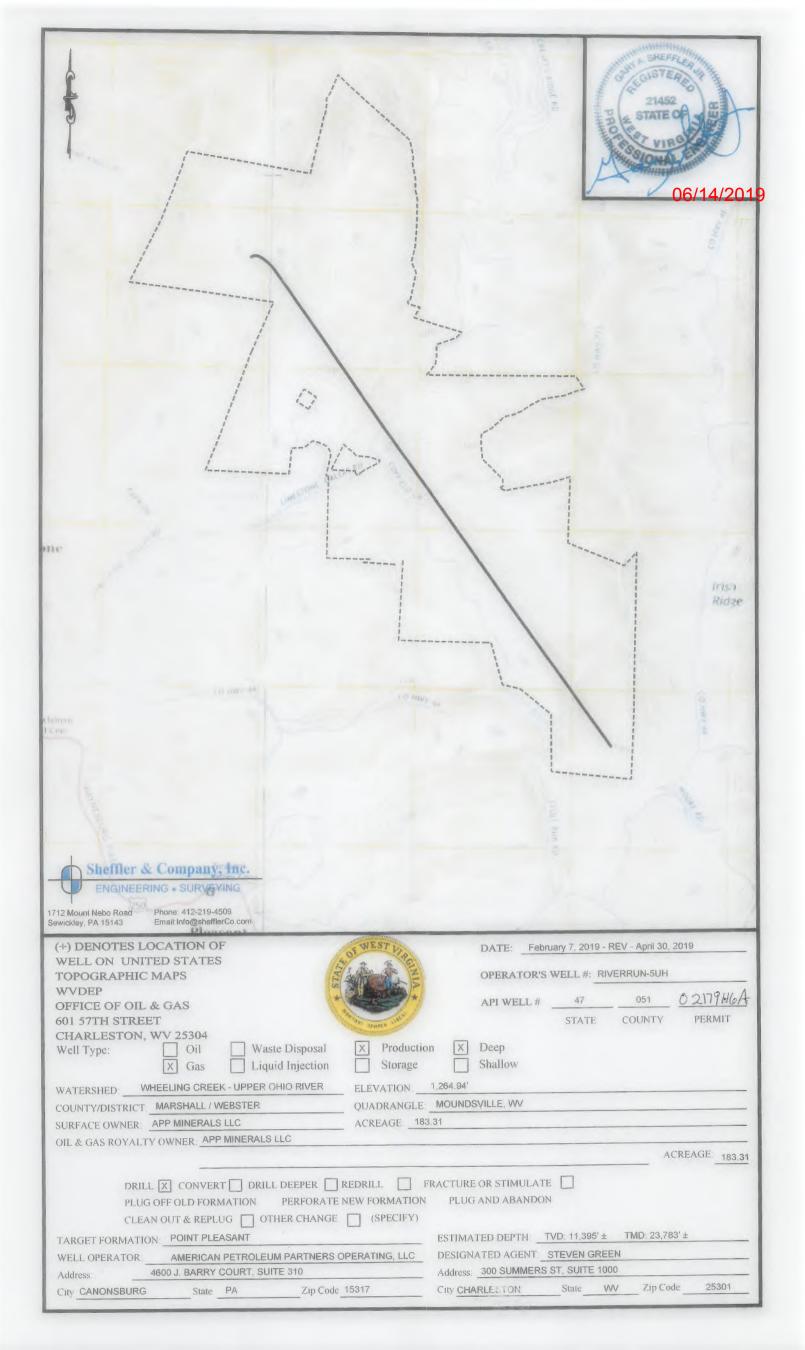
> American Petroleum Partners Operating Decomponental Protection 4600 J. Barry Ct Suite 310 Canonsburg, PA 15317











TAX MAP NO. 15-0002-0016-0000-0000 ASSESSED ACREAGE: 183.31 ACRES

> SURFACE OWNERS: APP MINERAL, LLC

MINERAL OWNERS

O TAX MAP NO. 15-0002-0000-0000 ASSESSED ACREAGE: 132.77 ACRES

> SURFACE OWNERS: ISKCON NEW MATHURA VRINDABAN

> > MINERAL OWNERS: AMP FUND III, LP

TAX MAP NO. 15-0002-0015-0000-0000 ASSESSED ACREAGE: 171.32 ACRES

SURFACE OWNERS: HARRY B. SNYDER AND ELIZABETH JANE SNYDER. TRUSTEES OF THE SNYDER FAMILY TRUST. DATED DECEMBER 17, 2014

MINERAL OWNERS: HARRY B. SNYDER AND ELIZABETH JANE SNYDER. TRUSTEES OF THE SNYDER FAMILY TRUST. DATED DECEMBER 17, 2014

TAX MAP NO. 15-0002-0014-0000-0000 ASSESSED ACREAGE: 126.12 ACRES

SURFACE OWNERS: HARRY B. SNYDER AND ELIZABETH JANE SNYDER, TRUSTEES OF THE SNYDER FAMILY TRUST, DATED DECEMBER 17, 2014

MINERAL OWNERS: HARRY B. SNYDER AND ELIZABETH JANE SNYDER, TRUSTEES OF THE SNYDER FAMILY TRUST DATED DECEMBER 17, 2014

C TAX MAP NO. 15-0002-0008-0000-0000 ASSESSED ACREAGE: 19.22 ACRES

SURFACE OWNERS: ONE WORLD ONE FAMILY NOW, INC.

MINERAL OWNERS: ONE WORLD ONE FAMILY NOW, INC.

O TAX MAP NO. 15-0002-0009-0000-0000 ASSESSED ACREAGE: 8.74 ACRES

SURFACE OWNERS: MAHATME, HIRA (A/K/A HIRA MAHATME-HARRIS)

> MINERAL OWNERS: MAHATME, HIRA

O TAX MAP NO. 15-0002-0013-0000-0000 ASSESSED ACREAGE: 94.04 ACRES

> SURFACE OWNERS: BOCK, JEFFERY T

MINERAL OWNERS: JEFFREY T. BOCK, SALLY A. HUNTER-BOCK

C TAX MAP NO. 15-0007-0021-0000-0000 ASSESSED ACREAGE: 59.80 ACRES

SURFACE OWNERS: RIEDMAN, THOMAS MERLIN, ET UX.

MINERAL OWNERS: GARY W. STROPE AND RICKEE J. STROPE. TRUSTEES OF THE STROPE FAMILY TRUST DATED MARCH 29, 2017

O TAX MAP NO. 15-0002-0013-0001-0000 ASSESSED ACREAGE: 40.21 ACRES

SURFACE OWNERS: PARSONS, THOMAS EVERETT, SR.

MINERAL OWNERS: RESOURCE MINERALS HEADWATER I, LP

O TAX MAP NO. 15-0002-0019-0000-0000 ASSESSED ACREAGE: 1.73 ACRES

SURFACE OWNERS: RIEDMAN, THOMAS MERLIN, ET UX.

MINERAL OWNERS: GARY W. STROPE AND RICKEE J. STROPE. TRUSTEES OF THE STROPE FAMILY TRUST DATED MARCH 29, 2017

TAX MAP NO. 15-0002-0019-0000-0000 ASSESSED ACREAGE: 0.27 ACRES

SURFACE OWNERS: WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS

MINERAL OWNERS: WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS

O TAX MAP NO. 15-0007-0022-0000-0000 ASSESSED ACREAGE: 48.77 ACRES

SURFACE OWNERS; BOCK, THOMAS A, ET UX., AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

MINERAL OWNERS: BRENT E, CAIN, DAVID S, CAIN, HERMAN D, LANTZ, THOMAS A, & PAMELA L, BOCK, THOMAS D, CAIN Sheffler & Company, Inc. ENGINEERING • SURVEYING

1712 Mount Nebo Road Sewickley, PA 15143

Phone: 412-219-4509 Email Info@shefflerCo.com

TAX MAP NO. 15-0007-0022-0001-0000 ASSESSED ACREAGE: 3.00 ACRES

SURFACE OWNERS: 06/14/2019 BURKLE, GERALD E., ET A. 06/14/2019

MINERAL OWNERS: DAVID SCOTT CAIN BRENT EUGENE CAIN THOMAS DEAN CAIN

O TAX MAP NO 15-0007-0023-0003-0000 ASSESSED ACREAGE: 17.02 ACRES

> SURFACE OWNERS: HASLAM, LORRAINE

MINERAL OWNERS: LORRAINE HASLAM

TAX MAP NO. 15-0007-0024-0000-0000 ASSESSED ACREAGE: 57.64 ACRES

SURFACE OWNERS: ISKCON NEW MATHURA VRINDABAN, INC.

> MINERAL OWNERS: ISKON NEW VRINDABAN, INC

O TAX MAP NO. 15-0007-0023-0000-0000 ASSESSED ACREAGE: 19.61 ACRES

SURFACE OWNERS: HASLAM, LORRAINE, ET AL., AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

> MINERAL OWNERS: LORRAINE & SRI HASLAM

C TAX MAP NO. 15-0007-0023-0002-0000 ASSESSED ACREAGE: 1.18 ACRES

> SURFACE OWNERS: HASLAM, LORRAINE, ET AL.

MINERAL OWNERS: LORRAINE & SRI HASLAM

C TAX MAP NO. 15-0007-0027-0000-0000 ASSESSED ACREAGE: 76.34 ACRES

SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX. AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

MINERAL OWNERS: WILLIAM E COFFIELD AND BRENDA K. COFFIELD

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	DI WEST LURGE	DATE: Febru			2019
WVDEP OFFICE OF OIL & GAS		API WELL #	47	051	02179H6A
601 57TH STREET	State Barris		STATE	COUNTY	PERMIT
CHARLESTON, WV 25304 Well Type: Oil Waste Disposal X Gas Liquid Injection	X Production X Storage	Deep Shallow			
WATERSHED WHEELING CREEK - UPPER OHIO RIVER	ELEVATION 1,264.94'				
COUNTY/DISTRICT MARSHALL / WEBSTER	QUADRANGLE MOUNE	SVILLE, WV			
SURFACE OWNER APP MINERALS LLC	ACREAGE: 183.31				
OIL & GAS ROYALTY OWNER APP MINERALS LLC					
				A	CREAGE 183.31
CLEAN OUT & REPLUG OTHER CHANGE TARGET FORMATION POINT PLEASANT	NEW FORMATION PLUE (SPECIFY) ESTIM	G AND ABANDON	VD: 11,395' ±		33' ±
WELL OPERATOR AMERICAN PETROLEUM PARTNERS C		NATED AGENT _ S 300 SUMMERS			
Address 4600 J. BARRY COURT, SUITE 310		ARLESTON		W Zip Co	de 25301
City CANONSBURG State PA Zip Code	City CH	ARLESTON	V	and which co	

C TAX MAP NO. 15-0007-0026-0002-000 ASSESSED ACREAGE: 6.75 ACRES

> SURFACE OWNERS: RICE, STEVEN T, ET UX.

MINERAL OWNERS: STEVEN T. & TAMMIE R. RICE

C TAX MAP NO. 15-0007-0024-0001-0000 ASSESSED ACREAGE: 56.78 ACRES

SURFACE OWNERS: ECO-VRINDABAN, INC., D/B/A GORAKSHYA-SEVA AND ENVIRONMENTAL EDUCATION TRUST OF AMERICA, INC.

MINERAL OWNERS: ECO-VRINDABAN, INC., D/B/A GORAKSHYA-SEVA AND ENVIRONMENTAL EDUCATION TRUST OF AMERICA, INC..

> O TAX MAP NO. 15-0007-0025-0000-000 ASSESSED ACREAGE: 10 ACRES

SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX.

MINERAL OWNERS: BETTY GENEVA COFFIELD. WILIAM E. & BRENDA K. COFFIELD

O TAX MAP NO. 15-0006-0016-0000-0000 ASSESSED ACREAGE: 77.4 ACRES

SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX.

MINERAL OWNERS: BETTY GENEVA COFFIELD, WILLIAM E, & BRENDA K. COFFIELD

O TAX MAP NO. 15-0007-0026-0001-0000 ASSESSED ACREAGE: 1.58 ACRES

> SURFACE OWNERS: RICE, STEVEN T, ET UX

MINERAL OWNERS: JENNIFER L. RICE

C TAX MAP NO. 15-0007-0030-0000-0000 ASSESSED ACREAGE: 40.00 ACRES

SURFACE OWNERS

MINERAL OWNERS: DAVID SCHRACK TAX MAP NO. 15-0007-0026-0000-0000 ASSESSED ACREAGE: 81.67 ACRES

SURFACE OWNERS: COFFIELD, BETTY GENEVA

MINERAL OWNERS: BETTY GENEVA COFFIELD, DEBRA & PAUL HOLDREN, JUDITH LAWHEAD, KIMBER LEE LAWHEAD

O TAX MAP NO. 15-0009-0001-0000-0000 ASSESSED ACREAGE: 44.00 ACRES

SURFACE OWNERS: SCHRACK, TROY D. & SHERRY L.

MINERAL OWNERS: GARNET RUBY BUSH AND KENNETH R. BUSH, CO-TRUSTEES OF THE GARNETT BUSH FAMILY TRUST, DATED APRIL 16, 2018 BRENT M. BUSH, LAWRENCE L. GILMORE EILEEN GILMORE MERCADO AND ALBERT MERCADO

> TAX MAP NO. 15-0009-0001-0001-0000 ASSESSED ACREAGE: 7.74 ACRES

> > SURFACE OWNERS: SCHRACK, DAVID W.

MINERAL OWNERS: GARNET RUBY BUSH AND KENNETH R. BUSH. CO-TRUSTEES OF THE GARNETT BUSH FAMILY TRUST, DATED APRIL 16, 2018 BRENT M. BUSH. LAWRENCE L. GILMORE. EILEEN GILMORE MERCADO AND ALBERT MERCADO Sheffler & Company, Inc. ENGINEERING • SURVEYING

1712 Mount Nebo Road Sewickley, PA 15143 Phone: 412-219-4509 Email: Info@shefflerCo.com

06/14/2019

(+) DENOTES LOCATION OF WELL ON UNITED STATES	OI WEST VIAC			REV - April 30,	2019
TOPOGRAPHIC MAPS	The Area Real Provide	OPERATOR'S	WELL #: RIV	VERRUN-5UH	
WVDEP OFFICE OF OIL & GAS		API WELL #	47	051	0217946A
601 57TH STREET	Sanate Stants - Unice		STATE	COUNTY	PERMIT
CHARLESTON, WV 25304         Well Type:       Oil         X       Gas         Liquid Injection	X   Production     Image	X Deep Shallow			
WATERSHED WHEELING CREEK - UPPER OHIO RIVER	ELEVATION:1,264.9				
COUNTY/DISTRICT MARSHALL / WEBSTER	QUADRANGLE MOU	NDSVILLE, WV			
SURFACE OWNER APP MINERALS LLC	ACREAGE:183.31				
OIL & GAS ROYALTY OWNER: APP MINERALS LLC					
				A	CREAGE 183.31
CLEAN OUT & REPLUG D OTHER CHANGE	E NEW FORMATION PL	JRE OR STIMULATE .UG AND ABANDON MATED DEPTH:T	VD: 11,395' ±		83' ±
TARGET FORMATION POINT PLEASANT			and the second s	T NI	
TARGET FORMATION POINT PLEASANT WELL OPERATOR: AMERICAN PETROLEUM PARTNERS	Of mild ( ) in the second	GNATED AGENT			
	Of mild ( ) in the second	GNATED AGENT _: ess: _300 SUMMERS			ode 25301

WW-6A1 (5/13)

#### 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	Summer Parties and	And the state of the state of the	100 A 100	
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See attached sheet

#### 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:	American Petroleum Partners Operating, LLC
By:	Braulio Silva
Its:	Vice President-Drilling
	Built Page 1 of

RiverRun-5UH ·	<b>Wellbore Tracts</b>
----------------	------------------------

Map #	LEASE #	LESSOR	CURRENT LESSEE	ROYALTY	MOL RECORDIN G INFORMA TION	TAX PARCEL 06/14/20
1	WV-MAR- 1192	APP Minerals LLC	American Petroleum Partners Operating, LLC	Not Less than 1/8th	984-392	15-2-16
3	WV-MAR- 0688	Harry B. Snyder & Elizabeth J. Snyder, Trustees of the Snyder Family Trust dated December 17, 2014	American Petroleum Partners Operating, LLC	Not Less than 1/8th	741-88	15-2-15
4	WV-MAR- 0688	Harry B. Snyder and Elizabeth Jane Snyder, Trustees of the Snyder Family Trust dated December 17, 2014	American Petroleum Partners Operating, LLC	Not Less than 1/8th	741-88	15-2-14
7	WV-MAR- 0094	Jeffrey T. Bock	American Petroleum Partners Operating, LLC	Not Less than 1/8th	978-559	15-2-13
7	WV-MAR- 0094	Sally A. Hunter-Bock	American Petroleum Partners Operating, LLC	Not Less than 1/8th	978-559	15-2-13
9	WV-MAR- 0032	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	930-466	15-2-13.1
11	WV-MAR- 1245	David S. Cain	American Petroleum Partners Operating, LLC	Not Less than 1/8th	905-21	15-7-22
11	WV-MAR- 1244	Brent E. Cain	American Petroleum Partners Operating, LLC	Not Less than 1/8th	905-19	15-7-22
11	WV-MAR- 1582	Herman D. Lantz	American Petroleum Partners Operating, LLC	Not Less than 1/8th	962-509	15-7-22
11	WV-MAR- 1142	Thomas A. Bock & Pamela L. Bock	American Petroleum Partners Operating, LLC	Not Less than 1/8th	905-25	15-7-22
11	WV-MAR- 1246	Thomas D. Cain	American Petroleum Partners Operating, LLC	Not Less than 1/8th	905-23	15-7-22
13	WV-MAR- 0340	Lorraine Haslam	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-494	15-7-23.3
15	WV-MAR- 0135	Lorraine Haslam & Sri Haslam	American Petroleum Partners Operating, LLC	Not Less than 1/8th	828-339	15-7-23
17	WV-MAR- 0728	William E. Coffield & Brenda K. Coffield	American Petroleum Partners Operating, LLC	Not Less than 1/8th	866-115	15-7-27
18	Pending	Steven T. Rice & Tammie R. Rice	American Petroleum Partners Operating, LLC	Not Less than 1/8th	871-413	15-7-26.2
23	Pending	David Schrack	American Petroleum Partners Operating, LLC	Not Less than 1/8th	659-37	15-7-30
24	WV-MAR- 1165	Betty Geneva Coffield	American Petroleum Partners Operating, LLC	Not Less than 1/8th	865-54	15-7-26
24	WV-MAR- 1171	Judith Lawhead	American Petroleum Partners Operating, LLC	Not Less than 1/8th	865-31	15-7-26
24	Pending	Debra Holdren & Paul Holdren	American Petroleum Partners Operating, LLC	Not Less than 1/8th	916-16	15-7-26

51-02179

Map #	LEASE #	LESSOR	CURRENT LESSEE	ROYALTY	MOL RECORDIN G INFORMA TION	TAX PARCEL 06/14/2(
24	WV-MAR- 1171	Kimber Lee Lawhead	American Petroleum Partners Operating, LLC	Not Less than 1/8th	865-31	15-7-26
25	WV-MAR- 1583	Garnet Ruby Bush and Kenneth R. Bush, Co- Trustees of the Garnett Bush Family Trust, dated April 16, 2018	American Petroleum Partners Operating, LLC	Not Less than 1/8th	988-463	15-9-1
25	WV-MAR- 1594	Lawrence L. Gilmore	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1027-644	15-9-1
25	WV-MAR- 1264	Brent M. Bush	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1028-1	15-9-1
25	WV-MAR- 1606	Eileen Gilmore	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1028-371	15-9-1

## **RiverRun-5UH - Wellbore Tracts**

Note: The ones that say pending belong to APP. Internally they were not assigned a lease number as of yet.

47 0 5 1 0 206/14/2019



Office of Oil & Gas 601 57<sup>th</sup> street, SE Charleston, WV 25304-2345 November 6, 2018

Re: Drilling Under Roads

To Whom It May Concern:

American Petroleum Partners Operating, LLC. has the right to drill, stimulate and produce wells that are drilled under the County and State Roads as designated on the plats.

Should you have any questions or desire additional information, please do not hesitate to contact me at regulatory@app-lp.com.

Sincerely,

Braulio Silva VP- Drilling

BS/djs

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification:

API No. 47- 051	-
<b>Operator's Well No.</b>	River Run 5 UH
Well Pad Name: Di	re Wolf-River Run

Notice has been given:

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

State:	West Virginia	UTM NAD 83	Easting:	531907.6420	
County:	Marshall	UTMINAD 85	Northing:	4422689.5140	
District:	Webster	Public Road Access:		McCreary's Ridge Road (CR 7)	
Quadrangle:	Moundsville	Generally used fa	arm name:	App Mineral, LLC	_
Watershed:	Upper Ohio South				

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

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

#### **Required Attachments:**

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

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

WW-6AC (1/12)

#### Certification of Notice is hereby given:

#### THEREFORE, I Braulio Silva

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

Well Operator:	American Petroleum Partners Operating, LLC	Address:	4600 J. Barry Court Suite 310
By:	Braulio Silva		Canonsburg, PA 15317
Its:	Vice President-Drilling	Facsimile:	na
Telephone:	1-724-338-8629	Email:	Regulatory@app-lp.com
E New 3 My Co	ONWEALTH OF PENNSYLVANIA NOTARIAL SEAL arline Bugay, Notary Public		orn before me this DM day of <u>NOVEMBUR 20</u> 18 BUGAY Notary Public xpires 1 33 3020

#### **Oil and Gas Privacy Notice:**

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

RECEIVED Office of Oil and Gas

JAN 2 5 2019

WV Department of Environmental Protection

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice: 123	19 Date Permit Application Filed: 1/23/19	
Notice of:		

$\checkmark$	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

$\checkmark$	PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

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

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

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: APP Mins LLC L	Name: Murray American Energy and Consolidation Coal Company	
Address: 4900 J. Barry Ct. Suite 310	Address: 46226 National Road	
Canonsburg, PA 15317	St. Clairsville, OH 43950	
Name:	COAL OPERATOR	
Address:	Name: The Ohio County Mine-Murray American Energy and Consolidation Coal Company	
Contraction and second second second second	Address: 46226 National Road	RECEIVED Office of Oil and Gas
SURFACE OWNER(s) (Road and/or Other Disturbance)	St. Clairsville, OH 43950	Office of Oil and Gas
Name: Mark Meberg, Et Ux & Mary P. Meberg	☑ SURFACE OWNER OF WATER WELL	UNI 0 5 2010
Address: 325 McCreary's Ridge	AND/OR WATER PURVEYOR(s)	JAN 2 5 2019
Moundsville, WV 26041	Name: See Attached List	in a presentment of
Name: David Huntt	Address:	WV Department of Environmental Protection
Address: 6906 Conley Street		EIMONIC
Baltimore, MD 21224	OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: None	
Name: None	Address:	
Address:		
	*Please attach additional forms if necessary	

51	0					
API NO. 47-051 OPERATOR WE			ne	1	4/2	019
OPERATOR WE	ELL NO.	Rive	r Ru	1'5 U	<b>T'</b>	.015
Well Pad Name:	Dire Wolf -	River	Run			

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice:	1/23/19 Date Permit Application Filed:	<u> (/23/</u>	[19
Notice of:			

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

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

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

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

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

SURFACE OWNER(s)     Name: Address:	COAL OWNER OR LESSEE Name: Address:	-
Name:	COAL OPERATOR	_
Address:	Name: Address:	RECEIVED
SURFACE OWNER(s) (Road and/or Other Disturbance)		
Name: Gorakshya Seva & ENV EDU/Eco-Vrindaban Inc/	□ SURFACE OWNER OF WATER WELL	JAN 2 5 2019
Address: Rd 3 Box 278 B	AND/OR WATER PURVEYOR(s)	JAN 20 LOIS
Wheeling, WV 26003	Name:	way Department Of
Name: Lakshmi D. Dove et al. William E & Irene M. Dove, Et al	Name: Address:	Environmental Protection
Address: Rd 3 Box 278 B		
Wheeling, WV 26003	OPERATOR OF ANY NATURAL GAS STO	RAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	-
Address:		_
	*Please attach additional forms if necessary	_

API NO 47 051 OPERATOR WE	0	Z	1	7	9 /14	<i>1</i> 010
<b>OPERATOR WE</b>	ELL	NO.	Rive	er Rur	15 UH	
Well Pad Name:						

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice: $\frac{1}{3}$ Date Permit Application Filed:	1/23	ß
Notice of:		•

$\checkmark$	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	<b>RECEIPT OR SIGNATURE CONFIRMATION</b>

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

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

SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name:	Name:	
Address:	Address:	
Name:	COAL OPERATOR	
Address:	Name:	
	Address:	
SURFACE OWNER(s) (Road and/or Other Disturbance	e)	RECEIVED     Office of Oil and Gas
Name: Joy Chicione	□ SURFACE OWNER OF WATER WELL	
Address: 61 Waymans Ridge	AND/OR WATER PURVEYOR(s)	JAN 2 5 2019
Moundsville, WV 26041	Name:	
Name: David & Lonna Hudson	Address:	WV Department of Environmental Protection
Address: 319 Oxen Drive		Environmental Protection
Moundsville, WV 26041	OPERATOR OF ANY NATURAL GAS STO	ORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:		
	*Please attach additional forms if necessary	

API NO. 47-051 OPERATOR WELL NO. River Run-50H4/20 Well Pad Name: Dire Wolf-River Run

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice: 1/23/19	Date Permit Application Filed: 1/23/16
Notice of:	

✓ F	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
1	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

$\checkmark$	PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	<b>RECEIPT OR SIGNATURE CONFIRMATION</b>

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

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

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name:	Name:	
Address:	Address:	
Name:	COAL OPERATOR	
Address:	Name:	
	Address:	
SURFACE OWNER(s) (Road and/or Other Disturbance)		RECEIVED Office of Oil and Gas
Name: Marian E. Phillips	SURFACE OWNER OF WATER WELL	
Address: 247 Oxen Drive	AND/OR WATER PURVEYOR(s)	JAN 2 5 2019
Moundsville, WV 26041	Name:	
Name: Norma C. Payne & Eric G. Dailey	Address:	WV Department of Environmental Protection
Address: 8794 Pasture Gate Lane		Environmental Protection
Baldwinsville, NY 13027	OPERATOR OF ANY NATURAL GAS S	TORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: None	
Name: None	Address:	
Address:		
	*Please attach additional forms if necessary	

#### 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 and Gas Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

#### Well Location Restrictions

### WV Department of

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

51 - 02179 API NO. 47-051 - 02179 OPERATOR WELL NO. River Run 5 UH Well Pad Name: Dire Wolf-River Run

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

JAN 2 5 2019

WV Department of Environmental Protection

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

WW-6A (8-13)

#### API NO. 475051 -- 0 2 1 7 9 OPERATOR WELL NO. River Run 5 UH Well Pad Name: Dire Wolf-River Run

#### 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.wy.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> 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

JAN 2 5 2019

WV Department of Environmental Protection WW-6A (8-13)



#### Notice is hereby given by:

Well Operator: American Petroleum Partners Operating, LLC

Telepho	none: 1-724-338-8629	
Email:	Regulatory@APP-LP.com	

Address: 46	600 J. Barry Court, Suite 310	
Canonsburg, F	PA 15317	
Facsimile:	na	

#### 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 <u>depprivacyofficer@wv.gov</u>.

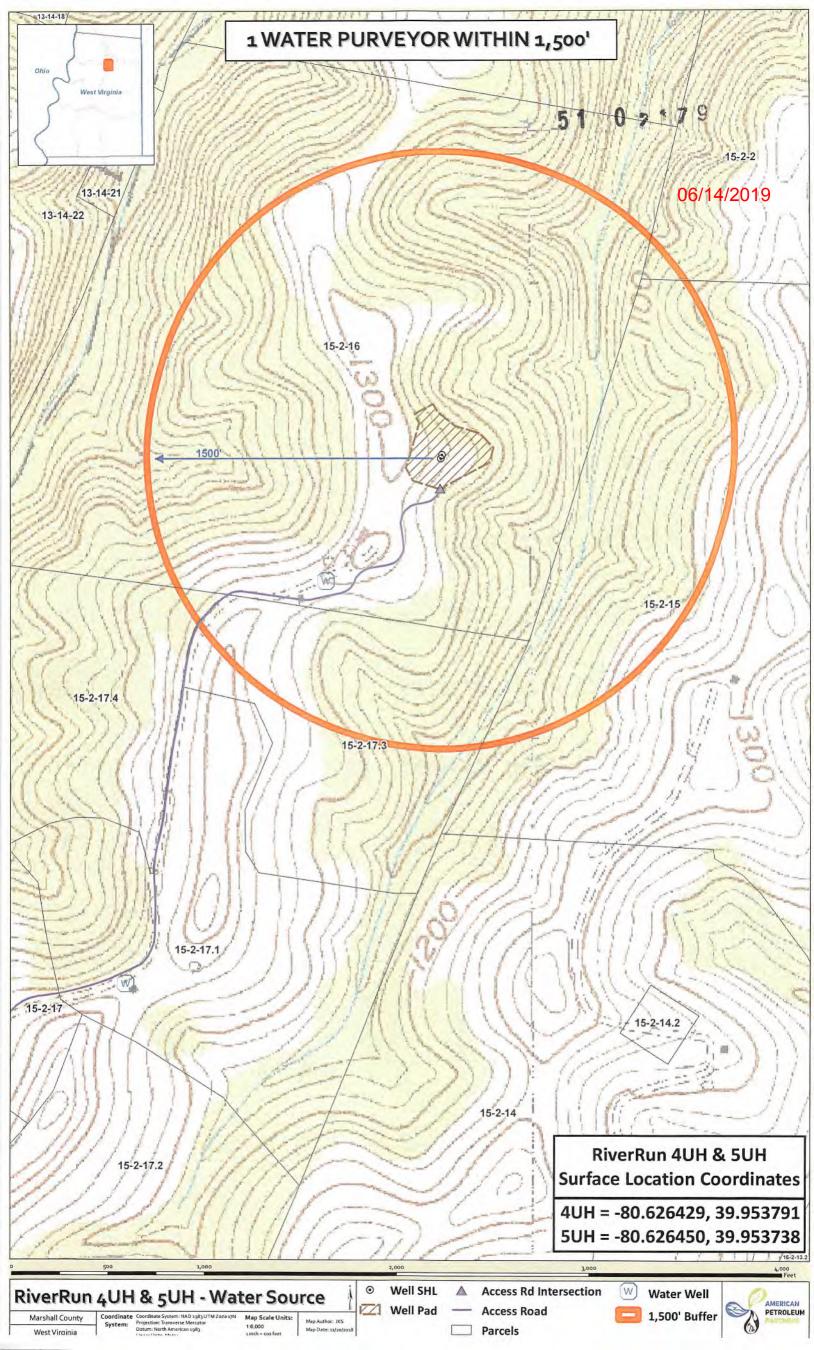
	TH OF PENNSYLVANI
	gay, Notary Public
<b>New Sewickley</b>	Twp., Beaver County
<b>My</b> Commission	Expires Jan. 23, 2020

Subscribed and sworn befor		November 2018.
Earlin	Bugas	Notary Public
My Commission Expires	1/23/20	20

RECEIVED Office of Oil and Gas

JAN 2 5 2019

WV Department of Environmental Protection



WW-70 Rev. 7/01

Affidavit of Personal Service

State Of Pennsylvania

51 02179

County Of Washington

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

(1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A)

(2) Application on Form WW-2(B) / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B)

(3) Plat showing the well location on Form WW-6, and

(4) Construction and Reclamation Plan on Form WW-9

--all with respect to operator's Well No. River Run located in Webster District, Marshall County, West Virginia, upon the person or organization named--

#### APP Minerals, LLC

by	de.	liverin	g th	ne same	in	Washington		Cou	nty,	Stat	e of	Pennsy	ylvania	
on th	he	1st	day	of July			, 20	in th	e mar	nner	speci	fied	below.	

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[ ] Handing it to him / her / or, because he / she / refused to take it when offered it, by leaving it in his / her / presence.

[ ] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership: [] Handing it to \_\_\_\_\_\_, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership: [] Handing it to the general partner, named\_\_\_\_\_\_, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:
[] Handing it to the corporation's employee / officer / director / attorney
in fact / named Braulio Silva

(Signature of person executing service)

Taken, subscribed and sworn before me this DM day of NOVEMBER My commission expires 1232020 Carlhis Buyey Notary Puplic

20 RECEIVED Office of Oil and Gas

IAN 2 5 2019

WV Department of Environmental Protection

COMMONWEALTH OF PENNSYLVANIA

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

NOTARIAL SEAL Earline Bugay, Notary Public New Sewickley Twp., Beaver County My Commission Expires Jan. 23, 2020 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES WW-6A3 (1/12)

E 4	- 0		1.2		-	
51	0	2	4	7	9	

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time	Requirement	Notice shall be prov	ided at	least SEVEN (7) d	iys but no more tha	n FORTY-FIVE	(45) days prior to		
entry Date of Noti	co: 7/17/18	Date of Plan	med E	atry: 7/25/18					
Delivery me	thod pursuant	to West Virginia Co	ode § 2	2-6A-10a					
D PERSO	NAL C	REGISTERED		METHOD OF DE	LIVERY THAT RI	EQUIRES A			
SERVIC		MAIL		RECEIPT OR SIG	NATURE CONFIR	RMATION			
on to the surf but no more to beneath such owner of min and Sedimen Secretary, wh enable the su	face tract to con- than forty-five tract that has f nerals underlyin t Control Manu- hich statement surface owner to	al and the statutes an shall include contact i obtain copies from th	require ry to: ( suant to unty ta: d rules nforma	ed pursuant to this a 1) The surface owned section thirty-six, a records. The notice related to oil and ga tion, including the a	rticle. Such notice or of such tract; (2) article six, chapter to se shall include a st s exploration and p	to any owner or le wenty-two of this atement that copic production may be	essee of coal seams code; and (3) any of the state Erosion obtained from the		
Notice is her	eby provided	to:							
100 0 C 4 7 11 1 1 1 1	CE OWNER(s)	)							
Name: APP Mi	nerals LLC				Name: Consol Mining Company LLC				
	0 J. Barry Ct, Suite 3	10	-		Address: 1000 Consol Energy Drive Canonsburg, PA 15317				
Canonsburg, PA 1	5317		÷	Canonsburg,	PA 15517				
Name:				MIN	ERAL OWNER(s)				
Address:			<		P Minerals LLC				
Name:		1		Address:	4600 J. Barry Ct, Suite 31	D			
Address:				Canonsburg,					
				*please atta	ch additional forms if no	cessary			
a plat survey State:	Vest Virginia C on the tract of West Virginia	ode § 22-6A-10(a), n land as follows:	otice is	Approx. Lati	ude & Longitude:	Latitude: 39.953868 &			
County:	Marshall	the second s		_ Public Road Watershed:	Access:	Oxen Dr. Upper Ohio South			
District: Quadrangle:	Webster				ed farm name:	APP Minerals LLC			
Copies of the may be obtain	state Erosion a	and Sediment Control ecretary, at the WV D	epartm	l and the statutes ar ent of Environment	d rules related to o I Protection headq	il and gas explorat uarters, located at	601 57 <sup>m</sup> Street, SE,		
Charleston, W obtained from	VV 25304 (30 <sup>2</sup> the Secretary	4-926-0450). Copies by visiting <u>www.dep</u>	of such	documents or addit	ional information r	elated to horizonta	al drilling may be RECEIVED Office of Oil and Gas		
Notice is he Well Operato	reby given by	the second second second second second		Address:	4600 J. Barry Ct, Suite	310	JAN 2 5 2019		
Telephone:	Ri American Petro 844-835-5277	leum Partners Operating, LLC			Canonsburg, PA 15317				
Email:	regulatory@app	-In com		Facsimile:	Search and a searc		WV Department of		
And the state of t	Ledingroi Merahh	in the second					Environmental Protection		

#### **Oil and Gas Privacy Notice:**

Email:

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.

#### Operator Well No. 51.0

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 1/03/19 Date Permit Application Filed: 1/23/ [\*

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: APP Minerals, LLC		Name:	
Address: 4600 J. Barry Court, Suite 310	A	Address:	
Canonsburg, PA 15317			

#### Notice is hereby given:

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

State:	West Virginia	LITMANAD 82 Eastin	g: 531907.6420
County:	Marshall	UTM NAD 83 North	ing: 4422689.5140
District:	Webster	Public Road Access:	McCreary's Ridge Road (CR 7)
Quadrangle:	Moundsville	Generally used farm na	ne: App Mineral, LLC
Watershed:	Upper Ohio South		

#### This Notice Shall Include:

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

				onice of Oli and Gas
Well Operator:	American Petroleum Partners Operating, LLC	Address:	4600 J. Barry Court Suite 310	1411 0 5 0010
Telephone:	1-724-338-8629		Canonsburg, PA 15317	JAN 2 5 2019
Email:	Regulatory@app-lp.com	Facsimile:	na	WV Department of
				Entry population of

Environmental Protection

Off.

#### **Oil and Gas Privacy Notice:**

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

WW-6A5 (1/12)

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

Operator Well No

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 1/23/19 Date Permit Application Filed: 1/23/19

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Joyce Chiclone	Name: David and Lonna Hudson	
Address: 61 Waymans Ridge	Address: 319 Oxen Drive	
Moundsville, WV 26041	Moundsville, WV 26041	

#### Notice is hereby given:

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

State:	West Virginia	LITMANAD 02 Ea	asting:	531907.6420	
County:	Marshall	UTM NAD 83 N	orthing:	4422689.5140	
District: Webster		Public Road Access	Public Road Access:		
Quadrangle:	Moundsville	Generally used farm	n name:	App Minerals, LLC	
Watershed:	Upper Ohio South				

#### This Notice Shall Include:

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

American Petroleum Partners OPerationg, LLC	Address:	4600 J. Barry Court, Suite 110	JAN 2 5 2019
724-338-8629		Canonsburg, PA 15317	0/11/20 2015
Regulatory@app-lp.com	Facsimile:	NA	WV Department of
	724-338-8629	724-338-8629	724-338-8629 Canonsburg, PA 15317

#### **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 <u>depprivacyofficer@wv.gov</u>.

Operator Well No.

#### STATE OF WEST VIRGINIA

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 1/23/19 Date Permit Application Filed: 1/23/19

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Mark K Meberg Et Ux and Mary P. Meberg	Name:
Address: 325 Mc Creary's Ridge	Address:
Moundsville, WV 26041	

#### Notice is hereby given:

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

State:	West Virginia	LUTM NAD 92	Easting:	531907.6420	
County:	Marshall	UTM NAD 83	Northing:	4422689.5140	
District:	Webster	Public Road Acc	ess:	McCreary's Ridge Road (CR 7)	
Quadrangle:	Moundsville	Generally used fa	arm name:	App Minerals, LLC	
Watershed:	Upper Ohio South				

#### This Notice Shall Include:

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

Well Operator:	American Petroleum Partners OPerationg, LLC	Address:	4600 J. Barry Court, Suite 110	RECEIVED
Telephone:	724-338-8629		Canonsburg, PA 15317	Office of Oil and Gas
Email:	Regulatory@app-lp.com	Facsimile:	NA	JAN 2 5 2019

#### **Oil and Gas Privacy Notice:**

WV Department of

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of durregationry 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 <u>depprivacyofficer@wv.gov</u>.

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 9 NOTICE OF PLANNED OPERATION

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: William E and Irene M Dove, et al/ Lakshmi D Dove, et al
Address: Rd 3 Box 278-B
Wheeling, WV 26003

#### Notice is hereby given:

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

State:	West Virginia	LITMINIAD RD E	asting:	531907.6420	
County:	Marshall	UTM NAD 83 N	orthing:	4422689.5140	
District:	Webster	Public Road Access		McCreary's Ridge Road (CR 7)	
Quadrangle:	Moundsville	Generally used farm	n name:	App Minerals, LLC	
Watershed:	Upper Ohio South				

#### This Notice Shall Include:

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

Well Operator:	American Petroleum Partners OPerationg, LLC	Address:	4600 J. Barry Court, Suite 110	Office of Oil and Gas
Telephone:	724-338-8629		Canonsburg, PA 15317	JAN 2 5 2019
Email:	Regulatory@app-lp.com	Facsimile:	NA	
				MA/ Daniel

WV Department of Environmental Protection

#### **Oil and Gas Privacy Notice:**

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

WW-6A5 (1/12)

Operator Well No

WV Department of

**Environmental Protection** 

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

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

-	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

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

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: David Huntt	Name:
Address: 6906 Conley Street	Address:
Baltimore, MD 21224	

#### Notice is hereby given:

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

State:	West Virginia	LITMNAD 82 Eas	sting:	531907.6420	
County:	Marshall	UTM NAD 83 No	orthing:	4422689.5140	
District:	Webster	Public Road Access:		McCreary's Ridge Road (CR 7)	
Quadrangle:	Moundsville	Generally used farm	name:	App Minerals, LLC	
Watershed:	Upper Ohio South				

#### This Notice Shall Include:

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

Well Operator:	American Petroleum Partners OPerationg, LLC	Address:	4600 J. Barry Court, Suite 110	RECEIVED Office of Oil and Gas
Telephone:	724-338-8629		Canonsburg, PA 15317	JAN 2 5 2019
Email:	Regulatory@app-lp.com	Facsimile:	NA	JAN & U LUIS
				and the second se

#### 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 <u>depprivacyofficer@wv.gov</u>.

WW-70 Rev. 7/01 06/14/2019

51-02179

Affidavit of Personal Service

State Of Pennsylvania

County Of Washington

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of --

(1) Notice on Form WW-2(A) /

Notice on Form WW-2(A) \_/ WW-3(A) \_/ WW-4(A) \_/ WW-5(A) \_/ WW-6(A) Application on Form WW-2(B) \_/ WW-3(B) \_/ WW-4(B) \_/ WW-5(B) \_/ WW-6(B) Plat showing the well location on Form WW-6, and / WW-6(B) (2)

(3)

Construction and Reclamation Plan on Form WW-9 (4)

--all with respect to operator's Well No. River Run located in Webster District, Marshall County, West Virginia, upon the person or organization named--

#### APP Minerals, LLC

by delivering the same in	Washington	County, State of Pennsylvania	
on the 1st day of July	, 20	in the manner specified below.	

[COMPLETE THE APPROPRIATE SECTION]

For an individual: [ ] Handing it to him / her / or, because he / she / refused to take it when offered it, by leaving it in his / her / presence.

[ ] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership: [ ] Handing it to , a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership: [ ] Handing it to the general partner, named , or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation: [] Handing it to the corporation's employee / officer / director / attorney / named Braulio Silva in fact

(Signature of person executing service)

Taken, subscribed and sworn before me this  $\partial H day$  of My commission expires 1237000

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

Pub Notary ic

RECEIVED Office of Oil and Gas

2018

JAN 2 5 2019

WV Department of Environmental Protection

COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Earline Bugay, Notary Public New Sewickley Twp., Beaver County My Commission Expires Jan. 23, 2020 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

#### OIL AND GAS ROAD 51 02179 DISTRICT WIDE BONDING AGREEMENT For DOH District \_\_6\_\_\_

THIS AGREEMENT, executed in duplicate, made and entered into this  $\frac{4}{2}$  day of  $\frac{1}{2}$  day of TRANSFORTATION, DIVISION OF HIGHWAYS, hereinafter called "DEPARTMENT," and AMERICAN PETROLEUM PARTNERS OPERATING, hereinafter called "COMPANY."

#### WITNESSETH:

WHEREAS, Company has horizontal gas well drilling operations in certain areas of West Virginia; and

WHEREAS, the Department believes that the frequent and repetitive use of certain sections of highways in the State by Company, its contractors, agents, independent contractors or suppliers of drilling materials or drilling equipment, and employees contributes to increased wear and tear to public roads in the state road system in the State, including local roads ("State Owned Roads"); and,

WHEREAS, the Department and Company have entered into this Agreement to satisfy the requirements of the Department's policy entitled "Oil & Gas Road Policy" dated January 3, 2012, as issued by Paul A. Mattox, Jr., Secretary of Transportation / Commissioner of Highways, and any subsequent related policies, hereinafter called "Policy", a copy of which is made a part of this Bonding Agreement and is identified as Attachment 1.

NOW, THEREFORE, for and in consideration of the mutual agreements hereinafter set forth, the parties agree as follows:

I. For purposes of this Agreement, "Project Transportation Usage" of the Company shall be understood to mean use of one or more State Owned Roads for the delivery and removal of personnel, drilling materials and drilling equipment at the site or location of one or more of Company's horizontal gas well pad locations. To the extent reasonably practical, prior to commencing use of a State-Owned Road for Project Transportation Usage after January 1, 2011, the Company shall submit to the Department a section or sections of current official WVDOH County Highway maps identifying the exact location of the proposed project and the State-Owned Roads that the Company will utilize for the Project Transportation Usage.

II. Company and Department shall, within 14 days of the Company's submittal, agree to a list of these sections of State Owned Roads, hereinafter called "Project Roads List", to be utilized for each of Company's projects, identified by route number and milepost; at a time to be mutually agreed to by the parties prior to initial commencement of Project Transportation Usage of a particular State Owned Road on a Project Roads List, the Company and Department will jointly review the condition of the roads and bridges on the Project Roads List. The Department will document the road type and surface condition and general right-of-way width of each section of road on the Project Road List. Either party may supplement this documentation with photographs, video or other evidence of the present condition of the road surface, shoulders, ditches, culverts, bridges or other structures or appurtenances of roads on the Project Road List, as well as approaches to the roads, utility facilities located within or along the right-of-way, or any other condition, including third-party activities, that may affect the duties and responsibilities of the parties under this Agreement. A copy of any such documentation must be made and provided to the other party within 10 business days after the joint review of the roads on the Project Roads List.

III. Department shall issue a Project Agreement or Project Permit, as appropriate, to Company for its use of State Owned Roads. The Project Agreement or Project Permit may include any improvements required of Company prior to, during or after Project. The Company shall complete all improvements as required by the Project Agreement or Project Permit. If

1

RECEIVED Office of Oil and Gas

JAN 2 5 2019

WV Department of Environmental Protection

#### 06/14/2019

Company fails to complete the improvements to the satisfaction of the Department, the Department may complete the improvements, or have the improvements completed, and Company shall be responsible for all costs and expenses incurred by the Department in completing the improvements.

IV. In the Project Agreement/Project Permit, the Department shall not require the use of State Owned Roads other than the roads proposed by Company unless the Department has safety concerns as to the Company's proposed roads. A failure to agree on roads that may otherwise be lawfully used for a particular Project Transportation Usage shall result in the designation of the State-Owned Roads proposed by Company, with milepost determinations as designated by Department. This Agreement shall only cover portions of State Owned Roads designated on the Project Roads List.

V. For the duration of Company's Project Transportation Usage of the Stated Owned Roads on the Project Roads List, whether by the Company, its contractors (while working on behalf of Company), agents, independent contractors or suppliers of drilling materials or drilling equipment, or employees, the Company agrees to pay for all maintenance and repair costs incurred by the Department to repair areas of the State Owned Roads included in the Project Roads List that have been damaged by Company's Project Transportation Usage. The determination of what maintenance and repairs are necessary shall be made solely by the Department. The Department shall keep a record of all labor performed by Department employees and contractors for such maintenance and repairs and shall send an invoice for the same to Company.

VI. Company shall be responsible for the cost of all maintenance and repairs necessary to put the existing roadways, bridges and appurtenances on the Project Roads List utilized for the Project Transportation Usage in the condition that existed immediately prior to the Project Transportation Usage. The determination of what maintenance and repairs are necessary shall be made solely by the Department. Company shall not be required to pay for maintenance or repairs to put any areas of such roadways, bridges and appurtenances on the Project Roads List in a condition better than the condition that existed immediately prior to the Project Transportation Usage, except any improvements required by the Project Agreement or Project Permit.

VII. Company shall notify the Department in writing of Company's final completion of Project Transportation Usage for particular roadways, bridges and appurtenances on the Project Roads List. Within 14 days after its receipt of written notification of the completion of the Project Transportation Usage for all roads on a Project Roads List, the Department will review the condition of the roadways, bridges and appurtenances on the Project Roads List actually utilized for the Project Transportation Usage and advise Company of any final repairs reasonably necessary to leave these roads, bridges and appurtenances in a condition deemed by Department to be equal to their condition prior to commencement of Project Transportation Usage; and, upon completion of all such final repairs by or on behalf of Company and acceptance by Department, the Company shall be released from all further liability for maintenance or repairs to roads, bridges, or appurtenances on said Project Roads List. Any maintenance or repair work under the Project Agreement/Project Permit for roads, bridges or appurtenances on the Project Roads List may be performed by a contractor directly chosen by the Company as approved by the Department, the Department's workforce, or a private contractor hired by the Department through the public bid process in accordance with state law, all of which work shall be subject to the standards and specifications of the Department If the Company fails to restore the roadways, bridges and appurtenances identified by the Department to their condition prior to the commencement of the Project Transportation Usage, the Department may restore the roadways, bridges and appurtenances and the Company shall be responsible for all costs and expenses incurred by Department for such restoration.

VIII. In order to ensure performance of Company's performance and payment obligations under this Bonding Agreement, the Company shall post a corporate surety bond, hereinafter called "Master Bond", with the Department named as the beneficiary, which form of bond shall be subject to the consent of the Department, not to be unreasonably withheld. The amount and form of the bond shall be in accordance with the Policy as set forth above. However, the amount of the Master Bond does not limit the amount of claims that may be made by the Department against the Company under this Bonding Agreement. The Company shall

2

RECEIVED Office of Oil and Gas

JAN 2 5 2019

WV Department of Environmental Protection

#### 06/14/2019

provide the Master Bond to the Department within one (1) month after the execution of this Bonding Agreement. The Master Bond shall secure the good faith performance of all payment obligations of Company under the terms of this Bonding Agreement respecting the roads, bridges and appurtenances on the Project Roads List for each Project Transportation Usage undertaken by the Company, and shall remain in effect until termination of this Agreement. Company shall not be obligated to provide any other bonds, sureties, or other guarantees of performance to the Department for Company's use of State Owned Roads, except as required in this Agreement.

IX. Company shall maintain Commercial General Liability Insurance in the amount of two million dollars, with a minimum coverage of one million dollars per occurrence, for personal injury or death to persons, or for property damage, resulting from Company's Project Transportation Usage and shall present evidence of such insurance to Department upon request. The Department shall be named as an additional insured under all policies of insurance required by this Agreement.

X. All contractors and subcontractors, hired by Company to perform any work or maintenance on a State-Owned Road shall furnish evidence of having at least the minimum amounts of insurance required of the Contractor in Section 103.6 through and including Section 103.6.5 of the "West Virginia Division of Highways, Standard Specifications, Roads and Bridges, Adopted 2017," and supplements thereto. Company shall also require that any contractor(s) and subcontractor(s) have a current license and be licensed to conduct business in West Virginia. The Developer shall also require that its contractor(s) and subcontractor(s) include the Division as an additional insured on all policies of insurance, except worker's compensation.

XI. Company's usage of State Owned Roads under the Project Agreement/Project Permit shall comply with all applicable Federal, State and local laws and regulations including, but not limited to, to the extent applicable, the National Environmental Policy Act, Section 404 of the Clean Water Act, Section 106 of the National Historic Preservation Act, Rare, Threatened and Endangered Species Act, Section 401 Water Quality Certification, and hazardous waste requirements. Further, upon reasonable written request of Department, Company shall furnish Department with acceptable documentation of such compliance which is in the possession of the Company.

XII. To the fullest extent permitted by law, Company at all times does, and shall, assume all risks of damage to its property, and property of others, and injury or death to all persons (including, but not limited to, any employee or agent of Company, Contractor or Subcontractor) resulting directly, indirectly or otherwise by (a) the actions or omissions of Company, any Contractor or any Subcontractor, or their respective agents and employees, (b) by any condition of their property, (c) by any failure of Company, any Contractor or any Subcontractor, or their respective agents and employees, to comply with any applicable law, rule, regulations or order of any governmental authority, or to comply with any provision of this Agreement, or (d) by any other cause related to Company's, any Contractor's or any Subcontractor's performance of Project Transportations Usage activities or any work undertaken pursuant to this Agreement, including but not limited to, any construction, repair or maintenance activities required by this Agreement. Company at all times hereby fully assumes the risk of and shall defend, indemnify and hold harmless the Department, its officers, employees and agents (the Department and such persons collectively "Department's Indemnified Persons"), and shall reimburse Department's Indemnified Persons for, from and against each and every demand, claim, suit, loss (which shall include any diminution in value), liability, damage, cost and expense (including, without limitation, interest, fines, penalties, and investigation, and any and all reasonable fees, disbursements and expenses of attorneys, accountants and other professional advisors) (collectively, "Losses") imposed on, incurred by or asserted against the Department's Indemnified Persons, (individually or jointly) directly or indirectly, relating to, resulting from, or arising out of the Company's, any Contractor's or any Subcontractor's performance of Project Transportation Usage activities or any work undertaken pursuant to this Agreement, including but not limited to, any construction, repair or maintenance activities required by this Agreement. These covenants of indemnity shall survive cancellation, termination, or expiration of this Agreement, Company hereby acknowledges that the allocation of risk set forth in this provision of the Agreement is a part of the consideration to be provided to Department by Company for performance of this Agreement.

3

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

#### 06/14/2019

Upon written request by any Department Indemnified Person, Company shall defend the same (if requested by any Department Indemnified Person, in the name of the Department Indemnified Person) by attorneys and other professionals approved by the Department Indemnified Persons. Notwithstanding the foregoing, any Department Indemnified Persons may, in their sole and absolute discretion, engage their own attorneys and other professionals to defend or assist them, and, at the option of Department Indemnified Persons, their attorneys shall control the resolution of any claim or proceeding, provided that no compromise or settlement shall be entered without Company's consent, which consent shall not be unreasonably withheld. Upon written demand, Company shall pay or, in the sole and absolute discretion of the Department Indemnified Persons, reimburse, the Department Indemnified Persons for the payment of reasonable fees and disbursements of attorneys, accountants and other professional advisors in connection therewith.

XIII. If a provision of this Agreement is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability of any other provision of this Agreement; or the validity or enforceability in other jurisdictions of that or any other provision of this Agreement.

XIV. Department shall give Company a minimum of 30 days written notice of default under the terms of this Bonding Agreement and the opportunity to cure this default during such 30-day period. If a default is not cured to the satisfaction of Department, or provision acceptable to Department is not made for a cure, Department may then elect to terminate this Bonding Agreement in whole or in part, and may in addition exercise its rights under the Master Bond or seek any other lawful relief available. Company may terminate this Bonding Agreement upon 30 days written notice to Department for any reason. In the event Company terminates this Agreement for any reason, it shall be liable for the repair and maintenance costs set forth above for prior Project Transportation Usage.

XV. Nothing herein shall be construed to mean that Company shall have any jurisdiction or control over any public roads in the state road system.

XVI. Company, its contractors, agents, employees and suppliers shall at all times be subject to applicable provisions of state and federal law, including without limitation laws requiring operation of vehicles in accordance with legal size and weight restrictions and posted weight limits. Oversize/overweight permits for vehicle or loads not otherwise conforming with law must be obtained in accordance with law; Department agrees to work in good faith with Company to review and grant (where authorized by law) such permits in a timely manner upon request by Company.

XVII. Any and all matters in dispute between the parties to this Agreement, whether arising from or relating to the Agreement itself, or arising from alleged extra-contractual facts prior to, during, or subsequent to the agreement, including, without limitation, fraud, misrepresentation, negligence or any other alleged tort or violation of the contract, shall be governed by, construed and enforced in accordance with the laws of the State of West Virginia, regardless of the legal theory upon which such matter is asserted.

XVIII. This Bonding Agreement shall be binding upon the successors and assigns of each party hereto.

IN WITNESS, WHEREOF, the parties hereto have caused this Bonding Agreement to be executed by their duly authorized officers effective as of the date first above written.

> WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

0 2 4 7 9

ash Nanberry

Bond # SUR 0033186 SW-2017-0006 51-02179

re

06/14/2019

IUDA Aaron C. Gill¢spie, PE State Highway Engineer

0 Witness COLLIN KING

·Braulio Silva JUN By: Drilling VP Title:

(To be executed in duplicate)

By:

Hoyto

APPROVED AS TO FORM THIS 3<sup>12</sup> DAY <u>109</u>,2017 ATTORNEY LEGAL DIVISION WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS #1705/3

> RECEIVED Office of OiLand Gas JAN 2 5 2019 WV Department of Environmental Protection

5

#### 4705 021/9

06/14/2019



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

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

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

November 28, 2018

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Riverrun Pad, Marshall County Riverrun 5UH Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0543 which has been issued to American Petroleum Partners for access to the State Road for a well site located off of Marshall County Route 7 SLS.

The operator has signed a DISTRICT WIDE 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 October 1, 2018.

Very Truly Yours,

Dary K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Bill Dorsch American Petroleum Partners CH, OM, D-6 File

Office of Oil and Gas

# Hydraulic Fracturing Fluid Product Component Information Disclosure

0 2179

51

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass 6/14/20
Water	Operator	Carrier/Base Fluid			00/ 4/20
			Water	7732-18-5	100.00000
Terraprop Plus 30/50	Baker Hughes	Proppant			
			Aluminum Oxide	1344-28-1	100.00000
			Amorphous Silica	7631-86-9	20.00000
			Titanium Dioxide	13463-67-7	5.00000
			Iron Oxide	1309-37-1	5.00000
Sand (Proppant)	Stingray	Proppant			
			Silica Substrate	14808-60-7	87.00000
ProLite 40/70	Imerys	Proppant			
		1	Mullite	1302-93-8	70.00000
			Cristobalite	14464-46-1	30.00000
hidesetteris Asid	FTO	A.1.1	Amorphous Silica	7631-86-9	15.00000
Hydrochloric Acid (HCI)	FTSI	Acid			
SI-117	WST	Deale Jabibitas	Hydrogen Chloride	7647-01-0	15.00000
GETT	1401	Scale Inhibitor			
			Copolymer of Maleic and Acrylic Acid	52255-49-9	70.00000
			Ethylene glycol	107-21-1	40.00000
			DETA phosphonate	15827-60-8	20.00000
	-		Hexamethylene Triamine Penta	34690-00-1	20.00000
			(Methylene Phosphonic Acid)	54030-00-1	20.00000
			Phosphino carboxylic acid	71050-62-9	20.00000
K-BAC 1020 DBNPA	WST	Bacteriacide	polymer		
COAC TOZO DENPA	10031	Bacteriacide	Polyethylene glycol	25322-68-3	50 00000
			Water	7732-18-5	50.00000
			2,2-Dibromo-3-	10222-01-2	30.00000
			nitrilopropionamide	10222-01-2	21.00000
NEFE-180	Stingray	Acid Inhibitor/Iron Control			
		A SOUND	Acetic Acid	64-19-7	60.00000
			Methanol	67-56-1	30.00000
			2-Ethylhexanol	104-76-7	7.50000
			Cocunut Oil Acid diethanolamine	68603-42-9	3.00000
			Alcohols, C15-15, ethoxylated	68951-67-7	3.00000
			Olefin	64743-02-8	3.00000
			Fatty Acids, tall oil	61790-12-3	3.00000
A CONTRACTOR OF A			2-Propyn-1-ol	107-19-7	3.00000
RA-409	Stingray	Friction Reducer			
			Copolymer of 2-propenamide	Proprietary	30.00000
			Distillates (petroleum),	64742-47-8	20.00000
			Hydrotreated Light	00751 10 0	
			Alcohols, C12-16, Ethoxylated	68551-12-2	2.00000
			Alkanolamide	93-83-4	2.00000
SL-30	Stingray	pH Control	Ammonium Chloride	12125-02-9	1.00000
02.00	oungray	priconuor	Sodium Hydroxide	1310-73-2	30.00000
VG-36 GELLING	Halliburton	Gelling Agent	Couldin Hydroxide	1010-70-2	50,00000
			Guar gum	9000-30-0	100.00000
P BREAKER	Halliburton	Breaker			
		Dioditor	Sodium persulfate	7775-27-1	100.00000
OSURF-300D	Halliburton	Non-ionic Surfactant	- summer per summer	1110-61-1	100.00000
		non-ronic ourractant	Ethanol	64-17-5	60.00000
			Heavy aromatic petroleum	64742-94-5	30.00000
		-			
			Naphthalene	91-20-3	5.00000
			Poly(oxy-1,2-ethanediyl), alpha-	127087-87-0	5.00000

Environmental Protection

# FOR

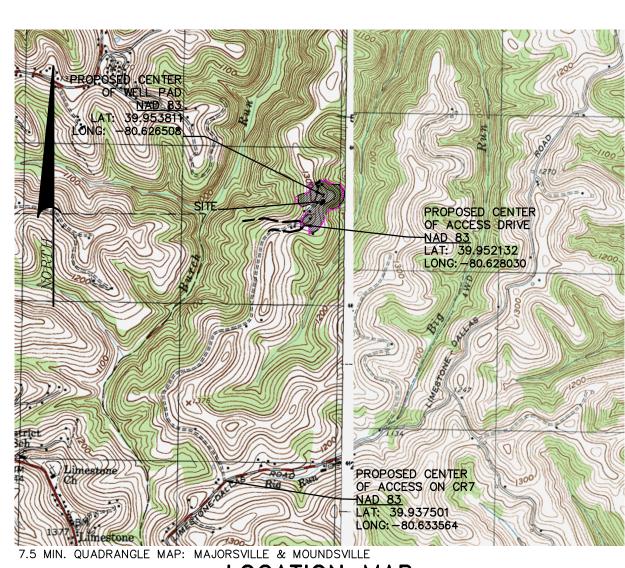
# **EROSION & SEDIMENT CONTROL PLAN DIRE WOLF - RIVERRUN PAD** WEBSTER TAX DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

### **GENERAL NOTES**

- 1. THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR THE PROJECT AREA WERE PROVIDED BY OPERATING, LLC IN APRIL 2018.
- 2. PROPERTY BOUNDARIES, LANDOWNER INFORMATION AND ROAD NETWORKS SHOWN ON THIS PLAN ARE BASED ON AVAILABLE COUNTY GIS DATA AND BOUNDARY SURVEY PROVIDED BY APP
- OPERATING LLC. 3. EXISTING STRUCTURES, TREE LINES AND ROADWAYS HAVE BEEN LOCATED PER AVAILABLE ONLINE AERIAL PHOTOGRAPHY AND SURVEY PROVIDED BY APP OPERATING LLC.
- THE HORIZONTAL DATUM IS WEST VIRGINIA STATE PLANE. NORTH AMERICAN DATUM 1983
- (WV83-NF), NORTH ZONE. THE VERTICAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM 1983
- (WV83-NF) WHICH ORIGINATES FROM FIELD RUN TOPOGRAPHIC SURVEY.
- 6. À WETLANDS SURVEY WAS PERFORMED BY RETTEW ASSOCIATES ON APRIL AND MAY 2018 THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, PRIOR TO CONSTRUCTION, ALL NECESSARY
- CONSTRUCTION PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL GOVERNMENT AGENCIES. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND
- REGULATIONS, INCLUDING ALL SAFETY REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREVENT ANY DAMAGE TO PRIVATE PROPERTY, PROVIDE ACCESS TO ALL DRIVES DURING CONSTRUCTION, NOTIFY UTILITY COMPANIES AND VERIFY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, AND PROTECT ALL UTILITIES TO REMAIN IN SERVICE.
- 10. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS GOVERNING EXCAVATION. THE CONTRACTOR SHALL PROVIDE DETAILED PLANS AND SPECIFICATIONS FOR TRENCH SAFETY SYSTEMS THAT COMPLY WITH APPLICABLE LAWS GOVERNING EXCAVATION WHEN APPLICABLE TO THE PROJECT. THESE PLANS SHALL BE SEALED BY AN ENGINEER EXPERIENCED IN THE DESIGN OF TRENCH SAFETY SYSTEMS AND LICENSED BY THE STATE IN WHICH THE WORK IS OCCURRING. CONTRACTOR SHALL SUBMIT THE PLAN TO APP OPERATING, LLC PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS FOR WORK RELATED TO EXCAVATION.
- 11. ANY DAMAGES THAT MAY OCCUR TO PROPERTY OR EXISTING IMPROVEMENTS RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE PROPERTY OR IMPROVEMENTS WERE IN PRIOR TO THE DAMAGES. IN THE EVENT OF SUCH DAMAGE, CONTRACTOR SHALL NOTIFY APP OPERATING, LLC IMMEDIATELY PRIOR TO THE RESTORATION. THIS RESTORATION SHALL BE SUBJECT TO THE OWNER'S APPROVAL; MOREOVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. 12. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE CLEAR OF ALL
- TRASH AND DEBRIS. 13. PRIOR TO ANY EARTHWORK EXCAVATION OR TOPSOIL REMOVAL, ALL EROSION CONTROL MEASURES DETAILED ON THESE DRAWINGS SHALL BE PROPERLY INSTALLED. ADDITIONAL EROSION
- CONTROL MEASURES MAY BE REQUIRED BY APP OPERATING, LLC AT ANY TIME. 14. THE CONTRACTOR SHALL INSPECT STABILIZATION AND EROSION CONTROL MEASURES AT A MINIMUM OF ONCE EVERY 7 DAYS OR WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES DURING CONSTRUCTION.
- 15. SILT FENCE AND SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL RE-VEGETATION HAS BEEN COMPLETELY ESTABLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS UNTIL PROJECT COMPLETION
- 16. DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED UNTIL THE CONTRACTOR IS RELEASED FROM THE JOB SITE. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RESEEDED OR
- RE-SODDED, IF NECESSARY. 17. FOR DESIGN PURPOSES, THE PAD CROSS SECTION AND ROAD SECTION WAS ASSUMED TO BE
- 16". THIS IS DUE TO SETTLEMENT OF THE CRUSHER RUN INTO THE R-3 ROCK. 18. A GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED. SEE SHEET 13 FOR TYPICAL BONDING (TOE BENCH DETAIL).
- 19. PRIOR TO FILL PLACEMENT, EXISTING SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6", MOISTURE ADJUSTED TO OPTIMUM, AND RE-COMPACTED TO THE SAME DENSITY AND MOISTURE CONTENT AS THE PROPOSED FILL.
- 20. IMPORTED SELECT FILL IS DEFINED AS UNIFORMLY BLENDED SANDY CLAY TO CLAYEY SAND WITH A LIQUID LIMIT (LL) OF LESS THEN 35 PERCENT AND A PLASTICITY INDEX (PI) OF BETWEEN 6 AND 15. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE THICKNESS. ROCK FILL LIFTS SHALL BE NO GREATER THAN 36". FILLS WILL BE FREE OF OBJECTIONABLE MATERIAL, NOTHING LARGER THAN 6". LIFT THICKNESSES WILL BE 12" MAXIMUM, NOTHING FROZEN OR WET.
- 21. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D 698). IN CONJUNCTION WITH THE COMPACTING OPERATION, FILL MATERIAL SHALL BE BROUGHT TO OPTIMUM MOISTURE CONTENT.









# OPERATOR

AMERICAN PETROLEUM PARTNERS OPERATING, LLC 4600 J. BARRY COURT SUITE 310 CANONSBURG, PA 15317

# LIMITS OF DISTURBANCE

PAD	12.41 ACRES
ROAD	2.59 ACRES

TOTAL 14.7 ACRES

PER LAND OWNER APP MINERALS, LLC ACRES 15.0



AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY ÉARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

DATE: <u>5-31-2018</u> TICKET #: <u>1815162355</u>

# 06/14/2019

SOILS CLASSIFICATION

CmD: CULLEOKA-DORMANT COMPLEX, 15 TO 25% SLOPES DsF: DORMANT-CULLEOKA COMPLEX, 35 TO 70% SLOPES, VERY STONY

# CUT & FILL

CUT (SOIL)	<u>WELL PAD</u>	ACCESS DRIVE	<u>SITE</u>
	+ 99,245 CY	+ 1,214 CY	+100,459 CY
FILL	- 75,976 CY	<u>– 5,501 CY</u>	<u>- 81,477 CY</u>
NET	+ 23,269 CY	– 4,287 CY	= 18,982 CY
STONE	+ 5,557 CY	+ 754 CY	= 6,311 CY
<u>TOPSOIL</u>	- <u>5,303 CY</u>	<u>– 855 CY</u>	<u>= -6,158 CY</u>
NET	+ 23,523 CY	– 4,388 CY	= 19,135 CY

1. THE TOPSOIL DEPTH FOR THE ACCESS DRIVE IS APPROXIMATELY 6.0". THE TOPSOIL DEPTH FOR THE PAD IS ASSUMED 6.0". 2. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY EXISTING GRADES AND VERIFY EARTHWORK VOLUMES, METHODS AND PROCEDURES. ANY ISSUES ARE TO BE BROUGHT TO THE ENGINEER'S AND OWNER'S ATTENTION PRIOR TO COMMENCEMENT OF WORK.

3. THE EXCESS TOPSOIL AND SUBSOIL WILL BE STORED IN THE DESIGNATED FILL STOCKPILES AS SHOWN ON THE PLANS.

# LIST OF DRAWINGS

1 OF 16 COVER SHEET & GENERAL NOTES
2 OF 16 ENLARGED LAYOUT PLAN
3 OF 16 EROSION & SEDIMENT CONTROL PLAN
4 OF 16 WV DEP E&S PLAN
5 OF 16 OXEN DRIVE PROFILE
6 OF 16 OXEN DRIVE PROFILE
7 OF 16 ACCESS DRIVE PROFILE
8 OF 16 CROSS SECTIONS PLAN VIEW
9 OF 16 CROSS SECTIONS - ACCESS DRIVE
10 OF 16 CROSS SECTIONS - PAD
11 OF 16 RECLAMATION PLAN
12 OF 16 EVACUATION ROUTE PLAN
13 OF 16 EVACUATION ROUTE PLAN - USGS
14 OF 16 NOTES & DETAILS
15 OF 16 DETAILS
16 OF 16 DETAILS

