west virginia department of environmental protection

Office of Oil and Gas
$60157^{\text {th }}$ 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 <br> 4600 J. BARRY COURT SUITE 310

CANONSBURG, PA 15317

## Re: Permit approval for RIVERRUN-10UH

47-051-02180-00-00

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.


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
$60157^{\text {th }}$ Street SE, Charleston, WV 25304
Barry K. Lay, Chairman
304-926-0499 Ext 1274
May 1,2019

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304
RE: Application for Deep Well Permit - API \#47-051-02180
COMPANY: American Petroleum Partners Operating, LLC
FARM: $\underline{\text { APP Minerals, LLC RiverRun-10UH }}$
COUNTY: Marshall DISTRICT: Webster QUAD: Moundsville
The deep well review of the application for the above company is Approved to drill to the Point 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, 47-051-02179, 47-051-02134, 47-051-02106, 47-051-02118
4. Provided a plat showing that the proposed location is a distance of $400+$ 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.


Susan Rose
Administrator

## STATE OF WEST VIRGINIA

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

1) Well Operator: American Petroleum Partnt | 494521257 | Marshall | Webster | Moundsville |  |
| :--- | :--- | :--- | :--- | :--- |
| Operator ID |  |  |  | County |
2) Operator's Well Number: RiverRun-10 UH Well Pad Name: Dire Wolf-River Run
3) Farm Name/Surface Owner: App Minerals, LLC Public Road Access: McCreary's Ridge Road (CR 7)
4) Elevation, current ground: $1247.9^{\prime}$ Elevation, proposed post-construction:
$1249.00^{\prime}$
5) Well Type
(a) Gas $x$

Oil $\qquad$ Underground Storage $\qquad$
Other
(b)If Gas Shallow $\qquad$ Deep $\underline{X}$
Horizontal x
6) Existing Pad: Yes or No No
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Point Pleasant Formation $11,395^{\prime} / 130^{\prime}$ thick 10,141 or .89 psi per foot/Utica Formation $11,042150^{\prime}$ thick / 10,000 psi or 89 psi per foot.
8) Proposed Total Vertical Depth: 11,395'
9) Formation at Total Vertical Depth: Point Pleasant
10) Proposed Total Measured Depth: $23,551^{\prime}$
11) Proposed Horizontal Leg Length: 11,632'
12) Approximate Fresh Water Strata Depths: 162', 845'
13) Method to Determine Fresh Water Depths: Nearest offset well
14) Approximate Saltwater Depths: Na
15) Approximate Coal Seam Depths: $455^{\prime}, 655^{\prime}$
16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated. drilling in pillar - Mine maps attached.
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?

Yes $X$ No $\qquad$

| (a) If Yes, provide Mine Info: | Name: | The Ohio County Mine-Murray American Energy and Consolidation Coal Company |
| :---: | :---: | :---: |
|  | Depth: | 455', 655' |
|  | Seam: | Pittsburgh \#8 |
|  | Owner: | Murray American Energy \& Consolidation Coal Company |

API NO. 47- 051
OPERATOR WELL NO. River Run 10 UH
Well Pad Name: Dire Wolif-River Run
18)

## CASING AND TUBING PROGRAM

| TYPE | $\frac{\text { Size }}{(\text { (in) }}$ | $\begin{aligned} & \frac{\text { New }}{\underline{\text { or }}} \\ & \underline{\text { Used }} \end{aligned}$ | Grade | $\frac{\text { Weight per } \mathrm{ft}}{(\mathrm{lb} / \mathrm{ft})}$ | $\frac{\text { FOOTAGE: For }}{\text { Drilling (ft) }}$ | $\frac{\text { INTERVALS: }}{\frac{\text { Left in Well }}{(\mathrm{ft})}}$ | CEMENT: (Cu. Ft. $/$ /CTS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conductor | 30" | New | LS | 81.3\# | 60' | $60^{\prime}$ | CTS |
| Fresh Water | $20^{\prime \prime}$ | New | J-55 | 54.5\# | $905{ }^{\prime}$ | $905{ }^{\prime}$ |  |
| Coal | 13 3/8" | New | J-55 | 54.5\# | 1941' | 1941' |  |
| Intermediate | 95/8" | New | HCP-110 | 40\# | 9542' | 9542' |  |
| Production | $51 / 2^{\prime \prime}$ | New | HCP-110 | 23\# | 23,551' | 23,551' | $\infty$ |
| Tubing | 2718" | New | J-55 | 6.5\# |  |  |  |
| Liners |  |  |  |  |  |  |  |

gN $11 / 13 / 18$

| TYPE | Size (in) | Wellbore Diameter (in) | $\frac{\text { Wall }}{\text { Thickness }}$ (in) | $\frac{\text { Burst Pressure }}{\text { (psi) }}$ | Anticipated Max. Internal Pressure (psi) | $\frac{\text { Cement }}{\text { Type }}$ | $\frac{\text { Cement }}{\frac{\text { Yield }}{}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conductor | 30" | 36" |  | 300 |  | Type 1 |  |
| Fresh Water | 20" | 24 " | . 388 | 2,730 | 688 | Class A |  |
| Coal | 13 3/8" | 17.5" | . 380 | 2,730 | 688 | Class A |  |
| Intermediate | 95/8" | 12.375"-12.25" | . 395 | 7,870 | 3,166 | Class A |  |
| Production | $51 / 2^{\prime \prime}$ | 8.75" | . 361 | 14,360 | 11,000 | Class H | Lummun itracmam |
| Tubing | $27 / 8$ " | $5.14{ }^{\prime \prime}$ | . 217 | 10,570 | 8,000 |  |  |
| Liners |  |  |  |  |  |  |  |

## PACKERS

| Kind: |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Sizes: |  |  |  |  |
| Depths Set: |  |  |  | Ofrice of Oil and Gas |

API NO. 47-051--
OPERATOR WELL NO. River Run 10 UH
Well Pad Name: Dire Wolf-River Run

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 $11,395^{\prime}$. Drill the horizontal leg-stimulate and produce the Utica/Point Pleasant. Should we encounter a unanticipated void we will install a minimum of $20^{\prime}$ 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 $10,000 \mathrm{lbs}$.
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 $=1.27$. 2 nd 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, antifoam, fluid loss retarder, salt, dispersant or 12.0 Class A lead + additives ( $+/-5 \%$ dispersant, $10 \%$ light weight additive, $75 \%$ fluid loss additive, and $1.15 \%$ fluid loss additive, Yield=1.28) 15.4 ppg Class A Tail + additives ( $+/$ - fluid loss additive, \& $.5 \%$ light weight additive, Yield 1.28), $0.125 \# /$ SK lost circ $30 \%$ excess to Surface. Production- 12.5ppg Class H Lead +additives and 14.8 ppg Class H Tail + additives (antifoam, antiggllige REdEIVED extender,dispersant) $15 \%$ excess $\mathrm{TOC}^{\prime}=200^{\prime}$ above $9.625^{\circ}$ shoe.

$$
\text { JAN } 3.12019
$$

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing is run on air. Apart from insuring hole is clean via air circulaffonikinflepattment of there are no other conditioning procedures. Freshwater/Surface- The hole is drilled w/air or Freshwater based mud and frotection casing is run on air. Once casing is at setting depth, fill with KCl 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 $6 x$ bottoms up. Once on bottom with casing, circulate minimum of one hole volume prior to pumping cement.
*Note: Attach additional sheets as needed.




# API Number 47 - 051 - 

Operator's Well No. River Run 10 UH

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

## FLUIDS/ CUTTINGS DISPOSAL \& RECLAMATION PLAN


$\square$
$\square$
$\square$
$\square$ Land Application Underground Injection (UIC Permit Number See attached sheet Reuse (at API Number at next anticipated well Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain

Will closed loop system be used? If so, describe: Yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Arinatar basod mud trough hitamadiat thon sosm
-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) $\qquad$
-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 waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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

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

| Company Official Signature | REGENVED |
| :--- | :--- |
| Company Official (Typed Name) Braulio Silva | Office of Oil and Gas |
| Company Official Title Vice President - Drilling | JAN 3.12019 |


|  |  |
| :---: | :---: |
|  |  |
|  |  |

## American Petroleum Partners Operating, LLC

Proposed Revegetation Treatment: Acres Disturbed 14.7 4.7 Prevegetation pH 6.0

Lime 2-3 Tons/acre or to correct to pH $\qquad$
Fertilizer type 10-20-20 or Equal
Fertilizer amount 500
Mulch Hay or Straw at 2 Tons/acre

## Seed Mixtures

## Temporary

## Permanent



## *Refer to attached Reclamation Plan for further detail.

## Attach:

$\operatorname{Maps}(\mathrm{s})$ 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 ( $\mathrm{L} \times \mathrm{W} \times \mathrm{D}$ ) of the pit, and dimensions ( $\mathrm{L} \times \mathrm{W}$ ), and area in acreage, of the land application area.

Photocopied section of involved $7.5^{\prime}$ topographic sheet.

Plan Approved by:
 TuMble

Comments: $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


Additives for Drilling Medium
$510 ; 180$

| 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.

# Cuttings Disposal/Site Water 

Cuttings - Haul off Company:
Eap Industries, Inc. DOT \# 0876278
1575 Smith Two State Rd. Atlasburg, PA 15004
1-888-294-5227

Waste Management
200 Rangos Lane
Washington, PA 15301
724-222-3272

Environmental Coordination Services \& Recycling (ECS\&R)
3237 US Highway 19
Cochranton, PA 16314
814-425-7773
Disposal Locations:
Apex Environnemental, LLC Permit \# 06-08438
11 County Road 78
Amsterdam, OH 43903
740-543-4389

Westmoreland Waste, LLC Permit \# 100277
111 Conner Lane
Belle Vernon, PA 15012
724-929-7694

Sycamore Landfill Inc. Permit \#R30-079001 05-2010
4301 Sycamore Ridge Road
Hurricane, WV 25526
304-562-2611

Max Environnemental Technologies, Inc. Facility Permit \# PAD004835146 / 301071
233 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit \# PAD05087072 / 301359
200 Max Drive
Bulger, PA 15019
724-796-1571

Waste Management Kelly Run Permit \# 100663
1901 Park Side Drive
Elizabeth, PA 15037
WV Department of
412-384-7569

Waste Management South Hills (Arnoni) Permit \# 100592
3100 Hill Road
Library, PA 15129
724-348-7013
412-384-7569

Waste Management Arden Permit \# 100172
200 Rangos Lane
Washington, PA 15301
724-222-3272
Waste Management Meadowfill Permit \# 1032
1488 Dawson Drive
Bridgeport, WV 26330
Brooke County Landfill Permit \# SWF-103-97 / WV 0109029
Rd 2 Box 410
Colliers, WV 26035
304-748-0014

Wetzel Country 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

## $510 ; 180$ <br> 06/14/2019

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
Burns Drilling \& Excavating
618 Crabapple Road P.O. Box 41
Wind Ridge, PA 15380
Office of Oil and Gas

Nichlos 1-A (SWIW \#13)
Permit \# 3862
JAN 3.12019
300 Cherrington Pkwy, Suite WV Department of Coraopolis, PA 15108
412-329-7275
Groselle (SWIW \#34)
Permit \# 4096
Rt. 88
Garrettsville, OH
713-275-4816

Kemble 1-D Well
Permit \# 8780
7675 East Pike
Norwich, Oh 43767
614-648-8898
740-796-6495

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

## 5102180

OH UIC \#1 Butckefe 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

## RECEVED

Office of (Til and Gas
JAN 312019

WV Department of Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure
Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS \#) | Maximum Ingredient Concentration in Additive (\% by mass)** |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Water | Operator | Carrier/Base Fluid |  |  |  |
|  |  |  | 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 |  |  |  |
|  |  |  | Mullite | 1302-93-8 | 70.00000 |
|  |  |  | Cristobalite | 14464-46-1 | 30.00000 |
|  |  |  | Amorphous Silica | 7631-86-9 | 15.00000 |
| $\begin{aligned} & \text { Hydrochloric Acid } \\ & (\mathrm{HCl}) \end{aligned}$ | FTSI | Acid |  |  |  |
|  |  |  | Hydrogen Chloride | 7647-01-0 | 15.00000 |
| SI-117 | WST | 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 (Methylene Phosphonic Acid) | 34690-00-1 | 20.00000 |
|  |  |  | Phosphino carboxylic acid polymer | 71050-62-9 | 20.00000 |
| K-BAC 1020 DBNPA | WST | Bacteriacide |  |  |  |
|  |  |  | Polyethylene glycol | 25322-68-3 | 50.00000 |
|  |  |  | Water | 7732-18-5 | 30.00000 |
|  |  |  | $\begin{array}{\|l\|} \hline \text { 2,2-Dibromo-3- } \\ \text { nitrilopropionamide } \\ \hline \end{array}$ | 10222-01-2 | 21.00000 |
| NEFE-180 | Stingray | Acid Inhibitor/Iron Control |  |  |  |
|  |  |  | 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 |
|  |  |  | 2-Propyn-1-0\| | 107-19-7 | 3.00000 |
| FRA-409 | Stingray | Friction Reducer |  |  |  |
|  |  |  | Copolymer of 2-propenamide | Proprietary | 30.00000 |
|  |  |  | Distillates (petroleum), Hydrotreated Light | 64742-47-8 | 20.00000 |
|  |  |  | Alcohols, C12-16, Ethoxylated | 68551-12-2 | 2.00000 |
|  |  |  | Alkanolamide | 93-83-4 | 2.00000 |
|  |  |  | Ammonium Chloride | 12125-02-9 | 1.00000 |
| CSL-30 | Stingray | pH Control |  |  |  |
|  |  |  | Sodium Hydroxide | 1310-73-2 | 30.00000 |

$$
\begin{aligned}
& \text { Office RECENVED } \\
& \text { JAN Oil and Gas } \\
& \text { UN Department } 2019 \\
& \text { Environmental prot of }
\end{aligned}
$$

## $510 ; 180$

Hydraulic Fracturing Fluid Product Component Information Disclosure

| Hydraulic Fracturing Fluid Composition: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Trade Name | Suppliery | Purpose | Ingredients | Chemidal Abstioet Service Number (CAS \#) |  |
| Water | Operator | Carrier/Base Fluid | Water | 7732-18-5 | $100.00000$ |
| Terraprop Pius 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 |  |  |  |
|  |  |  | Mullite | 1302-93-8 | 70.00000 |
|  |  |  | Cristobalite | 14464-46-1 | 30.00000 |
|  |  |  | Amorphous Silica | 7631-86-9 | 15.00000 |
| Hydrochloric Acid ( HCl ) | FTSI | Acid |  |  |  |
|  |  |  | Hydrogen Chloride | 7647-01-0 | 15.00000 |
| SI-117 | WST | 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 (Methylene Phosphonic Acid) | 34690-00-1 | 20.00000 |
|  |  |  | Phosphino carboxylic acid polymer | 71050-62-9 | 20.00000 |
| K-BAC 1020 DBNPA | WST | Bacteriacide |  |  |  |
|  |  |  | Polyethylene glycol | 25322-68-3 | 50.00000 |
|  |  |  | Water | 7732-18-5 | 30.00000 |
|  |  |  | $\begin{aligned} & \text { 2,2-Dibromo-3- } \\ & \text { nitrilopropionamide } \end{aligned}$ | 10222-01-2 | 21.00000 |
| NEFE-180 | Stingray | Acid Inhibitor/Iron Control |  |  |  |
|  |  |  | 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 |
|  |  |  | 2-Propyn-1-ol | 107-19-7 | 3.00000 |
| FRA-409 | Stingray | Friction Reducer |  |  |  |
|  |  |  | Copolymer of 2-propenamide | Proprietary | 30.00000 |
|  |  |  | Distillates (petroleum), Hydrotreated Light | 64742-47-8 | 20.00000 |
|  |  |  | Alcohols, C12-16, Ethoxylated | 68551-12-2 | 2.00098 |
|  |  |  | Alkanolamide | 93-83-4 | 2.00000 |
|  |  |  | Ammonium Chloride | 12125-02-9 | 1.00000 |
| CSL-30 | Stingray | pH Control |  |  |  |
|  |  |  | Sodium Hydroxide | 1310-73-2 | 30.00000 |
| $\begin{array}{\|l} \hline \text { WG-36 GELLING } \\ \text { AGENT } \\ \hline \end{array}$ | Halliburton | Gelling Agent |  |  | $\begin{gathered} \mathrm{WN} \\ \text { Enviror } \end{gathered}$ |
|  |  |  | Guar gum | 9000-30-0 | 100.00000 |
| SP BREAKER | Haliburton | Breaker |  |  |  |
|  |  |  | Sodium persulfate | 7775-27-1 | 100.00000 |
| LOSURF-300D | Halliburton | Non-ionic Surfactant |  |  |  |
|  |  |  | 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 |
|  |  |  | 1,2,4 Trimethylbenzene | 95-63-6 | 1.00000 |









## INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE <br> 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

## Acknowledgement of Possible Permitting/Approval <br> 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 |

Page 1 of $\qquad$

RiverRun-10UH - Wellbore Tracts

| Map <br> \# | LEASE\# | LESSOR | CURRENT LESSEE | ROYALTY | MOL RECORD NG INFORMA TION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | $\begin{gathered} \text { WV-MAR- } \\ 1192 \end{gathered}$ | APP Minerals LLC | American Petroleum Partners Operating, LLC | Not Less <br> than 1/8th | 984-392 | 15-2-16 |
| 2 | $\begin{gathered} \text { WV-MAR- } \\ 0035 \end{gathered}$ | Resource Minerals Headwater I, LP | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 930-446 | 15-2-17.3 |
| 3 | $\begin{gathered} \text { WV-MAR- } \\ 0688 \end{gathered}$ |  <br> 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 | $\begin{gathered} \text { WV-MAR- } \\ 0688 \end{gathered}$ | 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 $1 / 8$ th | 741-88 | 15-2-14 |
| 5 | $\begin{gathered} \text { WV-MAR- } \\ 1248 \end{gathered}$ | Craig A. Snyder \& Nora J. Trowbridge | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 871-394 | 15-2-14.2 |
| 7 | $\begin{gathered} \text { WV-MAR- } \\ 0094 \end{gathered}$ | Jeffrey T. Bock | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 978-559 | 15-2-13 |
| 7 | $\begin{gathered} \text { WV-MAR- } \\ 0094 \end{gathered}$ | Sally A. Hunter-Bock | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 978-559 | 15-2-13 |
| 8 | $\begin{gathered} \text { WV-MAR- } \\ 0032 \end{gathered}$ | Resource Minerals Headwater I, LP | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 822-200 | 15-2-13.2 |
| 8 | $\begin{gathered} \text { WV-MAR- } \\ 0116 \end{gathered}$ | Teddy Howard Parsons | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 832-620 | 15-2-13.2 |
| 8 | $\begin{gathered} \text { WV-MAR- } \\ 0117 \end{gathered}$ | Kenneth Robert Parsons | American Petroleum Partners Operating, LLC | Not Less <br> than 1/8th | 832-616 | 15-2-13.2 |
| 8 | $\begin{gathered} \text { WV-MAR- } \\ 0118 \end{gathered}$ | Richard McKimmie and Bernice McKimmie, Trustees of the McKimmie Family Trust, dated January 9, 2015 | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 832-618 | 15-2-13.2 |
| 8 | $\begin{gathered} \text { WV-MAR- } \\ 0119 \end{gathered}$ | Donald Herbert Parsons | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 832-614 | 15-2-13.2 |
| 8 | $\begin{gathered} \text { WV-MAR- } \\ 0121 \end{gathered}$ | Donna Gassaway lams | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 833-239 | 15-2-13.2 |
| 9A | $\begin{aligned} & \text { WV-MAR- } \\ & 0687 \end{aligned}$ | Gary W. Strope and Rickee J. Strope, Trustees of the Strope Family Trust dated March 29, 2017 | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 848-323 | P/O 15-2-19 |

RiverRun-10UH - Wellbore Tracts

| $\begin{array}{\|c} \text { Map } \\ \# \end{array}$ | LEASE \# | LESSOR | CURRENT LESSEE | ROYALTY | MOL RECORDI NG INFORMA TION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9B | $\begin{gathered} \text { WV-MAR- } \\ 1674 \end{gathered}$ | West Virginia Department of Transportation, Division of Highways | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 1035-382 | P/O 15-2-19 |
| 11 | $\begin{gathered} \text { WV-MAR- } \\ 0700 \end{gathered}$ | Gary W. Strope and Rickee J. Strope, Trustees of the Strope Family Trust dated March 29, 2017 | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 989-71 | 15-7-21 |
| 12 | WV-MAR- <br> 1245 | David S. Cain | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 905-21 | 15-7-22 |
| 12 | $\begin{gathered} \text { WV-MAR- } \\ 1244 \end{gathered}$ | Brent E. Cain | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 905-19 | 15-7-22 |
| 12 | $\begin{gathered} \text { WV-MAR- } \\ 1582 \end{gathered}$ | Herman D. Lantz | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 962-509 | 15-7-22 |
| 12 | $\begin{array}{\|c} \text { WV-MAR- } \\ 1142 \end{array}$ | Thomas A. Bock \& Pamela <br> L. Bock | American Petroleum Partners Operating, LLC | Not Less <br> than 1/8th | 905-25 | 15-7-22 |
| 12 | $\begin{gathered} \text { WV-MAR- } \\ 1246 \end{gathered}$ | Thomas D. Cain | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 905-23 | 15-7-22 |
| 14 | $\begin{gathered} \text { WV-MAR- } \\ 0340 \end{gathered}$ | Lorraine Haslam | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 827-494 | 15-7-23.3 |
| 17 | $\begin{array}{\|c} \text { WV-MAR- } \\ 0728 \end{array}$ |  <br> Brenda K. Coffield | American Petroleum Partners Operating, LLC | Not Less <br> than 1/8th | 866-115 | 15-7-27 |
| 19 | WV-MAR- $1164$ |  <br> Brenda K. Coffield | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 866-104 | 15-7-28 |
| 20 | $\begin{gathered} \text { WV-MAR- } \\ 0042 \end{gathered}$ | Gabriel B. Fried | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 825-576 | 15-7-29 |
| 21 | $\begin{gathered} \text { WV-MAR- } \\ 1165 \end{gathered}$ | Betty Geneva Coffield | American Petroleum <br> Partners Operating, LLC | Not Less <br> than 1/8th | 865-54 | 15-7-26 |
| 21 | $\begin{gathered} \text { WV-MAR- } \\ 1171 \end{gathered}$ | Judith Lawhead | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 865-31 | 15-7-26 |
| 21 | Pending | Debra Holdren \& Paul Holdren | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 916-16 | 15-7-26 |
| 21 | Wv-MAR- $1171$ | Kimber Lee Lawhead | American Petroleum Partners Operating, LLC | Not Less than 1/8th | 865-31 | 15-7-26 |

RiverRun-10UH - Wellbore Tracts

| Map \# | LEASE \# | LESSOR | CURRENT LESSEE | ROYALTY | MOL RECORDI NG INFORMA TION | TAXRARGE2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23 | $\begin{gathered} \text { WV-MAR- } \\ 1583 \end{gathered}$ | Garnet Ruby Bush and Kenneth R. Bush, CoTrustees of the Garnett Bush Family Trust, dated April 16, 2018 | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 988-463 | 15-9-1 |
| 23 | $\begin{gathered} \text { WV-MAR- } \\ 1594 \end{gathered}$ | Lawrence L. Gilmore | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 1027-644 | 15-9-1 |
| 23 | $\begin{gathered} \text { WV-MAR- } \\ 1264 \end{gathered}$ | Brent M. Bush | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 1028-1 | 15-9-1 |
| 23 | $\begin{gathered} \text { WV-MAR- } \\ 1606 \end{gathered}$ | Eileen Gilmore | American Petroleum Partners Operating, LLC | Not Less than $1 / 8$ th | 1028-371 | 15-9-1 |

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

## AMERICAN

PETROLEUM
PARTNERS

Office of Oil \& Gas
November 6, 2018
$60157^{\text {th }}$ street, SE
Charleston, WV 25304-2345

## 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.


Braulio Silva
VP- Drilling
BS/djs

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

Date of Notice Certification: $\qquad$

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 | Easting: | 531898.8880 |
| :---: | :---: | :---: | :---: |
| County: | Marshall | Northing: | 4422692.1470 |
| District: | Webster | Public Road Access: | McCreary's Ridge Road (CR 7) |
| Quadrangle: | Moundsville | Generally used farm name: | App Mineral, LLC |
| Watershed: | Upper Ohio South |  |  |

API No. 47- 051
Operator's Well No. River Run 10 UH
Well Pad Name: Dire Wolf-River Run

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

1. NOTICE OF SEISMIC ACTIVITY or $\square$ NOTICE NOT REQUIRED BECAUSE NO $\square$ NOTICE NOT REQUIRED BECAUSE NO
SEISMIC ACTIVITY WAS CONDUCTED
2. NOTICE OF ENTRY FOR PLAT SURVEY or $\square$ NO PLAT SURVEY WAS CONDUCTED3. NOTICE OF INTENT TO DRILL or $\square$ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or

# $\square$ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 

 (PLEASE ATTACH)

## Required Attachments:

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

## Certification of Notice is hereby given:

THEREFORE, I Braulio Silva , have read and understand the notice requirements within West Virginia Code § 226A. I certify that as required under West Virginia Code $\S 22-6 \mathrm{~A}$, 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.


## Oil and Gas Privacy Notice:

Subscribed and sworn before me this $12^{t h}$ day of November dol \&



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.


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

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

# Date of Notice: $1 / 25 / 19$ Date Permit Application Filed: $1 / 25 / 19$ 

Notice of:

## $\checkmark$ PERMIT FOR ANY <br> WELL WORK <br> $\square$ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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


#### Abstract

(1) PERSONAL SERVICE

REGISTERED MAIL

\section*{- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION}

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


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

TSURFACE OWNER(s)
Name: APP Mins LLC
Address: 4900 J. Barry Ct. Suite 310
Canonsburg, PA 15317
Name:
Address:
$\square$ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Mark Meberg, Et Ux \& Mary P. Meberg
Address: 325 McCreary's Ridge
Moundsville, WV 26041
Name: David Huntt
Address: 6906 Conley Street
Baltimore, MD 21224
$\square$ SURFACE OWNER(s) (Impoundments or Pits)
Name: None
Address:

■ COAL OWNER OR LESSEE
Name: Murray American Energy and Consolidation Coal Company Address: 46226 National Road
St. Clairsville, OH 43950
■COAL OPERATOR
Name: गhe Ohio County Mine-Murray American Energy and Consalidation Coal Comsary
Address: 46226 National Road
St. Clairsville, OH 43950
■ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attached List
Address:
पOPERATOR OF ANY NATURAL GAS STORAGE FIEEDO, Name: None
Address:
*Please attach additional forms if necessary

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: $1 / 25 / 19$ Date Permit Application Filed: $1 / 25 / 19$
Notice of:

## $\checkmark$ PERMIT FOR ANY WELL WORK <br> $\square$ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

$\square$ PERSONAL SERVICE
REGISTERED MAIL

## ( $\sqrt{ }$ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION


#### Abstract

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.


$\square$ Application Notice $\square$ WSSP Notice $\square E \& S$ Plan Notice $\quad$ Well Plat Notice is hereby provided to:
$\square$ SURFACE OWNERs)
Name:
Address:

## Name:

Address:

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Gorakshya Reva \& ENV EDU/Eco-Vrindaban Inc.
Address: Rd 3 Bo
Wheeling, W 26003
Name: Lakshmi D. Dove et al. William E \& Irene M. Dove, Et al
Address: Rd 3 Box 278 B
Wheeling, WV 26003
$\square$ SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:
$\square$ COAL OWNER OR LESSEE
Name:
Address:

## COAL OPERATOR

Name:
Address: $\qquad$ Office
SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name:
Address: $\qquad$

## OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name:
Address:

[^0]
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION 

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: $1 / 25 / 19$ Date Permit Application Filed: $1 / 25 / 19$
Notice of:

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

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

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


#### Abstract

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 $\square$ WSSP Notice $\square E \& S$ Plan Notice $\quad$ Well Plat Notice is hereby provided to:

## $\square$ SURFACE OWNER(s)

Name:
Address:

## Name:

Address:
$\square$ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Joy Chicione

| Address: 61 Waymans Ridge |
| :--- |
| Moundsvile, $\bar{W} 26041$ |
| Name: David \& Lonna Hudson |

Address: 319 Oxen Drive
Moundsville, WV 26041
$\square$ SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:

- COAL OWNER OR LESSEE

Name:
Address:
-COAL OPERATOR
Name:
Address: $\qquad$ RECENED
Ce of Oil and
$\square$ QURFACE OWNER OF WATER WELL Office AND/OR WATER PURVEYOR(s)
Name:
Address:
ZOPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name:
Address:

[^1]
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION 

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

# Date of Notice: $1 / 25 / 19$ Date Permit Application Filed: $1 / 25 / 19$ 

Notice of:

## v PERMIT FOR ANY WELL WORK <br> CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

## $\square$ PERSONAL $\square$ REGISTERED $\square$ 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.
$\square$ Application Notice $\square$ WSSP Notice $\quad \square E \& S$ Plan Notice $\square$ Well Plat Notice is hereby provided to:

- SURFACE OWNER(s)

Name:
Address:

## Name:

Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Marian E. Phillips
Address: $\frac{247 \text { Oxen Drive } \quad /}{\text { Moundsville, } \mathrm{WV} 26041}$

Name: Norma C. Payne \& Eric G. Dailey
Address: 8794 Pasture Gate Lane
Baldwinsville, NY 13027
$\square$ SURFACE OWNER(s) (Impoundments or Pits)
Name: None
Address:


## 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 Sball Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep, whe RECESGland Gas and-gas/pages/default.aspx.

## Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally fromanyerexistifgt of water well or developed spring used for human or domestic animal consumption. The center of well pads may not be fociffed within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five bundred 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
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 filenify comments with the secretary as to the location or construction of the applicant's proposed well work within thirty dagrioffept the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written commentogas 1 dflas location or construction of the applicant's proposed well work to the Secretary at:
Chief, Office of Oil and Gas
Department of Environmental Protection
$60157^{\text {th }}$ St. SE
Charleston, WV 25304
(304) 926-0450

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

## Time Limits and Methods for Filing Comments.

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

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

## Comment Requirements

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

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

## Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:
(1) The proposed well work will constitute a hazard to the safety of persons;
(2) The plan for soil erosion and sediment control is not adequate or effective;
(3) Damage would occur to publicly owned lands or resources; or
(4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § $22-6 \mathrm{~A}-7(\mathrm{k})$, 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.


Notice is hereby given by:
Well Operator:American Petroleum Partners Operating, LLC
Address: 4600 J. Barry Court, Suite 310
Telephone: 1-724-338-8629
Canonsburg, PA 15317
Email: Regulatory@APP-LP.com
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 depprivacyofficer@wv.gov.

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



## 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--

(2) Application on Form $W W-2(B) \quad / W W-3(B)$ —/ WW-4(B) _/ WW-5(B) —/ WW-6(B) _
(3) Plat showing the well location on Form $\bar{W} W-6$, 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 delivering the same in Washington County, State of Pennsylvania
on the st 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 $\qquad$ , 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 $\qquad$ / officer $\qquad$ / director $\qquad$ attorney in fact $\qquad$ / named Braulio Silva


Taken, subscribed and sworn before me this lath day of NOVMMOR
My commission expires $1 / 23 / 2020$
RECEDED Office of Oil and Gas
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)


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

## 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 provided at least SEVEN（7）days but no more than FORTY－FIVE（45）days prior to entry
Date of Notice： $7 / 17 / 78$ Date of Planned Entry：7／25／18
Delivery method pursuant to West Virginia Code § 22－6A－10a$\begin{array}{lc}\text { PERSONAL } \\ \text { SERVICE } & \square \text { REGISTERED } \\ \text { MAIL }\end{array}$

## 回 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22－6A－10（a），Prior to filing a permit application，the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article．Such notice shall be provided at least seven days but no more than forty－five days prior to such entry to：（1）The surface owner of such tract；（2）to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty－six，article six，chapter twenty－two of this code；and（3）any owner of minerals underlying such tract in the county tax records．The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary，which statement shall include contact information，including the address for a web page on the Secretary＇s web site，to enable the surface owner to obtain copies from the secretary．

## Notice is hereby provided to：

## SURFACE OWNER（s）

Name：APP Minerats LLC
Canonsburg．PA 15317
Name：
Address：

## Name：

Address：

## 回 COAL OWNER OR LESSEE

Name：Consol Mining Company LLC
Address： 1000 Consol Energy Drive
Canonsburg．PA 15317
圆 MINERAL OWNER（s）
Name：APP Minerals LLC
Address： 4600 J ．Barry Cl ，Suite 310
Canonsburg，PA 15317
＊please attach additional forms if necessary

## Notice is hereby given：

Pursuant to West Virginia Code $\S 22-6 A-10(a)$ ，notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows：

| State： | West Virginia |
| :--- | :--- |
|  | Marshall |
|  | Webster |
| Duadrangle： | Moundsville |


| Approx．Latitude \＆Longitude： | Latitude： 39.953868 \＆Longitude：－80．626477 |
| :--- | :--- |
| Public Road Access： | Oxen Dr． |
| Watershed： | Upper Ohio South |
| Generally used farm name： | APP Minerals LLC |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary，at the WV Department of Environmental Protection headquarters，located at $60157^{\text {th }}$ Street，SE， Charleston，WV 25304 （304－926－0450）．Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www．dep．wv．gov／oil－and－gas／pages／default．aspx．

RECEIVED Office of Oil and Gas

## Notice is hereby given by：

| Well Operator： | American Petroleum Partners Operating，LLC |
| :--- | :--- |
| Telephone： | 844－835－5277 |
| Email： | regulatory＠app－Ip．com |


| Address： | 4600 J．Bary Ct．Suite 310 | JAN 312019 |
| :---: | :---: | :---: |
|  | Canonsburg．PA 15317 |  |
| Facsimile： |  | WV Department of vironmental Protection |

## Oil and Gas Privacy Notice：

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

# STATE OF WEST VIRGINIA 

Notice Time Requirement：notice shall be provided no later than the filing date of permit application． Date of Notice： $\qquad$ Date Permit Application Filed： $\qquad$
Delivery method pursuant to West Virginia Code § 22－6A－16（c）

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CERTIFIED MAIL RETURN RECEIPT REQUESTED
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（⿴囗十⿴⿱冂一⿰丨丨丁口内 HAND
DELIVERY

Pursuant to W．Va．Code $\S 22-6 A-16$（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 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 | UT | Easting： | 531898.8880 |
| :---: | :---: | :---: | :---: | :---: |
| County： | Marshall |  | Northing： | 4422692.1470 |
| District： | Webster | Public Road A |  | McCreary＇s Ridge Road（CR 7） |
| Quadrangle： | Moundsville | Generally used | rm name： | App Mineral，LLC |

## 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 $\S 22-6 \mathrm{~A}-10$（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 $60157^{\text {th }}$ Street，SE，Charleston，WV 25304 （304－926－0450）or by visiting www．dep．wv．gov／oil－and－ gas／pages／default．aspx．

RECEIVED
Office of Oil and Gas

| Well Operator： | American Petroleum Partners Operating，LLC |
| :--- | :--- |
| Telephone： | $\frac{1-724-338-8629}{\text { Regulatory＠app－lp．com }}$ |
| Email： |  |


| Address： | 4600 J ．Barry Court Suite 310 |  |
| :---: | :---: | :---: |
|  | Canonsburg，PA 15317 | JAN 3.12019 |
| Facsimile： | na | WN Department of |

## Oil and Gas Privacy Notice：

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: $\qquad$ Date Permit Application Filed: $\qquad$

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
HAND 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
Address: 61 Waymans Ridge


Name: David and Lonna Hudson
Address: 319 Oxen Drive
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 |  | Easting: | 531898.8880 |
| :---: | :---: | :---: | :---: | :---: |
| County: | Marshall |  | Northing: | 4422692.1470 |
| District: | Webster | Public Road Ac |  | McCreary's Ridge Road (CR 7) |
| Quadrangle: | Moundsville | Generally used | rm 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 $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

| Well Operator: | American Petroleum Partners OPerationg, LLC |
| :--- | :--- |
| Telephone: | $\frac{724-338-8629}{\text { Regulatory@app-lp.com }}$ |
|  |  |


| Address: | 4600 J. Barry Court, Suite 110 |  |
| :---: | :---: | :---: |
|  | Canonsburg, PA 15317 |  |
| Facsimile: | NA |  |

## Oil and Gas Privacy Notice:

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: $1 / 25 / 19$ Date Permit Application Filed: $\qquad$
Delivery method pursuant to West Virginia Code § 22-6A-16(c)

## - CERTIFIED MAIL RETURN RECEIPT REQUESTED

HAND 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:
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 |  | Easting: | 531898.8880 |
| :---: | :---: | :---: | :---: | :---: |
| County: | Marshall |  | Northing: | 4422692.1470 |
| District: | Webster | Public Road Acc |  | McCreary's Ridge Road (CR 7) |
| Quadrangle: | Moundsville | Generally used | 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 $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

| Well Operator: | American Petroleum Partners OPerationg. LLC |
| :--- | :--- |
| Telephone: |  |
| Email: | Regulatory@app-Ip.com |


| Address: | RECEIVED <br>  | 4600 J. Barry Court, Suite 110 |
| :--- | :--- | :---: |
| Canonsburg. PA 15317 | Office of Oil and Gas |  |
| Facsimile: | NA | JAN 312019 |

## Oil and Gas Privacy Notice:

# STATE OF WEST VIRGINIA <br> 5109180 <br> 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： $\qquad$ Date Permit Application Filed： $\qquad$
Delivery method pursuant to West Virginia Code § 22－6A－16（c）

## （⿴囗 CERTIFIED MAIL RETURN RECEIPT REQUESTED <br> $\square$ HAND <br> DELIVERY

Pursuant to W．Va．Code $\S 22-6 \mathrm{~A}-16$（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：Gorakshya－Serv \＆Env EDU／Eco－Vrindaban，Inc．
Name：William E and Irene M Dove，et al／Lakshmi D Dove，et al
Address：Rd 3 Box 278－B
Wheeling，WV 26003

Address：Rd 3 Box 278－B
Wheeling，W 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 | Easting： | 531898.8880 |
| :---: | :---: | :---: | :---: |
| County： | Marshall | Northing： | 4422692.1470 |
| District： | Webster | Public Road Access： | McCreary＇s Ridge Road（CR 7） |
| Quadrangle： | Moundsville | Generally used farm name： | App Minerals，LLC |

## This Notice Shall Include：

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Office of Oil and Gas

| Well Operator： | American Petroleum Partners OPerationg，LLC |
| :--- | :--- |
| Telephone： | $\frac{724-338-8629}{\text { Regulatory＠app－lp．com }}$ |
| Email： |  |


| Address： | 4600 J．Barry Court，Suite 110 |  |
| :---: | :---: | :---: |
|  | Canonsburg．PA 15317 | JAN S1 2019 |
| Facsimile： | NA | ＋ |

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

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$\square$ HAND
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## 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
Address: 6906 Conley Street
Baltimore, MD 21224

Name:
Address:

## Notice is hereby given:

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| State: | West Virginia | UT | Easting: | 531898.8880 |
| :---: | :---: | :---: | :---: | :---: |
| County: | Marshall | UTM NAD 83 | Northing: | 4422692,1470 |
| District: | Webster | Public Road Ac |  | McCreary's Ridge Road (CR 7) |
| Quadrangle: | Moundsville | Generally used | rm name: | App Minerals, LLC |
| Watershed: | Upper Ohio South |  |  |  |

## This Notice Shall Include:

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| Well Operator: | American Petroleum Partners OPerationg, LLC |
| :--- | :--- |
| Telephone: | $\frac{724-338-8629}{\text { Regulatory@app-Ip.com }}$ |
| Email: |  |



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## 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--

[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 $\qquad$ , 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 $\qquad$ , 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: in fact
[ ] Handing it to the corporation's employee___/ officer_ / director $\qquad$ / attorney


Taken, subscribed and sworn before me this $\qquad$ day of $\qquad$ 20 $\qquad$ . My commission expires $\qquad$
$\qquad$ .
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways <br> 1900 Kanawha Boulevard East - Building Five - Room 110 <br> Charleston, West Virginia 25305-0430•(304) 558-3505 

November 28, 2018
Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

Jill M. Newman
Deputy Commissioner

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
$60157^{\text {th }}$ Street, SE
Charleston, WV 25304
Subject: DOH Permit for the Riverrun Pad, Marshall County
Riverrun 10 UH 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,


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

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

Hydraulic Fracturing Fluid Product Component Information Disclosure
Hydraulic Fracturing Fluid Composition：

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number （CAS \＃） | Maximum Ingredient Concentration in Additive （\％by mass 06 ） |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Water | Operator | Carrier／Base Fluid |  |  |  |
|  |  |  | 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 |  |  |  |
|  |  |  | Mullite | 1302－93－8 | 70.00000 |
|  |  |  | Cristobalite | 14464－46－1 | 30.00000 |
|  |  |  | Amorphous Silica | 7631－86－9 | 15.00000 |
| Hydrochloric Acid （ HCl ） | FTSI | Acid |  |  |  |
|  |  |  | Hydrogen Chloride | 7647－01－0 | 15.00000 |
| SI－117 | WST | 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 （Methylene Phosphonic Acid） | 34690－00－1 | 20.00000 |
|  |  |  | Phosphino carboxylic acid polymer | 71050－62－9 | 20.00000 |
| K－BAC 1020 DBNPA | WST | Bacteriacide |  |  |  |
|  |  |  | Polyethylene glycol | 25322－68－3 | 50.00000 |
|  |  |  | Water | 7732－18－5 | 30.00000 |
|  |  |  | 2，2－Dibromo－3－ nitrilopropionamide | 10222－01－2 | 21.00000 |
| NEFE－180 | Stingray | Acid Inhibitor／Iron Control |  |  |  |
|  |  |  | 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 |
|  |  |  | 2－Propyn－1－ol | 107－19－7 | 3.00000 |
| FRA－409 | Stingray | Friction Reducer |  |  |  |
|  |  |  | Copolymer of 2－propenamide | Proprietary | 30.00000 |
|  |  |  | Distillates（petroleum）， Hydrotreated Light | 64742－47－8 | 20.00000 |
|  |  |  | Alcohols，C12－16，Ethoxylated | 68551－12－2 | 2.00000 |
|  |  |  | Alkanolamide | 93－83－4 | 2.00000 |
|  |  |  | Ammonium Chloride | 12125－02－9 | 1.00000 |
| CSL－30 | Stingray | pH Control |  |  |  |
|  |  |  | Sodium Hydroxide | 1310－73－2 | 30.00000 |
| $\begin{aligned} & \hline \text { WG-36 GELLING } \\ & \text { AGENT } \\ & \hline \end{aligned}$ | Halliburton | Gelling Agent |  |  |  |
|  |  |  | Guar gum | 9000－30－0 | 100.00000 |
| SP BREAKER | Halliburton | Breaker |  |  |  |
|  |  |  | Sodium persulfate | 7775－27－1 | 100.00000 |
| LOSURF－300D | Halliburton | Non－ionic Surfactant |  |  |  |
|  |  |  | 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 |
|  |  |  | 1，2，4 Trimethylbenzene | 95－63－6 | 1.00000 |

# EROSION \& SEDIMENT CONTROL PLAN <br> FOR DIRE WOLF - RIVERRUN PAD WEBSTER TAX DISTRICT, MARSHALL COUNTY, WEST VIRGINIA 



AMERICAN
PETROLEUM
PaRTNERS



APPROVED WVDEP OOG
W多S 11212019

LIMITS OF DISTURBANCE

total 14.7 Acres
ere land omer



> CALL BEFORE Dial 81 or YOU DIG!

Huck dus ar huat wid map ex



|  | Onc. No. 109562001 |
| :--- | :--- |
| NOT FOR CONSTRUCTON/NOT FOR BIDDING |  |




[^0]:    *Please attach additional forms if necessary

[^1]:    *Please attach additional forms if necessary

