



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

Wednesday, January 29, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 J. BARRY COURT

CANONSBURG, PA 15317

Re: Permit approval for KINGS LANDING - 10UH
47-051-02225-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the typed name and title.

Operator's Well Number: KINGS LANDING - 10UH
Farm Name: YOUNG, ROBERT L. ET. UX
U.S. WELL NUMBER: 47-051-02225-00-00
Horizontal 6A New Drill
Date Issued: 1/29/2020

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

August 22, 2019

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

RE: Application for Deep Well Permit – API #47-051-02225

COMPANY: American Petroleum Partners Operating, LLC

FARM: Robert L. Young et ux Kings Landing-10UH

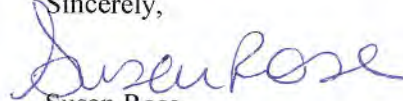
COUNTY: Marshall DISTRICT: Webster QUAD: Moundsville

The deep well review of the application for the above company is Approved to drill to the Point Pleasant formation for completion. Pooling Docket No. 283-278

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

1. Comments to Notice of Deviation filed? Yes
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: 47-051-02090, 47-051-02091, 47-051-02137, 47-051-02136, 47-051-02178, 47-051-02179, 47-051-02180, 47-051-02135, 47-051-02073, 47-051-02072, 47-051-02071; 47-051-02212, 47-051-02222, 47-051-02221, 47-051-02223, and 47-051-02224
4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary except for the toe which is 150 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

WW-6B
(04/15)

4705102225
API NO. 47-051 -
OPERATOR WELL NO. Kings Landing-10UH
Well Pad Name: Kings Landing

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

1) Well Operator: American Petroleum Partners

<u>494521257</u>	<u>Marshall</u>	<u>Webster</u>	<u>Moundsville</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Kings Landing-10UH Well Pad Name: Kings Landing

3) Farm Name/Surface Owner: Robert L. Young Public Road Access: Stull Run Road C.R. 44

4) Elevation, current ground: 1,310.04' Elevation, proposed post-construction: 1,301.55'

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 11,617' / 81' thick 10,144 or .89 psi per foot / Utica Formation 11,480 137' thick / 10,000 psi or .89 psi per foot.

8) Proposed Total Vertical Depth: 11,698'

9) Formation at Total Vertical Depth: Point Pleasant

10) Proposed Total Measured Depth: 23,452'

11) Proposed Horizontal Leg Length: 10,399'

12) Approximate Fresh Water Strata Depths: 162', 1155'

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

14) Approximate Saltwater Depths: Na

15) Approximate Coal Seam Depths: 722', 808'

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: 722', 808'
Seam: Pittsburgh #8
Owner: Murray American Energy & Consolidation Coal Company

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WW-6B
(04/15)

API NO. 47- 051 -
OPERATOR WELL NO. Kings Landing-10UH
Well Pad Name: Kings Landing

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#	60'	60'	CTS
Fresh Water	20"	New	J-55	94#	1,216'	1,216'	CTS 15.6ppg to sur 521 ex w/30% CH ex
Coal	13 3/8"	New	J-55	54.5#	2,512'	2,512'	CTS 15.2ppg to sur 556 ex w/30% CH ex
Intermediate	9 5/8"	New	HCP-110	43.5#	10,189'	10,189'	CTS 15.4ppg to surf 936 ex w/30% CH ex
Production	5 1/2"	New	HCP-110	23#	23,452'	23,452'	14.8ppg TOC >=200' above 9.625 shoe
Tubing	2 7/8"	New	J-55	6.5#	11,698'	11,698'	CTS
Liners							

Handwritten signature
4/10/19

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							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

4705102225
API NO. 47-051

OPERATOR WELL NO. Kings Landing-10UH

Well Pad Name: Kings Landing

J. [Signature]
4/17/18

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

Drill the vertical depth to the Point Pleasant at an estimated total vertical depth of approximately 11,698'. 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): 21.70

22) Area to be disturbed for well pad only, less access road (acres): 5.57

23) Describe centralizer placement for each casing string:

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

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

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

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.

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

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DRILLING WELL PLAN
 Kings Landing-10UH
 Utica Horizontal
 Marshall Co, WV

Horizontal Well Plan with Cemented Long String Completion

HOLE	RIG	CASING	GEOLOGY	Top TVD	BTM TVD	MUD	CEMENT	DIRECTIONAL	LOGS	BITS	COMMENTS
36"	Conductor Rig	30" 81.3# LS	Elevation	1314		AIR	To Surface	N/A	N/A		Stabilize surface fill/soil
			KB Elevation	1336							
24"	Top-Hole	20" 94# J-55 BTC	Conductor	60	60	AIR	15.8ppg to surface 521sx w/ 30% OH excess	20" Air Hammer Tolco at TD	N/A	Carbide hammer bit	Protect fresh groundwater
			Sewickley Coal	722	730						
17.5"	Top-Hole	13-3/8" 54.5# J-55 BTC	Surf. Casing	1216	1216	AIR	15.2ppg to surface 556sx w/ 30% OH excess	Center Rock 15" Air Hammer Gyro above Coal (Mine Approval) Tolco at TD	N/A	Hammer bit w/ diamond gage Test casing to 800psi	PU cleanout assembly/dress plug, displace to 13.5ppg SOBML, PU Curve BHA, time drill / KO cement plug. Expect Seepage in curve
			Big Lime	1914	2022						
12.375" / 12.25"	Horizontal Rig	9-5/8" 43.5# P-110IC BTC	Tully LS	6712	6750	AIR	15.4ppg to surface 936sx w/ 30% OH excess	12.25" Tricone 6.75" PDM MWD 2.12" ADJ Bend	MWD surveys Mud Logger - 90 ft samples	Tricone Bit Test casing to 1100psi	
			Hamilton	6750	6828						
			Marcellus Shale	6828	6889						
			Orondaga Ls	6889	6895						
			Oriskany Sandstone	7118	7227						
			Salina Group	7578	8651						
			Lockport Dolomite	8651	9028						
			Rochester Shale	9028	9306						
			Packer Shell	9306	9399						
			Clinton Group	9389	9485						
			Medina Group	9485	9589						
			Queensston Shale	9589	10390						
8.5" Curve/Lateral	Horizontal Rig	5-1/2" 23# P110ICY TSH Wedge 563	Int. Casing	10189	10189	+/- 14.5 ppg SOB	14.8ppg TOC >= 200' Above 9.625 shoe 4500sx w/ 15% OH excess	RSS 6.75" PDM & MWD (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
			Utica Shale	11480	11617						
			Point Pleasant Formation Curve LP TARGET	11617	11698						

8.5 Hole - Cemented Long String 5-1/2" 23# P110ICY TSH Wedge 563

Landing Point	11698 TVD	13053 MD	91.5 Inc	325 Az	10399 ft Lateral Length	91.5 Inc	325 Az	Total Depth 11698 TVD 23452 TD
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WW-9
(4/16)

API Number 47 - 051 - _____
Operator's Well No. Kings Landing-10UH

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name American Petroleum Partners Operating, LLC OP Code 494521257

Watershed (HUC 10) Huc-10 Wheeling Creek, Huc 12 Upper Wheeling Creek Quadrangle Moundsville

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, see attached sheet

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air/water based mud through intermediate then SOBMs

-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 *Braulio Silva*

Company Official (Typed Name) Braulio Silva

Company Official Title Vice President - Drilling

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Subscribed and sworn before me this 30th day of April, 20 19

Earline Bugay
My commission expires 1/23/2020

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

American Petroleum Partners Operating, LLC

Proposed Revegetation Treatment: Acres Disturbed 21.70 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: *John Unholzer*

Comments: _____

Title: WV DEP Oil and Gas Inspector

Date: 4/10/19

Field Reviewed? Yes No

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Form WW-9

Operator's Well No. Kings Landing -3UH

American Petroleum Partners Operating, LLC

Proposed Revegetation Treatment: Acres Disturbed 21.70 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
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Office of Oil and Gas

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by: *Jim DeLocher* WV Department of Environmental Protection

Comments: I have a concern with the public road leading to the access road, Limestone Hill Lane. This is a dead-end road, with approx 10 residential dwellings located past the pad access. Ingress/egress for those landowners must be addressed.

Title: WV DEP Oil and Gas Inspector

Date: 4/10/19

Field Reviewed? Yes No

4705102225

Additives for Drilling Medium

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

Closed Loop:

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

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Cuttings Disposal/Site Water

4705102225

Cuttings –Haul off Company:

Eap Industries, Inc. DOT # 0876278
1575 Smith Two State Rd. Atlasburg, PA 15004
1-888-294-5227

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

Environmental Coordination Services & Recycling (ECS&R)
3237 US Highway 19
Cochranton, PA 16314
814-425-7773

Disposal Locations:

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

Max Environmental 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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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

RECEIVED
Office of Oil and Gas

MAY 06 2013
WV Department of
Environmental Protection

4705102225

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

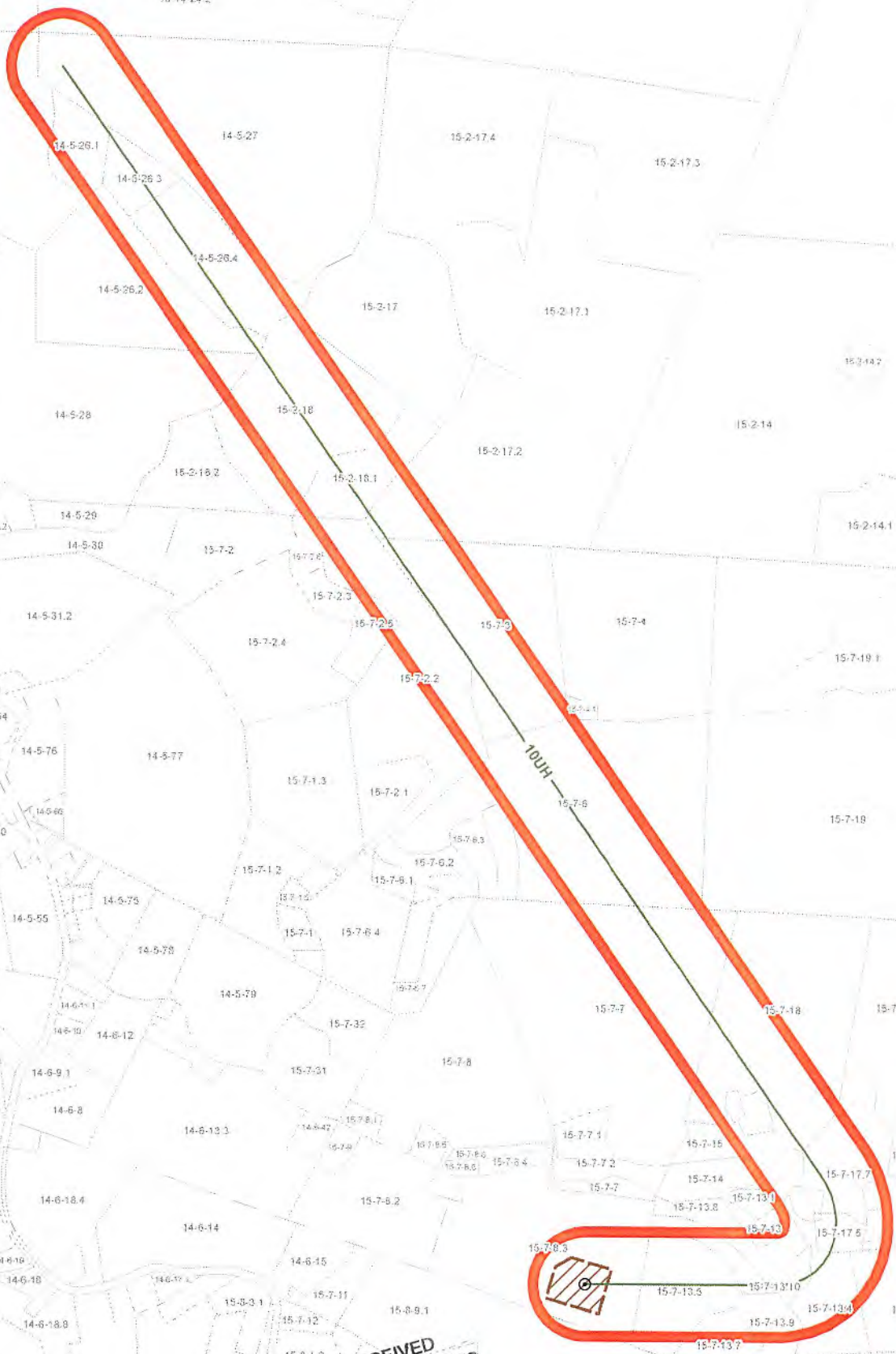
OH UIC #1 Buckeye UIC Barnesville 1 & 2
CNX Gas Company, LLC
1000 Consol Energy Drive
Permit # 34-013-2-0609-00-00
Permit # 34-013-2-0614-00-00
304-323-6568

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

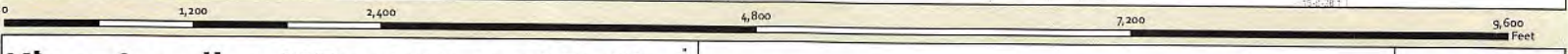


4705102225



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Office of Oil and Gas
MAY 06 2019
West Virginia Department of
Environmental Protection

**Kings Landing NE 10UH
Surface Location Coordinates**
10UH = -80.630065, 39.926217

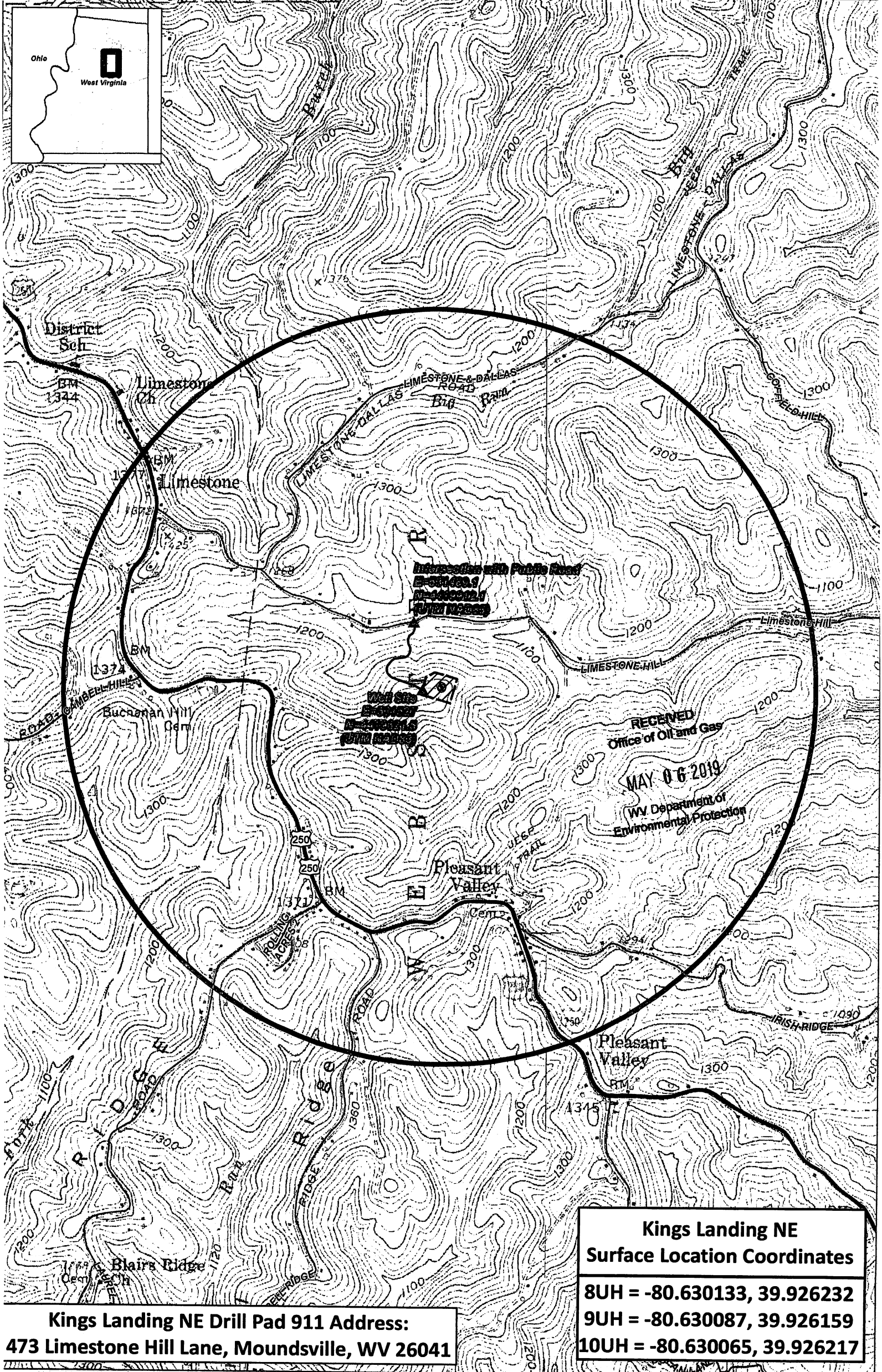
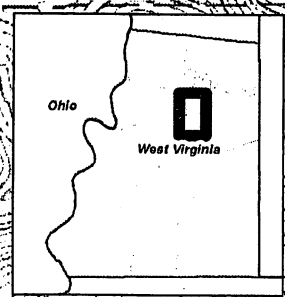


Kings Landing NE 10UH- 400' Buffer

Marshall County West Virginia
Coordinate System: NAD 83 UTM Zone 18N
Projection: Transverse Mercator
Datum: North American 1983
Map Scale Units: 1:14,440
1 inch = 1,200 feet
Map Author: DJA
Map Date: 4/3/2019

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





Kings Landing NE Drill Pad 911 Address:
473 Limestone Hill Lane, Moundsville, WV 26041

**Kings Landing NE
 Surface Location Coordinates**
 8UH = -80.630133, 39.926232
 9UH = -80.630087, 39.926159
 10UH = -80.630065, 39.926217

Kings landing NE - Well Site		<ul style="list-style-type: none"> Well SHL Well Pad 1 mile Buffer Access Rd Intersection US Route Local Road 		
Marshall County West Virginia	Coordinate System: Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983	Map Scale Units: 1:18,000 1 inch = 1,500 feet	Map Author: DJA Map Date: 4/4/2019	

4705102225



**AMERICAN
PETROLEUM
PARTNERS**

Site Safety Plan

American Petroleum Partners Operating, LLC

Kings Landing Well Pad

473 Limestone Hill Lane

Moundsville, WV 26041

April 2019: Version 1

J. [Signature]
4/10/19

**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

RECEIVED
Office of Oil and Gas

MAY 06 2019

WV Department of
Environmental Protection

Well is located on topo map 11,699 feet south of Latitude: 39° 57' 30"
 BHL is located on topo map 2,330 feet south of Latitude: 39° 57' 30"

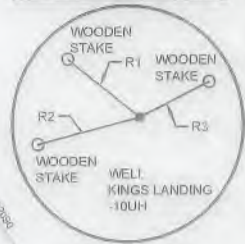
Sheffler & Company, Inc.
 ENGINEERING + SURVEYING

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

Well is located on topo map 1,420 feet west of Longitude: 80° 37' 30"
 BHL is located on topo map 5,507 feet west of Longitude: 80° 37' 30"

- NOTES**
- There are no water wells or developed springs within 250' of proposed well
 - There are no existing buildings within 625' of proposed well
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake
 - There are no man-made streams within 300' of proposed well
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply
 - 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.
 - Mineral and Surface parcel lines are the same except #10A, 10B, 10C, #18A & #18B

REFERENCE DETAIL



MONUMENT REFERENCE TABLE		
LINE NO.	BEARING	DISTANCE
R1	S52°08'24"E	478.12'
R2	N75°14'28"E	551.21'
R3	S83°33'43"W	403.71'
R4	S56°22'44"E	1132.42'
R5	N37°08'26"W	587.00'

TOTAL UNIT
 639.86 ACRES

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83
 N: 4419833.576(m)
 E: 531611.572(m)
 NAD27, WV NORTH
 N: 521432.851(ft)
 E: 1683015.513(ft)
 LAT/LON - NAD83
 LAT: N39.9262170
 LON: W80.6300646

APPROXIMATE LANDING POINT
 UTM 17 - NAD83
 N: 4419888.008(m)
 E: 532171.868(m)
 NAD27, WV NORTH
 N: 522236.996(ft)
 E: 1684868.019(ft)
 LAT/LON - NAD83
 LAT: N39.9284882
 LON: W80.6234953

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83
 N: 4422483.448(m)
 E: 530354.521(m)
 NAD27, WV NORTH
 N: 530853.823(ft)
 E: 1679046.856(ft)
 LAT/LON - NAD83
 LAT: N39.9519396
 LON: W80.6446422

WELL
 KINGS LANDING-
 10UH
 SHL

PROPOSED LATERAL
 LENGTH = 10,399' ±

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WMA#1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- UNIT BOUNDARY
- SURFACE PARCEL LINES
- MINERAL PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/POND/WATERWAY
- ROAD
- FORCE POOLED PARCEL

WELLS WITHIN 3000'
 SIX (6) DEEP WELLS WITHIN 3000'

FILE #: KINGS LANDING - 10UH
 DRAWING #: KINGS LANDING - 10UH - R4.DWG
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX0744: 1372.23'

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

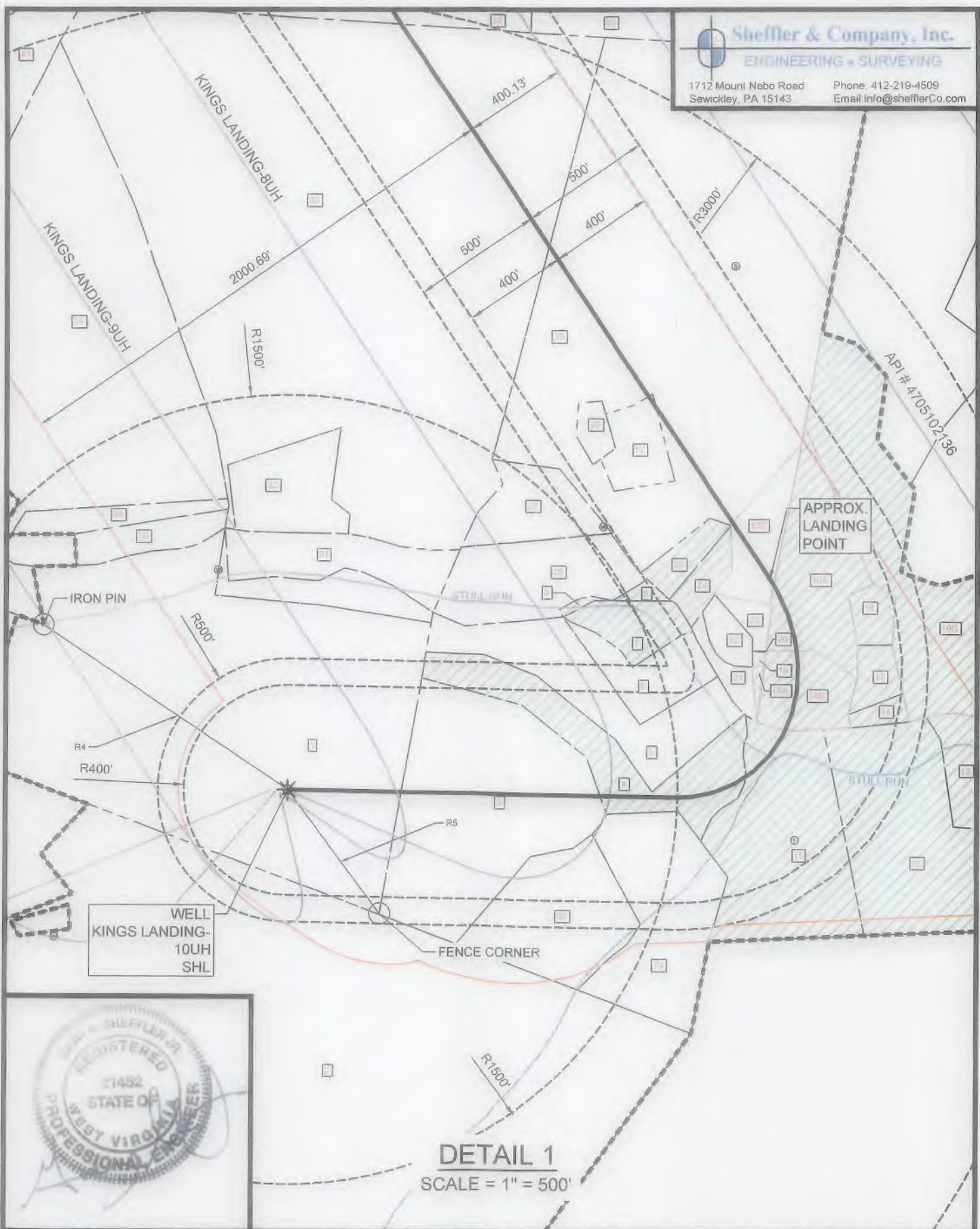
Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17 SURFACE OWNER(2): _____ ACREAGE(2): _____
 OIL & GAS ROYALTY OWNERS(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17
 OIL & GAS ROYALTY OWNERS(2): _____ ACREAGE(2): _____

DATE: April 8, 2019 - Rev May 28, 2019
 OPERATOR'S WELL #: KINGS LANDING-10UH
 API WELL # 47 051 02225H6A
 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: 11,698' ± TMD: 23,452' ±
 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
 KINGS LANDING-
 10UH
 SHL

APPROX.
 LANDING
 POINT

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: April 8, 2019 - Rev May 28, 2019

OPERATOR'S WELL #: KINGS LANDING-10UH

API WELL # 47 051 02225 H6A
 STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'

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

SURFACE OWNER(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17 SURFACE OWNER(2): _____ ACREAGE(2): _____

OIL & GAS ROYALTY OWNERS(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17

OIL & GAS ROYALTY OWNERS(2): _____ ACREAGE(2): _____

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: 11,698' ± TMD: 23,452' ±

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: April 8, 2019 - Rev May 28, 2019
 OPERATOR'S WELL #: KINGS LANDING-10UH
 API WELL # 47 051 **02225H6A**
 STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER(1) YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17 SURFACE OWNER(2) _____ ACREAGE(2) _____
 OIL & GAS ROYALTY OWNERS(1) YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17
 OIL & GAS ROYALTY OWNERS(2) _____ ACREAGE(2) _____

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: 11,698' ± TMD: 23,452' ±
 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: April 8, 2019 - Rev May 28, 2019
 OPERATOR'S WELL #: KINGS LANDING-10UH
 API WELL # 47 051 02225H6A
 STATE COUNTY PERMIT

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

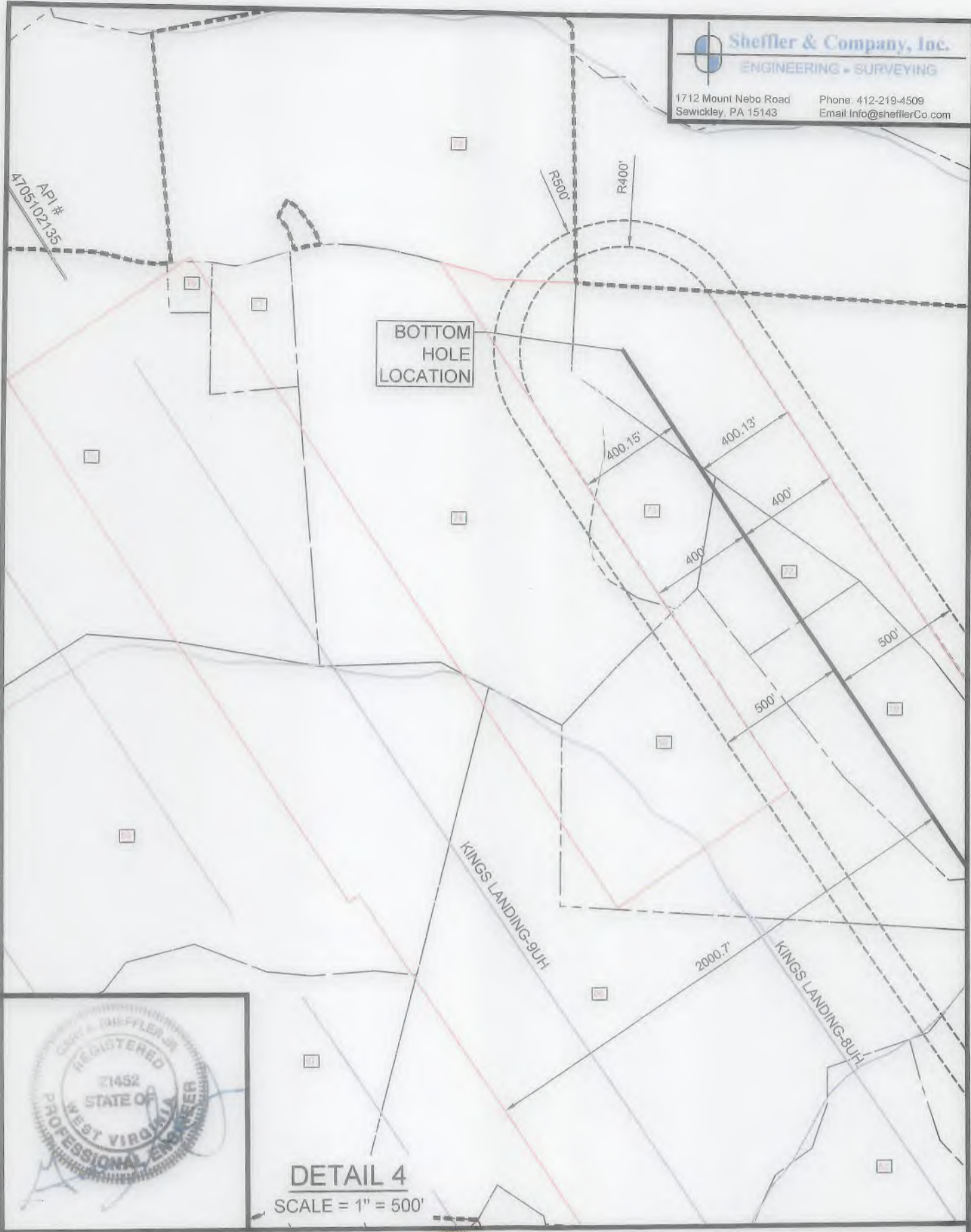
WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17 SURFACE OWNER(2): _____ ACREAGE(2): _____
 OIL & GAS ROYALTY OWNERS(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17
 OIL & GAS ROYALTY OWNERS(2): _____ ACREAGE(2): _____

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: 11,698' ± TMD: 23,452' ±
 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

API #
4705-102-135

BOTTOM HOLE LOCATION



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



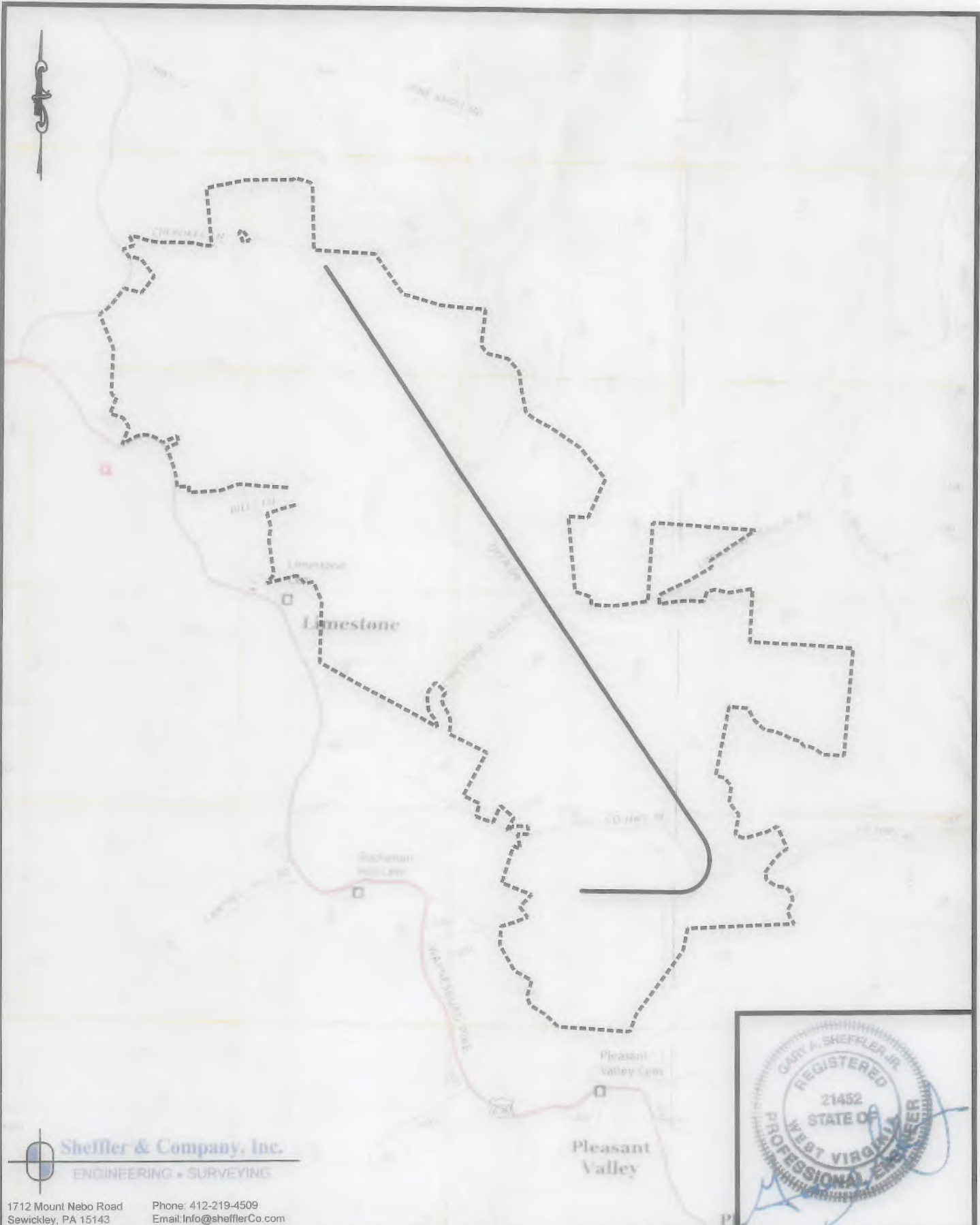
DATE: April 8, 2019 - Rev May 28, 2019
 OPERATOR'S WELL #: KINGS LANDING-10UH
 API WELL # 47 051 02225H6A
 STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17 SURFACE OWNER(2): _____ ACREAGE(2) _____
 OIL & GAS ROYALTY OWNERS(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17
 OIL & GAS ROYALTY OWNERS(2): _____ ACREAGE(2) _____

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: 11,698' ± TMD: 23,452' ±
 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



Sheffler & Company, Inc.
ENGINEERING • SURVEYING
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: April 8, 2019 - Rev May 28, 2019
OPERATOR'S WELL #: KINGS LANDING-10UH
API WELL # 47 051 02225 H6A
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'
COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDVILLE, WV
SURFACE OWNER(1) YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17 SURFACE OWNER(2) _____ ACREAGE(2) _____
OIL & GAS ROYALTY OWNERS(1) YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17
OIL & GAS ROYALTY OWNERS(2) _____ ACREAGE(2) _____

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: 11,698' ± TMD: 23,452' ±
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

<p>TAX MAP NO. 15-0007-0006-0003-0000 ASSESSED ACREAGE: 39.17 ACRES</p> <p>SURFACE OWNERS: YOUNG, ROBERT L., ET UX</p> <p>MINERAL OWNERS: YOUNG, ROBERT L., ET UX.</p>	<p>TAX MAP NO. 15-0007-0014-0001-0000 ASSESSED ACREAGE: 0.188 ACRES</p> <p>SURFACE OWNERS: ROSSELL, BROOKS</p> <p>MINERAL OWNERS: DARRELL E. SR. & ELIZABETH A. CONNER</p>	<p>TAX MAP NO. 15-0007-0013-0006-0000 ASSESSED ACREAGE: 12.629 ACRES</p> <p>SURFACE OWNERS: SHERWOOD, JOHN H. ET AL</p> <p>MINERAL OWNERS: DAVID ROSS HEIRS ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DONALD L. HALL AND W. SUSAN HALL BY STACY LYNN ROBERTS, ACTING AS TRUSTEE ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER JOHN H. & CHRISTINE L. SHERWOOD LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0017-0006-0000 ASSESSED ACREAGE: 0.761 ACRES</p> <p>SURFACE OWNERS: TSACRIOS, NICKY M. JR., ET UX.</p> <p>MINERAL OWNERS: DAVID ROSS HEIRS ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DONALD L. HALL AND W. SUSAN HALL BY STACY LYNN ROBERTS, ACTING AS TRUSTEE ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES NICKY TSACRIOS ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>
<p>TAX MAP NO. 15-0007-0013-0005-0000 ASSESSED ACREAGE: 12.271 ACRES</p> <p>SURFACE OWNERS: BROWN, JOSHUA C.</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>	<p>TAX MAP NO. 15-0007-0017-0007-0000 ASSESSED ACREAGE: 16.00 ACRES</p> <p>SURFACE OWNERS: TSACRIOS, NICKY M. JR., ET UX.</p> <p>MINERAL OWNERS(A): ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DAVID ROSS HEIRS DONALD L. HALL AND W. SUSAN HALL BY STACY LYNN ROBERTS, ACTING AS TRUSTEE ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES NICKY TSACRIOS ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0013-0003-0000 ASSESSED ACREAGE: 5.00 ACRES</p> <p>SURFACE OWNERS: HYMAN ALAN, ET AL</p> <p>MINERAL OWNERS: DAVID ROSS HEIRS DONALD L. HALL AND W. SUSAN HALL BY STACY LYNN ROBERTS, ACTING AS TRUSTEE ALAN HYMAN ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0018-0002-0000 ASSESSED ACREAGE: 1.561 ACRES</p> <p>SURFACE OWNERS: MCCARDLE, DANIEL & LEEISA</p> <p>MINERAL OWNERS: DANIEL J. & LEEISA C. MCCARDLE</p>
<p>TAX MAP NO. 15-0007-0013-0010-0000 ASSESSED ACREAGE: 5.19 ACRES</p> <p>SURFACE OWNERS: PROVAN, JEREMY</p> <p>MINERAL OWNERS: AMP FUND III, LP</p>	<p>TAX MAP NO. 15-0007-0017-0007-0000 ASSESSED ACREAGE: 16.00 ACRES</p> <p>SURFACE OWNERS: TSACRIOS, NICKY M. JR., ET UX.</p> <p>MINERAL OWNERS(B): NICKY TSACRIOS</p>	<p>TAX MAP NO. 15-0007-0017-0011-0000 ASSESSED ACREAGE: 0.424 ACRES</p> <p>SURFACE OWNERS: JACKSON, ROY F. JR. & ALBERTA R.</p> <p>MINERAL OWNERS: ALBERTA R. & ROY F. JR., JACKSON ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0017-0005-0000 ASSESSED ACREAGE: 2.25 ACRES</p> <p>SURFACE OWNERS: SPICHER, JEFFREY ROSS</p> <p>MINERAL OWNERS (A): AMP FUND III, LP ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DAVID ROSS HEIRS ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STACY LYNN ROBERTS TRUSTEE DONALD L. & W. SUSAN HALL TRUST AGREEMENT STEPHANIE C. VOSS</p>
<p>TAX MAP NO. 15-0007-0013-0008-0000 ASSESSED ACREAGE: 5.567 ACRES</p> <p>SURFACE OWNERS: PROVAN, JEREMY S. AND GELDA E.</p> <p>MINERAL OWNERS: JEREMY S. PROVAN</p>	<p>TAX MAP NO. 15-0007-0017-0007-0000 ASSESSED ACREAGE: 16.00 ACRES</p> <p>SURFACE OWNERS: TSACRIOS, NICKY M. JR., ET UX.</p> <p>MINERAL OWNERS(C): DEBORAH TSACRIOS ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DAVID ROSS HEIRS DONALD L. HALL AND W. SUSAN HALL BY STACY LYNN ROBERTS, ACTING AS TRUSTEE ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0017-0011-0000 ASSESSED ACREAGE: 0.832 ACRES</p> <p>SURFACE OWNERS: SPICHER, JEFFREY ROSS & SHERYL</p> <p>MINERAL OWNERS: AMP FUND III, LP DAVID ROSS HEIRS ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DAVID ROSS HEIRS ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STACY LYNN ROBERTS TRUSTEE DONALD L. & W. SUSAN HALL TRUST AGREEMENT STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0017-0005-0000 ASSESSED ACREAGE: 2.25 ACRES</p> <p>SURFACE OWNERS: SPICHER, JEFFREY ROSS</p> <p>MINERAL OWNERS (B): AMP FUND III, LP</p>
<p>TAX MAP NO. 15-0007-0013-0001-0000 ASSESSED ACREAGE: 1.585 ACRES</p> <p>SURFACE OWNERS: CONNER, DARRELL E. SR., ET UX.</p> <p>MINERAL OWNERS: DARRELL E. SR. & ELIZABETH A. CONNER</p>	<p>TAX MAP NO. 15-0007-0013-0004-0000 ASSESSED ACREAGE: 8.41 ACRES</p> <p>SURFACE OWNERS: PROVAN, JEREMY S.</p> <p>MINERAL OWNERS: AMP FUND III, LP DAVID ROSS HEIRS ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DONALD L. & W. SUSAN HALL ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0017-0009-0000 ASSESSED ACREAGE: 0.063 ACRES</p> <p>SURFACE OWNERS: CLEAVER, KURT V. & JANET</p> <p>MINERAL OWNERS: BLACK GOLD GROUP LTD</p>	<p>TAX MAP NO. 15-0007-0017-0005-0000 ASSESSED ACREAGE: 0.003 ACRES</p> <p>SURFACE OWNERS: CLEAVER, KURT V. & JANET</p> <p>MINERAL OWNERS: BLACK GOLD GROUP LTD</p>
<p>TAX MAP NO. 15-0007-0014-0002-0000 ASSESSED ACREAGE: 0.11 ACRES</p> <p>SURFACE OWNERS: ROSSELL, BROOKS</p> <p>MINERAL OWNERS: DARRELL E. SR. & ELIZABETH A. CONNER</p>	<p>TAX MAP NO. 15-0007-0013-0004-0000 ASSESSED ACREAGE: 8.41 ACRES</p> <p>SURFACE OWNERS: PROVAN, JEREMY S.</p> <p>MINERAL OWNERS: AMP FUND III, LP DAVID ROSS HEIRS ALEXIA SPRINGER ANNE C. CLARRY BARBARA JERMSTAD BRIAN C. CLARRY DAVID G. & LEIGH W. PRICE DAVID P. JR. & KELLY M. MINESINGER DONALD L. & W. SUSAN HALL ELIZABETH J. HARREL JAMES ALAN & LONI M. HALL JOHN C. & SUSAN G. MINESINGER LISA MARIE CLARRY MARY M. & LARRY G. GILES ROGER H. & PATRICIA ANN HALL SCOTT A. & JAN CLARRY STEPHANIE C. VOSS</p>	<p>TAX MAP NO. 15-0007-0017-0009-0000 ASSESSED ACREAGE: 0.063 ACRES</p> <p>SURFACE OWNERS: CLEAVER, KURT V. & JANET</p> <p>MINERAL OWNERS: BLACK GOLD GROUP LTD</p>	<p>TAX MAP NO. 15-0007-0017-0005-0000 ASSESSED ACREAGE: 0.003 ACRES</p> <p>SURFACE OWNERS: CLEAVER, KURT V. & JANET</p> <p>MINERAL OWNERS: BLACK GOLD GROUP LTD</p>

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



DATE: April 8, 2019 - Rev May 28, 2019

OPERATOR'S WELL #: KINGS LANDING-10UH

API WELL # 47 051 02225 H6 A
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'
COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV

SURFACE OWNER(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17 SURFACE OWNER(2): ACREAGE(2):

OIL & GAS ROYALTY OWNERS(1): YOUNG, ROBERT L. ET. UX. ACREAGE(1): 39.17

OIL & GAS ROYALTY OWNERS(2): ACREAGE(2):

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: 11,698' ± TMD: 23,452' ±

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

<p>TAX MAP NO. P/O 15-0007-0017-0000-0000 ASSESSED ACREAGE 0.969 ACRES</p> <p>SURFACE OWNERS: ISKCON - NEW MATHURA VRINDABAN INC.</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN INC.</p>	<p>TAX MAP NO. 15-0007-0007-0002-0000 ASSESSED ACREAGE 3.570 ACRES</p> <p>SURFACE OWNERS: SHERWOOD, JOHN H</p> <p>MINERAL OWNERS: KRISHNA PRIYA JANI</p>	<p>TAX MAP NO. 15-0007-0006-0007-0000 ASSESSED ACREAGE 4.718 ACRES</p> <p>SURFACE OWNERS: STORCH, ROBERT A.</p> <p>MINERAL OWNERS: ROBERT A. STORCH</p>	<p>TAX MAP NO. 15-0007-0002-0002-0000 ASSESSED ACREAGE 32.400 ACRES</p> <p>SURFACE OWNERS: MEBERG, MANJARI, ET AL</p> <p>MINERAL OWNERS: MARY PHOEBE MEBERG</p>
<p>TAX MAP NO. 15-0007-0017-0004-0000 ASSESSED ACREAGE 0.729 ACRES</p> <p>SURFACE OWNERS: CLEAVER, KURT & JANET</p> <p>MINERAL OWNERS: BLACK GOLD GROUP LTD</p>	<p>TAX MAP NO. 15-0007-0008-0004-0000 ASSESSED ACREAGE 1.400 ACRES</p> <p>SURFACE OWNERS: NEW VRINDABAN COMMUNITY INC.</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN INC (TITLE HOLDER) AND GEORGE MYERS, JR AND MAUREEN HERTZ (CONTRACT PURCHASERS)</p>	<p>TAX MAP NO. 15-0007-0006-0001-0000 ASSESSED ACREAGE 5.783 ACRES</p> <p>SURFACE OWNERS: STORCH, ROBERT A</p> <p>MINERAL OWNERS: ROBERT A. STORCH</p>	<p>TAX MAP NO. 15-0007-0003-0000-0000 ASSESSED ACREAGE 30.230 ACRES</p> <p>SURFACE OWNERS: LOGSDON, RONALD A., ET UX</p> <p>MINERAL OWNERS: JUDITH A. LOGSDON</p>
<p>TAX MAP NO. 15-0007-0017-0000-0000 ASSESSED ACREAGE 0.51 ACRES</p> <p>SURFACE OWNERS: CLEAVER, KURT V. & JANET</p> <p>MINERAL OWNERS: BLACK GOLD GROUP LTD</p>	<p>TAX MAP NO. 15-0007-0008-0008-0000 ASSESSED ACREAGE 1.250 ACRES</p> <p>SURFACE OWNERS: NORMAN, BRIAN K., ET UX</p> <p>MINERAL OWNERS: ROBERT L. & KATHY J. YOUNG</p>	<p>TAX MAP NO. 15-0007-0005-0004-0000 ASSESSED ACREAGE 13.884 ACRES</p> <p>SURFACE OWNERS: SOFSKY, EMIL P. JR.</p> <p>MINERAL OWNERS: ECO-VRINDABAN, INC (EMIL P. SOFSKY, JR., SINGLE AND MARY A. CAMPBELL, SINGLE)</p>	<p>TAX MAP NO. 14-0005-0077-0000-0000 ASSESSED ACREAGE 57.721 ACRES</p> <p>SURFACE OWNERS: WALTON, SHIRLEY JEAN</p> <p>MINERAL OWNERS: NOBLE MARCELLUS LP BOUNTY MINERALS III LLC SHIRLEY JEAN MOORE</p>
<p>TAX MAP NO. 15-0007-0016-0000-0000 ASSESSED ACREAGE 1.000 ACRES</p> <p>SURFACE OWNERS: SMITH, JAMES A. & CINDY L</p> <p>MINERAL OWNERS: JAMES A. & CINDY L. SMITH</p>	<p>TAX MAP NO. 15-0007-0008-0000-0000 ASSESSED ACREAGE 28.732 ACRES</p> <p>SURFACE OWNERS: YOUNG, ROBERT L., ET UX</p> <p>MINERAL OWNERS: ROBERT L. & KATHY J. YOUNG</p>	<p>TAX MAP NO. 15-0007-0008-0002-0000 ASSESSED ACREAGE 3.086 ACRES</p> <p>SURFACE OWNERS: PATEL, KANTILAL, ET UX</p> <p>MINERAL OWNERS: KANTILAL & MIRA PATEL</p>	<p>TAX MAP NO. 15-0007-0002-0000-0000 ASSESSED ACREAGE 26.300 ACRES</p> <p>SURFACE OWNERS: MILLER, R. CRAIG, ET UX</p> <p>MINERAL OWNERS: R CRAIG & DONITA D. MILLER RESOURCE MINERALS HEADWATER I LP</p>
<p>TAX MAP NO. 15-0007-0014-0000-0000 ASSESSED ACREAGE 4.497 ACRES</p> <p>SURFACE OWNERS: JANI, KRISHNA PRIYA & NAVIN M</p> <p>MINERAL OWNERS: KRISHNA PRIYA & NAVIN MICHAEL JANI</p>	<p>TAX MAP NO. 15-0007-0019-0000-0000 ASSESSED ACREAGE 135.05 ACRES</p> <p>SURFACE OWNERS: GEETA</p> <p>MINERAL OWNERS: ECO-VRINDABAN INC.</p>	<p>TAX MAP NO. 15-0007-0001-0004-0000 ASSESSED ACREAGE 1.04 ACRES</p> <p>SURFACE OWNERS: BHAT, SRILATA</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC. NOBLE MARCELLUS, LP BOUNTY MINERALS, LLC</p>	<p>TAX MAP NO. 15-0007-0002-0005-0000 ASSESSED ACREAGE 4.00 ACRES</p> <p>SURFACE OWNERS: PHILLIPS, MARIAN E.</p> <p>MINERAL OWNERS: MARIAN E. PHILLIPS</p>
<p>TAX MAP NO. 15-0007-0015-0000-0000 ASSESSED ACREAGE 2.600 ACRES</p> <p>SURFACE OWNERS: MCCARDLE, DANIEL J. & LEESA C.</p> <p>MINERAL OWNERS: DANIEL J. & LEESA C. MCCARDLE</p>	<p>TAX MAP NO. 15-0007-0004-0001-0000 ASSESSED ACREAGE 0.680 ACRES</p> <p>SURFACE OWNERS: LOGSDON, RONALD A., ET UX</p> <p>MINERAL OWNERS: JUDITH A. LOGSDON</p>	<p>TAX MAP NO. 15-0007-0002-0001-0000 ASSESSED ACREAGE 5.55 ACRES</p> <p>SURFACE OWNERS: WIESNER, GEORGE L., ET UX</p> <p>MINERAL OWNERS: GEORGE L. & LYNN K. WIESNER</p>	<p>TAX MAP NO. 15-0007-0002-0003-0000 ASSESSED ACREAGE 2.616 ACRES</p> <p>SURFACE OWNERS: CHICOINE, JOY</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>
<p>TAX MAP NO. 15-0007-0018-0001-0000 ASSESSED ACREAGE 0.568 ACRES</p> <p>SURFACE OWNERS: MCCARDLE, DANIEL J. & LEESA C.</p> <p>MINERAL OWNERS: DANIEL J. & LEESA C. MCCARDLE</p>	<p>TAX MAP NO. 15-0007-0006-0000-0000 ASSESSED ACREAGE 55.822 ACRES</p> <p>SURFACE OWNERS: GEETA</p> <p>MINERAL OWNERS: ECO-VRINDABAN, INC., D/B/A GORAKSHYA-SEVA AND ENVIRONMENTAL EDUCATION TRUST OF AMERICA, INC.</p>	<p>TAX MAP NO. 15-0007-0001-0002-0000 ASSESSED ACREAGE 11.552 ACRES</p> <p>SURFACE OWNERS: ISKCON - NEW MATHURA VRINDABAN INC</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>	<p>TAX MAP NO. 15-0007-0002-0006-0000 ASSESSED ACREAGE 2.017 ACRES</p> <p>SURFACE OWNERS: HUDSON, DAVID ANDREW, ET UX</p> <p>MINERAL OWNERS: CONNIE A. & SARA S. HUMPHREY</p>
<p>TAX MAP NO. 15-0007-0018-0000-0000 ASSESSED ACREAGE 42.241 ACRES</p> <p>SURFACE OWNERS: MCCARDLE, DAVID W.</p> <p>MINERAL OWNERS: DAVID W. & CHRISTINE L. MCCARDLE</p>	<p>TAX MAP NO. 15-0007-0006-0006-0000 ASSESSED ACREAGE 3.163 ACRES</p> <p>SURFACE OWNERS: ISKCON - NEW MATHURA VRINDABAN INC.</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>	<p>TAX MAP NO. 15-0007-0001-0003-0000 ASSESSED ACREAGE 19.550 ACRES</p> <p>SURFACE OWNERS: WIESNER, GEORGE L., ET UX</p> <p>MINERAL OWNERS: GEORGE L. & LYNN K. WIESNER</p>	<p>TAX MAP NO. 14-0005-0031-0002-0000 ASSESSED ACREAGE 26.926 ACRES</p> <p>SURFACE OWNERS: DIANA LYNN PETTIT</p> <p>MINERAL OWNERS: DIANA LYNN KING</p>
<p>TAX MAP NO. 15-0007-0007-0000-0000 ASSESSED ACREAGE 66.060 ACRES</p> <p>SURFACE OWNERS: GEETA</p> <p>MINERAL OWNERS: ECO-VRINDABAN, INC., D/B/A GORAKSHYA-SEVA AND ENVIRONMENTAL EDUCATION TRUST OF AMERICA, INC.</p>	<p>TAX MAP NO. 15-0007-0005-0003-0000 ASSESSED ACREAGE 3.097 ACRES</p> <p>SURFACE OWNERS: PATEL, KANTILAL, ET UX</p> <p>MINERAL OWNERS: KANTILAL & MIRA PATEL</p>	<p>TAX MAP NO. 15-0007-0002-0000-0000 ASSESSED ACREAGE 11.910 ACRES</p> <p>SURFACE OWNERS: GEETA</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>	

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



DATE: April 8, 2019 - Rev May 28, 2019
OPERATOR'S WELL #: KINGS LANDING-10UH
API WELL # 47 051 02225HG6A
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'
COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDVILLE, WV
SURFACE OWNER(1) YOUNG, ROBERT L. ET. UX ACREAGE(1) 39.17 SURFACE OWNER(2) ACREAGE(2)
OIL & GAS ROYALTY OWNERS(1) YOUNG, ROBERT L. ET. UX ACREAGE(1) 39.17
OIL & GAS ROYALTY OWNERS(2) ACREAGE(2)

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: 11,698' ± TMD: 23,452' ±
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

TAX MAP NO.
15-0002-0017-0002-0000
ASSESSED ACREAGE: 41.002 ACRES

SURFACE OWNERS:
DOVE, WILLIAM E., ET AL.

MINERAL OWNERS:
RESOURCE MINERALS HEADWATER I, LP

TAX MAP NO.
14-0005-0036-0000-0000
ASSESSED ACREAGE: 31.706 ACRES

SURFACE OWNERS:
DANIEL EDWARD TATCICH
IRREVOCABLE TRUST

MINERAL OWNERS:
DANIEL EDWARD TATCICH,
TRUSTEE OF THE DANIEL EDWARD
TATCICH IRREVOCABLE TRUST
DATED APRIL 27, 2016

TAX MAP NO.
14-0005-0024-0000-0000
ASSESSED ACREAGE: 72.097 ACRES

SURFACE OWNERS:
KOONTZ, CARL E. SR. EST

MINERAL OWNERS:
APP MINERALS, LLC
BONNIE J. MASTERS
CARL E., JR. KOONTZ
CATHY A. EBERT
DIANNA KOONTZ COFFIELD
JOHN R. KOONTZ
LINDA J. KOONTZ

TAX MAP NO.
14-0005-0030-0000-0000
ASSESSED ACREAGE: 11.270 ACRES

SURFACE OWNERS:
HILL, KAY F., ET UX.

MINERAL OWNERS:
KAY F. & BEVERLY K. HILL

TAX MAP NO.
14-0005-0037-0000-0000
ASSESSED ACREAGE: 72.630 ACRES

SURFACE OWNERS:
THE RICHARD H. FRANCIS TRUST

MINERAL OWNERS:
LISA JANE FRANCIS, TRUSTEE,
OR ANY SUCCESSORS IN TRUST,
UNDER THE RICHARD H. FRANCIS TRUST
DATED JULY 01, 2015
AND ANY AMENDMENTS THERETO

TAX MAP NO.
14-0005-0024-0000-0000
ASSESSED ACREAGE: 0.706 ACRES

SURFACE OWNERS:
WILSON, ROBERT J. & REBECCA S.

MINERAL OWNERS:
APP MINERALS, LLC
BONNIE J. MASTERS
CARL JR. & SANDRA J. KOONTZ
CATHY A. & DONALD F. EBERT
DIANNA KOONTZ COFFIELD
JOHN R. KOONTZ
LINDA J. KOONTZ

P/O TAX MAP NO.
14-0005-0029-0000-0000
ASSESSED ACREAGE: 5.028 ACRES

SURFACE OWNERS:
HILL, PAUL A.

MINERAL OWNERS:
KAY F. & BEVERLY K. HILL
KATHLEEN T. HILL AND SUSAN M. FERRIS,
TRUSTEES OF THE K.T. HILL FAMILY TRUST,
DATED DECEMBER 17, 2013

TAX MAP NO.
14-0005-0026-0002-0000
ASSESSED ACREAGE: 27.700 ACRES

SURFACE OWNERS:
BLEDSOE, BILLY JAMES SR. & NORA

MINERAL OWNERS:
BILLY J. & NORA A. BLEDSOE

TAX MAP NO.
13-0014-0050-0000-0000
ASSESSED ACREAGE: 3.800 ACRES

SURFACE OWNERS:
DAVIS-SPARBANIE, D. MARIE

MINERAL OWNERS:
APP MINERALS, LLC
BONNIE J. MASTERS
CARL E. KOONTZ JR. AND SONDRRA J. HEWITT
CATHY A. EBERT
DIANNA KOONTZ COFFIELD
GLEN O. RICHMOND
HELEN M. KOONTZ
JOHN R. KOONTZ
JOYCE E. & RUSSELL F. GEORGE
LINDA J. KOONTZ

TAX MAP NO.
15-0002-0013-0002-0000
ASSESSED ACREAGE: 9.592 ACRES

SURFACE OWNERS:
GEETA

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

TAX MAP NO.
14-0005-0026-0004-0000
ASSESSED ACREAGE: 16.650 ACRES

SURFACE OWNERS:
BLEDSOE, BILLY J. JR. AND CLARA M

MINERAL OWNERS:
BILLY J., JR. & CLARA M. BLEDSOE
DAVID R. BLEDSOE
DONNA JEAN MASON

TAX MAP NO.
13-0014-0038-0001-0000
ASSESSED ACREAGE: 1.000 ACRES

SURFACE OWNERS:
FOSTER, CHARLES S., ET UX.

MINERAL OWNERS:
CHARLES S. & BRENDA K. FOSTER

TAX MAP NO.
15-0002-0016-0001-0000
ASSESSED ACREAGE: 9.683 ACRES

SURFACE OWNERS:
HUNTT, DAVID

MINERAL OWNERS:
DAVID HUNTT

TAX MAP NO.
14-0005-0027-0000-0000
ASSESSED ACREAGE: 76.000 ACRES

SURFACE OWNERS:
SMITH, RICHARD A.

MINERAL OWNERS:
RICHARD A. SMITH

TAX MAP NO.
15-0007-0013-0009-0000
ASSESSED ACREAGE: 6.549 ACRES

SURFACE OWNERS:
BRAUN, FRED, ET AL.

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

TAX MAP NO.
15-0002-0018-0000-0000
ASSESSED ACREAGE: 28.207 ACRES

SURFACE OWNERS:
DOVE, WILLIAM E. & IRENE M., ET AL.

MINERAL OWNERS:
RESOURCE MINERALS HEADWATER I, LP

TAX MAP NO.
14-0005-0026-0003-0000
ASSESSED ACREAGE: 5.000 ACRES

SURFACE OWNERS:
BLEDSOE, DAVID R., ET UX.

MINERAL OWNERS:
BILLY J. JR. & CLARA M. BLEDSOE
DAVID R. BLEDSOE
DONNA JEAN MASON

TAX MAP NO.
15-0007-0013-0007-0000
ASSESSED ACREAGE: 5.331 ACRES

SURFACE OWNERS:
JONES, BHIMASENA

MINERAL OWNERS:
BHIMASENA JONES

TAX MAP NO.
15-0002-0017-0000-0000
ASSESSED ACREAGE: 27.706 ACRES

SURFACE OWNERS:
HUNTT, DAVID

MINERAL OWNERS:
DAVID HUNTT

TAX MAP NO.
14-0005-0026-0001-0000
ASSESSED ACREAGE: 6.060 ACRES

SURFACE OWNERS:
BLEDSOE, DAVID R. & KIMBERLY K.

MINERAL OWNERS:
DAVID R. & KIMBERLY K. BLEDSOE

TAX MAP NO.
KL-ROAD
ASSESSED ACREAGE: 3.077 ACRES

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

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

TAX MAP NO.
14-0005-0028-0000-0000
ASSESSED ACREAGE: 57.260 ACRES

SURFACE OWNERS:
HILL, KAY F., ET AL.

MINERAL OWNERS:
KAY F. & BEVERLY K. HILL
K.T. HILL FAMILY TRUST

TAX MAP NO.
14-0005-0026-0000-0000
ASSESSED ACREAGE: 42.800 ACRES

SURFACE OWNERS:
SHOOK, CLYDE R. - LIFE

MINERAL OWNERS:
EDWARD LEE, II SMITH

TAX MAP NO.
KL-ROAD
ASSESSED ACREAGE: 3.077 ACRES

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

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

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



DATE: April 8, 2019 - Rev May 28, 2019

OPERATOR'S WELL #: KINGS LANDING-10UH

API WELL # 47 051 02225H6A
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,310.04'

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

SURFACE OWNER(1) YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17 SURFACE OWNER(2) _____ ACREAGE(2) _____

OIL & GAS ROYALTY OWNERS(1) YOUNG, ROBERT L. ET. UX. ACREAGE(1) 39.17

OIL & GAS ROYALTY OWNERS(2) _____ ACREAGE(2) _____

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: 11,698' ± TMD: 23,452' ±

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. Kings Landing-10UH

**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

RECEIVED
Office of Oil and Gas

MAY 06 2019

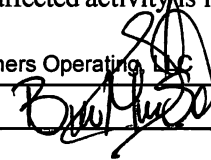
WV Department of
Environmental Protection

**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

Kings Landing-10UH Wellbore Tracts

Map #	Lease #	Lessor	Current Lessee	Royalty	Recording Information	Parcel
73	WV-MAR-0054	David R. & Kimberly K. Bledsoe	American Petroleum Partners Operating, LLC	Not Less than 1/8th	976-423	14-5-26.1
69	WV-MAR-0020	Billy J. & Nora A. Bledsoe	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1019-118	14-5-26.2
72	WV-MAR-0025	Billy J., Jr. Bledsoe	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1019-118	14-5-26.3
72	WV-MAR-0025	David R. Bledsoe	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1019-118	14-5-26.3
72	WV-MAR-0025	Donna Jean Mason	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1019-118	14-5-26.3
70	WV-MAR-0025	Billy J., Jr & Clara M. Bledsoe	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1018-8	14-5-26.4
70	WV-MAR-0025	David R. Bledsoe	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1018-8	14-5-26.4
70	WV-MAR-0025	Donna Jean Mason	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1018-8	14-5-26.4
71	WV-MAR-0067	Richard A. Smith	American Petroleum Partners Operating, LLC	Not Less than 1/8th	973-157	14-5-27
59	WV-MAR-0035	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	930-447	15-2-17.2
64	WV-MAR-0035	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	930-447	15-2-18
63	WV-MAR-0671	David Hunt	American Petroleum Partners Operating, LLC	Not Less than 1/8th	946-236	15-2-18.1
4	Force Pooling	AMP Fund III, LP	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	690-444	15-7-13.10
4	WV-MAR-1272	AMP Fund III, LP	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	690-447	15-7-13.10
11	Force Pooling	AMP Fund III, LP	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	690-447	15-7-13.4
11	Force Pooling	AMP Fund III, LP	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	690-444	15-7-13.4
11	Force Pooling	David Ross Heirs	Unleased	Not Less than 1/8th		15-7-13.4

11	Force Pooling	Alexia Springer	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	777-311	15-7-13.4
11	Force Pooling	Anne C. Clarry	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	780-347	15-7-13.4
11	Force Pooling	Barbara Jermstad	Chevron U.S.A. Inc.	Not Less than 1/8th	814-351	15-7-13.4
11	Force Pooling	Brian C. Clarry	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	780-341	15-7-13.4
11	Force Pooling	David G. & Leigh W. Price	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	773-56	15-7-13.4
11	Force Pooling	David P., Jr. & Kelly M. Minesinger	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	781-71	15-7-13.4
11	Force Pooling	Donald L. & W. Susan Hall	Chevron U.S.A. Inc.	Not Less than 1/8th	831-469	15-7-13.4
11	Force Pooling	Elizabeth J. Harrel	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	750-408	15-7-13.4
11	Force Pooling	James Alan & Lori M. Hall	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	781-64	15-7-13.4
11	Force Pooling	John C. & Susan G. Minesinger	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	795-231	15-7-13.4
11	Force Pooling	Lisa Marie Clarry	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	780-335	15-7-13.4
11	Force Pooling	Mary M. & Larry G. Giles	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	792-26	15-7-13.4
11	Force Pooling	Roger H. & Patricia Hall	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	774-472	15-7-13.4
11	Force Pooling	Scott A. & Jan Clarry	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	774-467	15-7-13.4
11	Force Pooling	Stephanie C. Voss	SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	777-305	15-7-13.4

SI-03255

3	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-7-13.5
18B	Force Pooling	AMP Fund III, LP	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	688-513	15-7-17.5(B)
18A	Force Pooling	AMP Fund III, LP	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	688-513	15-7-17.5(A)
18A	Force Pooling	Alexia Springer	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	777-311	15-7-17.5(A)
18A	Force Pooling	Anne C. Clarry	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	780-347	15-7-17.5(A)
18A	Force Pooling	Barbara Jermstad	Chevron U.S.A. Inc.	Not Less than 1/8th	814-351	15-7-17.5(A)
18A	Force Pooling	Brian C. Clarry	Chevron/SWN/Equinor/Jamestown	Not Less than 1/8th	780-341	15-7-17.5(A)
18A	Force Pooling	David G. & Leigh W. Price	Chevron/SWN/Equinor/Jamestown	Not Less than 1/8th	773-56	15-7-17.5(A)
18A	Force Pooling	David P., Jr. & Kelly M. Minesinger	Chevron/SWN/Equinor/Jamestown	Not Less than 1/8th	781-71	15-7-17.5(A)
18A	Force Pooling	David Ross Heirs	Unleased	Not Less than 1/8th		15-7-17.5(A)
18A	Force Pooling	Elizabeth J. Harrel	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	750-408	15-7-17.5(A)
18A	Force Pooling	James Alan & Loni M. Hall	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	781-64	15-7-17.5(A)
18A	Force Pooling	John C. & Susan G. Minesinger	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	795-231	15-7-17.5(A)
18A	Force Pooling	Lisa Marie Clarry	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	780-335	15-7-17.5(A)

18A	Force Pooling	Mary M. & Larry G. Giles	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	792-26	15-7-17.5(A)
18A	Force Pooling	Roger H. & Patricia Ann Hall	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	774-472	15-7-17.5(A)
18A	Force Pooling	Scott A. & Jan Clarry	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	774-467	15-7-17.5(A)
18A	Force Pooling	Stacy Lynn Roberts Trustee; Donald L & W Susan Hall Trust Agreement	Chevron U.S.A. Inc.	Not Less than 1/8th	831-469	15-7-17.5(A)
18A	Force Pooling	Stephanie C. Voss	Chevron U.S.A. Inc. SWN Production Company, LLC Equinor USA Onshore Properties, Inc. Jamestown Resources, LLC	Not Less than 1/8th	777-305	15-7-17.5(A)
10A	Force Pooling	Alexia Springer	Chevron U.S.A. Inc.	Not Less than 1/8th	777-311	15-7-17.7(A)
10A	Force Pooling	Anne C. Clarry	Chevron U.S.A. Inc.	Not Less than 1/8th	780-347	15-7-17.7(A)
10A	Force Pooling	Barbara Jernstad	Chevron U.S.A. Inc.	Not Less than 1/8th	814-351	15-7-17.7(A)
10A	Force Pooling	Brian C. Clarry	Chevron U.S.A. Inc.	Not Less than 1/8th	780-341	15-7-17.7(A)
10A	Force Pooling	David G. & Leigh W. Price	Chevron U.S.A. Inc.	Not Less than 1/8th	773-56	15-7-17.7(A)
10A	Force Pooling	David P., Jr. & Kelly M. Minesinger	Chevron U.S.A. Inc.	Not Less than 1/8th	781-71	15-7-17.7(A)
10A	Force Pooling	David Ross Heirs	Unleased	Not Less than 1/8th		15-7-17.7(A)
10A	Force Pooling	Donald L. Hall and W. Susan Hall, by Stacy Lynn Roberts, acting as trustee	Chevron U.S.A. Inc.	Not Less than 1/8th	831-469	15-7-17.7(A)
10A	Force Pooling	Elizabeth J. Harrel	Chevron U.S.A. Inc.	Not Less than 1/8th	750-408	15-7-17.7(A)
10A	Force Pooling	James Alan & Loni M. Hall	Chevron U.S.A. Inc.	Not Less than 1/8th	781-64	15-7-17.7(A)
10A	Force Pooling	John C. & Susan G. Minesinger	Chevron U.S.A. Inc.	Not Less than 1/8th	795-231	15-7-17.7(A)
10A	Force Pooling	Lisa Marie Clarry	Chevron U.S.A. Inc.	Not Less than 1/8th	780-335	15-7-17.7(A)
10A	Force Pooling	Mary M. & Larry G. Giles	Chevron U.S.A. Inc.	Not Less than 1/8th	792-26	15-7-17.7(A)

10A	WV-MAR-1587	Nicky Tsacrios	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1029-71	15-7-17.7(A)
10A	Force Pooling	Roger H. & Patricia Ann Hall	Chevron U.S.A. Inc.	Not Less than 1/8th	774-472	15-7-17.7(A)
10A	Force Pooling	Scott A. & Jan Clarry	Chevron U.S.A. Inc.	Not Less than 1/8th	774-467	15-7-17.7(A)
10A	Force Pooling	Stephanie C. Voss	Chevron U.S.A. Inc.	Not Less than 1/8th	777-305	15-7-17.7(A)
10B	WV-MAR-1587	Nicky Tsacrios	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1029-71	15-7-17.7(B)
29	WV-MAR-0148	David W. & Christine L. McCardle	American Petroleum Partners Operating, LLC	Not Less than 1/8th	931-525	15-7-18
17	WV-MAR-0143	Daniel J. & Leesa C. McCardle	American Petroleum Partners Operating, LLC	Not Less than 1/8th	975-615	15-7-18.2
50	WV-MAR-0016	Mary Phoebe Meberg	American Petroleum Partners Operating, LLC	Not Less than 1/8th	984-258	15-7-2.2
51	WV-MAR-0699	Judith A. Logsdon	American Petroleum Partners Operating, LLC	Not Less than 1/8th	665-330	15-7-3
38	WV-MAR-0073	ECO-Vrindaban, Inc., d/b/a Gorakshya-Seva and Environmental Education Trust of America, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-144	15-7-6
30	WV-MAR-0073	Eco-Vrindaban, Inc., d/b/a Gorakshya-Seva and Environmental Education Trust of America, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-144	15-7-7
1	WV-MAR-1256	Robert L. & Kathy J. Young	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	685-415	15-7-8.3
81	No Lease # Yet	West Virginia Department of Transportation, Division of Highways	American Petroleum Partners Operating, LLC	Not Less than 1/8th	Not Yet Recorded 1035-403	KL-Road

Note: Heirship was run on parcel 15-7-13.4, 15-7-17.5(A) & 15-7-17.7(A) to determine ownership. The unknown individual(s) listed were searched in the Marshall County Court House, Estate searches were done both locally and out of state. In addition, obituaries were searched, both local and out of state, genealogy websites and multiple search engines were utilized including ancestry.com, white pages, orbit, in an attempt to try to locate the unlocatable heirs/unknown addresses.

Note: Attempts were made to negotiate with the Current Lessee(s) of parcels 15-7-13.10, 15-7-13.4, 15-7-17.5(A), 15-7-17.5(B) & 15-7-17.7(A) to give APP an assignment, sell their interest or participate as a working interest owner in the unit - all were rejected. APP will be pursuing force pooling options.



4705102225

Office of Oil & Gas
601 57th street, SE
Charleston, WV 25304-2345

April 7, 2019

Re: Drilling Under Roads

To Whom It May Concern:

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

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

Sincerely,

Brulio Silva
VP- Drilling

BS/djs

RECEIVED
Office of Oil and Gas
MAY 06 2019
WV Department of
Environmental Protection

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

Date of Notice Certification: _____

API No. 47- 051 - _____
Operator's Well No. Kings Landing-10UH
Well Pad Name: Kings Landing

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>531611.572</u>
County: <u>Marshall</u>		Northing: <u>4419633.576</u>
District: <u>Webster</u>	Public Road Access: <u>Stull Run Road C.R. 44</u>	
Quadrangle: <u>Moundsville</u>	Generally used farm name: <u>Robert Young</u>	
Watershed: <u>Huc-10 Wheeling Creek, Huc-12 Upper Wheeling Creek</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 type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input 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 align="center">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>
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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.

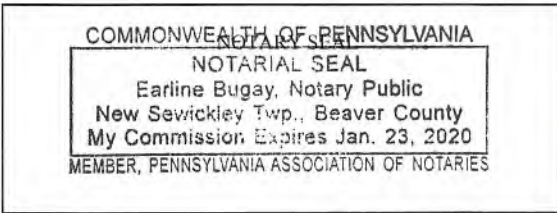
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MAY 06 2019
WV Department of
Environmental Protection

WW-6AC
(1/12)

Certification of Notice is hereby given:

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

Well Operator:	<u>American Petroleum Partners Operating, LLC</u>	Address:	<u>4600 J. Barry Court Suite 310</u>
By:	<u>Braulio Silva</u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Vice President-Drilling</u>	Facsimile:	<u>na</u>
Telephone:	<u>1-724-338-8629</u>	Email:	<u>Regulatory@app-lp.com</u>



Subscribed and sworn before me this 30th day of April 2019.
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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A
(9-13)

API NO. 47-051 -
OPERATOR WELL NO. Kings Landing-10UH
Well Pad Name: Kings Landing

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: _____ Date Permit Application Filed: _____

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: Robert L. and Kathy J. Young
Address: 182 Limestone Hill Lane
Moundsville, WV 26041

Name: _____
Address: _____

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

Name: None
Address: _____

Name: _____
Address: _____

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: **See attached list
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: None
Address: _____

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may 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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Office of Oil and Gas

MAY 06 2019

WV Department of
Environmental Protection

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

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
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4705102225

API NO. 47-051 -
OPERATOR WELL NO. Kings Landing-10UH
Well Pad Name: Kings Landing

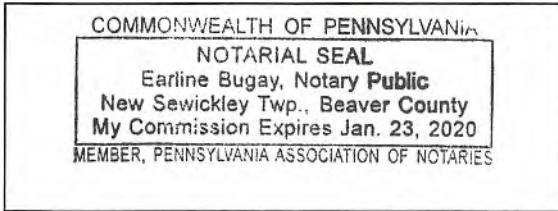
Notice is hereby given by:

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

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.



Subscribed and sworn before me this 30th day of April 2019.

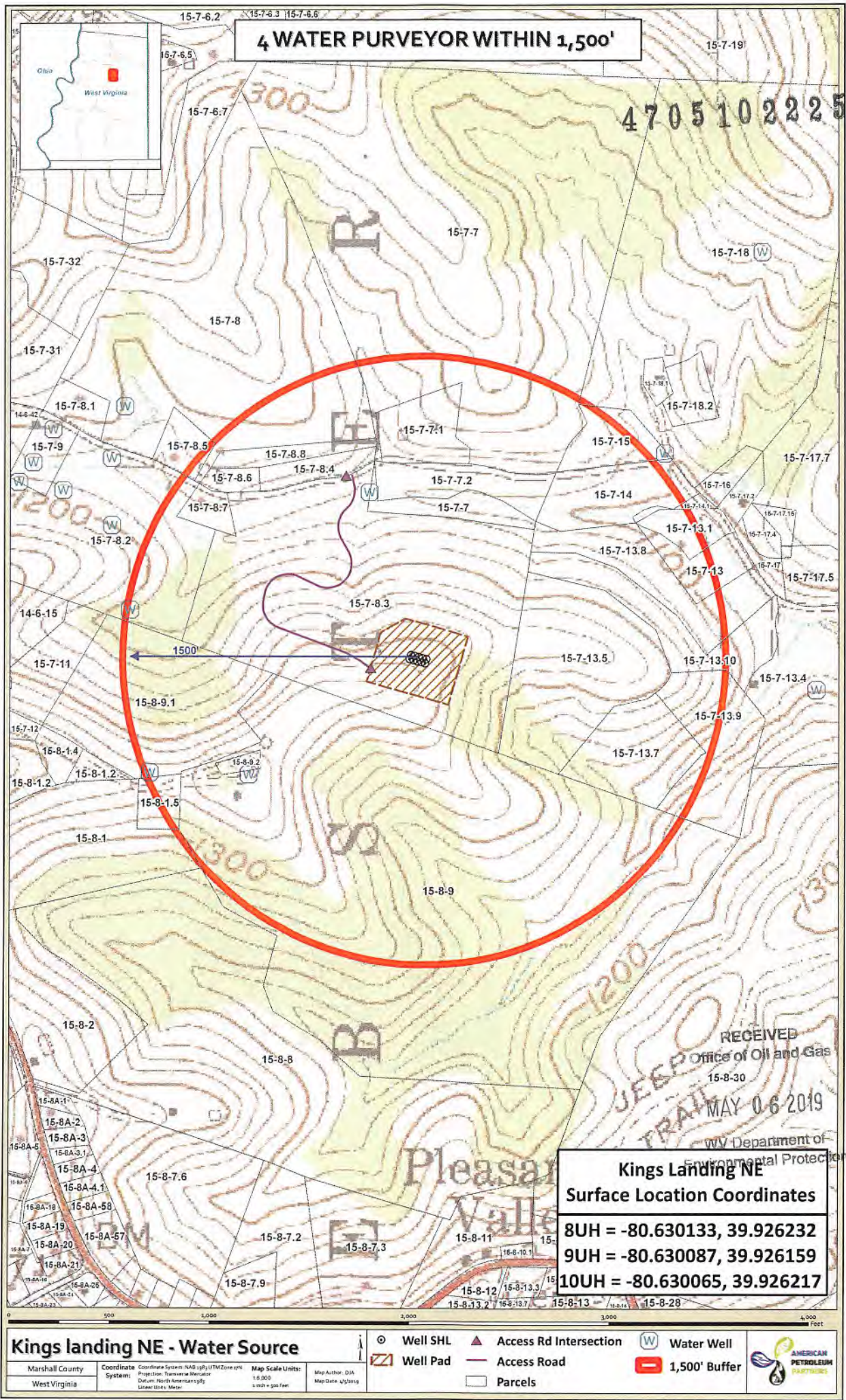
Earline Bugay Notary Public

My Commission Expires 1/23/2020

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Environmental Protection



4 WATER PURVEYOR WITHIN 1,500'

4705102225

**Kings Landing NE
Surface Location Coordinates**

8UH = -80.630133, 39.926232
 9UH = -80.630087, 39.926159
 10UH = -80.630065, 39.926217

Kings landing NE - Water Source

Marshall County
 West Virginia
 Coordinate System: NAD 83
 Projection: Transverse Mercator
 Datum: North American 83
 Units: U.S. Feet
 Map Scale Units: 1:5000
 Map Author: DIA
 Map Date: 11/2019

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



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 MAY 06 2019
 WV Department of Environmental Protection

4705102225

Water Purveyors within 1500' of Kings Landing:

- Robert L. and Katherine Young ✓
182 Limestone Hill Lane
Moundsville, WV 26041
- Joseph Leroy Kittle ✓
177 Limestone Hill Road
Moundsville, WV 26041
- Ivan R. Lilley ✓
204 Miners Lane
Moundsville, WV 26041
- Freddie B. Miner, Et Ux ✓
252 Miners Lane
Moundsville, WV 26041

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WV Department of
Environmental Protection

WW-6A4
(1/12)

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: _____ **Date Permit Application Filed:** _____

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

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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

Name: Robert L. and Kathy J. Young
Address: 182 Limestone Hill Lane
Moundsville, WV 26041

Name: _____
Address: _____

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 531611.572
County: Marshall Northing: 4419633.576
District: Webster Public Road Access: Stull Run Road C.R. 44
Quadrangle: Moundsville Generally used farm name: Robert Young
Watershed: Huc-10 Wheeling Creek, Huc 12 Upper Wheeling Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: American Petroleum Partners Operating, LLC
Address: 4600 J. Barry Court Suite 310
Canonsburg, PA 15317
Telephone: 1-724-338-8629
Email: Regulatory@app-lp.com
Facsimile: na

Authorized Representative: _____
Address: _____
Telephone: _____
Email: _____
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 business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act. The Office of Oil and Gas 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.

MAY 06 2019

WW-6A5
(1/12)

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: _____ **Date Permit Application Filed:** _____

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: Robert L. and Kathy J. Young

Address: 182 Limestone Hill Lane

Moundsville, WV 26041

Name: _____

Address: _____

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>531611.572</u>
County: <u>Marshall</u>		Northing: <u>4419633.576</u>
District: <u>Webster</u>	Public Road Access: <u>Stull Run Road C.R. 44</u>	
Quadrangle: <u>Moundsville</u>	Generally used farm name: <u>Robert Young</u>	
Watershed: <u>Huc-10 Wheeling Creek, Huc 12 Upper Wheeling Creek</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 Operating, LLC
Telephone: 1-724-338-8629
Email: Regulatory@app-lp.com

Address: 4600 J. Barry Court Suite 310
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.

RECEIVED
Office of Oil and Gas

MAY 06 2019

WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation

May 22, 2019

Jimmy Wriston, P. E.
Deputy Secretary/
Acting 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 Kings Landing Pad, Marshall County
Kings Landing 10UH Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2019-0410 which has been issued to American Petroleum Partners for access to the State Road for a well site located off of Marshall County Route 44 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

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

Cc: Julia Sharma
American Petroleum Partners
CH, OM, D-6
File

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Office of Oil and Gas

MAY 22 2019

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)	34690-00-1	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-nitropropionamide	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	88951-67-7	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	20.00000
			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	1.00000

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Office of Oil and Gas
MAY 08 2019
WV Department of
Environmental Protection

KING'S LANDING WELL PAD EROSION AND SEDIMENT CONTROL PLANS

WEBSTER TAX DISTRICT, MARSHALL COUNTY, WEST VIRGINIA



PROPOSED START
ACCESS DRIVE
NAD83
LAT: 39.928734
LONG: -80.631420



WEST VIRGINIA 811
CALL BEFORE YOU DIG!
Dial 811 or 800.245.4948

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS BEFORE ANY EXCAVATION, TRENCHING, OR OTHER WORK TO BE PERFORMED, YOU MUST CONTACT WEST VIRGINIA 811 AT 1-800-245-4948.

PROPOSED WELL PAD
NAD83
LAT: 39.926237
LONG: -80.630295

OPERATOR
AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 J. BABY CREEK
SUITE 100
DANBURG, PA 15311

**APPROVED
WVDEP OOG**
11/5/2019



DIRECTIONS TO THE SITE

FROM WOODVILLE, WV: TRAVEL EAST ON SR 51 (DANARD JEFFERSON AVE FOR 0.2 MILES. TURN LEFT ON GRANT AVENUE FOR 0.3 MILES. TURN RIGHT ONTO 1st STREET FOR 0.7 MILES. 1st STREET BURNS LEFT AND BECOMES US-250 S / WHEELERSBURG PIKE ROAD. CONTINUE ONTO US-250 S / WHEELERSBURG PIKE ROAD FOR 0.6 MILES. TURN LEFT ON WOODRUFFS ROAD ROAD FOR 0.3 MILES. SLIGHT RIGHT ONTO SMALL ROAD FOR 0.5 MILES. SITE WILL BE ON THE RIGHT.

GENERAL NOTES

- THE PRE-CONSTRUCTION TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AERIAL PHOTOGRAPHY COMPILED BY RETIWEV ASSOCIATES.
- THE PROPERTY LINES SHOWN HEREON DO NOT REPRESENT A BOUNDARY SURVEY OR ANY OF THE PARCELS SHOWN. THE PROPERTY LINES ARE BASED ON COUNTY REAL ESTATE TAX MAPS. SEE INFORMATION DEEDS OF RECORD AND AMERICAN PETROLEUM PARTNERS PROVIDED INFORMATION.
- UTILITIES AND THEIR LOCATIONS AS SHOWN HEREON ARE BASED ON OBSERVABLE EVIDENCE OF THOSE UTILITIES ABOVE-GROUND FACILITIES, FEATURES, AND MARKETS WHICH WERE FOUND ON THE SUBJECT PROPERTY AT THE TIME OF SURVEY PERFORMED BY RETIWEV ASSOCIATES. RETIWEV ASSOCIATES CANNOT GUARANTEE THE ACCURACY OF THAT ALL UTILITIES EXISTING WITHIN THE LIMITS OF THE PLAN ARE SHOWN. ANY UTILITIES DISCOVERED SUBSEQUENT TO PLAN APPROVAL OR DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE PLAN SHOULD BE REPORTED TO RETIWEV ASSOCIATES AND AMERICAN PETROLEUM PARTNERS.
- ALL EXISTING UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES AND MUST BE RESPONSIBLE FOR THE PROTECTION OF THESE UTILITIES AND STRUCTURES AT ALL TIMES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DUE TO THE CONTRACTORS REQUIREMENTS SHALL BE REPAIRED IMMEDIATELY AND COMPLETELY AT HIS EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED OR DESTROYED LANDSCAPE AND LIMBS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO RELOCATE UTILITIES AS REQUIRED.
- SOIL AND MOUND: ALL DISTURBED AREAS PER DETAILS.
- ALL CLEARED TREE DIMENSIONS SHOULD BE PLACED ON UPRIGHT. USE OF FILTER FENCE AND/OR SALT FENCE AND NOT STOCKPILED ON-SITE.
- CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT AMERICAN PETROLEUM PARTNERS AND APPROPRIATE RESPONSIBLE AUTHORITIES SHOULD ANY HISTORICAL ARTIFACTS (I.E. SHARPS, POT BURY, ETC.) ARE ENCOUNTERED DURING CONSTRUCTION.

WETLAND IMPACT (SQUARE FEET)				
WETLAND AND IMPACT CLASS	FILL (SF)	CONSTRUCTION DISTURBANCE TO LCO (SF)	TOTAL IMPACT (SF)	W/IN LCO BUT NOT IMPACTED
WETLAND #R0001133 (NEW) (ACROSS)	7,972	0	7,972	0
TOTAL			7,972	0

STREAM IMPACT (LINEAR FEET)					
STREAM AND IMPACT CAUSE	TYPE OF IMPACT	FILL (LF)	CONSTRUCTION DISTURBANCE TO LCO (LF)	TOTAL IMPACT (LF)	TOTAL IMPACT (AC)
STREAM #R00014-1100 (PERENNIAL) (ACROSS)	PERMANENT	138	0	138	0.025
TOTAL				138	0.0250

WELLHEAD LOCATION						
NAD 83 (WV NORTH ZONE)						
WELL DESIGNATION	WELL NAME	NORTHING	EASTING	LATITUDE	LONGITUDE	
WELL A	KINGS LANDING 1UM	521472.107	1841487.007	38.98224	-80.63042	
WELL B	KINGS LANDING 2UM	521483.140	1851503.433	39.92679	-80.63034	
WELL C	KINGS LANDING 3UM	521486.525	1851516.189	39.92670	-80.63029	
WELL D	KINGS LANDING 4UM	521491.293	1851522.624	39.92663	-80.63020	
WELL E	KINGS LANDING 5UM	521490.492	1851536.501	39.92690	-80.63022	
WELL F	KINGS LANDING 6UM	521481.440	1851541.726	39.92648	-80.63020	
WELL G	KINGS LANDING 7UM	521485.530	1851544.452	39.92674	-80.63010	
WELL H	KINGS LANDING 8UM	521470.008	1851560.887	39.92632	-80.63014	
WELL I	KINGS LANDING 9UM	521448.706	1851571.558	39.92619	-80.63028	
WELL J	KINGS LANDING 10UM	521469.743	1851578.893	39.92617	-80.63016	

WELLHEAD LOCATION						
NAD 27 (WV NORTH ZONE)						
WELL DESIGNATION	WELL NAME	NORTHING	EASTING	NORTHING	EASTING	
WELL A	KINGS LANDING 1UM	521435.223	1829332.580	4419533.874	531386.223	
WELL B	KINGS LANDING 2UM	521456.250	1829339.015	4419640.316	531388.147	
WELL C	KINGS LANDING 3UM	521459.170	1829331.711	4419632.168	531392.155	
WELL D	KINGS LANDING 4UM	521450.438	1829358.146	4419638.630	531394.005	
WELL E	KINGS LANDING 5UM	521423.577	1829370.843	4419630.503	531398.010	
WELL F	KINGS LANDING 6UM	521444.533	1829277.737	4419535.945	531399.853	
WELL G	KINGS LANDING 7UM	521417.664	1829389.973	4419628.917	531403.860	
WELL H	KINGS LANDING 8UM	521438.702	1829296.428	4419635.729	531390.732	
WELL I	KINGS LANDING 9UM	521411.819	1829309.319	4419627.154	531408.718	
WELL J	KINGS LANDING 10UM	521432.857	1829315.513	4419633.576	531391.872	

PROPERTY OWNER INFORMATION - KING'S LANDING WELL PAD LIMITS OF DISTURBANCE

WEBSTER DISTRICT - MARSHALL COUNTY								
OWNER	PARCEL ID	TOTAL ACRES	WELL PAD ACREAGE	STOCKPILE ACREAGE	ACCESS DRIVE ACREAGE	TOTAL ACREAGE	TREE CLEARING ACREAGE	LIMITS OF DISTURBANCE
ROBERT L YOUNG	474	26.22	5.57	1.60	4.35	11.52	2.37	21.70
	25-15-7-0009-0003							
	GRAND TOTAL		5.57	1.60	4.35	11.52	2.37	21.70

SOILS CLASSIFICATION

- 202 CHATEAU-BENNETT COMPLEX, 15 TO 25 PERCENT SLOPES
- 202 DOWNPORT-COLEMAN COMPLEX, 25 TO 35 PERCENT SLOPES
- 202 DOWNPORT-COLEMAN COMPLEX, 38 TO 50 PERCENT SLOPES, VERY STONY
- 202 SEASABOOTH Silt LOAM, 6 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED
- 202 SEASABOOTH Silt LOAM, 2 TO 8 PERCENT SLOPES, RARELY FLOODED

LIST OF DRAWINGS

- 1 OF 16 COVER SHEET
- 2 OF 16 EXISTING CONDITIONS PLAN
- 3 OF 16 LAYOUT PLAN
- 4 OF 16 GRADING & EROSION CONTROL PLAN
- 5 OF 16 GRADING ANALYSIS PLAN
- 6 OF 16 CROSS SECTION PLAN
- 7 OF 16 ACCESS DRIVE AND WELL PAD PROFILES
- 8 OF 16 ACCESS DRIVE CROSS SECTIONS
- 9 OF 16 WELL PAD CROSS SECTIONS
- 10 OF 16 NOTES AND DETAIL SHEET
- 11 OF 16 NOTES AND DETAIL SHEET
- 12 OF 16 NOTES AND DETAIL SHEET
- 13 OF 16 NOTES AND DETAIL SHEET
- 14 OF 16 NOTES AND DETAIL SHEET
- 15 OF 16 RECLAMATION PLAN
- 16 OF 16 ELEVATION FOR ROUTE PLAN - US20
- 17 OF 16 WELL PAD BUFFER PLAN

LOCATION COORDINATES

LOCATION OF WELL PAD (NAD83)
LAT: 39.928734
LONG: -80.630295

ACCESS ENTRANCE (NAD83)
LAT: 39.928734
LONG: -80.630295

GENERAL DESCRIPTION

THE PROPOSED WELL PAD SITE IS CURRENTLY UNDISTURBED LAND. THE ACCESS ROAD CROSSES OVER ONE (1) WETLAND AND ONE (1) STREAM. THE PROPOSED CONSTRUCTION WILL INVOLVE CONSTRUCTING A WELL PAD AND ACCESS IN COMPLIANCE WITH WV DEP REQUIREMENTS.

ENTRANCE PERMIT

AMERICAN PETROLEUM PARTNERS WILL OBTAIN AN ENCROACHMENT PERMIT (FORM WA-109) FROM WVDNR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

FLOODPLAIN NOTE

THE SITE IS NOT LOCATED INSIDE OF ANY FLOOD ZONES PER FEMA FLOOD MAP #4601C00906 WITH AN EFFECTIVE DATE 04/24/2009.

ENVIRONMENTAL NOTES

STREAM AND WETLAND DELINEATIONS WERE PERFORMED ON MARCH 15, 2019 BY RETIWEV ASSOCIATES TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WV DEP).

WELL LOCATION RESTRICTIONS

- WELL PAD TO BE CONFINED WITHIN WELL LOCATION RESTRICTIONS OF WV CODE 22-2A-11. THE PADIS COMPLY WITH THE FOLLOWING RESTRICTIONS:
 - 250' FROM AN EXISTING WELL OR CLOVEDEAD SPRING USED FOR HUMAN CONSUMPTION OR DOMESTIC USE.
 - 625' FROM AN OCCURRENCE EMILING OR BURN GREATER THAN 2000 SF USED FOR POTASH OR BARRY MEASURED FROM THE CENTER OF THE PAD.
 - 200' FROM EDGE OF DISTURBANCE TO NATURALLY PRODUCING FRESH STREAM.
 - 100' OF SURFACE OR GROUND WATER INTAKE TO A PUBLIC WATER SUPPLY.
- THE SITE MEETS THE 100' RESTRICTION FROM EDGE OF DISTURBANCE TO PERENNIAL STREAMS, NATURAL OR ARTIFICIAL LAKE, POND OR RESERVOIR. A PERMIT WILL BE OBTAINED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS FOR AN IMPACT TO WETLANDS WITHIN THE 100' RESTRICTION ZONE.

REVIEW ASSOCIATES, INC.
1000 W. MAIN STREET, SUITE 100
DANBURG, PA 15317
TEL: 717-446-7333
FAX: 717-446-7333
WWW.RETIWEV.COM

AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 J. BABY CREEK
SUITE 100
DANBURG, PA 15311

COVER SHEET
FINAL PLANS
FOR
KING'S LANDING WELL PAD
WEBSTER TAX DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

DATE: 03/20/19
SHEET NO. 1 OF 16
DWG. NO. 1025432007

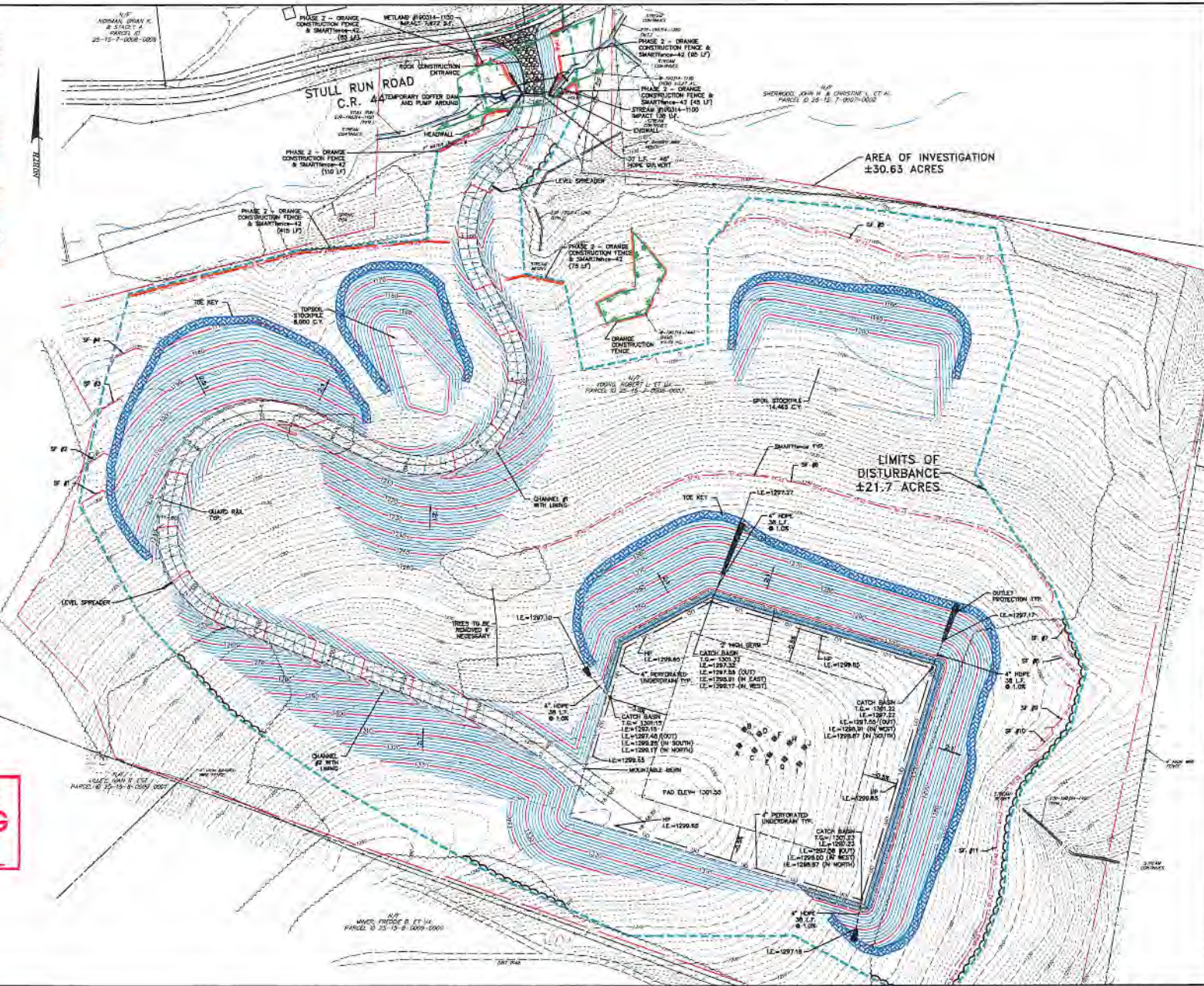
FOR REVIEW ASSOCIATES BY:
AS NOTED

DATE: 03/20/19
BY: [Signature]
CHECKED BY: [Signature]
DATE: 03/20/19
BY: [Signature]
DATE: 03/20/19
BY: [Signature]
DATE: 03/20/19
BY: [Signature]

NOT FOR CONSTRUCTION/NOT FOR BIDDING

LEGEND

EXISTING PROPERTY LINE	---
EXISTING HIGHWAY	---
EXISTING FENCE	---
EXISTING SOIL BOUNDARY	---
SEE INV. DOCUMENT	---
EXISTING SETBACK	---
EXISTING POE	---
EXISTING MAJOR CONDUIT LINE	---
EXISTING MINOR CONDUIT LINE	---
EXISTING UTILITY POE	---
EXISTING DRAINAGE EXISTING LINE	---
EXISTING UNDERGROUND EXISTING LINE	---
EXISTING SLOPE LINE	---
EXISTING CONDUIT CENTER LINE	---
EXISTING FENCE LINE	---
EXISTING SETBACK	---
EXISTING WEIR	---
COUNTY LINE	---
DISTRICT LINE	---
PROPOSED MAJOR CONDUIT LINE	---
PROPOSED MINOR CONDUIT LINE	---
PROPOSED WEIR	---
PROPOSED DRAIN	---
PROPOSED STORM PIPE	---
LIMITS OF DISTURBANCE	---
PROPOSED 40' ELEVATION	---
PROPOSED CONSTRUCTION FENCE	---



APPROVED
WVDEP OOG
11/15/2019

<p>SCALE 0 50' 100' 150'</p> <p>DATE: 03/20/19</p> <p>SHEET NO. 4 OF 19</p> <p>DWG. NO.: 190562007</p>	<p>CONTRACTOR: AMERICAN PETROLEUM PARTNERS</p> <p>CLIENT: AMERICAN PETROLEUM PARTNERS 4000 J. BARNEY COURT CHANDLER, PA 15017</p> <p>DESIGNER: RETIRED</p> <p>PROJECT: GRADING & EROSION CONTROL PLAN FINAL PLANS FOR KINGS LANDING WELL PAD</p>	<p>MANAGER: BJ BATHURSON, PE</p> <p>DESIGNER: [Name]</p> <p>CHECKER: [Name]</p> <p>DATE: 03/20/19</p>
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NOT FOR CONSTRUCTION/NOT FOR BIDDING