



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 - 8UH
47-051-02223-00-00

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 blue ink signature of James A. Martin, written in a cursive style, is placed over the printed name and title.

Operator's Well Number: KINGS LANDING - 8UH
Farm Name: YOUNG, ROBERT L. ET. UX.
U.S. WELL NUMBER: 47-051-02223-00-00
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 #47-051-02223

COMPANY: American Petroleum Partners Operating, LLC

FARM: Robert L. Young et ux Kings Landing-8UH

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, 47-051-02224, and 47-051-02225
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,

A handwritten signature in blue ink that reads "Susan Rose".

Susan Rose
Administrator

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

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

2) Operator's Well Number: Kings Landing-8UH 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: 1313.17' Elevation, proposed post-construction: 1,301.55'

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

Other _____

(b) If Gas Shallow _____ Deep

Horizontal

Jan 4/10/19

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: 20,879'

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11) Proposed Horizontal Leg Length: 8,325'

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

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

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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

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 sx w/30% OH ex
Coal	13 3/8"	New	J-55	54.5#	2,512'	2,512'	CTS 15.2ppg to sur 556 sx w/30% OH ex
Intermediate	9 5/8"	New	HCP-110	43.5#	10,189'	10,189'	CTS 15.4ppg to surf 936 sx w/30% OH ex
Production	5 1/2"	New	HCP-110	23#	20,879'	20,879'	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 and date: 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 sx Yield 1.18
Fresh Water	20"	24"	.438	2,110	400	Class A	Lead yield 2.38 Tail 556 sx Yield 1.27
Coal	13 3/8"	17.5"	.380	2,730	688	Class A	Lead Yield 2.38 Tail 556 sx Yield 1.27
Intermediate	9 5/8"	12.375"-12.25" ₊	.395	7,870	3,166	Class A	Lead Yield 1.28 Tail 936 sx Yield 1.28
Production	5 1/2"	8.5"	.361	14,360	11,000	Class H	Lead Yield 1.27 Tail 471.4 sx Yield 1.27
Tubing	2 7/8"	5.14"	.217	10,570	8,000		
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

API NO. 47-051 -

OPERATOR WELL NO. Kings Landing-8UH

Well Pad Name: Kings Landing

4/10/17

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.

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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

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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 (antisetling, antifoam, fluid loss retarder, salt, viscosifer) & 15.4 Class A tail with additives (antisetling, 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, antisetling, 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 SOB. 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 Base Cement	Additive (Material) Description Grey powder	CAS # 65997-15-1
CA-100	Accelerator	White, flake	10043-52-4 7447-40-7 7732-18-5 7647-14-5

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DRILLING WELL PLAN
Kings Landing-8UH
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							
			Conductor	60	60						
24"	Top-Hole	20" 94# J-55 BTC	Sewickley Coal	722	730	AIR	15.6ppg to surface 521sx w/ 30% OH excess	20" Air Hammer Torco at TD	N/A	Carbide hammer bit	Protect fresh mud/water
			Pittsburgh Coal	808	816						
			Surt. Casing	1216	1216						
17.5"	Top-Hole	13-3/8" 54.5# J-55 BTC	Big Lime	1914	2022	AIR	15.2ppg to surface 556sx w/ 30% OH excess	Center Rock 15" Air Hammer Gyro above Coal, (Mine Approval) Torco at TD	N/A	Hammer bit w/ diamond gage Test casing to 800psi	RECEIVED Office of Oil and Gas MAY 03 2010
			Big Injun	2022	2212						
			Price	2212	2475						
			Int. Casing	2512	2512						
			Tully LS	6712	6750						
			Hamilton	6750	6828						
			Marcellus Shale	6828	6889						
			Onondaga Ls	6889	6895						
			Oriskany Sandstone	7118	7227						
			Salina Group	7578	8651						
12.375" 12.25"	Horizontal Rig	9-5/8" 43.5# P-110IC BTC	Lockport Dolomite	8651	9028	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	PU cleanout assembly, dress plug, displace to 13.5ppg SOBM, PU Curve BHA, time drill / KO cement plug. Expect Seepage in curve
			Rochester Shale	9028	9306						
			Packer Shell	9306	9389						
			Clinton Group	9389	9485						
			Medina Group	9485	9589						
			Queension Shale	9589	10390						
			Int. Casing	10189	10189						
			Utica Shale	11480	11617						
			Point Pleasant Formation	11617	11698						
			Curve LP								
TARGET	11683	11693									
Production Casing											

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

Lateral Targets
 Landing Point
 11698 TVD
 12554 MD
 91.5 Inc
 325 Az
 8325 ft Lateral Length
 91.5 Inc
 325 Az
 Total Depth 11698 TVD 20879 TD

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WW-9
(4/16)

API Number 47 - 051 - _____
Operator's Well No. Kings Landing-8UH

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 SOB

-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 *Bravilio Silva*
Company Official (Typed Name) Bravilio 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: *James Nicholas*

Comments: _____

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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 8UH

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

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Seed Mixtures

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

*Refer to attached Reclamation Plan for further detail.

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Anderson

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 12 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

4705102223

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

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Closed Loop:

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

Cuttings Disposal/Site Water

4705102223

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
Masonstown, WV 26542

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

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

Disposal Locations:

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

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

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

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

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

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

Equipment Transport
1 Tyler Court
Carlisle, PA 17015

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

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

Nichlos 1-A (SWIW #13)
Permit # 3862
300 Cherrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7275

Groselle (SWIW #34)
Permit # 4096
Rt. 88
Garrettsville, OH
713-275-4816

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

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MAY 03 2019

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Environmental Protection

4705102223

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

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

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

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

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

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

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

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

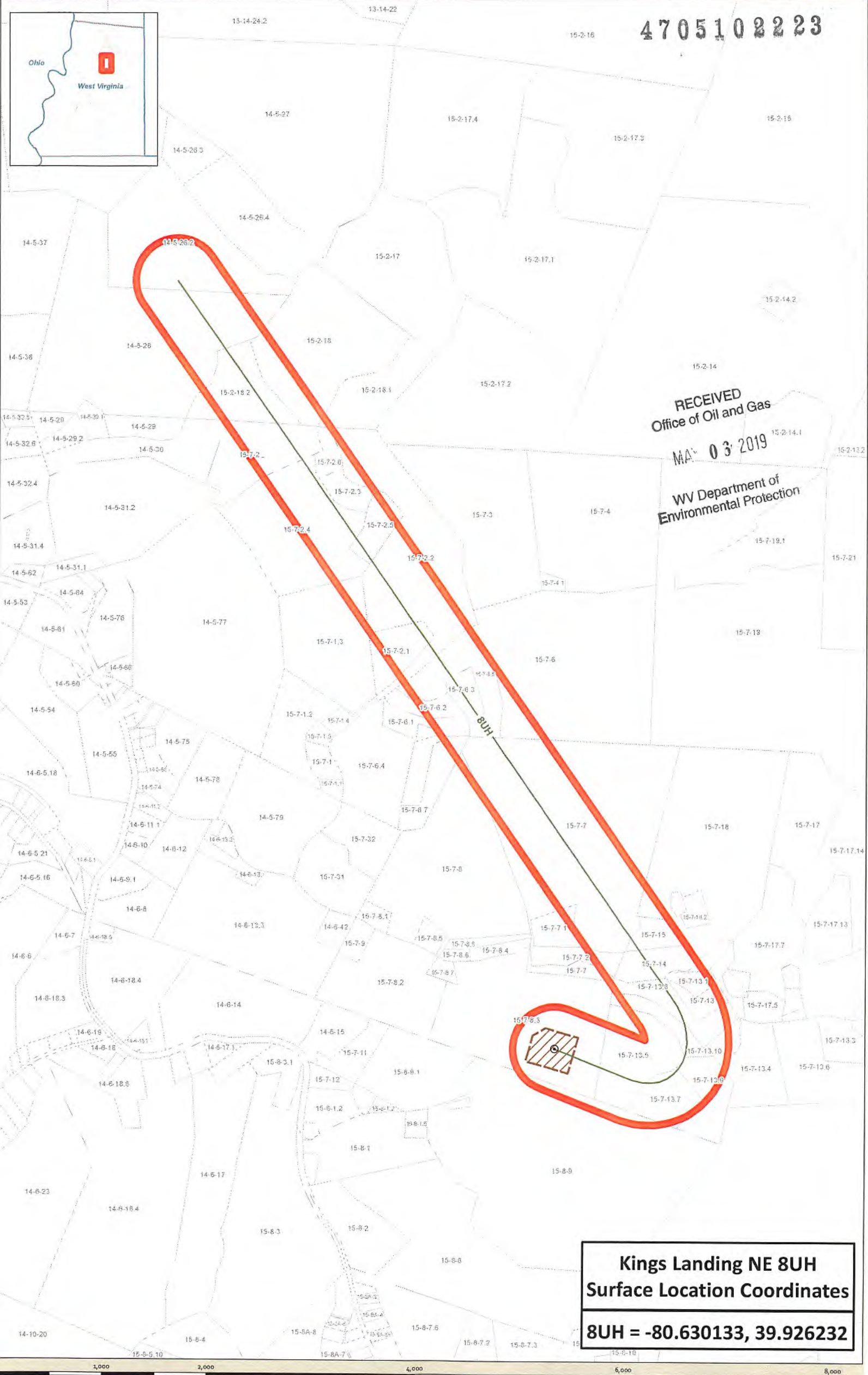
Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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MA: 06 2019

WV Department of
Environmental Protection

4705102223



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Office of Oil and Gas
MAR 03 2019
WV Department of
Environmental Protection

**Kings Landing NE 8UH
Surface Location Coordinates**
8UH = -80.630133, 39.926232

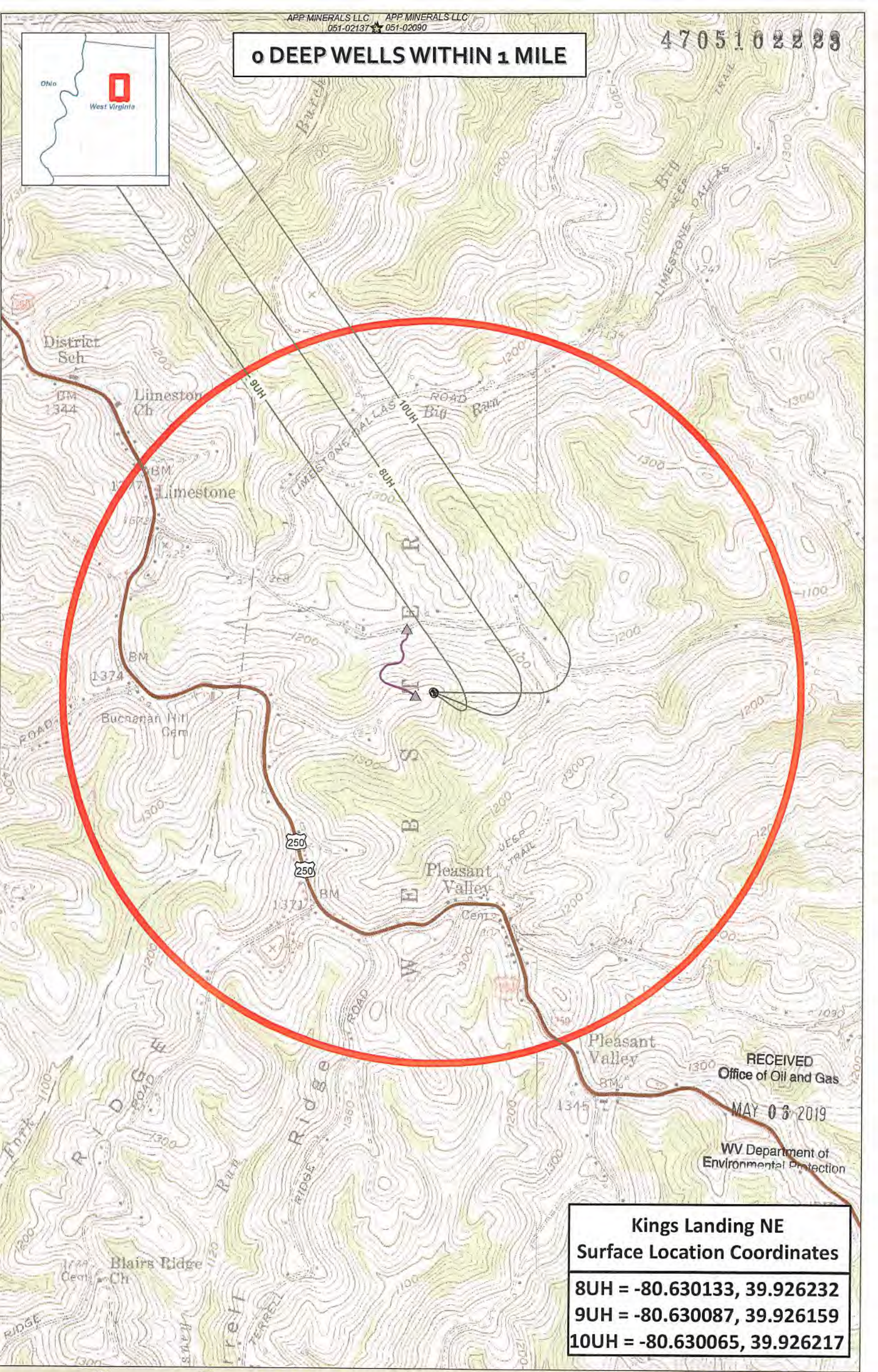
Kings Landing NE 8UH - 400' Buffer

Marshall County
West Virginia
Coordinate System: NAD 1983 UTM Zone 17N
Projection: Transverse Mercator
Datum: North American 1983
Map Scale Units: 1:12,000
1 inch = 1,000 feet
Map Author: DJA
Map Date: 4/3/2019

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



0 DEEP WELLS WITHIN 1 MILE



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Office of Oil and Gas

MAY 03 2019

WV Department of
Environmental Protection

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

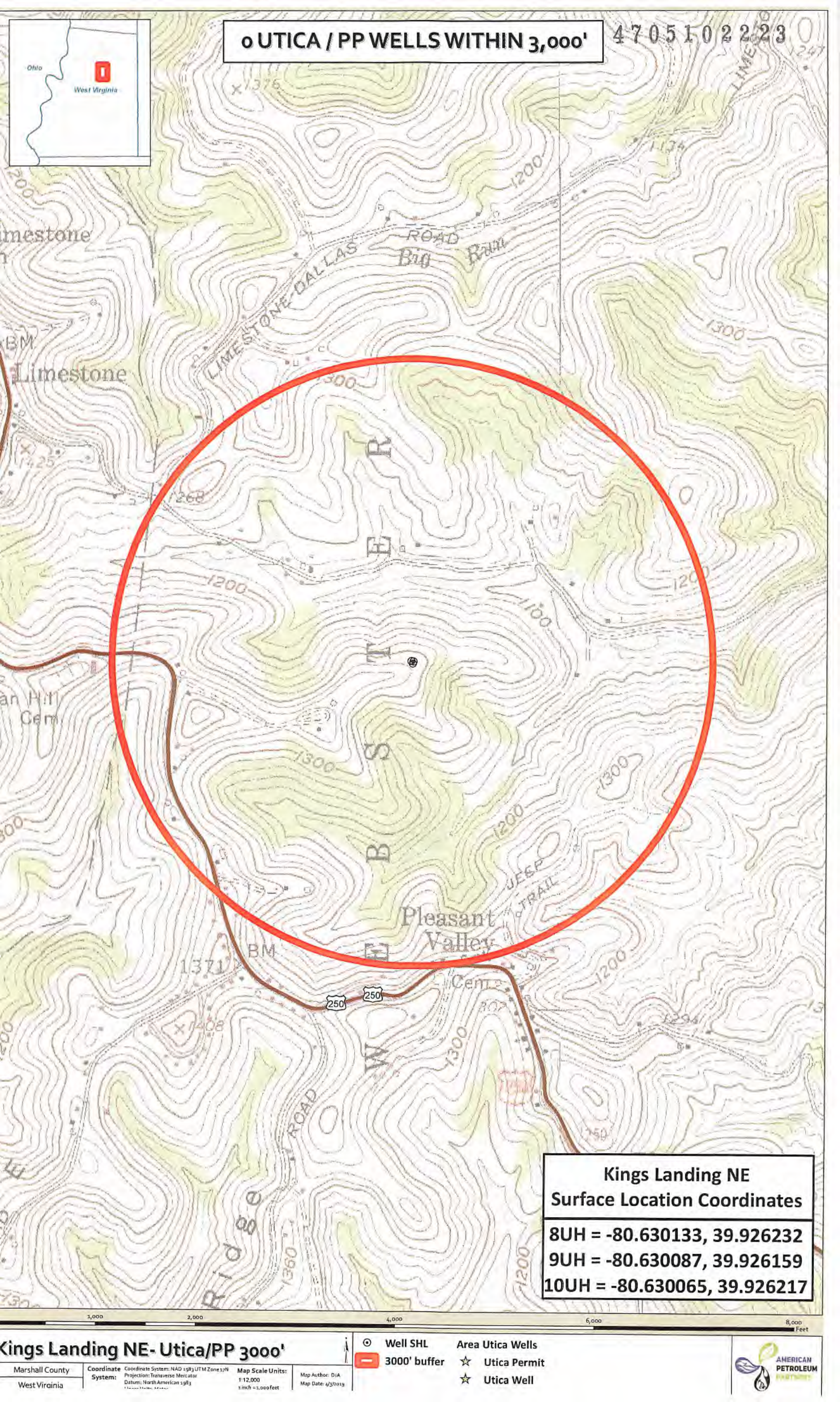


Kings Landing NE- Deep Wells 1 Mile

Marshall County West Virginia	Coordinate System: Coordinate System: NAD 1983 UTM Zone 18N Projection: Transverse Mercator Datum: North American 1983	Map Scale Units: 1:18,000 1 inch = 1,500 feet	Map Author: DIA Map Date: 4/29/19	<ul style="list-style-type: none"> ⊙ Well SHL — Laterals ⊞ 1 mile buffer ☆ Utica Permit ☆ Utica Well ▲ Access Rd Intersection — Access Road 	
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o UTICA / PP WELLS WITHIN 3,000'

4705102223



**Kings Landing NE
Surface Location Coordinates**

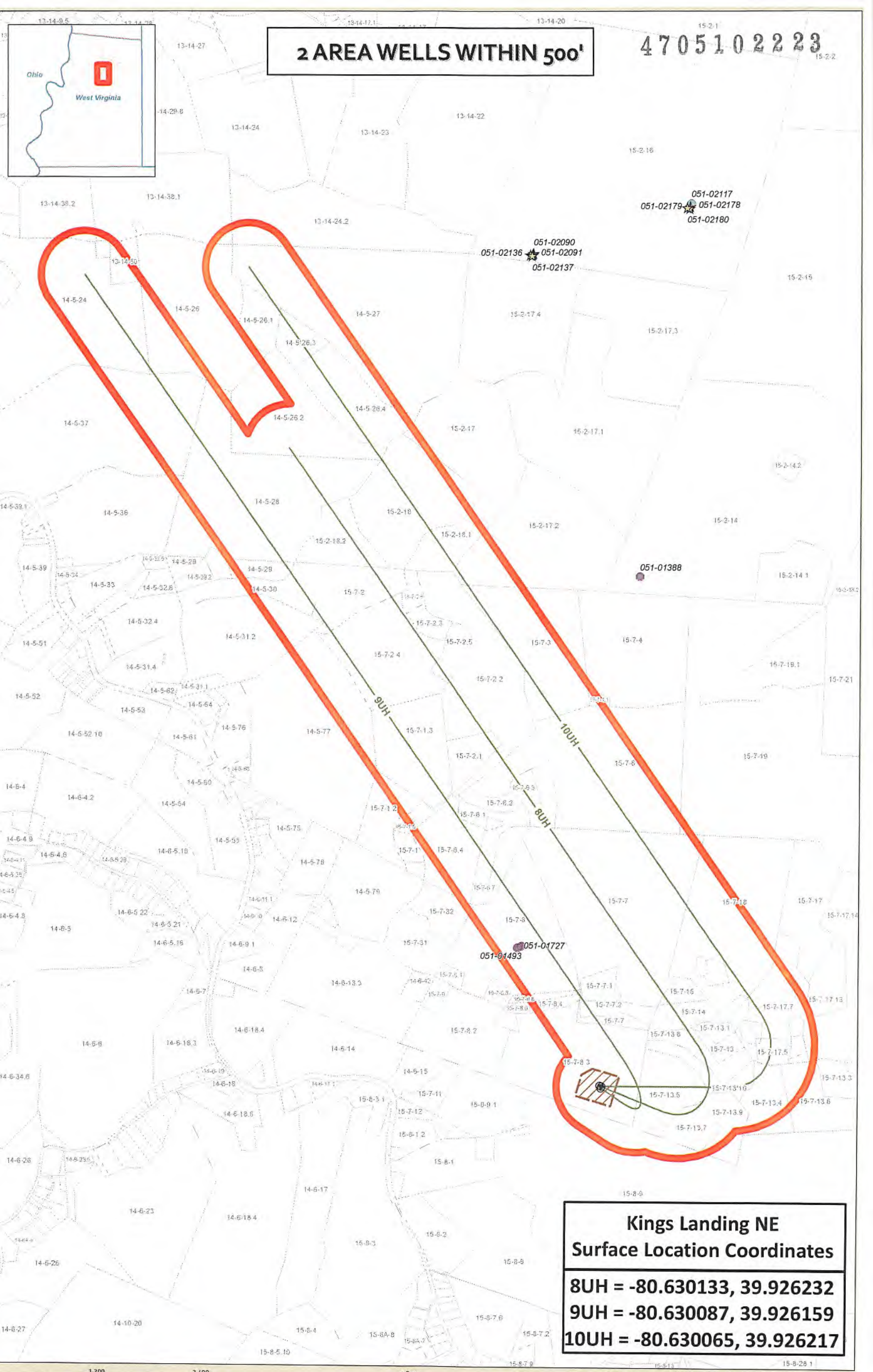
8UH = -80.630133, 39.926232
 9UH = -80.630087, 39.926159
 10UH = -80.630065, 39.926217

Kings Landing NE- Utica/PP 3000'

Marshall County West Virginia	Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983	Map Scale Units: 1:12,000 1 inch = 1,000 feet	Map Author: DIA Map Date: 4/13/2019	<ul style="list-style-type: none"> Well SHL Area Utica Wells 3000' buffer ☆ Utica Permit ☆ Utica Well 	
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2 AREA WELLS WITHIN 500'

4705102223



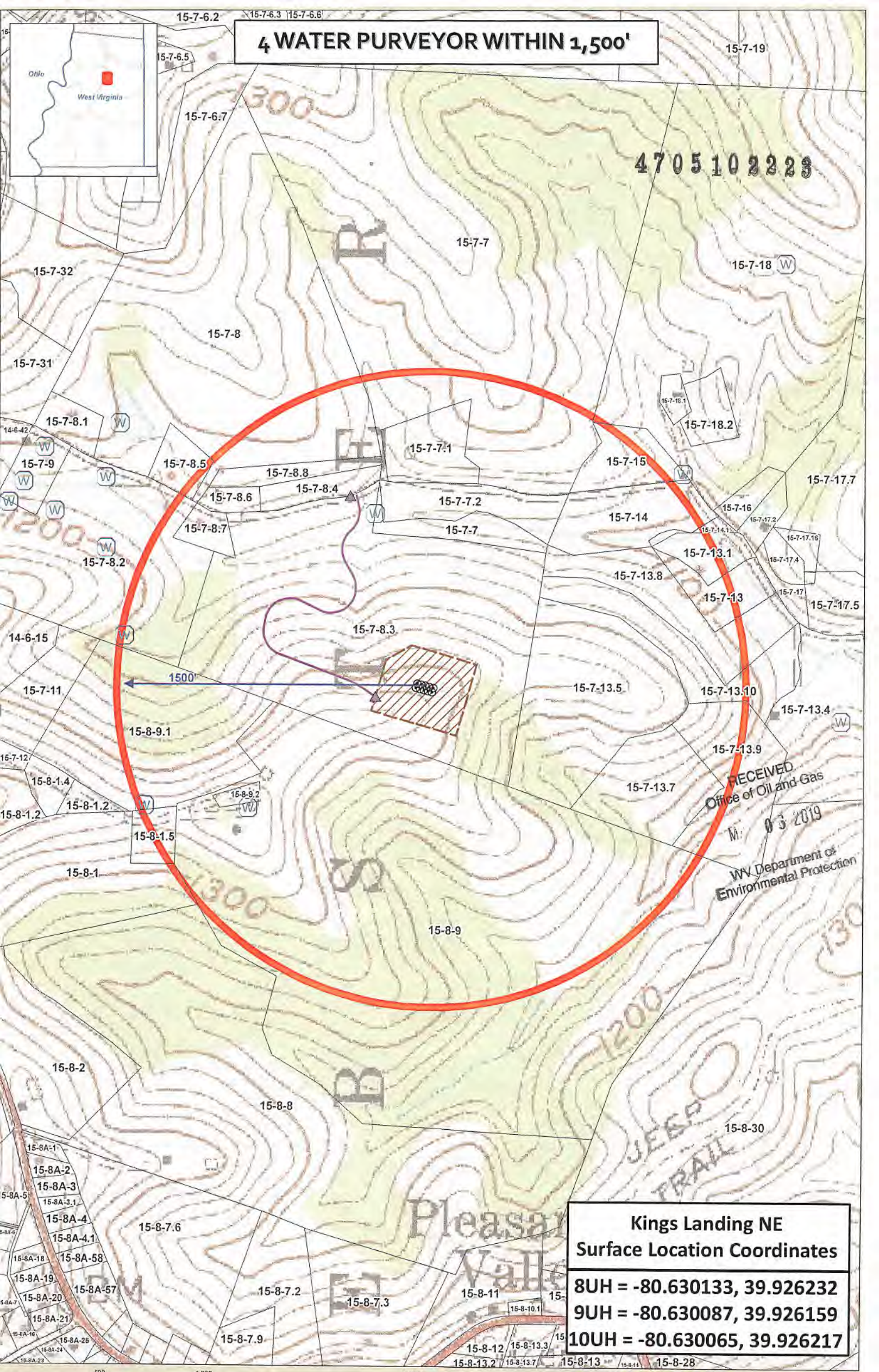
**Kings Landing NE
Surface Location Coordinates**

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

Kings Landing NE - All Area Wells

<p>Marshall County West Virginia</p>	<p>Coordinate System: Coordinate System: NAD 1983 UTM Zone 18N Projection: Transverse Mercator Datum: North American 1983</p>	<p>Map Scale Units: 1:14,400 1 inch = 1,200 feet</p>	<p>Map Author: DJA Map Date: 4/2/2019</p>	<p>Well SHL Laterals 500' buffer</p>	<p>Well Pad Parcels</p>	<p>Other Abandoned Well Active Well Marcellus Permit</p>	<p>Marcellus Well Permit / Future Use Plugged</p>	<p>Shutin Utica Permit Utica Well</p>	
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4 WATER PURVEYOR WITHIN 1,500'



4705102223

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Office of Oil and Gas
M: 03 2019
WV Department of
Environmental Protection

**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: Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983	Map Scale Units: 1:6,000 3 inch = 600 feet	Map Author: DIA Map Date: 4/5/2019	Well SHL Well Pad	Access Rd Intersection Access Road Parcels	Water Well 1,500' Buffer	AMERICAN PETROLEUM CORPORATION
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**AMERICAN
PETROLEUM
PARTNERS**

51 0 223

51 0 223

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Office of Oil and Gas

MAY 06 2019

WV Department of
Environmental Protection

Site Safety Plan

American Petroleum Partners Operating, LLC

Kings Landing Well Pad

473 Limestone Hill Lane

Moundsville, WV 26041

April 2019: Version 1

ju
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

Well is located on topo map 11,694 feet south of Latitude: 39° 57' 30"
 BHL is located on topo map 4,401 feet south of Latitude: 39° 57' 30"

Sheffler & Company, Inc.
 ENGINEERING & SURVEYING

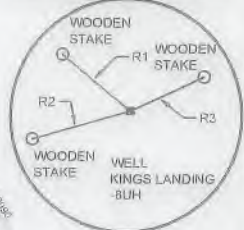
1712 Mount Nebo Road
 Sawickley, PA 15143
 Phone 412-219-4509
 Email info@shefflerCo.com

Well is located on topo map 1,440 feet west of Longitude: 80° 37' 30"
 BHL is located on topo map 5,043 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 native trout 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



LINE NO.	BEARING	DISTANCE
R1	S51°13'08"E	459.51'
R2	N74°06'46"E	534.33'
R3	S85°26'38"W	418.44'
R4	S56°05'06"E	1113.29'
R5	N38°15'07"W	603.31'

TOTAL UNIT
 639.86 ACRES

LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WMB#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'

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83
 N: 4419635.260(m)
 E: 531605.722(m)
 NAD27, WV NORTH
 N: 521438.698(ft)
 E: 1682996.408(ft)
 LAT/LON - NAD83
 LAT: N39.9262324
 LON: W80.6301330

APPROXIMATE LANDING POINT
 UTM 17 - NAD83
 N: 4419775.189(m)
 E: 531953.292(m)
 NAD27, WV NORTH
 N: 52878.786(ft)
 E: 1684144.597(ft)
 LAT/LON - NAD83
 LAT: N39.9274801
 LON: W80.6260588

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83
 N: 4421852.952(m)
 E: 530498.443(m)
 NAD27, WV NORTH
 N: 528776.862(ft)
 E: 1679484.554(ft)
 LAT/LON - NAD83
 LAT: N39.9462536
 LON: W80.6429869

WELL KINGS LANDING - BUH SHL

PROPOSED LATERAL LENGTH = 8,325' ±

FILE # KINGS LANDING - 8UH
 DRAWING # KINGS LANDING - 8UH - 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

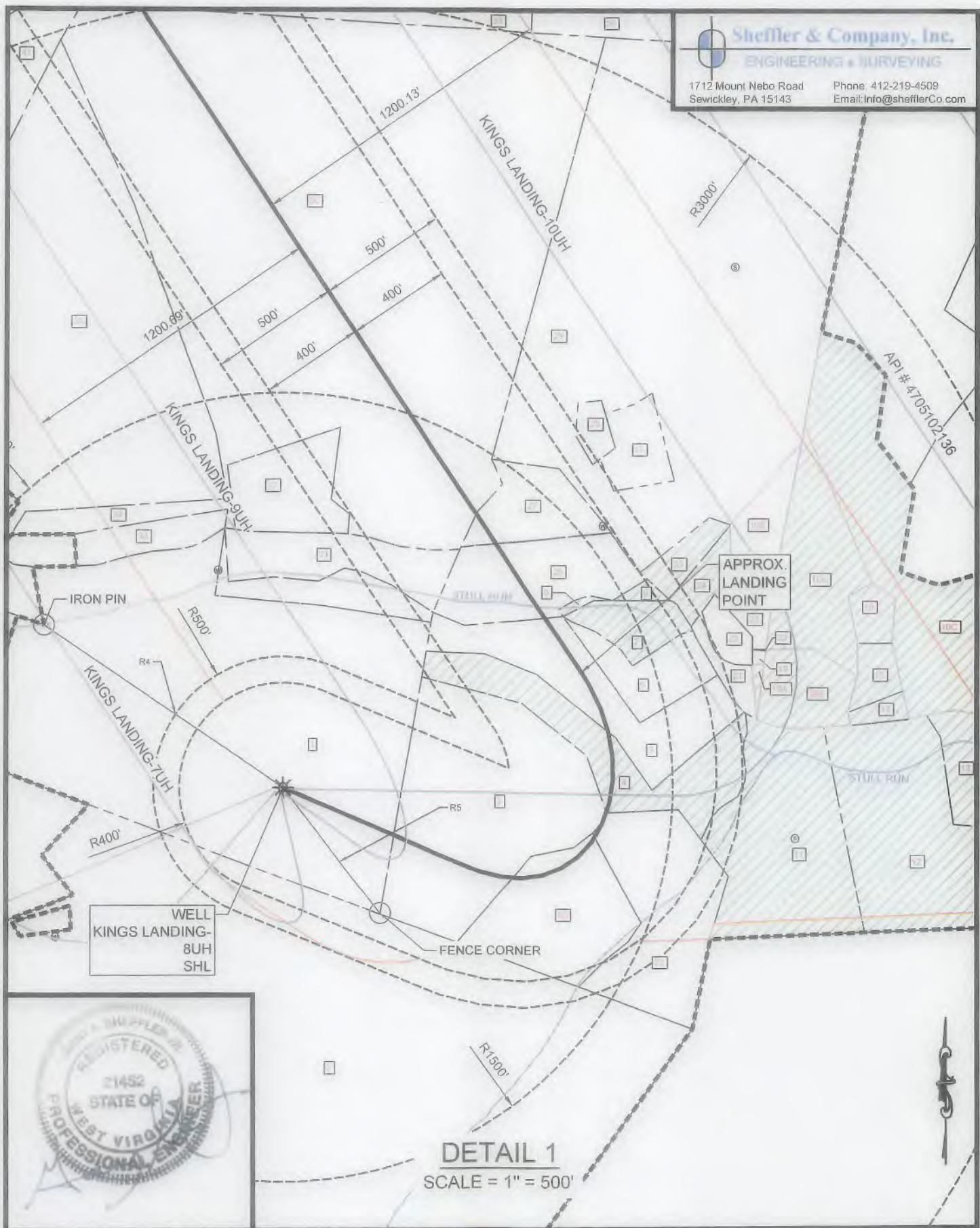
WATERSHED WHEELING CREEK - UPPER OHIO RIVER ELEVATION 1,313.17'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE MOUNDSVILLE, WV
 SURFACE OWNER(1) YOUNG, ROBERT L. ET. UX ACREAGE(1) 39.17 SURFACE OWNER(2) _____ ACREAGE(2) _____
 OIL & GAS ROYALTY OWNERS(1) YOUNG, ROBERT L. ET. UX ACREAGE(1) 39.17
 OIL & GAS ROYALTY OWNERS(2) _____ ACREAGE(2) _____



DATE: April 8, 2019 - Rev May 28, 2019
 OPERATOR'S WELL #: KINGS LANDING-8UH
 API WELL # 47 051 02223H6A
 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: 20,879' ±
 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-
 8UH
 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-8UH

API WELL # 47 051 02223H6A
 STATE COUNTY PERMIT

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

WATERSHED WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,313.17'

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: 20,879' ±

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-8UH

API WELL # 47 051 0222346A
 STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,313.17'

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: 20,879' ±

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

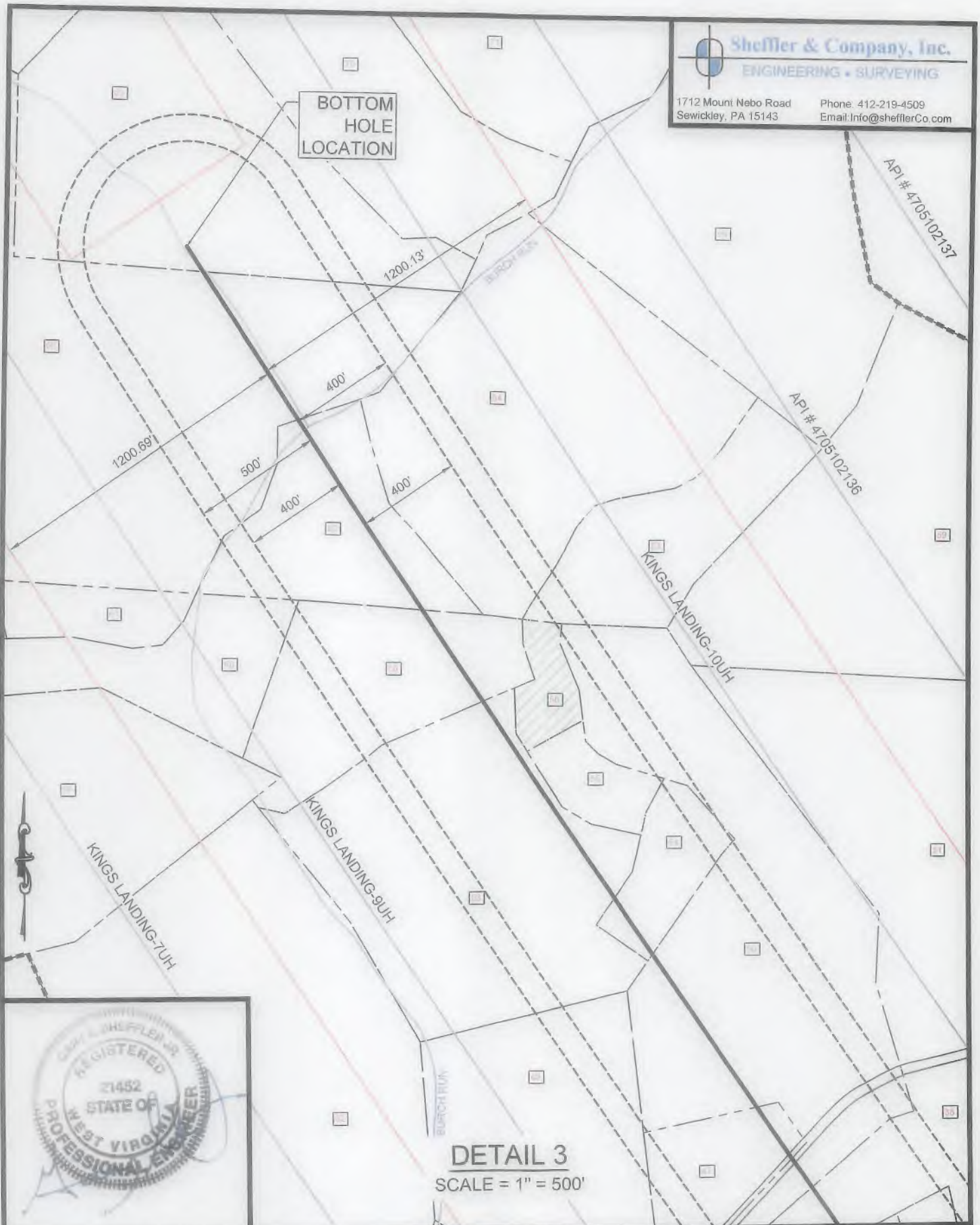


Sheffler & Company, Inc.
ENGINEERING • SURVEYING

1712 Mount Nebo Road
Sewickley, PA 15143

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

**BOTTOM
HOLE
LOCATION**



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-8UH

API WELL # 47 051 02223H6A
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,313.17'

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: 20,879' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC

DESIGNATED AGENT: STEVEN GREEN

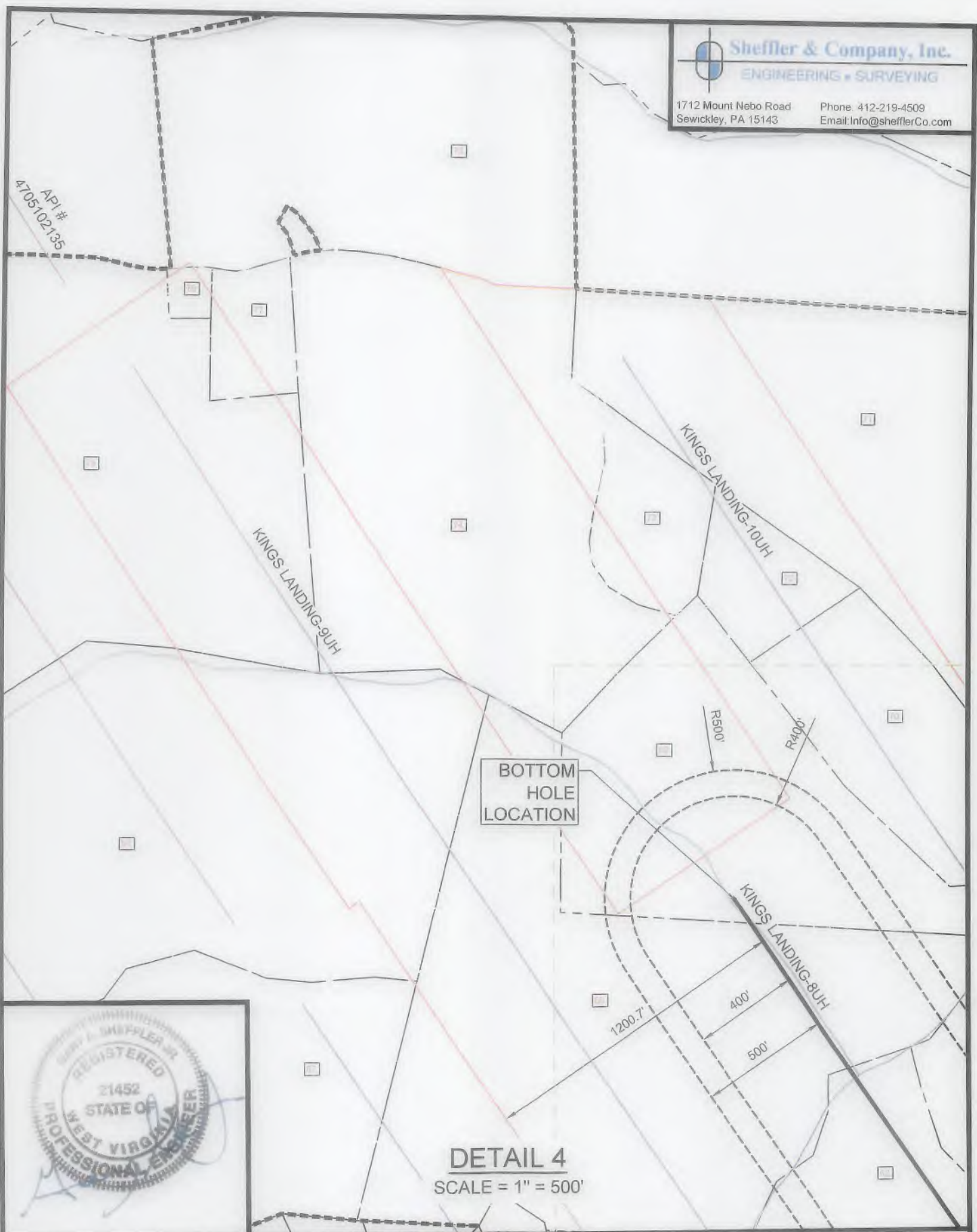
Address: 4600 J. BARRY COURT, SUITE 310

Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317

City CHARLESTON State WV Zip Code 25301

API #
4705702135



**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-8UH

API WELL # 47 051 **02223H6A**
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,313.17'

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) _____

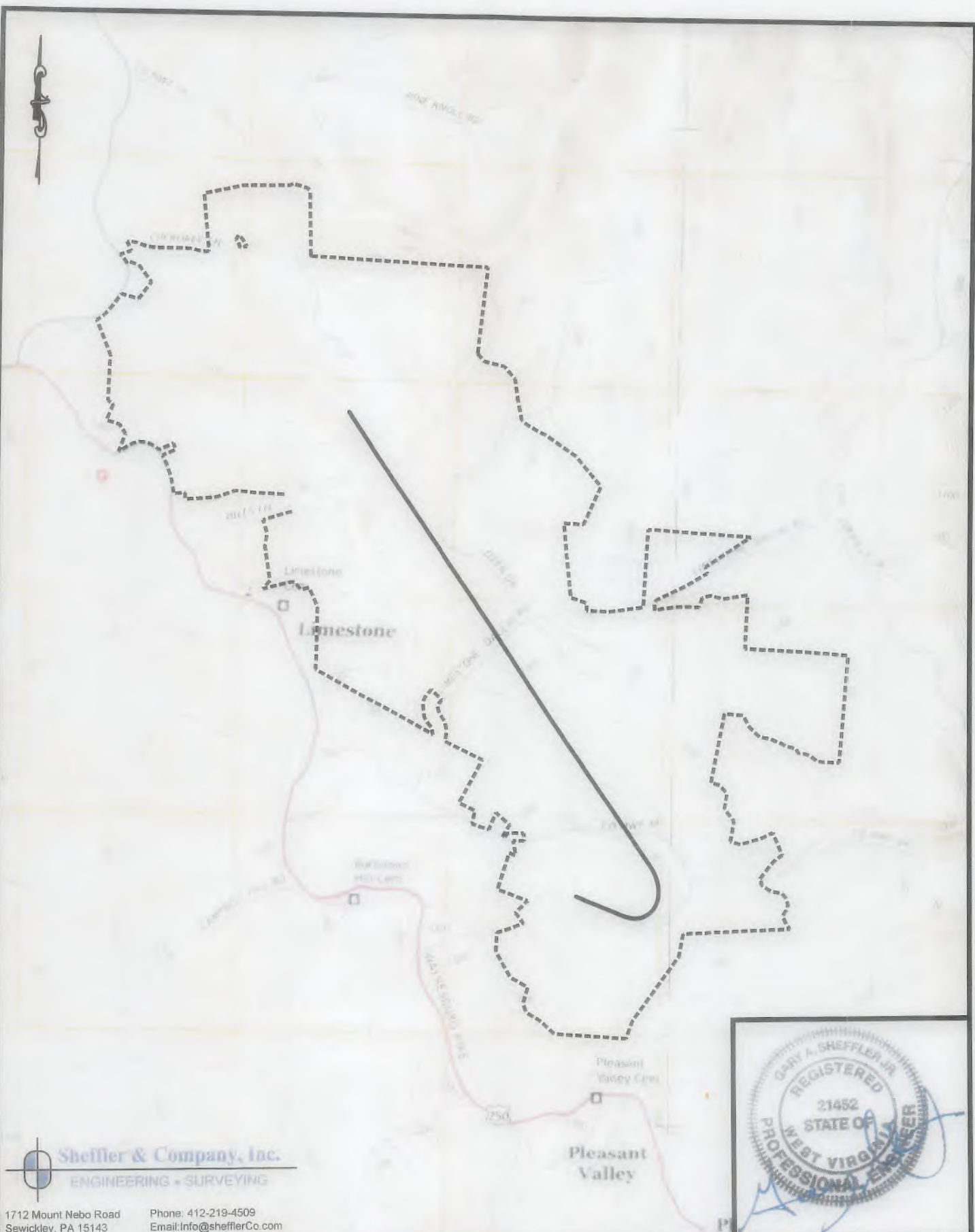
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,698' ± TMD: 20,879' ±

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



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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-8UH
API WELL # 47 051 **02223H6A**
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,313.17'
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: 20,879' ±
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.
15-0007-0008-0003-0000
ASSESSED ACREAGE: 39.17 ACRES

SURFACE OWNERS:
YOUNG, ROBERT L., ET UX.

MINERAL OWNERS:
YOUNG, ROBERT L., ET UX.

TAX MAP NO.
15-0008-0009-0000-0000
ASSESSED ACREAGE: 80.212 ACRES

SURFACE OWNERS
MINER, FREDDIE B., ET UX.

MINERAL OWNERS:
NOBLE MARCELLUS, LP
VEMURI HOME & GARDEN LLC
CHRISTEN R. & JOSEPH L. BLAKE
DONALD & PAMELA P. COLVIN
ELIZABETH JEAN HOWELL
RONALD L. HOWELL, JR.
WILLIAM R. HOWELL
LELIA V. HOWELL
ELIZABETH JEAN GORBY & KENNETH A. T. GORBY
LELIA HOWELL
LINDA M. ATER
NICOLE L. & CHARLES F. REYNOLDS
DONNA LEMONS
SHAYNA M. MILLER
ROBERT L. & CHRISTINA M. LEMONS
RONALD L. HOWELL, JR.
SHAYNA M. MILLER & BRANDON MILLER
WILLIAM R. HOWELL

TAX MAP NO.
15-0007-0013-0005-0000
ASSESSED ACREAGE: 12.271 ACRES

SURFACE OWNERS
BROWN, JOSHUA C.

MINERAL OWNERS
ISKCON NEW VRINDABAN, INC.

TAX MAP NO.
15-0007-0013-0010-0000
ASSESSED ACREAGE: 5.19 ACRES

SURFACE OWNERS
PROVAN, JEREMY

MINERAL OWNERS
AMP FUND III, LP

TAX MAP NO.
15-0007-0013-0008-0000
ASSESSED ACREAGE: 5.567 ACRES

SURFACE OWNERS:
PROVAN, JEREMY S. AND GELDA E.

MINERAL OWNERS
JEREMY S. PROVAN

TAX MAP NO.
15-0007-0013-0000-0000
ASSESSED ACREAGE: 2.234 ACRES

SURFACE OWNERS:
CONNOR, DARRELL E. SR., ET UX.

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

TAX MAP NO.
15-0007-0013-0001-0000
ASSESSED ACREAGE: 1.585 ACRES

SURFACE OWNERS:
CONNOR, DARRELL E. SR., ET UX.

MINERAL OWNERS:
DARRELL E. SR. & ELIZABETH A. CONNER

TAX MAP NO.
15-0007-0014-0002-0000
ASSESSED ACREAGE: 0.11 ACRES

SURFACE OWNERS:
ROSSELL, BROOKS

MINERAL OWNERS:
DARRELL E. SR. & ELIZABETH A. CONNER

TAX MAP NO.
15-0007-0014-0001-0000
ASSESSED ACREAGE: 0.186 ACRES

SURFACE OWNERS:
ROSSELL, BROOKS

MINERAL OWNERS:
DARRELL E. SR. & ELIZABETH A. CONNER

TAX MAP NO.
15-0007-0017-0007-0000
ASSESSED ACREAGE: 16.00 ACRES

SURFACE OWNERS:
TSACRIOS, NICKY M. JR., ET UX.

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

TAX MAP NO.
15-0007-0017-0007-0000
ASSESSED ACREAGE: 16.00 ACRES

SURFACE OWNERS:
TSACRIOS, NICKY M. JR., ET UX.

MINERAL OWNERS(B):
NICKY TSACRIOS

TAX MAP NO.
15-0007-0017-0007-0000
ASSESSED ACREAGE: 16.00 ACRES

SURFACE OWNERS:
TSACRIOS, NICKY M. JR., ET UX.

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

TAX MAP NO.
15-0007-0013-0004-0000
ASSESSED ACREAGE: 8.41 ACRES

SURFACE OWNERS
PROVAN, JEREMY S.

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

TAX MAP NO.
15-0007-0013-0006-0000
ASSESSED ACREAGE: 12.829 ACRES

SURFACE OWNERS:
SHERWOOD, JOHN H. ET AL.

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

TAX MAP NO.
15-0007-0013-0003-0000
ASSESSED ACREAGE: 5.00 ACRES

SURFACE OWNERS:
HYMAN ALAN, ET AL.

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

TAX MAP NO.
15-0007-0017-0011-0000
ASSESSED ACREAGE: 0.424 ACRES

SURFACE OWNERS
JACKSON, ROY F. JR. & ALBERTA R.

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
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

TAX MAP NO.
15-0007-0017-0009-0000
ASSESSED ACREAGE: 0.832 ACRES

SURFACE OWNERS:
SPICHER, JEFFREY ROSS & SHERYL

MINERAL OWNERS:
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

TAX MAP NO.
15-0007-0017-0006-0000
ASSESSED ACREAGE: 0.761 ACRES

SURFACE OWNERS:
TSACRIOS, NICKY M. JR., ET UX.

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
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
STACY LYNN ROBERTS TRUSTEE
DONALD L. & W. SUSAN HALL TRUST AGREEMENT
STEPHANIE C. VOSS

TAX MAP NO.
15-0007-0018-0002-0000
ASSESSED ACREAGE: 1.561 ACRES

SURFACE OWNERS:
MCCARDLE, DANIEL & LEESA

MINERAL OWNERS:
DANIEL J. & LEESA C. MCCARDLE

TAX MAP NO.
15-0007-0017-0005-0000
ASSESSED ACREAGE: 2.25 ACRES

SURFACE OWNERS:
SPICHER, JEFFREY ROSS

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

TAX MAP NO.
15-0007-0017-0005-0000
ASSESSED ACREAGE: 2.25 ACRES

SURFACE OWNERS:
SPICHER, JEFFREY ROSS

MINERAL OWNERS (B):
AMP FUND III, LP

TAX MAP NO.
15-0007-0017-0005-0000
ASSESSED ACREAGE: 0.063 ACRES

SURFACE OWNERS:
CLEAVER, KURT V. & JANET

MINERAL OWNERS:
BLACK GOLD GROUP LTD

TAX MAP NO.
15-0007-0017-0015-0000
ASSESSED ACREAGE: 0.063 ACRES

SURFACE OWNERS:
CLEAVER, KURT V. & JANET

MINERAL OWNERS:
BLACK GOLD GROUP LTD

(+) 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-8UH

API WELL # 47 051 02223H6A
STATE COUNTY PERMIT

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

WATERSHED WHEELING CREEK - UPPER OHIO RIVER ELEVATION 1,313.17'

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: 20,879' ±

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. 15-0007-0007-0001-0000 ASSESSED ACREAGE: 3.12 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. 15-0007-0017-0016-0000 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. 15-0007-0008-0004-0000 ASSESSED ACREAGE: 1.400 ACRES</p> <p>SURFACE OWNERS: YOHO, CLYDE, ET UX.</p> <p>MINERAL OWNERS: BRENDA KAY YOHO</p>	<p>TAX MAP NO. 15-0007-0006-0005-0000 ASSESSED ACREAGE: 0.487 ACRES</p> <p>SURFACE OWNERS: STORCH, MONICA R.</p> <p>MINERAL OWNERS: MONICA R. STORCH</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. 15-0007-0017-0002-0000 ASSESSED ACREAGE: 0.752 ACRES</p> <p>SURFACE OWNERS: SMITH, JAMES A. & CINDY L.</p> <p>MINERAL OWNERS: JAMES A. & CINDY L. SMITH</p>	<p>TAX MAP NO. 15-0007-0008-0005-0000 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. 15-0007-0006-0004-0000 ASSESSED ACREAGE: 13.864 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. 15-0007-0002-0004-0000 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. 15-0007-0016-0000-0000 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. 15-0007-0006-0002-0000 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. 15-0007-0002-0003-0000 ASSESSED ACREAGE: 2.616 ACRES</p> <p>SURFACE OWNERS: CHICOINE, JOY</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>
<p>TAX MAP NO. 15-0007-0014-0000-0000 ASSESSED ACREAGE: 4.497 ACRES</p> <p>SURFACE OWNERS: JANI, KRSNA PRIYA & NAVIN M.</p> <p>MINERAL OWNERS: KRSNA 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: 2.800 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: 0.860 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: 2.017 ACRES</p> <p>SURFACE OWNERS: HUDSON, DAVID ANDREW, ET UX.</p> <p>MINERAL OWNERS: CONNIE A. & SARA S. HUMPHREY</p>
<p>TAX MAP NO. 15-0007-0018-0001-0000 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. 15-0007-0006-0006-0000 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. 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. 15-0007-0018-0000-0000 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. 15-0007-0009-0006-0000 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. 15-0007-0002-0000-0000 ASSESSED ACREAGE: 11.910 ACRES</p> <p>SURFACE OWNERS: GEETA</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</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. 15-0007-0006-0003-0000 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. 15-0007-0001-0003-0000 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. 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-8UH

API WELL # 47 051 0222346A
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,313.17'
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: 20,879' ±

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: 31.708 ACRES

SURFACE OWNERS:
DANIEL EDWARD TATICH
IRREVOCABLE TRUST

MINERAL OWNERS:
DANIEL EDWARD TATICH,
TRUSTEE OF THE DANIEL EDWARD
TATIH IRREVOCABLE TRUST
DATED APRIL 27, 2018

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.
0014-0005-0028-0002-0000
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.
15-0002-0018-0002-0000
ASSESSED ACREAGE: 9.562 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.
15-0002-0018-0001-0000
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: 5.549 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.
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.
14-0005-0028-0000-0000
ASSESSED ACREAGE: 57.280 ACRES

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

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

TAX MAP NO.
KL-ROAD
SURVEYED 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-8UH

API WELL # 47 051 02223H6A
STATE COUNTY PERMIT

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

WATERSHED WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,313.17'

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: 20,879' ±

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-8UH

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
----------------------	-----------------------	-----------------------	---------	-----------

See attached sheet

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Office of Oil and Gas

MA. 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

51-02223

Kings Landing-8UH Wellbore Tracts

Map #	Lease #	Lessor	Current Lessee	Royalty	Recording Information	Parcel
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
66	WV-MAR-0028	Kay F. & Beverly K. Hill	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1019-136	14-5-28
66	WV-MAR-0029	Kathleen T. Hill and Susan M. Ferris, Trustees of the K.T. Hill Family Trust, dated December 17, 2013	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1025-453	14-5-28
62	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-2-18.2
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	Not Less than 1/8th	690-447	15-7-13.10
3	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-7-13.5
80	WV-MAR-1573	Bhimasena Jones	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1024-430	15-7-13.7
5	WV-MAR-1517	Jeremy S. Provan	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1020-47	15-7-13.8
79	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-7-13.9
26	WV-MAR-1528	Krsna Priva & Navin Michael Jani	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1020-50	15-7-14
27	WV-MAR-0143	Daniel J. & Leesa C. McCardle	American Petroleum Partners Operating, LLC	Not Less than 1/8th	975-615	15-7-15
58	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-7-2
47	WV-MAR-0616	George L. & Lynn K. Wiesner	American Petroleum Partners Operating, LLC	Not Less than 1/8th	941-470	15-7-2.1
50	WV-MAR-0016	Mary Phoebe Meberg	American Petroleum Partners Operating, LLC	Not Less than 1/8th	984-258	15-7-2.2
53	WV-MAR-0169	R. Craig & Donita D. Miller	American Petroleum Partners Operating, LLC	Not Less than 1/8th	930-341	15-7-2.4
53	WV-MAR-0169	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	930-341	15-7-2.4

54	WV-MAR-0072	Marian E. Phillips	American Petroleum Partners Operating, LLC	Not Less than 1/8th	977-430	15-7-2.5
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
40	WV-MAR-0052	Kantilal & Mira Patel	American Petroleum Partners Operating, LLC	Not Less than 1/8th	972-558	15-7-6.3
39	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	827-480	15-7-6.6
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	WV-MAR-1673	West Virginia Department of Transportation, Division of Highways	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1035-403	KL-Road

Note: Attempts were made to negotiate with the Current Lessee of parcel 15-7-13.10 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.



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,

Braulio Silva
VP- Drilling

BS/djs

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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

4705102223

Date of Notice Certification: _____

API No. 47- 051 - _____
Operator's Well No. Kings Landing-8UH
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: _____	West Virginia	UTM NAD 83	Easting: _____	531605.722
County: _____	Marshall		Northing: _____	4419635.260
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			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

OOG OFFICE USE ONLY

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been notified 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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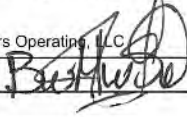
MAY 06 2019

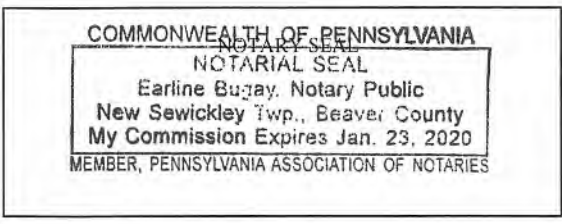
WV Department of
Environmental Protection

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

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

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WV Department of
Environmental Protection

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

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

Date of Notice: _____ **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

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

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.depot.state.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

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10/9/2019
WV Department of Environmental Protection

WW-6A
(8-13)

API NO. 4705102223
OPERATOR WELL NO. Kings Landing-8UH
Well Pad Name: Kings Landing

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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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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WW-6A
(8-13)

API NO. 4705-05102223
OPERATOR WELL NO. Kings Landing-8UH
Well Pad Name: Kings Landing

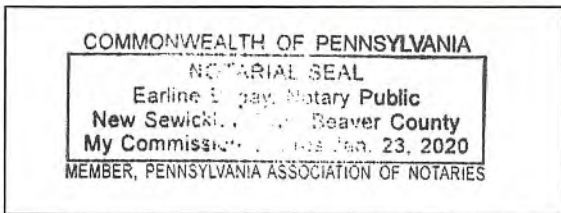
Notice is hereby given by:

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:

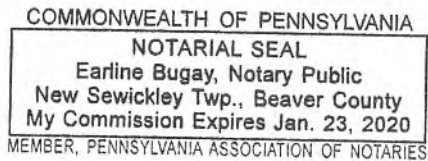
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

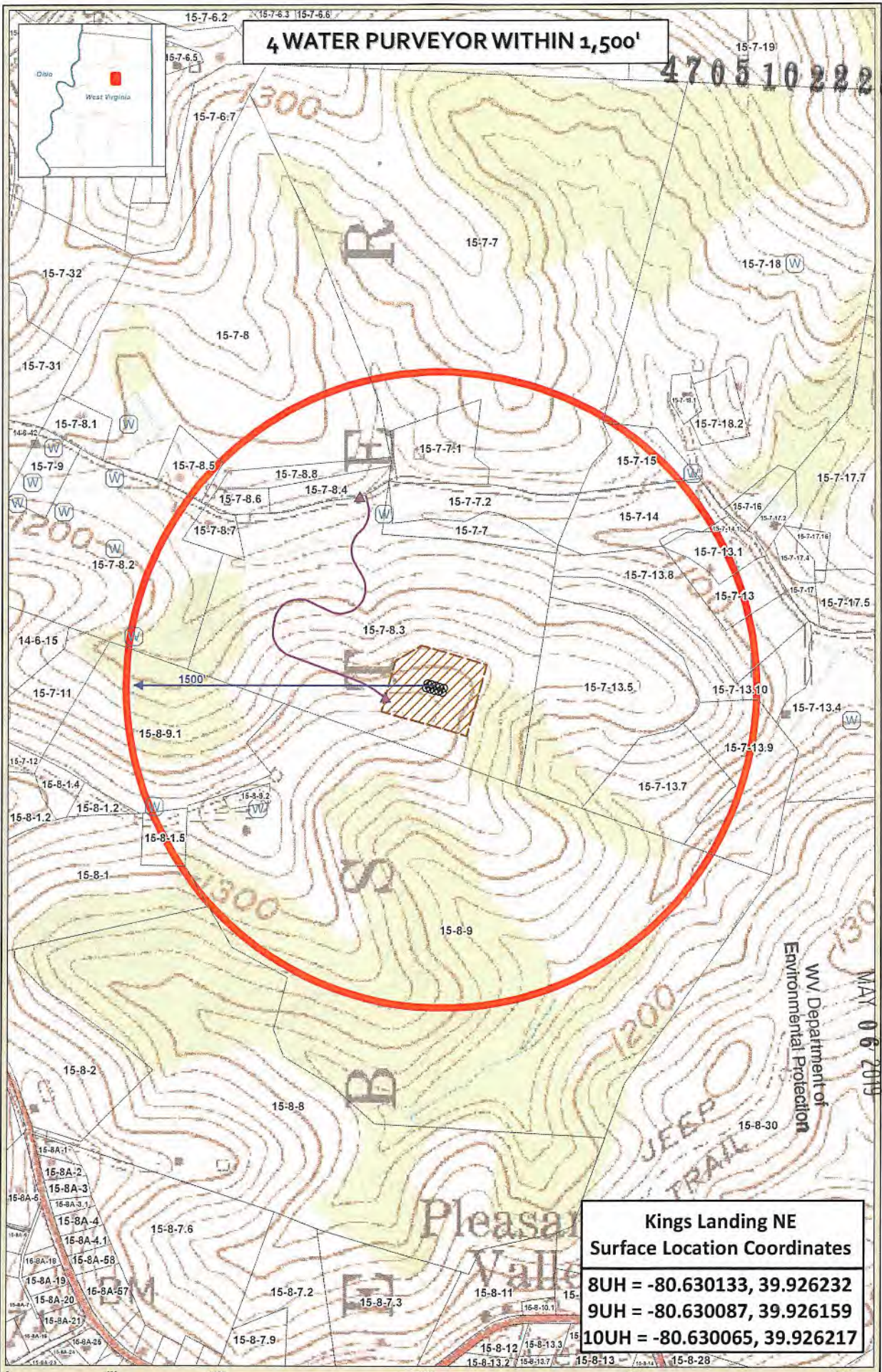
My Commission Expires 1/23/2020



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4 WATER PURVEYOR WITHIN 1,500'

4705102228



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**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: Coordinate System: NAD 83 UTM Zone 18N Projection: Transverse Mercator Datum: North American 83 Linear Units: Meter	Map Scale Units: 10,000 1 inch = 400 feet	Map Author: DA Map Date: 4/29/19	Well SHL Well Pad Access Rd Intersection Access Road Parcels	Water Well 1,500' Buffer	
----------------------------------	--	---	-------------------------------------	--	-----------------------------	--

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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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: 531605.722
County: Marshall Northing: 4419635.260
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 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 Office of Oil and Gas, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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

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

Date of Notice: _____ Date Permit Application Filed: _____

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

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

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

Notice is hereby given:

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

State: West Virginia	UTM NAD 83	Easting: 531605.722
County: Marshall		Northing: 4419635.260
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(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	Address: 4600 J. Barry Court Suite 310
Telephone: 1-724-338-8629	Canonsburg, PA 15317
Email: Regulatory@app-lp.com	Facsimile: na

Oil and Gas Privacy Notice:

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

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4705102223



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 8UH 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,

A handwritten signature in blue ink that reads "Gary K. Clayton".

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

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

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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	68951-67-7	3.00000
			Olefin	64743-02-8	3.00000
			Fatty Acids, tall oil	61790-12-3	3.00000
			2-Propyn-1-ol	107-19-7	3.00000
FRA-409	Stingray	Friction Reducer			
			Copolymer of 2-propenamide	Proprietary	30.00000
			Distillates (petroleum), Hydrotreated Light	64742-47-8	20.00000
			Alcohols, C12-16, Ethoxylated	68551-12-2	2.00000
			Alkanolamide	93-83-4	2.00000
			Ammonium Chloride	12125-02-9	1.00000
CSL-30	Stingray	pH Control			
			Sodium Hydroxide	1310-73-2	30.00000
WG-36 GELLING AGENT	Halliburton	Gelling Agent			
			Guar gum	9000-30-0	100.00000
SP BREAKER	Halliburton	Breaker			
			Sodium persulfate	7775-27-1	100.00000
LOSURF-300D	Halliburton	Non-ionic Surfactant			
			Ethanol	64-17-5	60.00000
			Heavy aromatic petroleum	64742-94-5	30.00000
			Naphthalene	91-20-3	5.00000
			Poly(oxy-1,2-ethanediyl), alpha-	12708-91-8	5.00000
			1,2,4 Trimethylbenzene	95-50-0	1.00000

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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 800.245.4548

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS EXCLUDING HOLIDAYS, PRIOR TO ANY EXCAVATION WORK TO BE PERFORMED. ALL OPERATIONS SHALL BE IN ACCORDANCE WITH THE WEST VIRGINIA UTILITY LOCATING ACT AND ALL APPLICABLE REGULATIONS.

NOTE: 1 - OPERATOR
DATE - 06/20/19

**PROPOSED WELL PAD
NAD83**
LAT: 39.926237
LONG: -80.630295

OPERATOR
AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 S. BARRY COURT
SUITE 100
CANNONBURG, PA 15317

**APPROVED
WVDEP OOG**

7/20 11/5/2019



DIRECTIONS TO THE SITE

FROM WINDSORVILLE, WV: TRAVEL EAST ON SH-21 TOWARD JEFFERSON AVE FOR 0.5 MILES. TURN LEFT ON/OFF GRANT AVENUE FOR 0.3 MILE. TURN RIGHT ONTO 1st STREET FOR 0.7 MILES. 1st STREET TURNS LEFT AND BECOMES US-550 S. WINDSORBURG ROAD. CONTINUE ONTO US-550 S. WINDSORBURG PKT ROAD FOR 6.2 MILES. TURN LEFT ONTO WINDSORVILLE ROAD FOR 0.5 MILES. TURN RIGHT ONTO STULL RUN 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 RETIEM ASSOCIATES.
- THE PROPERTY LINES SHOWN HEREON (BE NOT) REPRESENT A BOUNDARY SURVEY ON ANY OF THE PARCELS SHOWN. THE PROPERTY LINES ARE BASED ON COUNTY REAL ESTATE TAX MAPS, GIS INFORMATION, SITES OF RECORD AND AMERICAN PETROLEUM PARTNERS PROVIDED INFORMATION.
- UTILITIES AND THEIR LOCATIONS AS SHOWN HEREON ARE BASED ON OBSERVABLE EVIDENCE OF THOSE VISIBLE ABOVE-GROUND FACILITIES, FEATURES, AND MARKERS WHICH WERE FOUND ON THE SUBJECT PROPERTY AT THE TIME OF SURVEY PERFORMED BY RETIEM ASSOCIATES. RETIEM ASSOCIATES CANNOT GUARANTEE THE ACCURACY OR THAT ALL UTILITIES EXISTING WITHIN THE LIMITS OF THE PLAN ARE SHOWN. ANY UTILITIES ENCOUNTERED SUBSEQUENT TO PLAN APPROVAL OR DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE PLAN SHOULD BE REPORTED TO RETIEM 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 WILL 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 NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AND COMPLETELY AT HIS EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED OR DESTROYED LANDSCAPE AND LAWS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO RELOCATE UTILITIES AS REQUIRED.
- SEED AND MULCH ALL DISTURBED AREAS PER DETAILS.
- ALL CLEARED TREE REMAINS SHOULD BE PLACED ON UPHILL SIDE OF UTILITY TRENCH AND/OR SILT FENCE AND NOT STOCKPILED ON-SITE.
- CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT AMERICAN PETROLEUM PARTNERS AND APPROPRIATE REGULATORY AGENCIES SHOULD ANY HISTORICAL ARTIFACTS (E.G. BONES, POTTERY, ETC.) ARE ENCOUNTERED DURING CONSTRUCTION.

WETLAND IMPACT (SQUARE FEET)

WETLAND AND IMPACT CAUSE	FILL (SF)	CONSTRUCTION DISTURBANCE TO LOG (SF)	TOTAL IMPACT (SF)	WITHIN LOG BUT NOT IMPACTED
WETLAND #180314-1130 (PERM) (ACCESS)	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 LOG (LF)	TOTAL IMPACT (LF)	TOTAL IMPACT (AC)
STREAM #180314-1100 (PERENNIAL) (ACCESS)	PERMANENT	138	0	138	0.025
TOTAL				138	0.025

WELLHEAD LOCATION
NAD 83 (WV NORTH ZONE)

WELL DESIGNATION	WELL NAME	NORTHING	EASTING	LATITUDE	LONGITUDE
WELL A	KINGS LANDING 20H	521492.107	1851487.257	39.9260241	-80.630066
WELL B	KINGS LANDING 20H	521493.145	1851503.484	39.9259799	-80.6300398
WELL C	KINGS LANDING 20H	521488.525	1851916.189	39.9262200	-80.6302929
WELL D	KINGS LANDING 20H	521487.283	1851522.824	39.9261583	-80.6301701
WELL E	KINGS LANDING 20H	521462.432	1851918.921	39.9259800	-80.6302212
WELL F	KINGS LANDING 20H	521481.440	1851541.756	39.9262488	-80.6300907
WELL G	KINGS LANDING 20H	521454.550	1851554.452	39.9261744	-80.6301550
WELL H	KINGS LANDING 20H	521475.658	1851560.887	39.9261932	-80.6301333
WELL I	KINGS LANDING 20H	521448.706	1851573.558	39.9261152	-80.6300837
WELL J	KINGS LANDING 20H	521469.743	1851579.993	39.9261717	-80.6300645

WELLHEAD LOCATION
NAD 27 (WV NORTH ZONE)

WELL DESIGNATION	WELL NAME	NORTHING	EASTING	NORTHING	EASTING
WELL A	KINGS LANDING 20H	521453.223	1852932.580	4419833.874	531588.293
WELL B	KINGS LANDING 20H	521456.250	1852939.015	4419840.316	531589.147
WELL C	KINGS LANDING 20H	521429.370	1852531.711	4419835.148	531581.759
WELL D	KINGS LANDING 20H	521450.208	1852936.140	4419830.630	531594.000
WELL E	KINGS LANDING 20H	521453.017	1852937.843	4419830.503	531598.070
WELL F	KINGS LANDING 20H	521444.835	1852877.271	4419830.945	531598.883
WELL G	KINGS LANDING 20H	521471.684	1852989.973	4419828.817	531603.886
WELL H	KINGS LANDING 20H	521438.702	1852896.430	4419835.259	531605.722
WELL I	KINGS LANDING 20H	521411.819	1852859.079	4419831.134	531600.739
WELL J	KINGS LANDING 20H	521432.857	1853016.013	4419833.576	531601.872

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	47N	36.22	3.57	1.60	4.35	11.52	2.37	21.70
	35-15-7-0008-0003							
	DIVID TOTAL		3.57	1.60	4.35	11.52	2.37	21.70

SOILS CLASSIFICATION

- Q22 CALLEGA-DORNOTH COMPLEX, 15 TO 25 PERCENT SLOPES
- Q26 DORNOTH-CALLEGA COMPLEX, 25 TO 35 PERCENT SLOPES
- D20 DORNOTH-CALLEGA COMPLEX, 35 TO 70 PERCENT SLOPES, VERY STONY
- SEA SANDSHALOUP SILT LOAM, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED
- Q28 SANDSHALOUP SILT LOAM, 3 TO 8 PERCENT SLOPES, RARELY FLOODED

LIST OF DRAWINGS

- 1 OF 10 COVER SHEET
- 2 OF 10 EXISTING CONDITIONS PLAN
- 3 OF 10 LAYOUT PLAN
- 4 OF 10 GRADING & EROSION CONTROL PLAN
- 5 OF 10 GRADING ANALYSIS PLAN
- 6 OF 10 CROSS SECTION PLAN
- 7 OF 10 ACCESS DRIVE AND WELL PAD PROFILES
- 8 OF 10 ACCESS DRIVE CROSS SECTIONS
- 9 OF 10 WELL PAD CROSS SECTIONS
- 10 OF 10 NOTES AND DETAIL SHEET
- 11 OF 10 NOTES AND DETAIL SHEET
- 12 OF 10 NOTES AND DETAIL SHEET
- 13 OF 10 NOTES AND DETAIL SHEET
- 14 OF 10 NOTES AND DETAIL SHEET
- 15 OF 10 REGULATION PLAN
- 16 OF 10 EVACUATION ROUTE PLAN - (000)
- 17 OF 10 WELL PAD BUFFER PLAN

LOCATION COORDINATES

CENTER OF WELL PAD (NAD83)
LAT: 39.926237
LONG: -80.630295

GENERAL DESCRIPTION

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

ENTRANCE PERMIT

AMERICAN PETROLEUM PARTNERS WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MA-126) FROM WVDNR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

FLOODPLAIN NOTE

THE SITE IS NOT LOCATED INSIDE OF ANY FLOOD ZONES PER FEMA FLOOD MAP #400000000 WITH AN EFFECTIVE DATE 09/25/2009.

ENVIRONMENTAL NOTES

STREAM AND WETLAND DELINEATIONS WERE PERFORMED ON MARCH 15, 2018 BY RETIEM ASSOCIATES TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE US ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PRACTICES (WV DEP).

WELL LOCATION RESTRICTIONS

- WELL PAD IS TO COMPLY WITH WELL LOCATION RESTRICTIONS OF WV CODE 22-2A-1. THE PAD SHALL COMPLY WITH THE FOLLOWING RESTRICTIONS:
 - 250' FROM AN EXISTING WELL OR DEVELOPED SPRING USED FOR HUMAN CONSUMPTION OR DOMESTIC ANIMALS
 - 425' FROM AN OCCUPIED DWELLING OR BARN OR OTHER TRAIL 2500' OF SLOPE FOR FOLLIER OR SLOPE MEASURED FROM THE CENTER OF THE PAD.
 - 300' FROM EDGE OF DISTURBANCE TO NATURALLY REGENERATING WOOD STREAMS.
 - 100' OF SURFACE OR GROUND WATER INTAKE TO A PUBLIC WATER SUPPLY.
- THE SITE WELLS THE 100' RESTRICTION FROM EDGE OF DISTURBANCE TO PERENNIAL STREAMS, WATERS OR ARTIFICIAL LAKE, POND OR RESERVOIR. A PERMIT WILL BE OBTAINED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS FOR ANY IMPACT TO WETLANDS WITHIN THE 100' RESTRICTION ZONE.

FOR RETIEM ASSOCIATES BY:

AS NOTED
3 11/17/2019/REVISION PER WACR COMMENTS
2 10/20/19/REVISION PER WACR COMMENTS
1 10/10/19/ADDED WELL BUFFER PLAN
NO. DATE

FOR RETIEM ASSOCIATES BY:

AMERICAN PETROLEUM PARTNERS OPERATING, LLC	DATE: 03/20/19
4600 S. BARRY COURT	
SUITE 100	
CANNONBURG, PA 15317	

CLIENT:

AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 S. BARRY COURT
SUITE 100
CANNONBURG, PA 15317

DATE: 03/20/19

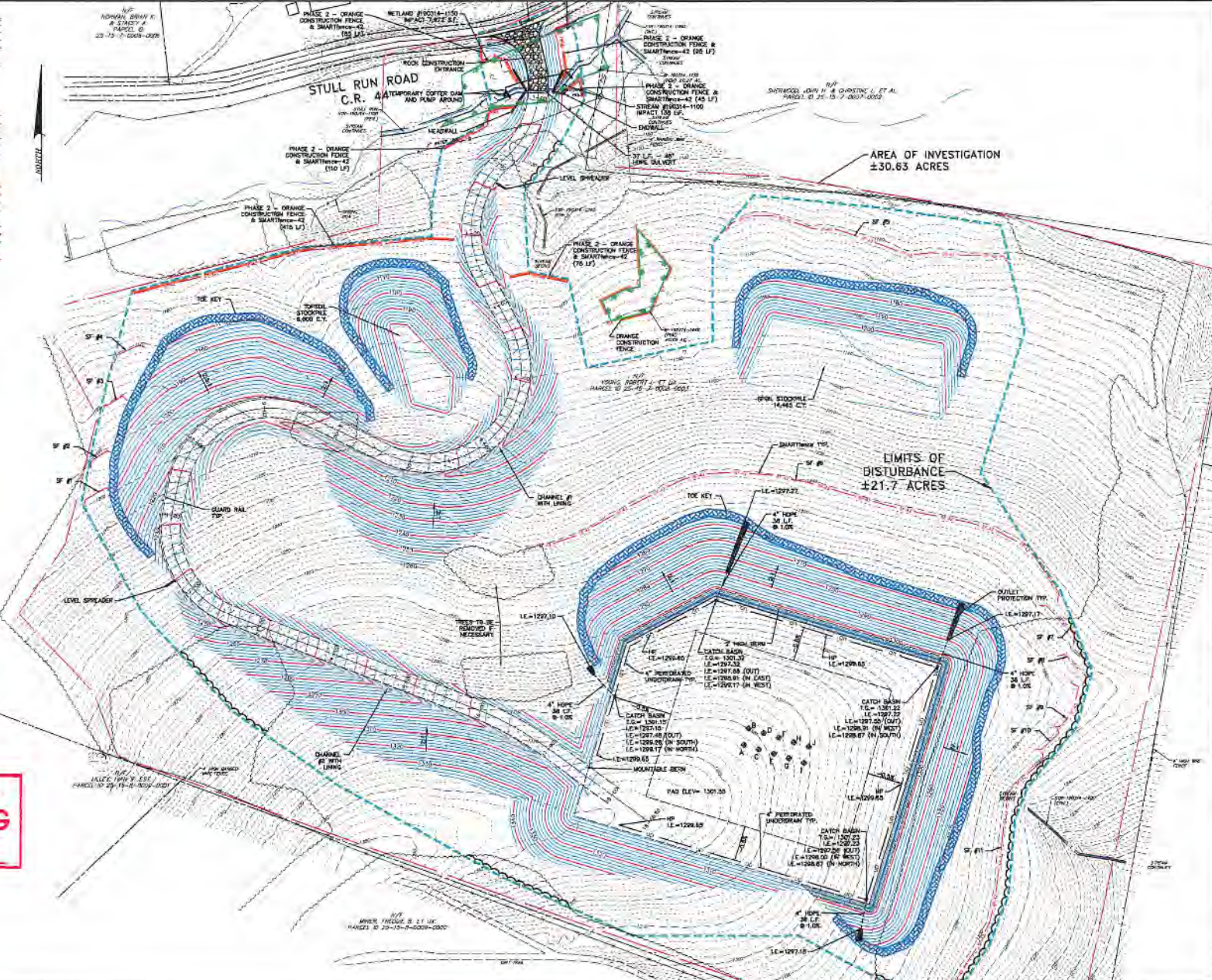
SHEET NO. 1 OF 19

DWG. NO. 109562007

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

LEGEND

EXISTING PROPERTY LINE	---
EXISTING EASEMENT	---
EXISTING ROAD CENTER LINE	---
EXISTING SIDE BOUNDARY FOR THE SUBDIVISION	---
EXISTING METERS	---
EXISTING TIE	---
EXISTING ROAD CENTER LINE	---
EXISTING ROAD CENTER LINE	---
EXISTING PROPERTY LINE	---
EXISTING DRAINAGE ELEVATION LINE	---
EXISTING SIX LINE	---
EXISTING SEVEN LINE	---
EXISTING FENCE LINE	---
EXISTING STREAM	---
EXISTING RESERVATION	---
CONTRACT LINE	---
PROPOSED ROAD CENTER LINE	---
PROPOSED ROAD CENTER LINE	---
PROPOSED TIE LINE	---
PROPOSED DRIVE	---
PROPOSED STONE PIPE	---
LIMITS OF DISTURBANCE	---
PROPOSED ROAD CENTER LINE	---
PROPOSED CONSTRUCTION FENCE	---



APPROVED
WVDEP OOG
11/15/2019

SCALE

1" = 40'

0 20 40 60 80 100'

1	10/17/19 REVISION
2	10/17/19 REVISION
3	11/15/19 REVISION

FOR REVIEW ASSOCIATES BY:

BU BATTERSON, PE	DATE: 10/17/19
ROBIN BY, PE	DATE: 10/17/19
JUN, PE	DATE: 10/17/19
DAWNA TY, PE	DATE: 10/17/19
DAVE, PE	DATE: 10/17/19

CLIENT

AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 SULLY ROAD COURT
UNIONSBURG, PA 15317

RETIEW

1000 W. Main Street, Suite 100, Uniontown, PA 15780
On-Street: 724.836.8888, Fax: 724.836.8889
Email: info@retiew.com
Website: www.retiew.com

GRADING & EROSION CONTROL PLAN
FINAL PLANS
FOR
KINGS LANDING WELL PAD
MARSHALL COUNTY, WEST VIRGINIA
WEBSTER TAX DISTRICT

DATE:	03/20/19
SHEET NO.:	4 OF 12
DWG. NO.:	109562007

NOT FOR CONSTRUCTION/NOT FOR BIDDING