



west virginia department of environmental protection

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

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

Monday, January 28, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

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

CANONSBURG, PA 15317

Re: Permit approval for WINTERFELL 10 UH
47-051-02106-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: WINTERFELL 10 UH
Farm Name: HARRIS, BRENDA J. ET AL
U.S. WELL NUMBER: 47-051-02106-00-00
Horizontal 6A New Drill
Date Issued: 1/28/2019

A blue ink signature of James A. Martin, Chief, is written over the signature line.

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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



west virginia department of environmental protection

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

Barry K. Lay, Chairman
dep.wv.gov

December 12, 2018

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

RE: Application for Deep Well Permit – API #47-051-02106

COMPANY: American Petroleum Partners Operating, LLC

FARM: Brenda J. Harris et al Winterfell-10UH

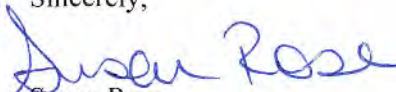
COUNTY: Marshall DISTRICT: Webster QUAD: Majorsville

The deep well review of the application for the above company is Approved to drill to the Point Pleasant for completion. Pooling Docket No. 269-260

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? None
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: *yes, Docket 269-260 Exception Location Hearing, Castle Black-5UH 47-051-02044; Winterfell-5UH 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.

Sincerely,


Susan Rose
Administrator

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

4705702106

1) Well Operator: American Petroleum Partners 494521257 Marshall Webster Moundsville
Operator ID County District Quadrangle

2) Operator's Well Number: Winterfell 10 UH Well Pad Name: Dire Wolf-Winterfell

3) Farm Name/Surface Owner: Brenda J. Harris, et al Public Road Access: McCreary's Ridge Road (CR 7)

4) Elevation, current ground: 1145.44' Elevation, proposed post-construction: 1130'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

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' / 130' thick 10,141 or .89 psi per foot / Utica Formation 11,042 150' thick / 10,000 psi or .89 psi per foot.

8) Proposed Total Vertical Depth: 11,595' plug back to 11,395'

9) Formation at Total Vertical Depth: Point Pleasant

10) Proposed Total Measured Depth: 23,234"

11) Proposed Horizontal Leg Length: 11,447'

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12) Approximate Fresh Water Strata Depths: 162'

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13) Method to Determine Fresh Water Depths: Nearest offset well

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14) Approximate Saltwater Depths: Na

15) Approximate Coal Seam Depths: 455', 655'

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 No

(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

WW-6B
(04/15)

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

4705102106

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	81.3#	100'	100'	CTS
Fresh Water	20"	New	J-55	94#	730'	730'	15.6ppg to sur 521 ex w/30% OH excess
Coal	13 3/8"	New	J-55	54.5#	1,941'	1,941'	15.2ppg to sur 556 ex w/30% OH Excess
Intermediate	9 5/8"	New	HCP-110	43.5#	9,542'	9,542'	15.4ppg to sur 936 ex w/30% OH excess
Production	5 1/2"	New	HCP-110	23#	23,234'	23,234'	14.8ppg TOC >>200' above 9.625 shoe
Tubing	2 7/8"	New	J-55	6.5#	11,400	11,400'	
Liners							

JW
8/2/18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"		300		Type 1	Lead yield 2.38 Tail 521 ex Yield 1.18
Fresh Water	20"	24"	.438	2,110	400	Class A	Lead yield 2.38 Tail 556 ex Yield 1.27
Coal	13 3/8"	17.5"	.380	2,730	688	Class A	Lead Yield 2.38 Tail 556 ex Yield 1.27
Intermediate	9 5/8"	12.375"-12.25"	.395	7,870	3,166	Class A	Lead Yield 1.28 Tail 936 ex Yield 1.28
Production	5 1/2"	8.5"	.361	14,360	11,000	Class H	Lead Yield 1.27 Tail 4714 ex Yield 1.27
Tubing	2 7/8"	5.14"	.217	10,570	8,000		
Liners							

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Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

API NO. 47-091 4705102106

OPERATOR WELL NO. Winterfell 10 UH

Well Pad Name: Dire Wolf-Winterfell

4705 : 02 10/6/18

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

Drill the vertical depth (Pilot hole) to the Point Pleasant at an estimated total vertical depth of approximately 11,595', plug back with two 800' balanced plugs to 11,395'. Drill the horizontal leg-stimulate and produce the Utica/ Point Pleasant formation. Should we encounter a unanticipated void we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 36.2 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.55 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.

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

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

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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 circulation at TD, there are no other conditioning procedures. Freshwater/Surface- The hole is drilled w/air or Freshwater based mud and casing is run on air. Once casing is at setting depth, fill with 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 SOBMs. Once at TD, circulate at max allowable pump rate for at least 6x bottoms up. Once on bottom with casing, circulate minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

4705102106

Fresh Water Protection String:		Cement Additives	
Allied Material Name	Additive (Material) Type	Additive (Material) Description	CAS #
CCAC (Class A Common)	Base Cement	Grey powder	65997-15-1
CA-100	Accelerator	White, flake	10043-52-4 7447-40-7 7732-18-5 7647-14-5

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DRILLING WELL PLAN

Winterfell-10UH
 Utica Horizontal
 Marshall Co, WV

Horizontal Well Plan with Cemented Long String Completion

HOLE	RIG	CASING	GEOLOGY	Top TVD	MD	MUD	CEMENT	DIRECTIONAL	LOGS	BITS	COMMENTS
36"	Conductor Rig	30" 81.3# LS				AIR	To Surface	N/A	N/A		Stabilize surface fill/soil
			Conductor	100	100						
24"	Top-Hole	20" 94# J-55 BTC	Sewickley Coal	455		AIR	15.6ppg to surface 521sx w/ 30% OH excess	20" Air Hammer Totco at TD	CBL Log Cased hole NPHI, GR at Pilot TD in Pilot Well only	Carbide hammer bit	Protect fresh groundwater
			Pittsburgh Coal	655							
			Surf. Casing	730	730						
17.5"	Top-Hole	13-3/8" 54.5# J-55 BTC	Big Lime	1525		AIR	15.2ppg to surface 556sx w/ 30% OH excess	Center Rock 15" Air Hammer Gyro above Coal, (Mine Approval) Totco at TD		Hammer bit w/ diamond gage Test casing to 800psi	
			Greenbrier Group	1592							
			Big Injun	1641							
			Int. Casing	1941	1941						
12.375" 12.25"	Horizontal Rig	9-5/8" 43.5# P-110 BTC	Tully LS	6216		AIR	15.4ppg to surface 936sx w/ 30% OH excess	12" Air Hammer Totco every 400ft	MWD surveys Mud Logger - 90 ft samples	Hammer bit w/ full face diamond Test casing to 1000psi	PU cleanout assembly, dress plug, displace to 12.0ppg SOBM, PU Curve BHA, time drill / KO cement plug. Expect Seepage in curve
			Hamilton	6245							
			Cherry Valley	6354							
			Marcellus Shale	6356							
			Onondaga Ls	6390							
			Oriskany Sandstone	6619							
			Salina Group	7203							
			Vernon Shale	7958							
			Lockport Dolomite	8175							
			Clinton Group	8890							
			Medina Group	8962							
Queenston Shale	9142										
8.5" Curve/Lateral	Horizontal Rig	5-1/2" 23# HCP-110 BPN	Utica Shale	11042		-/- 14.5 ppg SOB	14.8ppg TOC >= 200' Above 9,625 shoe 4455sx w/ 15% OH excess	6.75" PDM & MWD 2.38" ADJ Bend (10" Build DLS)	MWD Surveys Mud Logger - 30 ft samples (Curve) 90 ft samples (Lateral)	PDC 5 - 25 WOB 100 - 120 RPM 450 - 500 GPM	Geosteering
			Point Pleasant Formation	11395							
			Curve LP								
			TARGET								
			Production Casing								

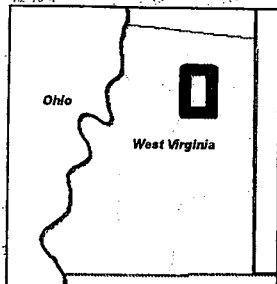
8.5 Hole - Cemented Long String 5-1/2" 23# HCP-110 BPN

8.5" Pilot	HRT Rig	Isolation/Sidetrack Cement Plugs	Trenton Limestone			-/- 14.5 ppg SOB	17.5ppg Class H from TD to 200' above KOP (2) 800' balanced plugs w/ 2.375" tubing	8" Air Hammer Totco every 400ft	OH logs, as directed by APP Operations Dir. Surveys TD to shoe	Hammer bit w/ full face diamond	
			Pilot Hole TD	11595							

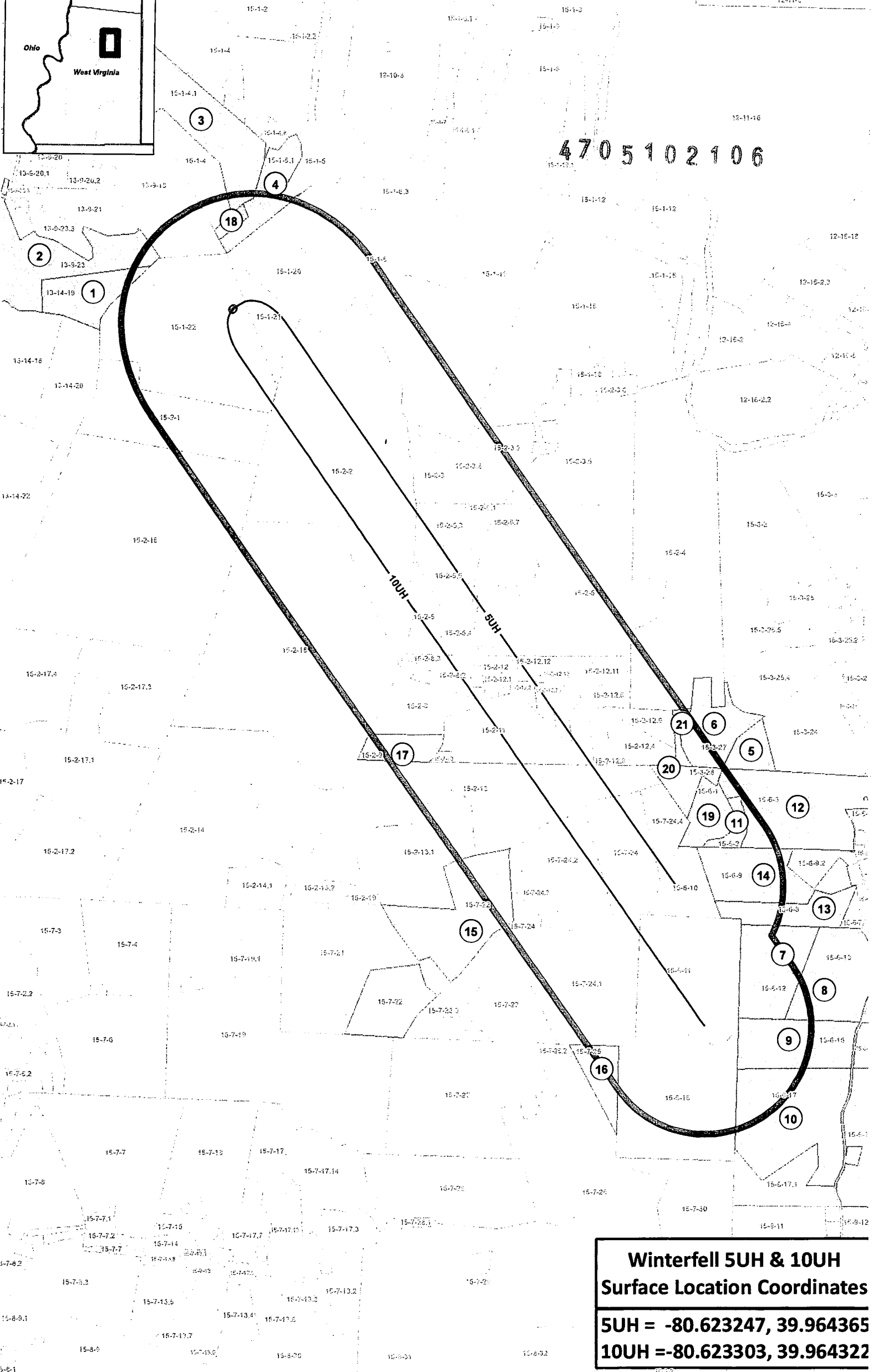
Lateral Targets	Landing Point 11395 TVD 11787 MD	90.5 degrees	11447 ft Lateral Length	90.5 Inc 325 Az	Total Depth 11395 TVD 23234 TD
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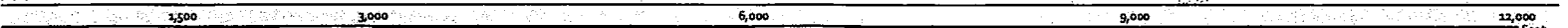
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4705102106



**Winterfell 5UH & 10UH
Surface Location Coordinates**
5UH = -80.623247, 39.964365
10UH = -80.623303, 39.964322



Winterfell 5UH & 10UH - Offset Operators

Marshall County
West Virginia

Coordinate System: NAD 83 UTM Zone 18N
Projection: Transverse Mercator
Datum: North American 83

Map Scale Units: 1:18,000
1 inch = 1,500 feet

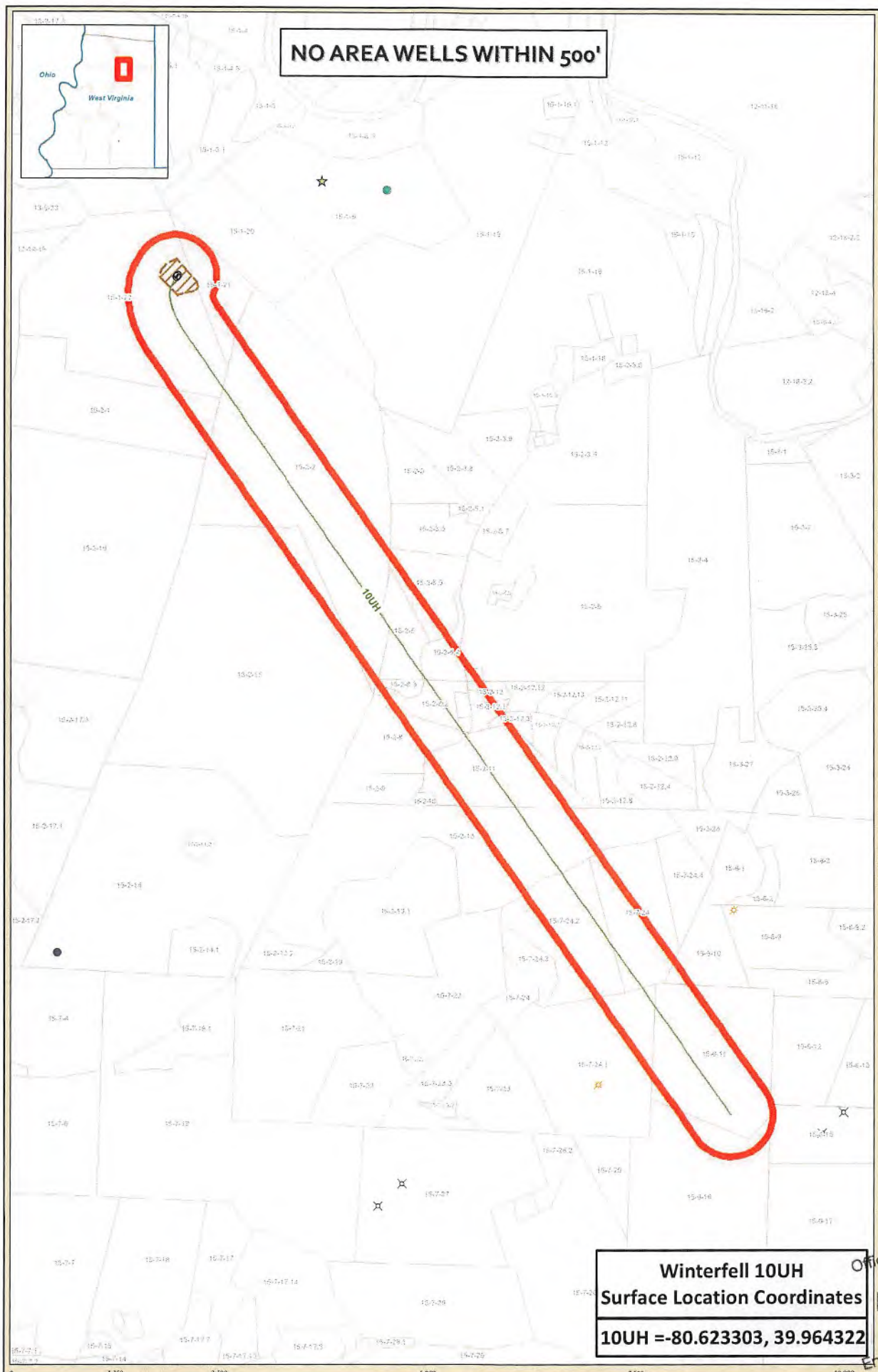
Map Author: JKS
Map Date: 8/2/2018

- Well SHL
- Laterals
- 1500' Buffer
- Unit
- Parcels
- Offset Operators





NO AREA WELLS WITHIN 500'

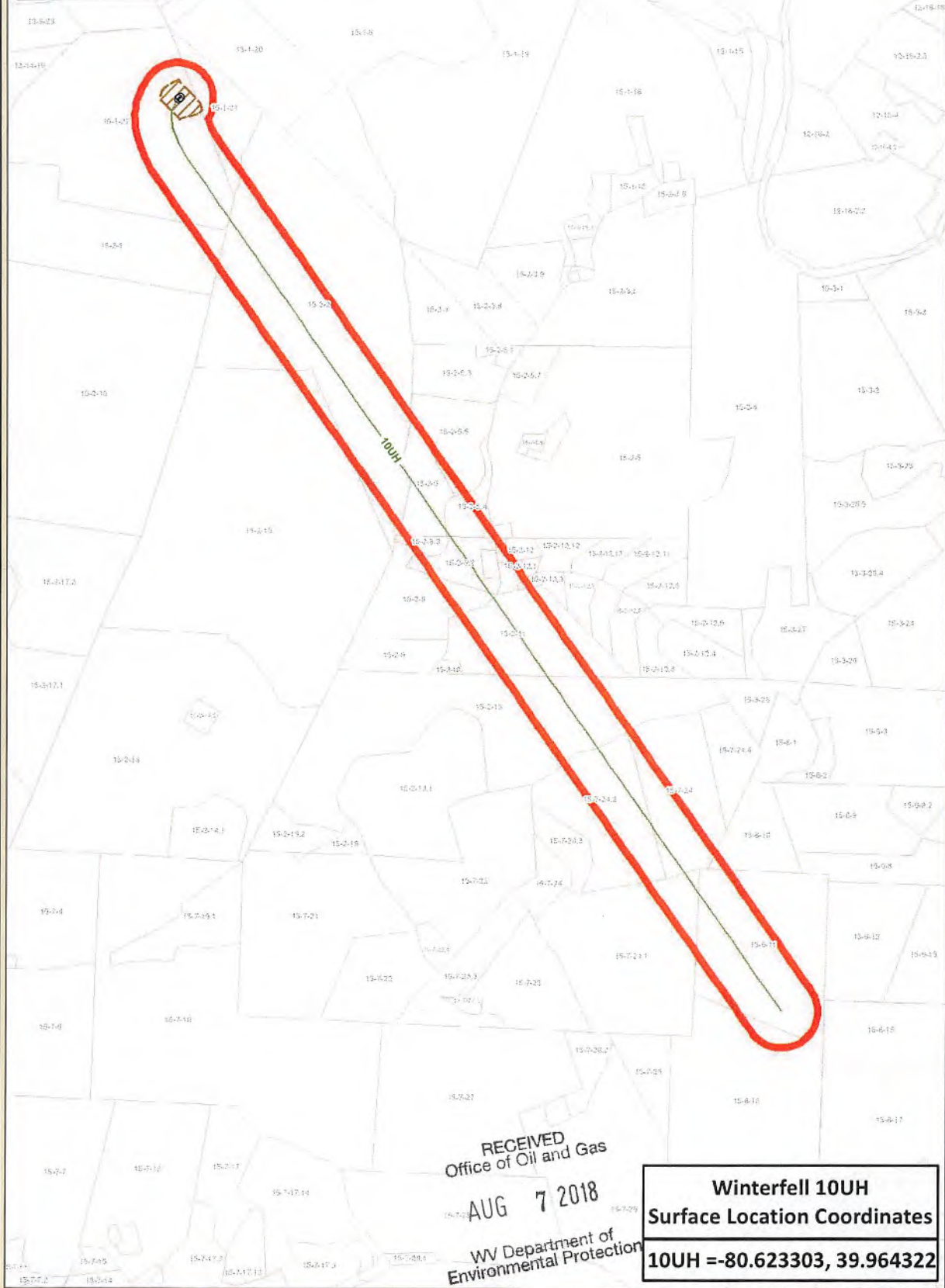


**Winterfell 10UH
Surface Location Coordinates**
10UH = -80.623303, 39.964322

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Winterfell 10UH - All Area Wells			
Marshall County West Virginia	Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983 Linear Units: Meter	Map Scale Units: 1:16,000 1 inch = 1,333 feet	Map Author: JKS Map Date: 10/2018
Well SHL	Well Pad	Other	Marcellus Well
Laterals	500' buffer	Abandoned Well	Permit / Future Use
		Active Well	Shutin
		Marcellus Permit	Utica Permit
			Utica Well
			Plugged





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**Winterfell 10UH
Surface Location Coordinates**
10UH = -80.623303, 39.964322

Winterfell 10UH - 400' Buffer

Marshall County
West Virginia

Coordinate System: NAD 1983 UTM Zone 17N
Projection: Transverse Mercator
Datum: North American 1983
Linear Units: Meter

Map Scale Units:
1:15,000
1 inch = 1,250 feet

Map Author: JCS
Map Date: 7/27/2018

- Well SHL
- Laterals
- Parcels
- Well Pad
- 400' buffer



WW-9
(4/16)

API Number 47 - 051 4705102106
Operator's Well No. Winterfell 10 UH

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

4705 - 02106

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name American Petroleum Partners Operating, LLC OP Code 494521257

Watershed (HUC 10) Upper Ohio South Quadrangle Majorsville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Undergound 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. Air/water based mud through intermediates then SOBMM

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? See attached sheet with list.

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill - See attached sheet

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? See Attached Sheet

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated 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 _____

Company Official (Typed Name) Braulio Silva

Company Official Title Vice President - Drilling

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Subscribed and sworn before me this 2nd day of August, 20 18

Earline Bugay / Earline Bugay

Notary Public, COMMONWEALTH OF PENNSYLVANIA

My commission expires 1/23/2020

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

American Petroleum Partners Operating, LLC

4705 * 02106

Proposed Revegetation Treatment: Acres Disturbed 8.3 Prevegetation pH 6.0

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

Fertilizer type 10-20-20 or Equal

Fertilizer amount 500 lbs/acre

Mulch Hay or Straw at 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye Grass	40	Crownvetch	10-15
Filed Bromegrass	40	Tall Fescue	30
Spring Oats	96	Perennial Ryegrass	20

*Refer to attached Reclamation Plan for further detail.

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jim Mulvaney*

Comments: _____

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Title: WV DEP Oil and Gas Inspector

Date: 8/2/18

Field Reviewed? () Yes () No

Additives for Drilling Medium

4705 : 02106

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

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Cuttings Disposal/Site Water

4705 · 02106

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
Cochranon, 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
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

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4705102106

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

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

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

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions
11942 Veterans Memorial Highway
Masontown, WV 26542

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

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

Disposal Locations:

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

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

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

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

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

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

Equipment Transport
1 Tyler Court
Carlisle, PA 17015

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

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

Nichlos 1-A (SWIW #13)
Permit # 3862
300 Cherrington Pkwy, Suite 200
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

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WV Department of
Environmental Protection

4705102106

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

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

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

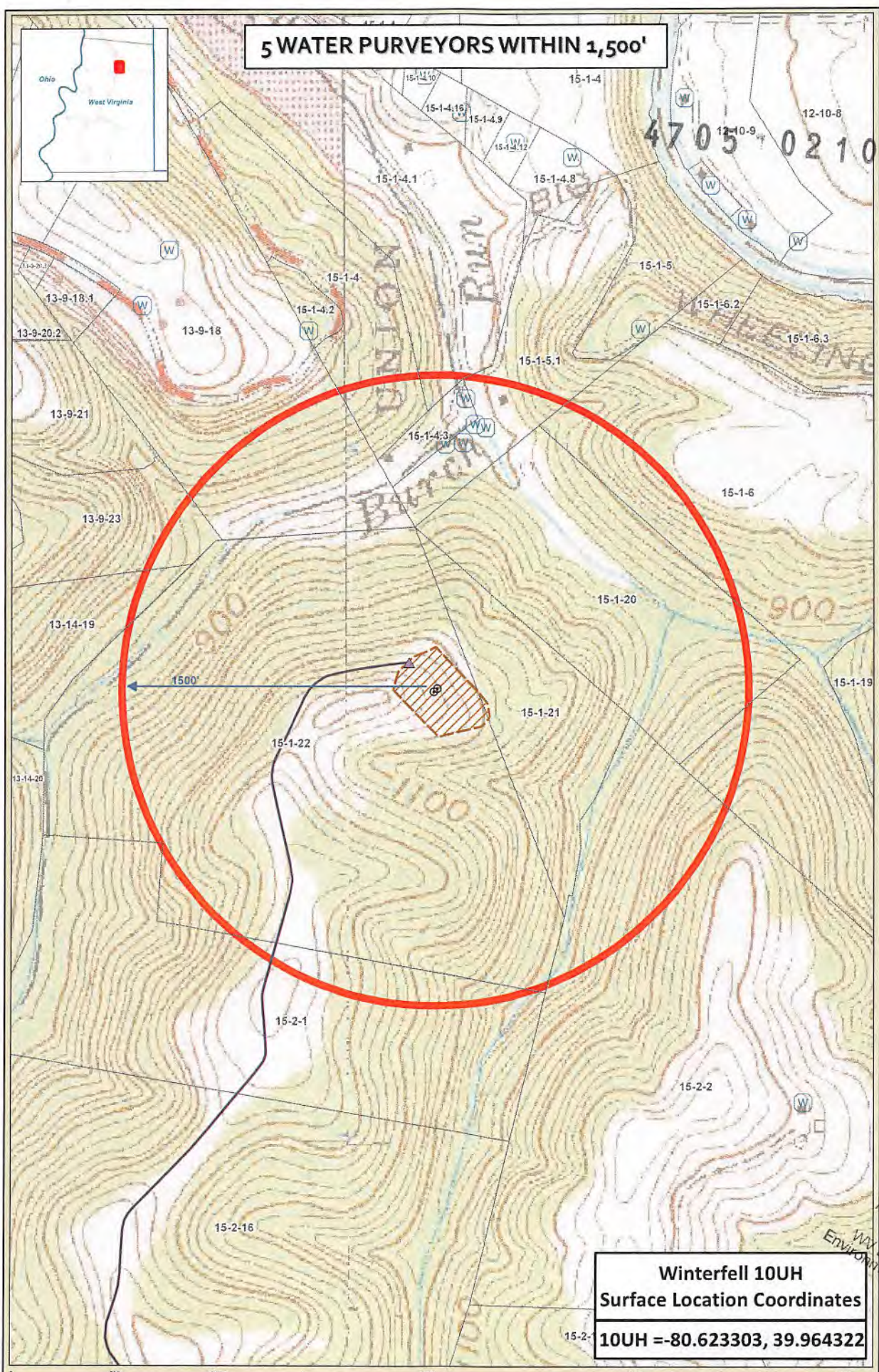
Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas & Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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5 WATER PURVEYORS WITHIN 1,500'



**Winterfell 10UH
Surface Location Coordinates**
10UH = -80.623303, 39.964322

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Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

Winterfell 10UH - Water Source			
Marshall County West Virginia	Coordinate System: NAD 1983 UTM Zone 18N Projection: Transverse Mercator Datum: North American 1983 Linear Units: Meter	Map Scale Units: 1:5,000 1 inch = 400 feet	Map Author: JCS Map Date: 12/2018
Well SHL	Well Pad	Access Rd Intersection	Water Well
Access Road	Parcels	1,500' Buffer	



**AMERICAN
PETROLEUM
PARTNERS**

4705102106

Site Safety Plan

American Petroleum Partners Operating, LLC

Dire Wolf- Winterfell Well Pad 10uH

1500 Oxen Drive

Moundsville, WV 26041

June 2018: Version 1

JW
8/2/18

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

American Petroleum Partners Operating, LLC

4600 J. Barry Ct

Suite 310

Canonsburg, PA 15317

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Office of Oil and Gas

AUG 7 2018

WV Department of
Environmental Protection

Well is located on topo map 12,996 feet south of Latitude: 40° 00' 00"
 BHL is located on topo map 7,871 feet south of Latitude: 39° 57' 30"

Sheffler & Company, Inc.
 ENGINEERING • SURVEYING

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

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WVA1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- UNIT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- WELLS WITHIN 3000'
- STREAM/POND/WATERWAY
- ROAD
- FORCE POOLED PARCEL

WELLS WITHIN 3000'
 FIVE (5) WELLS WITHIN 3000'

MONUMENT REFERENCE TABLE

LINE NO	BEARING	DISTANCE
R1	N55°54'31"E	548.45'
R2	S19°47'05"W	332.20'
R3	N21°35'15"E	544.70'
R4	N80°56'11"E	1857.84'
R5	S5°44'14"E	797.88'

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83
 N: 4423865.277(m)
 E: 532171.519(m)
 NAD27 - WV NORTH
 N: 535288.523(ft)
 E: 1685084.942(ft)
 LAT/LON - NAD83
 LAT: N39.9643222(d)
 LON: W80.6233029(d)

APPROXIMATE LANDING POINT

UTM 17 - NAD83
 N: 4423668.034(m)
 E: 532204.124(m)
 NAD27 - WV NORTH
 N: 534639.475(ft)
 E: 1685181.116(ft)
 LAT/LON - NAD83
 LAT: N39.9625439(d)
 LON: W80.6229309(d)

BOTTOM HOLE LOCATION (BHL)

UTM 17 - NAD83
 N: 4420811.206(m)
 E: 534204.496(m)
 NAD27 - WV NORTH
 N: 525154.827(ft)
 E: 1691588.502(ft)
 LAT/LON - NAD83
 LAT: N39.9367263(d)
 LON: W80.5996597(d)

PROPOSED LATERAL LENGTH = 11,447' ±

REFERENCE DETAIL



TOTAL UNIT
 469.56 ACRES

NOTES

1. There are no water wells or developed springs within 250' of proposed well
2. There are no existing buildings within 625' of proposed well
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake
4. There are no native trout streams within 300' of proposed well
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply
6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted
7. Mineral and Surface parcel lines are the same

FILE # WINTERFELL-10UH
 DRAWING # WINTERFELL - 10UH - R6.DWG
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX0742: 1343.3'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: [Signature]
 R.P.E.: 21452 L.L.S.: P.S. NO.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV
 SURFACE OWNER: HARRIS, BRENDA J., ET AL ACREAGE: 86.13 ACRES
 OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008;
HARRIS, BRENDA J., WHITLATCH, DEBORAH; AND PLANTS, JAMES W. ACREAGE: 86.13

DATE: July 26, 2018 - REV - October 15, 2018
 OPERATOR'S WELL #: WINTERFELL-10UH
 API WELL # 47 051 02106 H6A
 STATE COUNTY PERMIT

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN
 Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000
 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

Well is located on topo map 11,204 feet west of Longitude: 80° 35' 00"
 BHL is located on topo map 4,578 feet west of Longitude: 80° 35' 00"

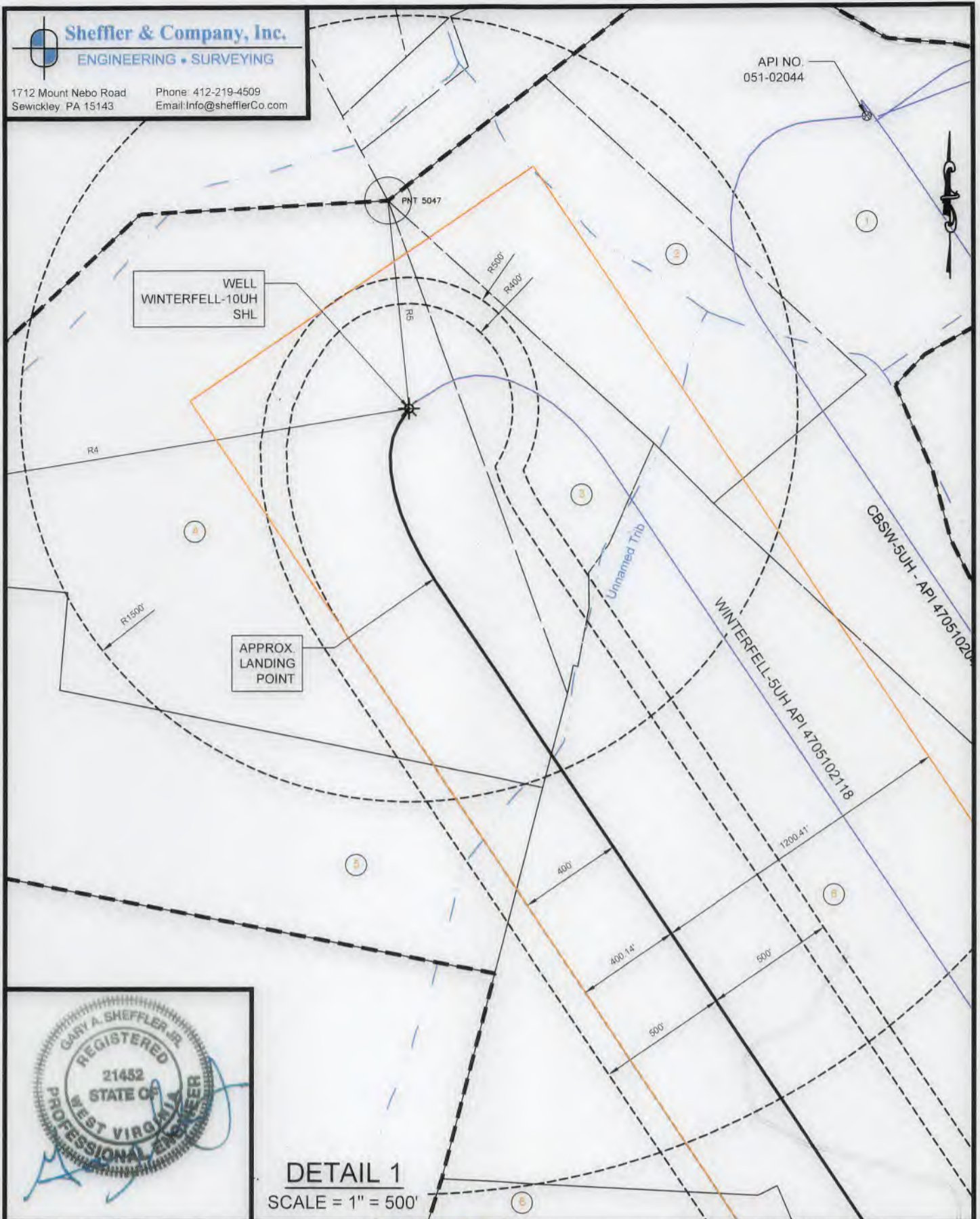


Sheffler & Company, Inc.
ENGINEERING • SURVEYING

1712 Mount Nebo Road
Sewickley PA 15143

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

API NO.
051-02044



DETAIL 1
SCALE = 1" = 500'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: July 26, 2018 - REV - October 15, 2018

OPERATOR'S WELL #: WINTERFELL-10UH

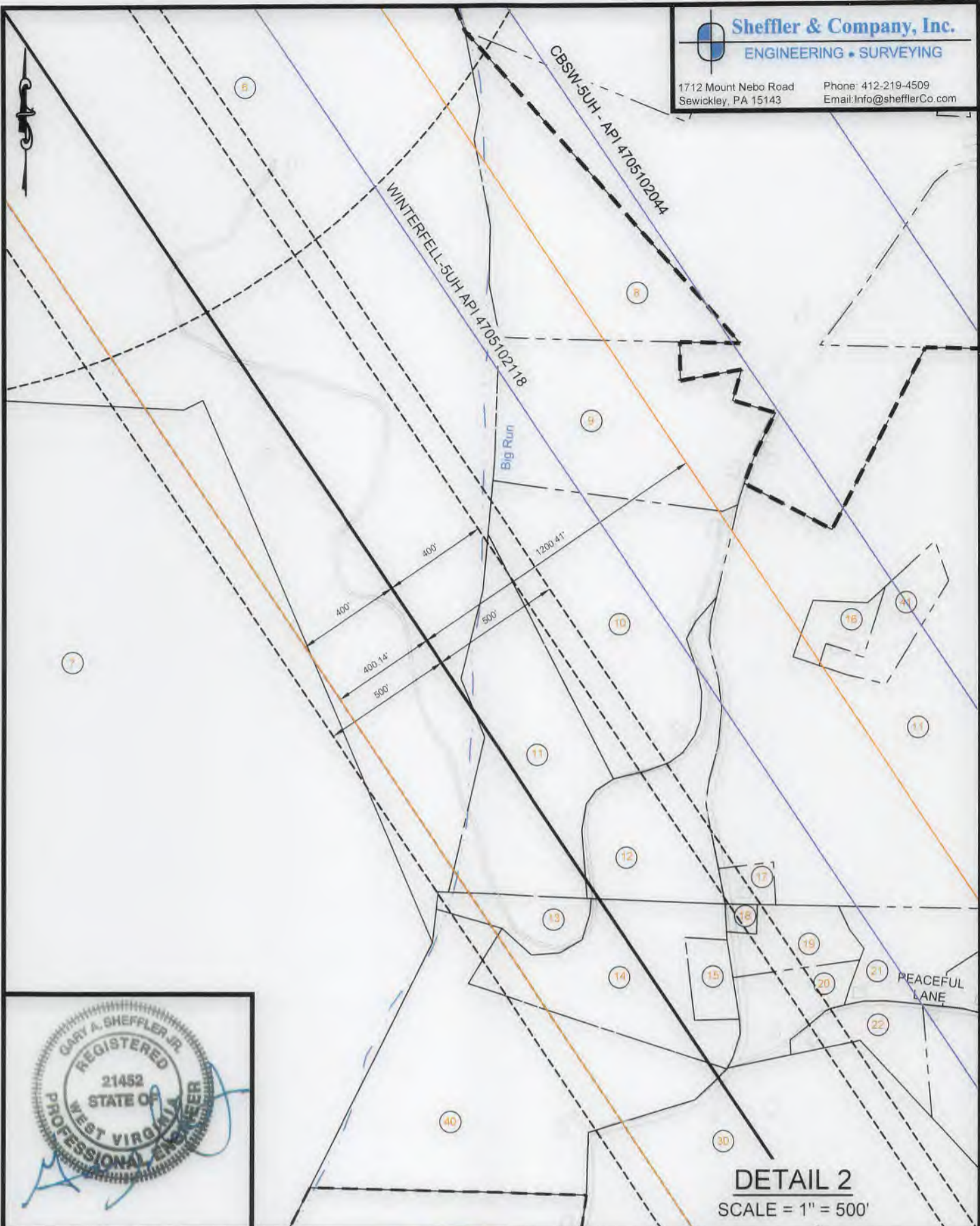
API WELL # 47 051 02106 HGA
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'
COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV
SURFACE OWNER: HARRIS, BRENDA J., ET AL. ACREAGE: 86.13 ACRES
OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008;
HARRIS, BRENDA J., WHITLATCH, DEBORAH, AND PLANTS, JAMES W. ACREAGE: 86.13

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±
WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN
Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000
City: CANONSBURG State: PA Zip Code: 15317 City: CHARLESTON State: WV Zip Code: 25301



DETAIL 2
 SCALE = 1" = 500'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



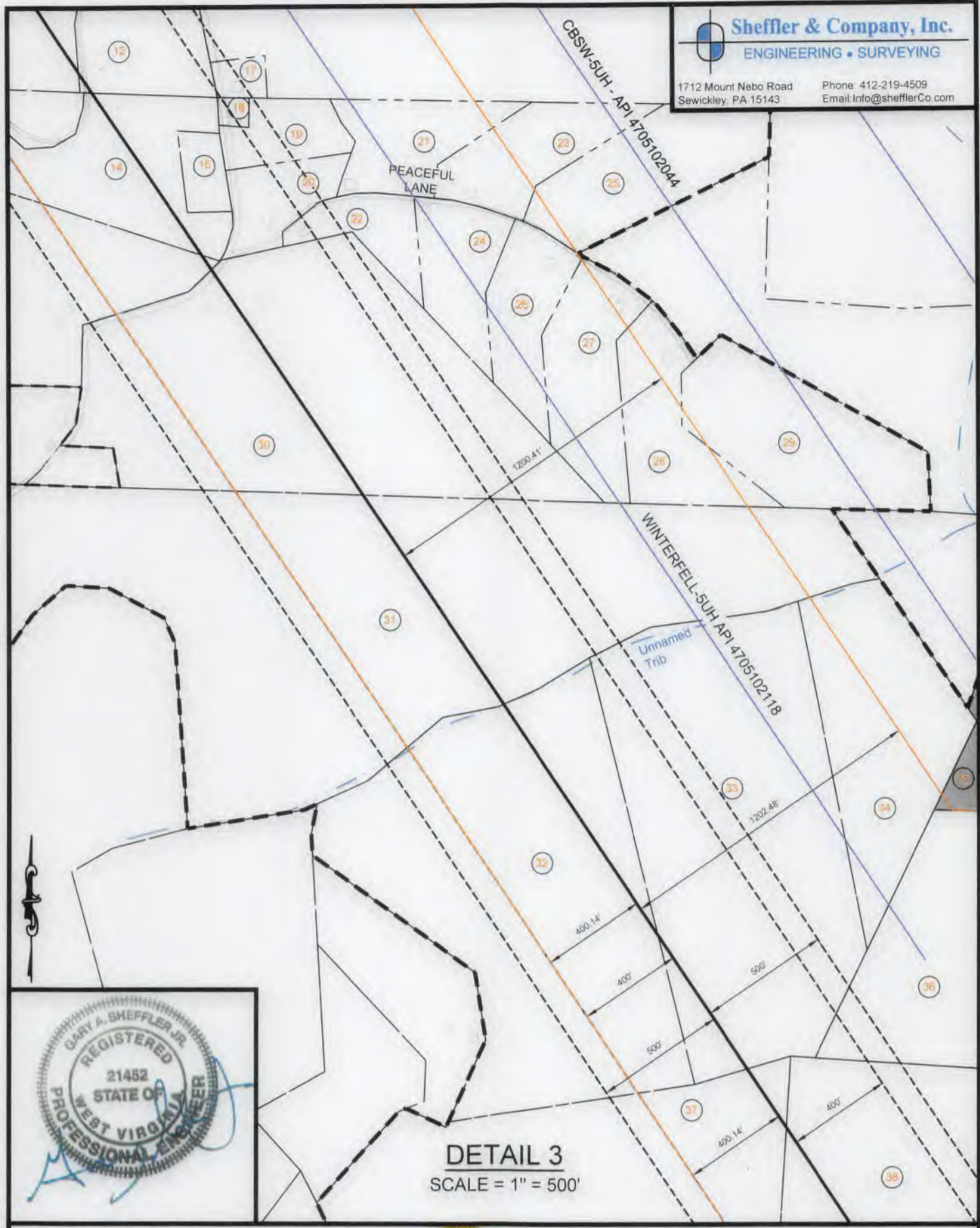
DATE: July 26, 2018 - REV - October 15, 2018
 OPERATOR'S WELL #: WINTERFELL-10UH
 API WELL # 47 051 02106 **H6A**
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV
 SURFACE OWNER: HARRIS, BRENDA J., ET AL. ACREAGE: 86.13 ACRES
 OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008;
 HARRIS, BRENDA J., WHITLATCH, DEBORAH; AND PLANTS, JAMES W. ACREAGE: 86.13

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN
 Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000
 City: CANONSBURG State: PA Zip Code: 15317 City: CHARLESTON State: WV Zip Code: 25301



DETAIL 3
 SCALE = 1" = 500'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



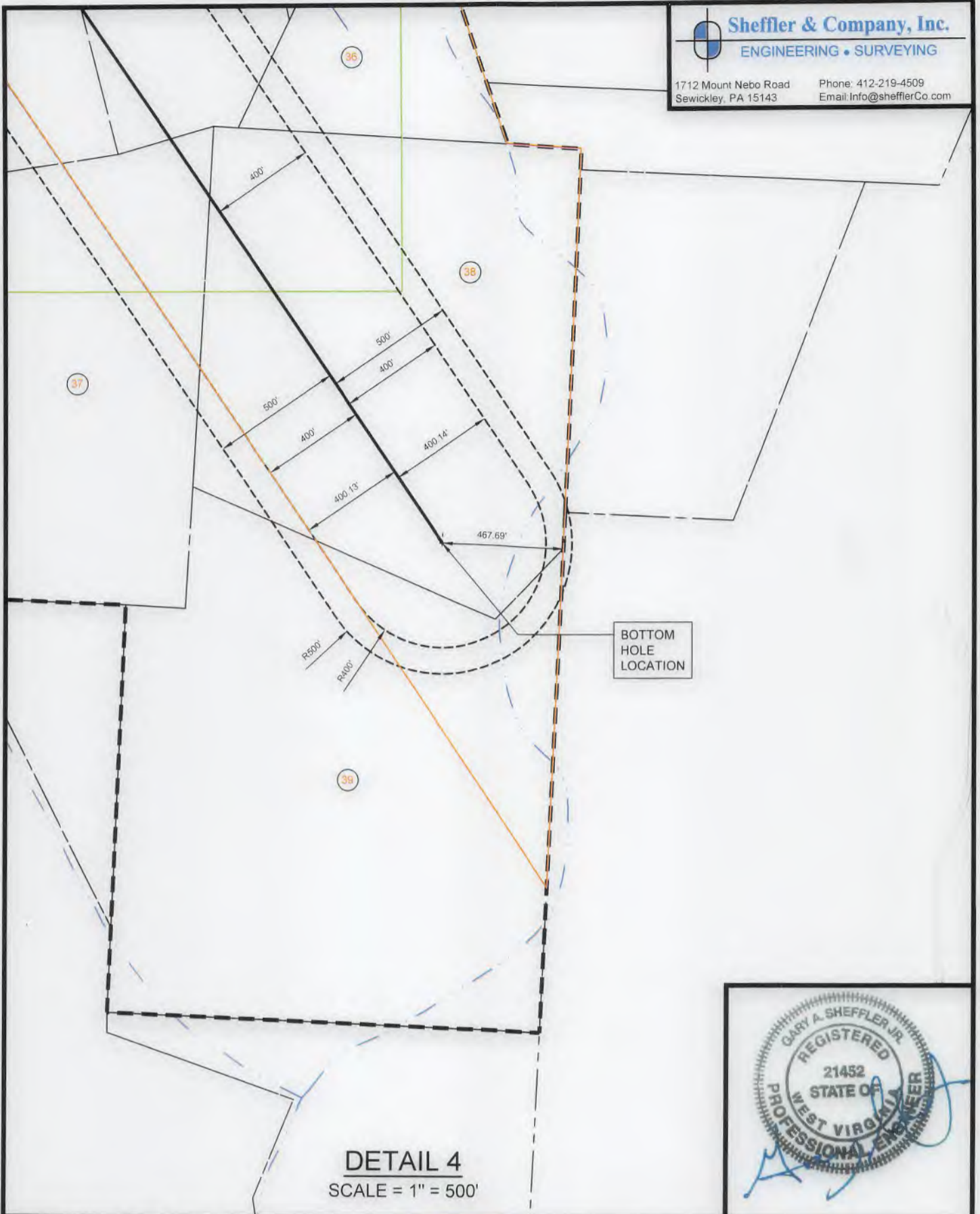
DATE: July 26, 2018 - REV - October 15, 2018
 OPERATOR'S WELL #: WINTERFELL-10UH
 API WELL # 47 051 02106 **H6A**
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV
 SURFACE OWNER: HARRIS, BRENDA J., ET AL. ACREAGE: 86.13 ACRES
 OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008:
 HARRIS, BRENDA J.; WHITLATCH, DEBORAH, AND PLANTS, JAMES W ACREAGE: 86.13

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN
 Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000
 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



DETAIL 4
SCALE = 1" = 500'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP

OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV

SURFACE OWNER: HARRIS, BRENDA J., ET AL. ACREAGE: 86.13 ACRES

OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008;

HARRIS, BRENDA J.; WHITLATCH, DEBORAH; AND PLANTS, JAMES W. ACREAGE: 86.13

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±

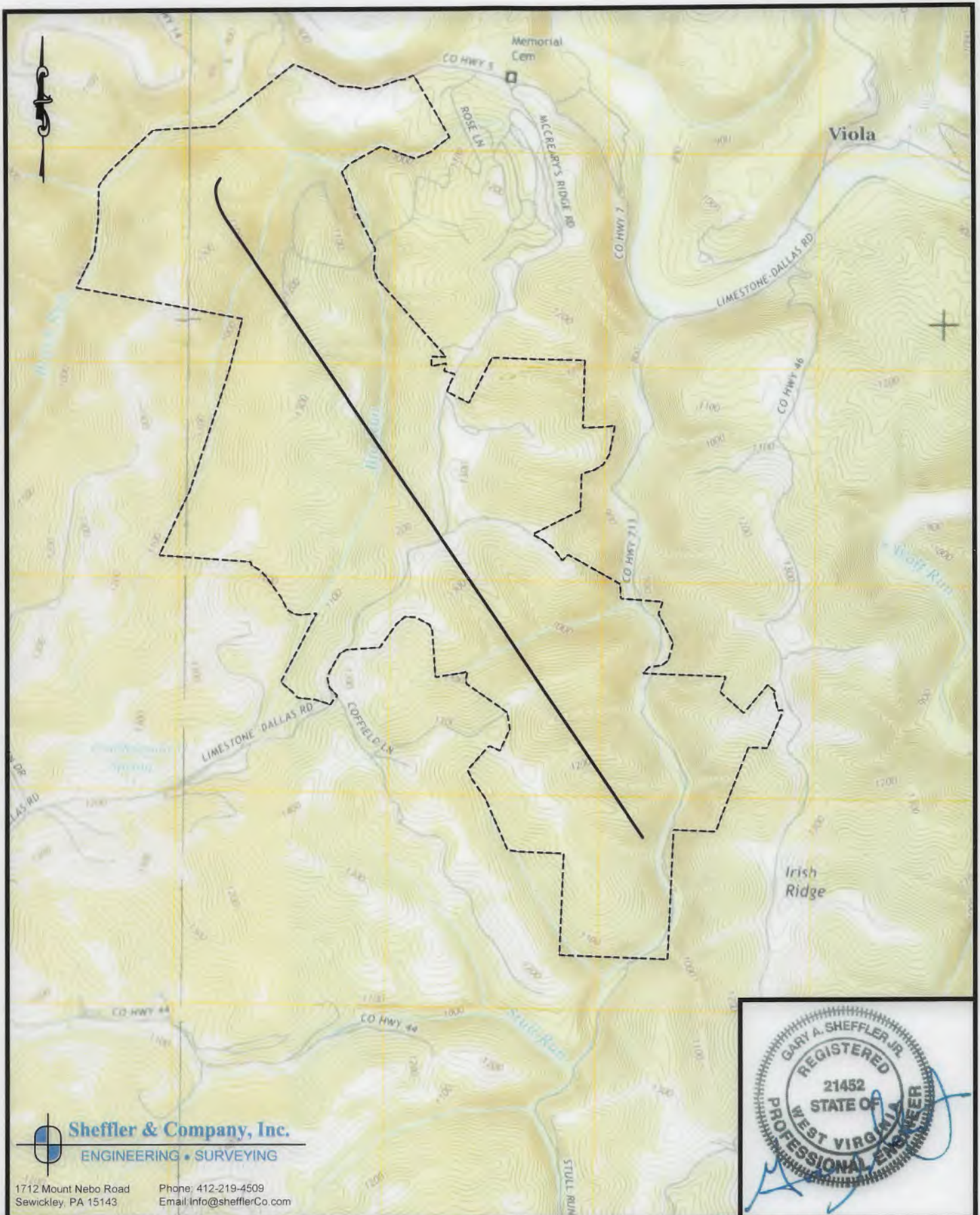
WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



DATE: July 26, 2018 - REV - October 15, 2018
OPERATOR'S WELL #: WINTERFELL-10UH
API WELL # 47 051 02106 **H6A**
STATE COUNTY PERMIT



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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: July 26, 2018 - REV - October 15, 2018

OPERATOR'S WELL #: WINTERFELL-10UH

API WELL # 47 051 02106 **HGA**
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV

SURFACE OWNER: HARRIS, BRENDA J., ET AL. ACREAGE: 86.13 ACRES

OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008;
HARRIS, BRENDA J.; WHITLATCH, DEBORAH; AND PLANTS, JAMES W ACREAGE: 86.13

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



1 TAX MAP NO.
15-0001-0006-0000-0000
ASSESSED ACREAGE: 89.01 ACRES

SURFACE OWNERS:
GEETA

MINERAL OWNERS:
ECO-VRINDABAN, INC.

8 TAX MAP NO.
15-0002-0003-0000-0000
ASSESSED ACREAGE: 12.45 ACRES

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

MINERAL OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

15 TAX MAP NO.
15-0002-0008-0001-0000
ASSESSED ACREAGE: 1.12 ACRES

SURFACE OWNERS:
CONNOR, LISA M.

MINERAL OWNERS:
GIESER, LISA M.

2 TAX MAP NO.
15-0001-0020-0000-0000
ASSESSED ACREAGE: 30.00 ACRES

SURFACE OWNERS:
GEETA

MINERAL OWNERS:
CHESTNUT HOLDING INC.

9 TAX MAP NO.
15-0002-0005-0003-0000
ASSESSED ACREAGE: 14.19 ACRES

SURFACE OWNERS:
ORDONEZ, CARLOS

MINERAL OWNERS:
ORDONEZ, CARLOS

16 TAX MAP NO.
15-0002-0005-0006-0000
ASSESSED ACREAGE: 1.25 ACRES

SURFACE OWNERS:
L. ONE, LLC

MINERAL OWNERS:
L. ONE, LLC

3 TAX MAP NO.
15-0001-0021-0000-0000
ASSESSED ACREAGE: 13.00 ACRES

SURFACE OWNERS:
HARRIS, BRENDA J., ET AL.

MINERAL OWNERS:
WHITLATCH, DEBORAH
HARRIS, BRENDA J.
PLANTS, JAMES W.
RONALD W. & CAROLIE M., TRUSTEES OF
THE PLANTS FAMILY IRREVOCABLE
TRUST DATED OCTOBER 2, 2008

10 TAX MAP NO.
15-0002-0005-0005-0000
ASSESSED ACREAGE: 15.32 ACRES

SURFACE OWNERS:
WEBER, GIRIDHARI D.

MINERAL OWNERS:
WEBER, GIRIDHARI D.

17 TAX MAP NO.
15-0002-0005-0002-0000
ASSESSED ACREAGE: 0.87 ACRES

SURFACE OWNERS:
SINGH, TARAN, ET AL.

MINERAL OWNERS:
RAMKAREE, SABITREE S.
SINGH, TARAN

4 TAX MAP NO.
15-0001-0022-0000-0000
ASSESSED ACREAGE: 86.13 ACRES

SURFACE OWNERS:
HARRIS, BRENDA J., ET AL.

MINERAL OWNERS:
HARRIS, BRENDA J.
WHITLATCH, DEBORAH
PLANTS, JAMES W.
RONALD W. & CAROLIE M., TRUSTEES OF
THE PLANTS FAMILY IRREVOCABLE
TRUST DATED OCTOBER 2, 2008

11 TAX MAP NO.
15-0002-0005-0000-0000
ASSESSED ACREAGE: 113.88 ACRES

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

18 TAX MAP NO.
15-0002-0012-0002-0000
ASSESSED ACREAGE: 0.21 ACRES

SURFACE OWNERS:
SINGH, TARAN, ET AL.

MINERAL OWNERS:
RAMKAREE, SABITREE S.
SINGH, TARAN

5 TAX MAP NO.
15-0002-0001-0000-0000
ASSESSED ACREAGE: 56.10 ACRES

SURFACE OWNERS:
APP MINERALS LLC

MINERAL OWNERS:
APP MINERALS LLC

12 TAX MAP NO.
15-0002-0005-0004-0000
ASSESSED ACREAGE: 6.63 ACRES

SURFACE OWNERS:
SATSANGI, ADITYA, ET UX.

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

19 TAX MAP NO.
15-0002-0012-0000-0000
ASSESSED ACREAGE: 2.29 ACRES

SURFACE OWNERS:
SINGH, TARAN, ET AL.

MINERAL OWNERS:
SINGH, TARAN
RAMKAREE, SABITREE S.

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

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN

MINERAL OWNERS:
AMP FUND III, LP

13 TAX MAP NO.
15-0002-0008-0003-0000
ASSESSED ACREAGE: 2.00 ACRES

SURFACE OWNERS:
CLAYTON, JILL, ET AL.

MINERAL OWNERS:
ONE WORLD ONE FAMILY NOW
INC. (LIFE ESTATE)
CLAYTON, GOVINDA G. (REMAINDERMAN)
CLAYTON, JILL (REMAINDERMAN)
CLAYTON, VASUDEVA G. (REMAINDERMAN)

20 TAX MAP NO.
15-0002-0012-0001-0000
ASSESSED ACREAGE: 2.57 ACRES

SURFACE OWNERS:
THIBEAULT, PATRICIA

MINERAL OWNERS:
THIBEAULT, PATRICIA

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

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

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

14 TAX MAP NO.
15-0002-0008-0002-0000
ASSESSED ACREAGE: 8.00 ACRES

SURFACE OWNERS:
CONNOR, LISA M.

MINERAL OWNERS:
GIESER, LISA M.

21 TAX MAP NO.
15-0002-0012-0012-0000
ASSESSED ACREAGE: 3.95 ACRES

SURFACE OWNERS:
CARLSON, GREGORY D., ET AL.

MINERAL OWNERS:
MULCHAND, HEMA K.

(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: July 26, 2018 - REV - October 15, 2018

OPERATOR'S WELL #: WINTERFELL-10UH

API WELL # 47 051 02106 H6A
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV

SURFACE OWNER: HARRIS, BRENDA J., ET AL. ACREAGE: 86.13 ACRES

OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008;
HARRIS, BRENDA J.; WHITLATCH, DEBORAH; AND PLANTS, JAMES W. ACREAGE: 86.13

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

22 TAX MAP NO
15-0002-0012-0003-0000
ASSESSED ACREAGE: 2.29 ACRES

SURFACE OWNERS:
ONE WORLD ONE FAMILY NOW, INC

MINERAL OWNERS:
ONE WORLD ONE FAMILY NOW, INC.

29 TAX MAP NO
15-0002-0012-0004-0000
ASSESSED ACREAGE: 8.42 ACRES

SURFACE OWNERS:
MOHAN, NAIETHANI P., ET AL

MINERAL OWNERS:
NATHANI PRAKASH MOHAN & RENATA BRUZA

36 TAX MAP NO
15-0006-0010-0000-0000
ASSESSED ACREAGE: 14.11 ACRES

SURFACE OWNERS:
KWATKOSKI ANGELIQUE A., ET AL

MINERAL OWNERS:
KWATKOSKI, AARON A
SCHWEINEBRATEN, ANGELIQUE A.

23 TAX MAP NO
15-0002-0012-0013-0000
ASSESSED ACREAGE: 3.98 ACRES

SURFACE OWNERS:
HANSON, JESSE S., ET UX.

MINERAL OWNERS:
HANSON, JESSE S., ET UX.

30 TAX MAP NO
15-0002-0011-0000-0000
ASSESSED ACREAGE: 29.65 ACRES

SURFACE OWNERS:
SEWARD, RALPH J., ET AL.

MINERAL OWNERS:
SEWARD, RALPH J. ET AL.

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

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

MINERAL OWNERS:
ECO-VRINDABAN, INC. D/B/A GEETA

24 TAX MAP NO
15-0002-0012-0007-0000
ASSESSED ACREAGE: 3.79 ACRES

SURFACE OWNERS:
DUDZINSKA, IWONA

MINERAL OWNERS:
DUDZINSKA, IWONA

31 TAX MAP NO
15-0002-0013-0000-0000
ASSESSED ACREAGE: 94.03 ACRES

SURFACE OWNERS:
BOCK, JEFFREY T.

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

38 TAX MAP NO
15-0006-0011-0000-0000
ASSESSED ACREAGE: 40.00 ACRES

SURFACE OWNERS:
MILLER, R. CRAIG, ET UX.

MINERAL OWNERS:
MILLER, R. CRAIG ET UX.
RESOURCE MINERALS HEADWATER I, LP

25 TAX MAP NO
15-0002-0012-0011-0000
ASSESSED ACREAGE: 6.17 ACRES

SURFACE OWNERS:
CLOTHIER, VRINDA D., ET AL.

MINERAL OWNERS:
VRINDA D. CLOTHIER & CHRISTOPHER
L. HARKNESS AS JOINT TENANTS WITH
RIGHT OF SURVIVORSHIP, AND
VRINDA CLOTHIER

32 TAX MAP NO
15-0007-0024-0002-0000
ASSESSED ACREAGE: 30.93 ACRES

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

MINERAL OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

39 TAX MAP NO
15-0006-0016-0000-0000
ASSESSED ACREAGE: 77.40 ACRES

SURFACE OWNERS:
COFFIELD, WILLIAM E., ET UX

MINERAL OWNERS:
COFFIELD, WILLIAM E. ET UX.
COFFIELD, BETTY GENEVA

30 TAX MAP NO
15-0002-0012-0010-0000
ASSESSED ACREAGE: 4.05 ACRES

SURFACE OWNERS:
CLOTHIER, THOMAS

MINERAL OWNERS:
CLOTHIER, THOMAS

35 TAX MAP NO
P/O 15-0007-0024-0000-0000
ASSESSED ACREAGE: 57.64 ACRES

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

MINERAL OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

40 TAX MAP NO
15-0002-0008-0000-0000
ASSESSED ACREAGE: 19.21 ACRES

SURFACE OWNERS:
ONE WORLD ONE FAMILY NOW, INC.

MINERAL OWNERS:
ONE WORLD ONE FAMILY NOW, INC.

27 TAX MAP NO
15-0002-0012-0005-0000
ASSESSED ACREAGE: 5.78 ACRES

SURFACE OWNERS:
LUKOSEVICIUS, GINTARAS

MINERAL OWNERS:
LUKOSEVICIUS, GINTARAS

34 TAX MAP NO
15-0007-0024-0004
ASSESSED ACREAGE: 15.42 ACRES

SURFACE OWNERS:
MOREAU, DENIS J., ET AL.

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

41 TAX MAP NO
15-0002-0005-0008-0000
ASSESSED ACREAGE: 2.23 ACRES

SURFACE OWNERS:
LANE, LEON

MINERAL OWNERS:
LEON LANE AND CELERINA R. LANE

28 TAX MAP NO
15-0002-0012-0008-0000
ASSESSED ACREAGE: 5.59 ACRES

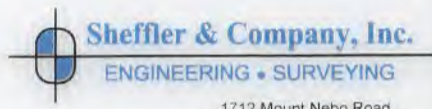
SURFACE OWNERS:
BAUER, SUSAN

MINERAL OWNERS:
BAUER, SUSAN
PIOWARCZYK, GRAZYNA & ANDRZEJ

35 TAX MAP NO
15-0006-0001-0000-0000
ASSESSED ACREAGE: 5 ACRES

SURFACE OWNERS:
GALL, EDNA S., ET AL.

MINERAL OWNERS:
MONTGOMERY, ANN B.
MILLER, ELLEN G.
ELLIOT, JANE B.
MURRAY, JANET G.
JOSEPH, KAREN
UNDERDONK, LESLIE GALL
HARCLERODE, LESLIE KAY
JACKSON, LISA ANN
LAUTAR, PAUL D.
SMITH, SUSAN GALL



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

(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: July 26, 2018 - REV - October 15, 2018

OPERATOR'S WELL #: WINTERFELL-10UH

API WELL #	47	051	02106 H6A
	STATE	COUNTY	PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,145.44'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, WV

SURFACE OWNER: HARRIS, BRENDA J. ET AL ACREAGE: 86.13 ACRES

OIL & GAS ROYALTY OWNER: RONALD W. & CAROLIE M., TRUSTEES OF THE PLANTS FAMILY IRREVOCABLE TRUST DATED OCTOBER 2, 2008;
HARRIS, BRENDA J.; WHITLATCH, DEBORAH; AND PLANTS, JAMES W. ACREAGE: 86.13

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 23,234' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

WW-6A1
(5/13)

Operator's Well No. Winterfell 10 UH

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See attached sheet

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

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

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

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

Well Operator: American Petroleum Partners Operating, LLC
 By: Braulio Silva
 Its: Vice President-Drilling

4705102106

Winterfell South East 10UH Wellbore Tracts

Map#	Lease#	Lessor	Current Lessee	Royalty	Recording Information	Parcel
4 ✓	WV-MAR-0659	Gerald Theodore Plants and Barbara Plants	American Petroleum Partners Operating, LLC	Not Less than 1/8th	684-347	15-1-22
4 ✓	WV-MAR-0696	James Walter Plants	American Petroleum Partners Operating, LLC	Not Less than 1/8th	684-569	15-1-22
4 ✓	WV-MAR-0660	Ronald W. Plants and Carolie M. Plants	American Petroleum Partners Operating, LLC	Not Less than 1/8th	684-562	15-1-22
6 ✓	WV-MAR-0107	Tatia Josephine Rose	American Petroleum Partners Operating, LLC	Not Less than 1/8th	831-280	15-2-2
6 ✓	WV-MAR-0109	Jonathan M. Cooke	American Petroleum Partners Operating, LLC	Not Less than 1/8th	831-278	15-2-2
6 ✓	WV-MAR-0015	AMP Fund III, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	925-459	15-2-2
11 ✓	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-2-5
12 ✓	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-2-5.4
14 ✓	WV-MAR-0068	Lisa M. Gieser f/k/a Lisa M. Conner f/k/a Lisa M. Turner	American Petroleum Partners Operating, LLC	Not Less than 1/8th	825-564	15-2-8.2

4705102106

30	WV-MAR-0089	Ralph J. Seward and Jane D. Seward	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-146	15-2-11
30	WV-MAR-0152	Pritha Canuto	American Petroleum Partners Operating, LLC	Not Less than 1/8th	838-517	15-2-11
31	WV-MAR-0094	Jeffrey T. Bock	American Petroleum Partners Operating, LLC	Not Less than 1/8th	830-119	15-2-13
32	WV-MAR-0122	ISKCON - NEW MATHURA VRINDABAN	American Petroleum Partners Operating, LLC	Not Less than 1/8th	833-247	15-7-24.2
33	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-7-24
37	WV-MAR-0083	ECO-Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-144	15-7-24.1
38	WV-MAR-0169	R. Craig Miller & Donita D. Miller	American Petroleum Partners Operating, LLC	Not Less than 1/8th	828-331	15-6-11
40	WV-MAR-0021	One World One Family Now Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	825-510	15-2-8

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION 4705102106

Date of Notice Certification: 8/2/2018

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

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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>532171.519</u>
County: <u>Marshall</u>		Northing: <u>4423865.277</u>
District: <u>Webster</u>	Public Road Access: <u>McCreary's Ridge Road (CR 7)</u>	
Quadrangle: <u>Majorsville</u>	Generally used farm name: <u>Brenda J. Harris</u>	
Watershed: <u>Upper Ohio South</u>		

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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
--	---

RECEIVED
Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

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.

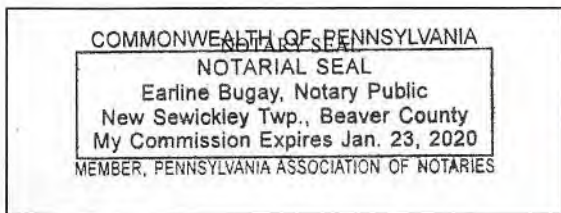
Certification of Notice is hereby given:

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

Well Operator: American Petroleum Partners Operating, LLC
By: Braulio Silva
Its: Vice President-Drilling
Telephone: 1-724-338-8629

Address: 4600 J. Barry Court Suite 310
Canonsburg, PA 15317
Facsimile: na
Email: Regulatory@app-lp.com

4705102106



Subscribed and sworn before me this 2nd day of August 2018
Earline Bugay / Earline Bugay Notary Public
My Commission Expires 1/23/2020

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

**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: 08/02/2018 **Date Permit Application Filed:** 08/03/2018

Notice of:

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

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

- PERSONAL SERVICE REGISTERED MAIL 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.

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

SURFACE OWNER(s)
Name: Brenda J. Harris, et al
Address: 45316 State Route 800
Woodfield, OH 43793

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Mark K. Meberg Et Ux & Mary P. Meberg
Address: 325 McCreary's Ridge
Moundsville, WV 26041

Name: Marian E. Phillips
Address: 247 Oxen Drive
Moundsville, WV 26041

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: The Ohio County Mine-Murray American Energy and Consolidation Coal Company
Address: 46226 National Road
St. Clairsville, OH 43950

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Melinda Dawn Wiselka
Address: 3305 Ward Street
Pittsburgh, PA 15213

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: None
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

WW-6A
(9-13)

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

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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- REGISTERED MAIL
- 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.

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

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Lakshmi D. Dove, Et Al & William E & Irene Dove, Et AL
Address: Rd 3 Box 278 B
Wheeling, WV 26003
Name: Gorakshya Seva & ENV EDU/ECO-VrinDaban, Inc.
Address: Rd 3 Box 278 B
Wheeling, WV 26003

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: State of West Virginia Conservation Commission
Address: 1900 Kanawaha BLVD. E.
Charleston, WV 25305

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas

AUG 7 2018

WV Department of
Environmental Protection

**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: 08/02/2018 **Date Permit Application Filed:** 08/03/2018

Notice of:

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

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

- PERSONAL SERVICE
- REGISTERED MAIL
- 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.

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

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

 COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: David Hunt
Address: 6906 Conley Street
Baltimore, MD 21224
Name: APP Minerals, LLC
Address: 4600 J. Barry Court, Suite 310
Canonsburg, PA 15317

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas

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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: 08/02/2018 Date Permit Application Filed: 08/03/2018

Notice of:

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

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

- PERSONAL SERVICE REGISTERED MAIL 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.

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

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Joyce Chiclone
Address: 61 Waymans Ridge
Moundsville, WV 26041

Name: David A. & Lonna C. Hudson
Address: 319 Oxen Drive
Moundsville, WV 26003

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas

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WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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AUG 7 2018
WV Department of Environmental Protection

Well Location Restrictions

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

WW-6A
(8-13)

4705102106
API NO. 47-051 -
OPERATOR WELL NO. Winterfell 10 UH
Well Pad Name: Dire Wolf-Winterfell

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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WV Department of
Environmental Protection

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WV Department of
Environmental Protection

WW-6A
(8-13)

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

Notice is hereby given by:

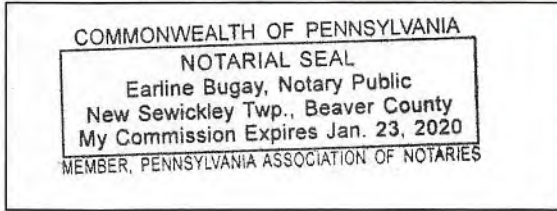
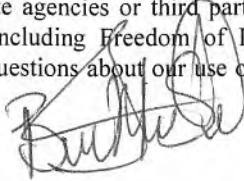
Well Operator: American Petroleum Partners Operating, LLC
Telephone: 1-724-338-8629
Email: Regulatory@APP-LP.com

Address: 4600 J. Barry Court, Suite 310
Canonsburg, PA 15317
Facsimile: na

4705102106

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



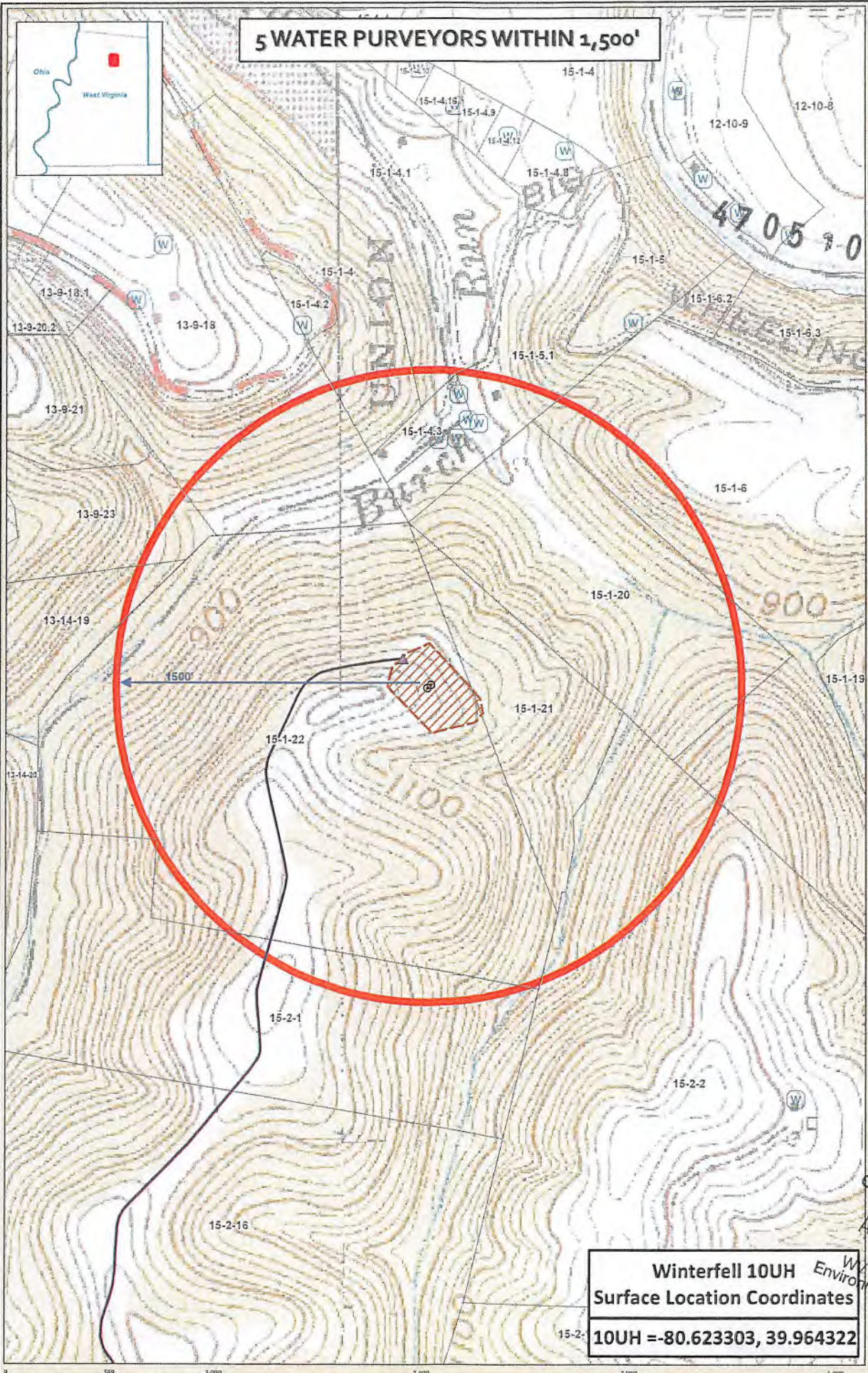
Subscribed and sworn before me this 2nd day of August 2018.
Earline Bugay / Earline Bugay Notary Public
My Commission Expires 1/23/2020

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WV Department of
Environmental Protection

5 WATER PURVEYORS WITHIN 1,500'



4705102106

**Winterfell 10UH
Surface Location Coordinates**
10UH = -80.623303, 39.964322

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WV Department of
Environmental Protection

Winterfell 10UH - Water Source

Marshall County West Virginia
Coordinate System: NAD 83
Map Scale Units: 1:5,000
Map Author: JES
Map Date: 11/2013

- Well SHL
- Well Pad
- Access Rd Intersection
- Access Road
- Parcels
- Water Well
- 1,500' Buffer



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: 7/17/18 **Date of Planned Entry:** 7/25/18

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
- REGISTERED MAIL
- 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: SEE ATTACHED
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: SEE ATTACHED
Address: _____

MINERAL OWNER(s)

Name: SEE ATTACHED
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-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: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>Latitude: 39.964394 & Longitude: -80.623344</u>
County: <u>Marshall</u>	Public Road Access: <u>Oxen Dr.</u>
District: <u>Webster</u>	Watershed: <u>Upper Ohio South</u>
Quadrangle: <u>Majorsville</u>	Generally used farm name: <u>Plants</u>

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 601 57th 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.

Notice is hereby given by:

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

Address: 4600 J. Barry Ct, Suite 310
Canonsburg, PA 15317
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. 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.

Office of Oil and Gas

AUG 7 2018

WV Department of Environmental Protection

WW-6A3
(1/12)

4705102106
Operator Well No. Winterfell 5UH, 9UH, 10UH

**SUPPLEMENTAL TO THE STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY**

SURFACE & MINERAL OWNER(S)

Name: Brenda J. Harris \

Address: 30 Virginia Oaks Drive
Moundsville, WV 26041

Name: James W. Plants \

Address: 2502 Hess Avenue
Wheeling, WV 26003

Name: Ronald W. Plants and Carolie M. Plants, Trustees of the Plants Family Irrevocable Trust dated October 2, 2008

Address: 2215 Pine Hill Rd
Wheeling WV 26003

Name: Deborah Whitlach \

Address: 30 Virginia Oaks Drive
Moundsville, WV 26041

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Office of Oil and Gas

AUG 7 2018

WV Department of
Environmental Protection

4705102106

Operator Well No. Winterfell SUH, 9UH, 10UH

WW-6A3
(1/12)

COAL OWNER(S)

Pittsburgh Coal and Mining Rights Owner:

Name: Consol Mining Company LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

All Coal (LESS Surface/Creek Vein and Pittsburgh) Owner:

Name: Consol Mining Company LLC (71/72)
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Joseph E. Barnes, Unknown Heirs and Assigns (1/72)
Address: Unknown Address

Surface/Creek Vein Coal Owner:

Name: Brenda J. Harris
Address: 30 Virginia Oaks Dr.
Moundsville, WV 26041

Name: James W. Plants
Address: 2502 Hess Avenue
Wheeling, WV 26003

Name: Ronald W. Plants and Carolie M. Plants, Trustees of the Plants Family Irrevocable Trust dated October 2, 2008

Address: 2215 Pine Hill Rd
Wheeling WV 26003

Name: Deborah Whitlach
Address: 30 Virginia Oaks Dr.
Moundsville, WV 26041

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AUG 7 2018

WV Department of
Environmental Protection

4755102106

WW-6A5
(1/12)

Operator Well No. Winterfell 10UH

**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: 08/02/2018 **Date Permit Application Filed:** 08/03/2018

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Mark K. Meberg Et Ux & Mary P. Meberg
Address: 325 McCreary's Ridge
Moundsville, WV 26041

Name: Marian E. Phillips
Address: 247 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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>532171.519</u>
County:	<u>Marshall</u>		Northing:	<u>4423865.277</u>
District:	<u>Webster</u>	Public Road Access:	<u>McCreary's Ridge Road (CR 7)</u>	
Quadrangle:	<u>Majorsville</u>	Generally used farm name:	<u>Brenda J. Harris, et al</u>	
Watershed:	<u>Upper Ohio South</u>			

This Notice Shall Include:

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

Well Operator: American Petroleum Partners OPerationg, LLC
Telephone: 724-338-8629
Email: Regulatory@app-lp.com

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

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

4705102106

WW-6A5
(1/12)

Operator Well No. Winterfell 10 UH

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: 08/02/2018 **Date Permit Application Filed:** 08/03/2018

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- RETURN RECEIPT REQUESTED DELIVERY

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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: Joyce Chiclone
Address: 61 Wayman's Ridge
Moundsville, WV 26041

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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>532171.519</u>
County:	<u>Marshall</u>		Northing:	<u>4423865.277</u>
District:	<u>Webster</u>	Public Road Access:	<u>McCreary's Ridge Road (CR 7)</u>	
Quadrangle:	<u>Majorsville</u>	Generally used farm name:	<u>Brenda J. Harris, et al</u>	
Watershed:	<u>Upper Ohio South</u>			

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Well Operator: American Petroleum Partners OPerationg, LLC
Telephone: 724-338-8629
Email: Regulatory@app-lp.com

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

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RECEIVED
Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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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: Gorakshya-Seva & Env EDU /ECO-Vrindaban, Inc.
Address: RD 3 Box 278-B
Wheeling, WV 26003

Name: William E. and Irene M. Dove Et. Al/Lakshmi D. Dove Et. Al
Address: RD 3 Box 278-B
Wheeling, WV 26003

Notice is hereby given:

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

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County: <u>Marshall</u>		Northing: <u>4423865.277</u>
District: <u>Webster</u>	Public Road Access: <u>McCreary's Ridge Road (CR 7)</u>	
Quadrangle: <u>Majorsville</u>	Generally used farm name: <u>Brenda J. Harris, et al</u>	
Watershed: <u>Upper Ohio South</u>		

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Well Operator: American Petroleum Partners OPerationg, LLC
Telephone: 724-338-8629
Email: Regulatory@app-lp.com

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

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RECEIVED
Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

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

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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 Hunt
Address: 6906 Conley St.
Baltimore, MD 21224

Name: _____
Address: _____

Notice is hereby given:

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Well Operator: American Petroleum Partners Operating, LLC
Telephone: 724-338-8629
Email: Regulatory@app-lp.com

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

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Office of Oil and Gas
AUG 7 2018
WV Department of
Environmental Protection

4705102106

WW-70
Rev. 7/01

Affidavit of Personal Service

4705102106

State Of Pennsylvania
County Of Washington

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

- (1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A)
- (2) Application on Form WW-2(B) / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B)
- (3) Plat showing the well location on Form WW-6, and
- (4) Construction and Reclamation Plan on Form WW-9

--all with respect to operator's Well No. Winterfell 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 day of July, 20 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

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

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

For a partnership:

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

or 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.

or a corporation:

Handing it to the corporation's employee / officer / director / attorney fact / named Braulio Silva

Das
(Signature of person executing service)

Taken, subscribed and sworn before me this 21th day of August 2018
My commission expires 7-17-2022

Teresa L. Lesko
Notary Public

RECEIVED
Office of Oil and Gas
AUG 29 2018
WV Department
Environmental

(FIX SEAL IF NOTARIZED OUTSIDE THE STATE)

Commonwealth of Pennsylvania - Notary Seal
Teresa L. Lesko, Notary Public
Washington County
My commission expires July 17, 2022
Commission number 1205105
Member, Pennsylvania Association of Notaries



4705 + 02106

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

August 1, 2018

Jill M. Newman
Deputy Commissioner

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

Subject: DOH Permit for the Winterfell Pad, Marshall County
Winterfell 10UH 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 January 3, 2012.

Very Truly Yours,

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

Cc: Braulio Silva
American Petroleum Partners
CH, OM, D-6
File

RECEIVED
Office of Oil and Gas
AUG 7 2018
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
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)	34890-00-1	20.00000
			Phosphino carboxylic acid polymer	71050-62-9	20.00000
K-BAC 1020 DBNPA	WST	Bactericide	Polyethylene glycol	25322-68-3	50.00000
			Water	7732-18-5	30.00000
			2,2-Dibromo-3-nitripropionamide	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
WG-36 GELLING AGENT	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	100.00000

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 Office of Oil and Gas
 ALLS
 7 2018
 Department of Environmental Protection

EROSION & SEDIMENT CONTROL PLAN FOR DIRE WOLF - WINTERFELL PAD WEBSTER TAX DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

GENERAL NOTES

- THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR THE PROJECT AREA WERE PROVIDED BY APP OPERATING, LLC IN APRIL 2016.
- PROPERTY BOUNDARIES, LANDOWNER INFORMATION AND ROAD NETWORKS SHOWN ON THIS PLAN ARE BASED ON AVAILABLE COUNTY GIS DATA AND BOUNDARY SURVEY PROVIDED BY APP OPERATING, LLC.
- EXISTING STRUCTURES, TREE LINES AND ROADWAYS HAVE BEEN LOCATED PER AVAILABLE ONLINE AERIAL PHOTOGRAPHY AND SURVEY PROVIDED BY APP OPERATING, LLC.
- THE HORIZONTAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD83), NORTH ZONE.
- THE VERTICAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM 1983 (NAD83-V), NORTH ZONE.
- A METELED SURVEY WAS PERFORMED BY BETTER ASSOCIATES ON APRIL AND MAY 2016.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, PRIOR TO CONSTRUCTION, ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL GOVERNMENT AGENCIES.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING ALL SAFETY REQUIREMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREVENT ANY DAMAGE TO PRIVATE PROPERTY, PROVIDE ACCESS TO ALL DRIVES DURING CONSTRUCTION, NOTIFY UTILITY COMPANIES AND VERIFY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, AND PROTECT ALL UTILITIES TO REMAIN IN SERVICE.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS GOVERNING EROSION CONTROL. THE CONTRACTOR SHALL PROVIDE DETAILED PLANS AND SPECIFICATIONS FOR FRENCH SAFETY SYSTEMS THAT COMPLY WITH APPLICABLE LAWS GOVERNING EROSION CONTROL APPLICABLE TO THE PROJECT. THESE SHALL BE SEALED BY AN ENGINEER EXPERIENCED IN THE DESIGN OF FRENCH SAFETY SYSTEMS AND LICENSED BY THE STATE IN WHICH THE WORK IS OCCURRING. CONTRACTOR SHALL SUBMIT THE PLANS TO APP OPERATING, LLC PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS FOR WORK RELATED TO EXCAVATION.
- ANY DAMAGES THAT MAY OCCUR TO PROPERTY OR EXISTING IMPROVEMENTS SHALL BE RECOVERED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE PROPERTY OR IMPROVEMENTS WERE IN PRIOR TO THE DAMAGE. IN THE EVENT OF SUCH DAMAGE, CONTRACTOR SHALL NOTIFY APP OPERATING, LLC IMMEDIATELY UPON THE OCCURRENCE. THIS RESTORATION SHALL BE SUBJECT TO THE OWNER'S APPROVAL. HOWEVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE CLEAR OF ALL TRASH AND DEBRIS.
- PRIOR TO ANY EARTHWORK EXCAVATION OR TOPSOIL REMOVAL, ALL EROSION CONTROL MEASURES DETAIL ON THESE DRAWINGS SHALL BE PROPERLY INSTALLED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY APP OPERATING, LLC AT ANY TIME.
- THE CONTRACTOR SHALL NOTIFY STRATIFICATION AND TENSION CONTROL MEASURES AT A MINIMUM OF ONE (1) DAY, OR WITHIN 24 HOURS AFTER ANY SIGNIFICANT GREATER THAN 6" MOVES DURING CONSTRUCTION.
- SILT FENCE AND SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL RE-VEGETATION HAS BEEN COMPLETELY ESTABLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS UNTIL PROJECT COMPLETION.
- DISCOURAGED AREAS THAT ARE SEEDED OR SOILED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. LAKE, THE CONTRACTOR IS RELEASED FROM THE JOB. THE DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RESEEDED IF NECESSARY.
- FOR PERSON PURPOSES, THE PAD CROSS SECTION AND ROAD SECTION WAS ASSIGNED TO BE 16" WIDE. THIS IS DUE TO SETTLEMENT HAS NOT BEEN PERFORMED. SEE SHEET 23 FOR TYPICAL BOUNDARY (FOR FRENCH EX-11).
- PRIOR TO FILL PLACEMENT, EXISTING SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6" WHERE ADJUSTED TO SPINDLE, AND RE-COMPACTED TO THE SAME DENSITY AND MOISTURE CONTENT AS THE PROPOSED FILL.
- IMPORTED SELECT FILL IS DEFINED AS UNWASHED, BLENDING SANDY CLAY TO CLAYEY SAND WITH A LIQUID LIMIT (LL) OF LESS THAN 35 PERCENT AND A PLASTICITY INDEX (PI) OF BETWEEN 6 AND 10. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS. ROCK FILL LIFTS SHALL BE NO GREATER THAN 24" FILL. FILL WILL BE FREE OF OBSCURABLE MATERIAL, NOTHING LARGER THAN 4" 18" THICKNESS WILL BE 12" MAXIMUM, NOTHING PROUDER OF 12".
- FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D 698), IN CONJUNCTION WITH THE COMPACTING OPERATION, FILL MATERIAL SHALL BE BROUGHT TO OPTIMAL MOISTURE CONTENT.



OPERATOR
AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 S. BARRY COURT
CANDYSBURG, PA 15217

LIMITS OF DISTURBANCE

PAVE	5.75 ACRES
ROAD	28.65 ACRES
TOTAL	34.4 ACRES
PER LAND OWNER	ACRES
APP OPERATING, LLC	30.92
SHENKA J. HARRIS	15.48

WEST VIRGINIA 811
CALL BEFORE YOU DIG! Dial 811 or 800.245.4848
Miss Utility of West Virginia

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

DATE: 06/22/2016 PROJECT #: 1013322255

SOILS CLASSIFICATION

- Q1: DULLECKA CHANNELLY SILT LOAM, 8 TO 10% SLOPES
- Q12: DULLECKA-CORNHART COMPLEX, 15 TO 25% SLOPES
- Q2: DORMANT-DULLECKA COMPLEX, 20 TO 25% SLOPES
- Q22: DORMANT-DULLECKA COMPLEX, 25 TO 70% SLOPES, VERY STONY

CUT & FILL

CUT (SOIL)	WELL PAD	ACCESS DRIVE	SITE
CLL	+ 102,043 CY	+ 35,656 CY	+ 157,699 CY
MLL	- 68,385 CY	- 42,082 CY	- 110,467 CY
MT	+ 3,022 CY	+ 3,022 CY	+ 36,024 CY
STON (K*)	+ 5,566 CY	+ 5,776 CY	+ 11,344 CY
MSDOL	- 8,181 CY	- 1,130 CY	- 11,311 CY
NET	+ 33,440 CY	+ 3,226 CY	+ 36,666 CY

- NOTES:**
- THE TOPSOIL DEPTH FOR THE ACCESS DRIVE IS APPROXIMATELY 6.0". THE TOPSOIL DEPTH FOR THE PAD IS ASSIGNED 6.0".
 - THE CUT & FILL BALANCE CALCULATION PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND VERIFY EARTHWORK VOLUMES, METHODS AND PROCEDURES. ANY ISSUES ARE TO BE BROUGHT TO THE ENGINEER'S AND OWNER'S ATTENTION PRIOR TO COMMENCEMENT OF WORK.
 - THE EXCESS TOPSOIL AND SUBSOIL WILL BE STORED IN THE DESIGNATED FILL STOCKPILES AS SHOWN ON THE PLANS.

LIST OF DRAWINGS

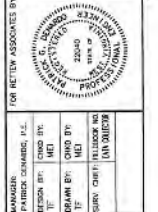
- 1 OF 34 COVER SHEET & GENERAL NOTES
- 2 OF 34 GENERAL SITE PLAN
- 3 OF 34 DETAILED LAYOUT PLAN
- 4 OF 34 DETAILED LAYOUT PLAN
- 5 OF 34 DETAILED LAYOUT PLAN
- 6 OF 34 DETAILED LAYOUT PLAN
- 7 OF 34 EROSION & SEDIMENTATION CONTROL PLAN
- 8 OF 34 EROSION & SEDIMENTATION CONTROL PLAN
- 9 OF 34 EROSION & SEDIMENTATION CONTROL PLAN
- 10 OF 34 EROSION & SEDIMENTATION CONTROL PLAN
- 11 OF 34 WY DEP FAS PLAN
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- 19 OF 34 CROSS SECTIONS PLAN VIEW
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- 33 OF 34 DETAILS
- 34 OF 34 DETAILS

FOR REVIEW ASSOCIATED BY:

MANAGER: PATRICK SCHMIDT, P.E.
 REVIEW BY: []
 CHECKED BY: []
 DATE: []

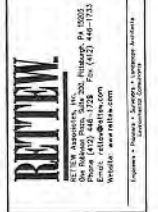
FOR REVIEW ASSOCIATED BY:

MANAGER: []
 REVIEW BY: []
 CHECKED BY: []
 DATE: []



CLIENT:

AMERICAN PETROLEUM PARTNERS OPERATING, LLC
 4600 S. BARRY COURT
 SUITE 310
 CANDYSBURG, PA 15217



COVER SHEET & GENERAL NOTES FOR DIRE WOLF - WINTERFELL PAD

DATE: 06/22/2016
 SHEET NO: 1 of 34
 DWG. NO: 101956200



NOT FOR CONSTRUCTION/NOT FOR BIDDING

