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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://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 - 5UH  
47-051-02221-00-00

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 positioned to the right of his name and title.

Operator's Well Number: KINGS LANDING - 5UH  
Farm Name: YOUNG, ROBERT L. ET. UX  
U.S. WELL NUMBER: 47-051-02221-00-00  
Horizontal 6A New Drill  
Date Issued: 1/29/2020

Promoting a healthy environment.

# PERMIT CONDITIONS

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

## CONDITIONS

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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](mailto:DEPOOGNotify@wv.gov).



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west virginia department of environmental protection

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

Barry K. Lay, Chairman  
dep.wv.gov

August 22, 2019

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

RE: Application for Deep Well Permit – API #47-051-02221

COMPANY: American Petroleum Partners Operating, LLC

FARM: Robert L. Young et ux Kings Landing-5UH

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, 47-051-02223, 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,

Susan Rose  
Administrator

WW-6B  
(04/15)

API NO. 47-051  
OPERATOR WELL NO. Kings Landing-5UH  
Well Pad Name: Kings Landing

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

- 1) Well Operator: American Petroleum Partners 494521257 Marshall Webster Moundsville  
Operator ID County District Quadrangle
- 2) Operator's Well Number: Kings Landing-5UH Well Pad Name: Kings Landing
- 3) Farm Name/Surface Owner: Robert L. Young Public Road Access: Stull Run Road C.R. 44
- 4) Elevation, current ground: 1,318.53' Elevation, proposed post-construction: 1,301.55'
- 5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow \_\_\_\_\_ Deep   
Horizontal
- 6) Existing Pad: Yes or No No *4/10/19*
- 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: 20,621'
- 11) Proposed Horizontal Leg Length: 8,225'
- 12) Approximate Fresh Water Strata Depths: 162', 1155'
- 13) Method to Determine Fresh Water Depths: Nearest offset well
- 14) Approximate Saltwater Depths: Na
- 15) Approximate Coal Seam Depths: 722', 808'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated. drilling in pillar - Mine maps attached.
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No \_\_\_\_\_
- (a) If Yes, provide Mine Info: Name: The Ohio County Mine-Murray American Energy and Consolidation Coal Company  
Depth: 722', 808'  
Seam: Pittsburgh #8  
Owner: Murray American Energy & Consolidation Coal Company

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WW-6B  
(04/15)

4705102221  
API NO. 47-051 -  
OPERATOR WELL NO. Kings Landing-5UH  
Well Pad Name: Kings Landing

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft./CTS)
Conductor	30"	New	LS	81.3#	60'	60'	CTS
Fresh Water	20"	New	J-55	94#	1,216'	1,216'	CTS 15.6ppg to surf 521 sx w/30% OH ex.
Coal	13 3/8"	New	J-55	54.5#	2,512'	2,512'	CTS 15.2ppg to surf 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#	20,621'	20,621'	14.8ppg TOC >=200' above 9.625 shoe.
Tubing	2 7/8"	New	J-55	6.5#	11,698'	11,698'	CTS
Liners							

*M*  
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" <sub>+</sub>	.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 4714 sx Yield 1.27
Tubing	2 7/8"	5.14"	.217	10,570	8,000		
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B  
(10/14)

API NO. 47- 051 - \_\_\_\_\_  
OPERATOR WELL NO. Kings Landing-5UH  
Well Pad Name: Kings Landing

*John*  
*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.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 21.70

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

23) Describe centralizer placement for each casing string:

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

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

Type 1 to Surface. Surface/Freshwater - 15.6 Class A +2% CaCl, 30% OH Excess Yield =1.18. 1st Intermediate - 15.6 ppg Class A +2% CaCl, 0.25 Lost Circ. 30% Yield =1.27. 2nd Intermediate- 2 Stage cement job with 15.4 ppg Class A lead + additives (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 SOBM. Once at TD, circulate at max allowable pump rate for at least 6x bottoms up. Once on bottom with casing, circulate minimum of one hole volume prior to pumping cement.

\*Note: Attach additional sheets as needed.

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

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**DRILLING WELL PLAN**  
 Kings Landing-5UH  
 Utica Horizontal  
 Marshall Co, WV

4705102221

**Horizontal Well Plan with Cemented Long String Completion**

HOLE	RIG	CASING	GEOLOGY	Top TVD	BTM TVD	MUD	CEMENT	DIRECTIONAL	LOGS	BITS	COMMENTS
36"	Conductor Rig	30" 81.3# LS	Elevation	1314		AIR	To Surface	N/A	N/A		Stabilize surface fill/soil
			KB Elevation	1336							
24"	Top-Hole	20" 94#-J-55 BTC	Conductor	60	60	AIR	15.6ppg to surface 521sx w/ 30% OH excess	20" Air Hammer Totco at TD	N/A	Carbide hammer bit	Protect fresh groundwater
			Sewickley Coal	722	730						
			Pittsburgh Coal	808	816						
17.5"	Top-Hole	13-3/8" 54.5#-J-55 BTC	Surf. Casing	1216	1216	AIR	15.2ppg to surface 556sx w/ 30% OH excess	Center Rock 15" Air Hammer Gyro above Coal. (Mine Approval) Totco at TD	N/A	Hammer bit w/ diamond gage Test casing to 800psi	PU cleanout assembly/dress plug, displace to 13.5ppg SOB, PU Curve BHA, time drill / KO cement plug, Expect Seepage in curve
			Big Lime	1914	2022						
			Big Injun	2022	2212						
			Price	2212	2475						
			Intl. Casing	2512	2512						
12.375"-12.25"	Horizontal Rig	9-5/8" 43.5# P-110IC BTC	Tully LS	6712	6750	AIR	15.4ppg to surface 936sx w/ 30% OH excess	12.25" Tricone 6.75" PDM MWD 2.12" ADJ Bend	MWD surveys Mud Logger - 90 ft samples	Tricone Bit Test casing to 1100psi	
			Hamilton	6750	6828						
			Marcellus Shale	6828	6889						
			Onondaga Ls	6889	6895						
			Oriskany Sandstone	7118	7227						
			Salina Group	7578	8651						
			Lockport Dolomite	8651	9028						
			Rochester Shale	9028	9306						
			Packer Shell	9306	9389						
			Clinton Group	9389	9485						
Medina Group	9485	9589									
Queenston Shale	9589	10390									
Intl. Casing	10189	10189									
8.5" Curved/Lateral	Horizontal Rig	5-1/2" 23# P110ICV TSH Wedge 563	Utica Shale	11480	11617	+/- 14.5 PPG SOB	14.8ppg TOC >= 200' Above 9.625' shoe 3913sx w/ 15% OH excess	RSS 6.75" PDM & MWD (10" Build DLS)	MWD Surveys Mud Logger - 30 ft samples (Curve) 90 ft samples (Lateral)	PDC 5 - .25 WOB 100 - 120 RPM 450 - 500 GPM	Geosteering
			Point Pleasant Formation	11617	11698						
			Curve LP	11617	11698						
			TARGET	11683	11693						
Production Casing											

8.5 Hole - Cemented Long String 5-1/2" 23# P110ICV TSH Wedge 563

Landing Point  
11698 TVD  
12396 MD

91.5 Inc 325 Az

8225 ft Lateral Length

91.5 Inc 325 Az

Total Depth 11698 TVD 20621 TD

*Handwritten signature*

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

4705102221

WW-9  
(4/16)

API Number 47 - 051 -  
Operator's Well No. Kings Landing-5UH

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

Will closed loop system be used? If so, describe: Yes, 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/M

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

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

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

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

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

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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

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

Company Official Signature *Braulio Silva*

Company Official (Typed Name) Braulio Silva

Company Official Title Vice President - Drilling

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

*Earline Bugay* Notary Public

My commission expires 1/23/2020

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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

4705102221

Form WW-9

Operator's Well No. Kings Landing -3UH

American Petroleum Partners Operating, LLC

Proposed Revegetation Treatment: Acres Disturbed 21.70 Prevegetation pH 6.0

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

Fertilizer type 10-20-20 or Equal

Fertilizer amount 500 lbs/acre

Mulch Hay or Straw at 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
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: [Signature]

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: WW DEP Oil and Gas Inspector

Date: 4/10/19

Field Reviewed?  Yes  No

Office of  
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Environmental Protection

## Additives for Drilling Medium

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

## Closed Loop:

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

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## Cuttings Disposal/Site Water

### Cuttings –Haul off Company:

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

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

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

### Disposal Locations:

Apex 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

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

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

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

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

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

Nuverra Environmental Solutions  
 11942 Veterans Memorial Highway  
 Masontown, WV 26542

Equipment Transport  
 1 Tyler Court  
 Carlisle, PA 17015

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

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

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

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

**Disposal Locations:**

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

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

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

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

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

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

4705102221

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

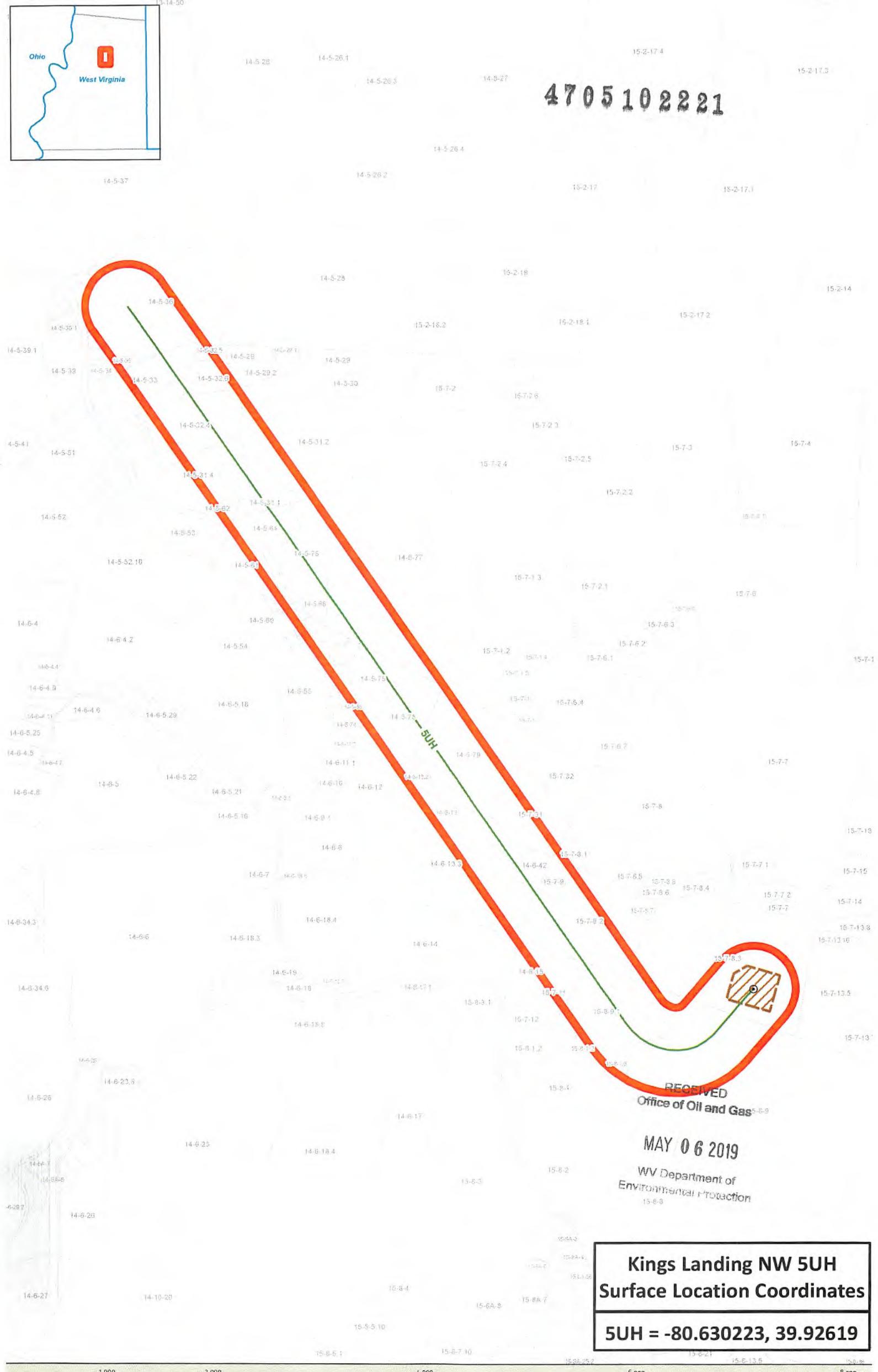
OH UIC #1 Buckeye UIC Barnesville 1 & 2  
CNX Gas Company, LLC  
1000 Consol Energy Drive  
Permit # 34-013-2-0609-00-00  
Permit # 34-013-2-0614-00-00  
304-323-6568

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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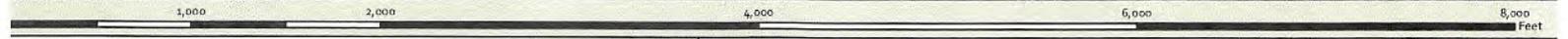


RECEIVED  
Office of Oil and Gas

MAY 06 2019

WV Department of  
Environmental Protection

**Kings Landing NW 5UH  
Surface Location Coordinates**  
**5UH = -80.630223, 39.92619**



**Kings Landing NW 5UH - 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: 4/4/2019

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

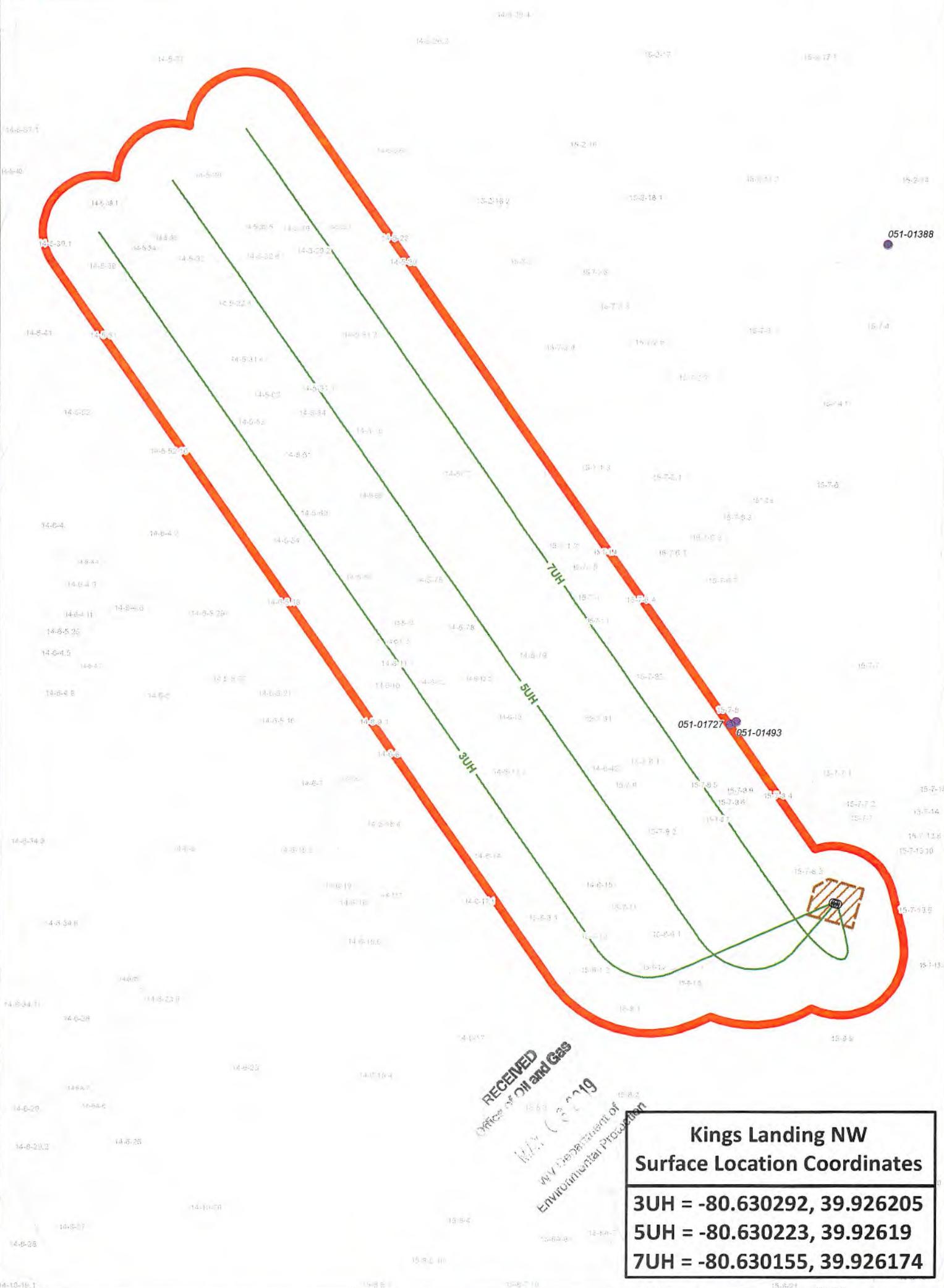




# o AREA WELLS WITHIN 500'

051-02090  
051-02136 051-02091  
051-02137

4705102221



RECEIVED  
Office of Oil and Gas  
MAY 03 2019  
WV DEPARTMENT OF  
Environmental Protection

**Kings Landing NW  
Surface Location Coordinates**

**3UH = -80.630292, 39.926205**  
**5UH = -80.630223, 39.92619**  
**7UH = -80.630155, 39.926174**

## Kings Landing NW - All Area Wells

Marshall County  
West Virginia

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

Map Scale Units: 1:12,225  
1 inch = 1,019 feet

Map Author: DJA  
Map Date: 4/4/2019

- Well SHL
- Laterals
- 500' buffer
- Well Pad
- Parcels
- Other
- Abandoned Well
- Active Well
- Marcellus Permit
- Marcellus Well
- Permit / Future Use
- Plugged
- Shutin
- Utica Permit
- Utica Well





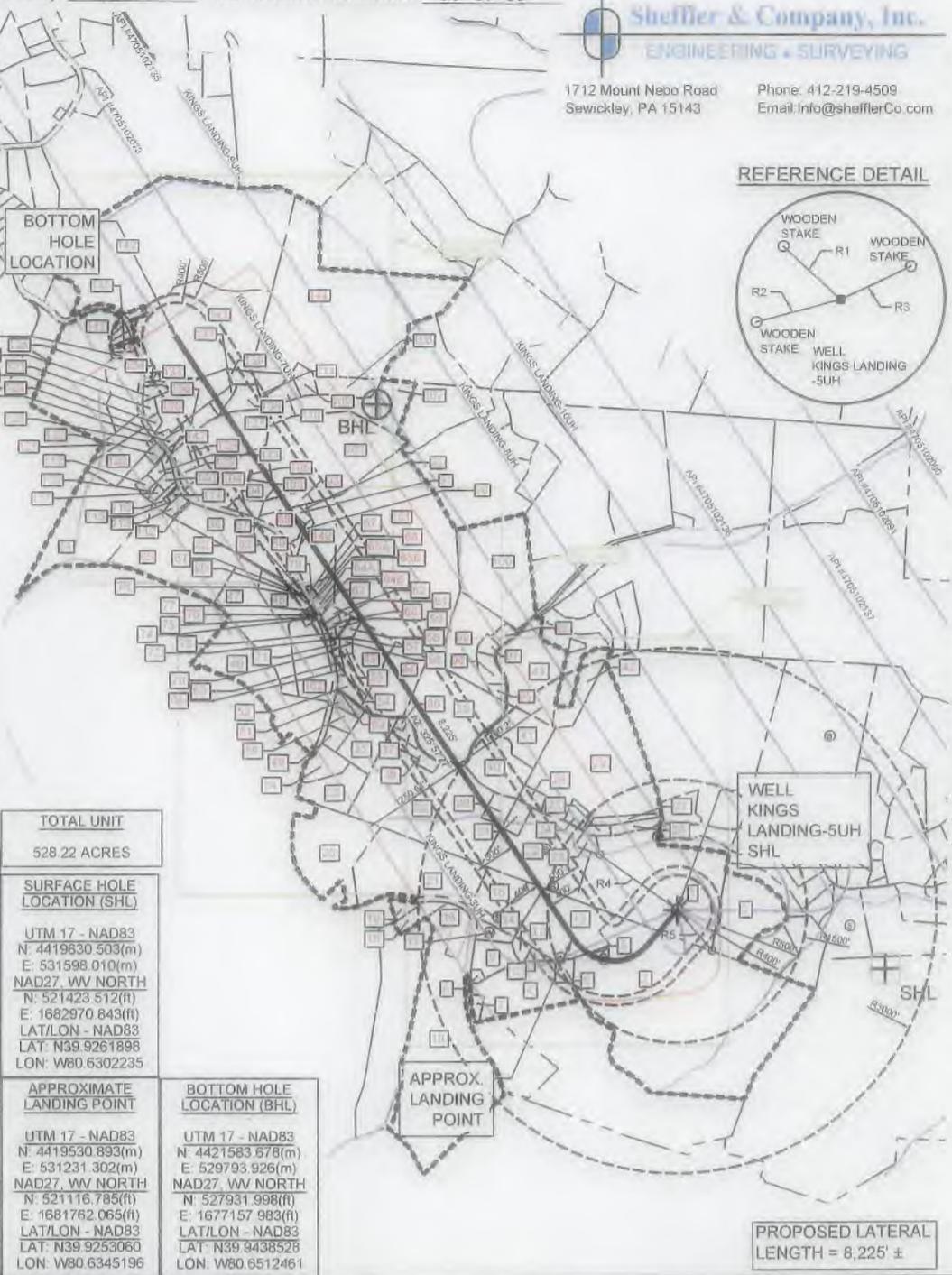
Well is located on topo map 11,710 feet south of Latitude: 39° 57' 30"  
 BHL is located on topo map 5,275 feet south of Latitude: 39° 57' 30"

**Sheffler & Company, Inc.**  
 ENGINEERING & SURVEYING  
 1712 Mount Nebo Road  
 Sewickley, PA 15143  
 Phone: 412-219-4509  
 Email: Info@shefflerCo.com

Well is located on topo map 1,465 feet west of Longitude: 80° 37' 30"  
 BHL is located on topo map 7,359 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 plan to represent surveyed locations of the surface or mineral parcels depicted herein. 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 #64A, #64B, #65A, & #65B.

**REFERENCE DETAIL**



**MONUMENT REFERENCE TABLE**

LINE NO.	BEARING	DISTANCE
R1	S47°40'13"E	449.95'
R2	N74°58'30"E	505.64'
R3	S65°02'10"W	448.01'
R4	S54°41'12"E	1100.88'
R5	N41°01'52"W	607.93'

**TOTAL UNIT**  
528.22 ACRES

- LEGEND**
- TOPO MAP POINT
  - PROPOSED WELL
  - PRIVATE WATER WELL SPRING LOCATION
  - LEASED NUMBER BASED ON ATTACHED WM6A1
  - 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: 4419630.503(m)  
 E: 531598.010(m)  
 NAD27, WV NORTH  
 N: 521423.512(ft)  
 E: 1682970.843(ft)  
 LAT/LON - NAD83  
 LAT: N39.9261898  
 LON: W80.6302235

**APPROXIMATE LANDING POINT**  
 UTM 17 - NAD83  
 N: 4419530.893(m)  
 E: 531231.302(m)  
 NAD27, WV NORTH  
 N: 521116.785(ft)  
 E: 1681762.065(ft)  
 LAT/LON - NAD83  
 LAT: N39.9253060  
 LON: W80.6345196

**BOTTOM HOLE LOCATION (BHL)**  
 UTM 17 - NAD83  
 N: 4421583.678(m)  
 E: 529793.926(m)  
 NAD27, WV NORTH  
 N: 527931.998(ft)  
 E: 1677157.983(ft)  
 LAT/LON - NAD83  
 LAT: N39.9438528  
 LON: W80.6512461

**PROPOSED LATERAL LENGTH = 8,225' ±**

FILE #: KINGS LANDING - 5UH  
 DRAWING #: KINGS LANDING - 5UH - R4.DWG  
 SCALE: 1"=2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX044: 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: 1,318.53'  
 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): \_\_\_\_\_

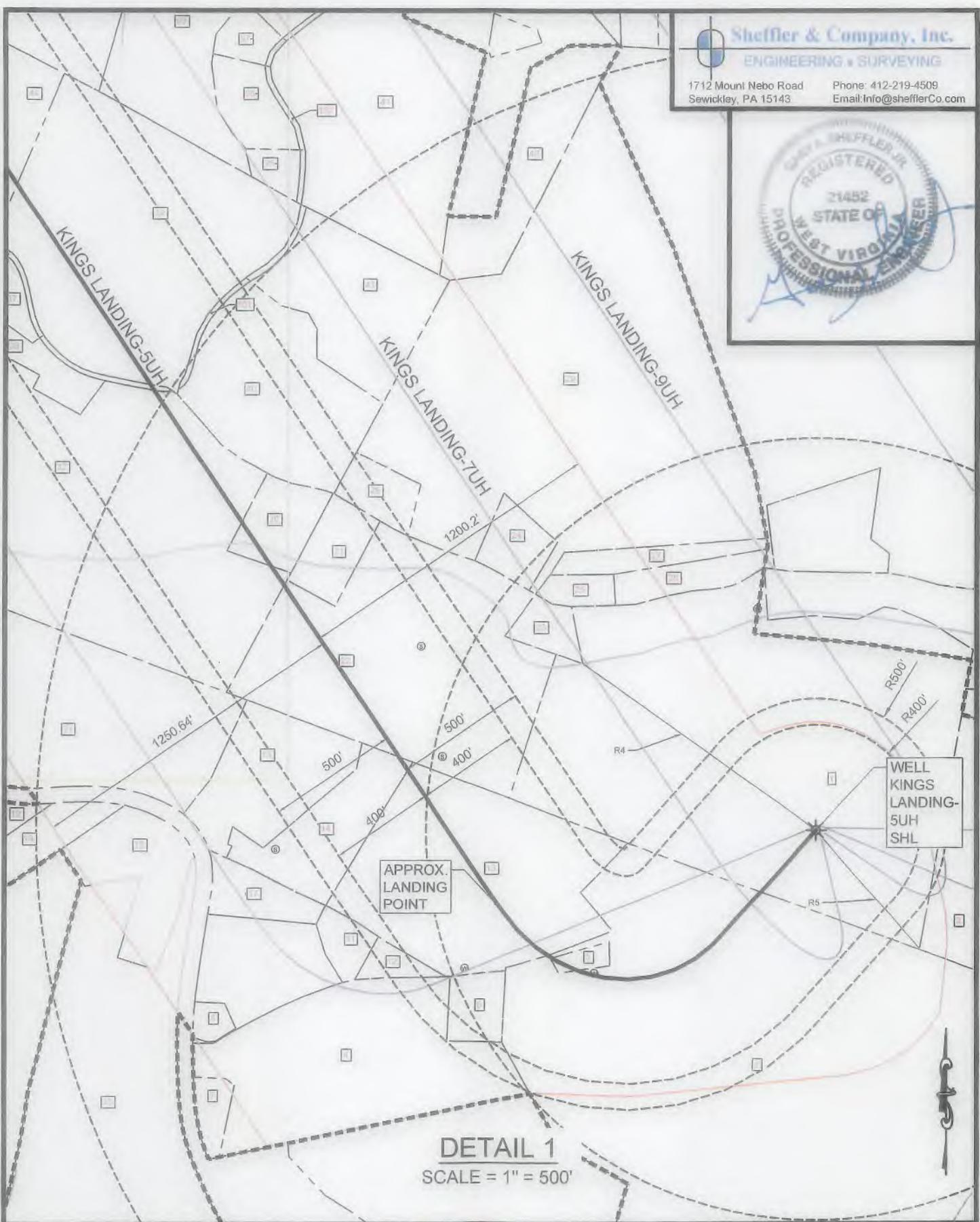
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON  
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: POINT PLEASANT  
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC  
 Address: 4600 J. BARRY COURT, SUITE 310  
 City CANONSBURG State PA Zip Code 15317

DATE: April 8, 2019 - Rev April 8, 2019  
 OPERATOR'S WELL #: KINGS LANDING - 5UH  
 API WELL # 47 051 02221  
 STATE COUNTY PERMIT H6A

ESTIMATED DEPTH TVD: 11,698' ± TMD: 20,621' ±  
 DESIGNATED AGENT: STEVEN GREEN  
 Address: 300 SUMMERS ST, SUITE 1000  
 City CHARLESTON State WV Zip Code 25301





**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



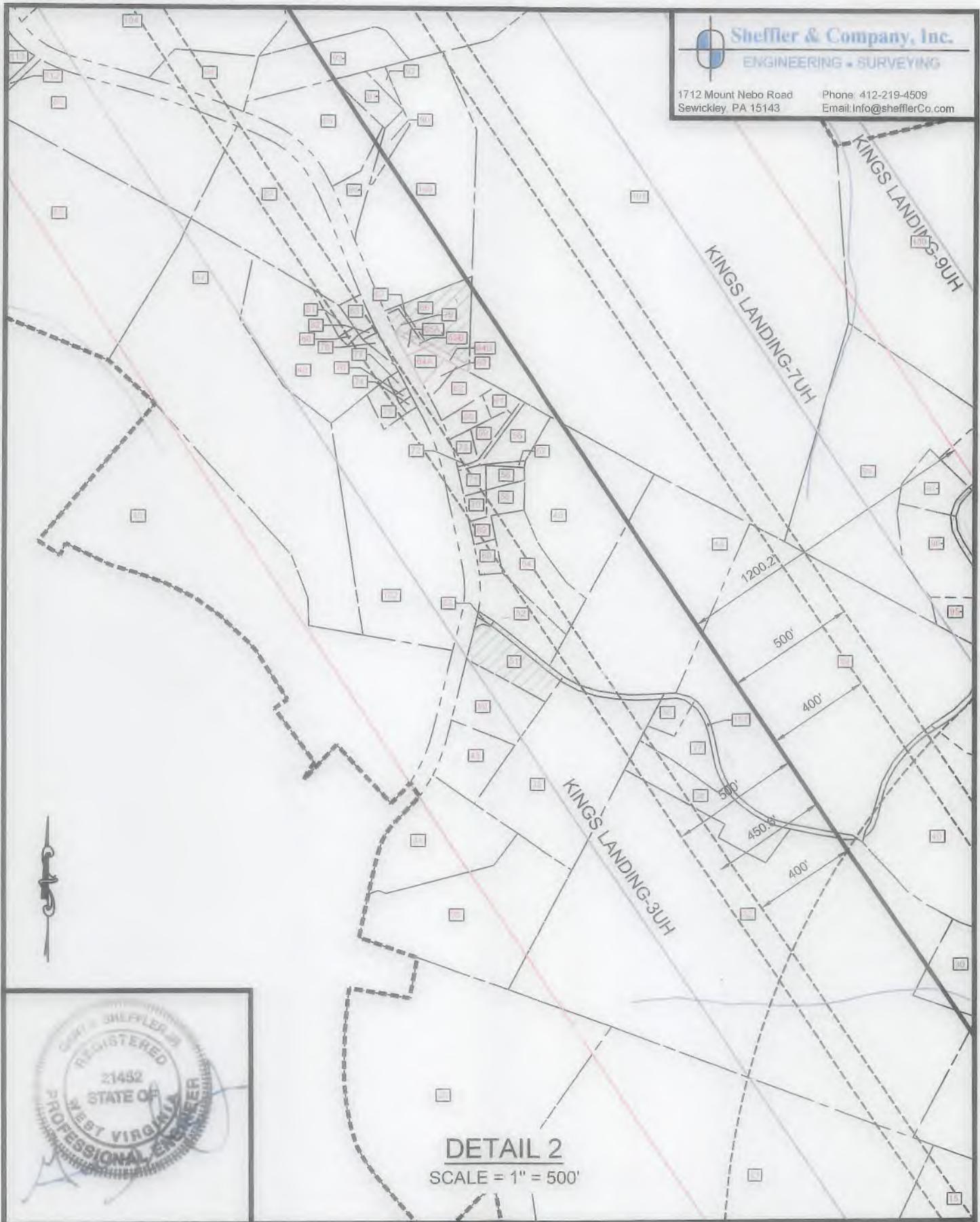
DATE: April 8, 2019 - Rev April 8, 2019  
 OPERATOR'S WELL #: KINGS LANDING - 5UH  
 API WELL # 47 051 **02221**  
 STATE COUNTY PERMIT **H6A**

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,318.53'  
 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: 20,621' ±  
 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



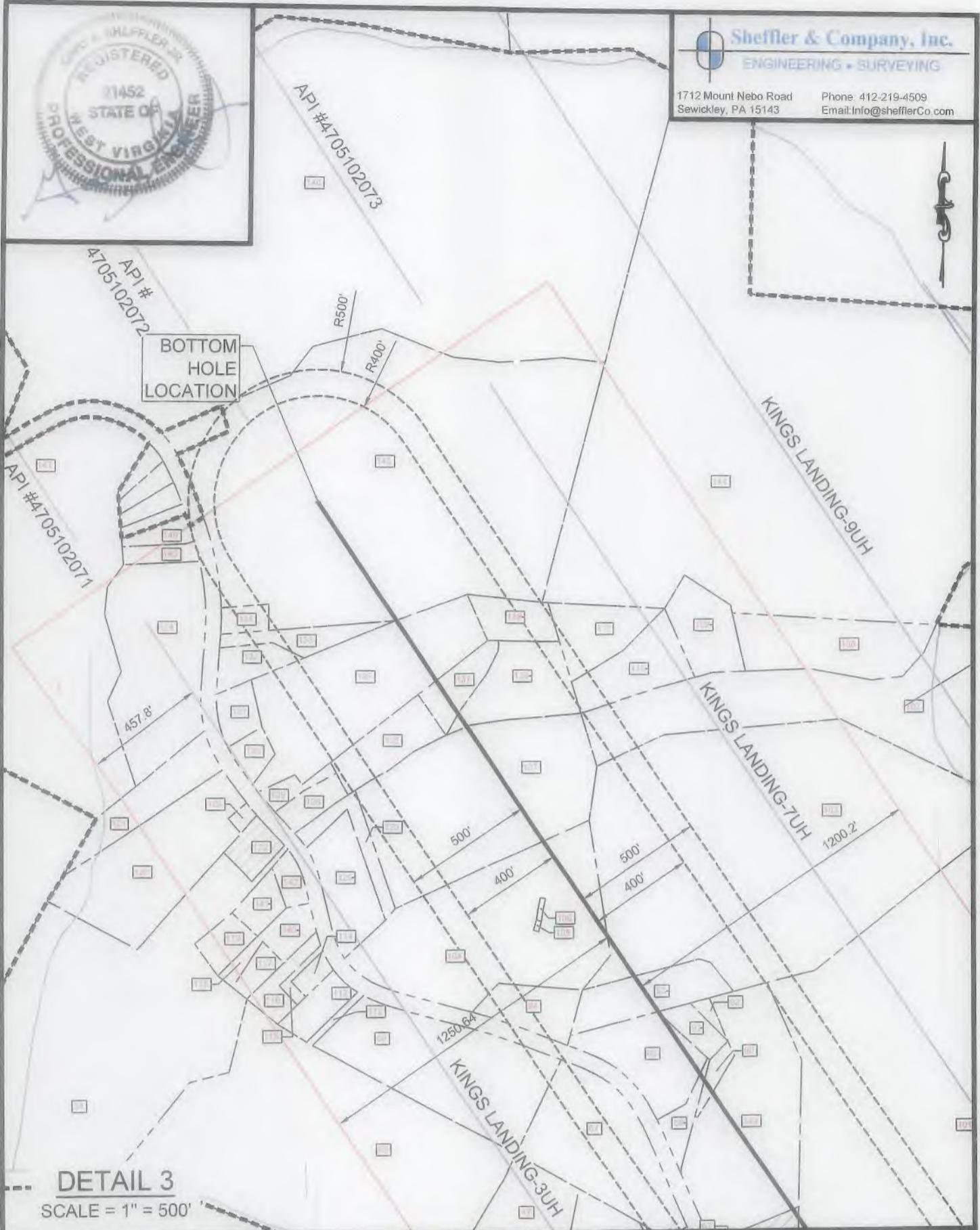
DATE: April 8, 2019 - Rev April 8, 2019  
 OPERATOR'S WELL #: KINGS LANDING - 5UH  
 API WELL # 47 051 02221  
 STATE COUNTY PERMIT  
 H6A

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,318.53'  
 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: 20,621' ±  
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN  
 Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000  
 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



**DETAIL 3**

SCALE = 1" = 500'

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



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

OPERATOR'S WELL #: KINGS LANDING - 5UH

API WELL # 47 051 02221  
STATE COUNTY PERMIT  
H6A

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,318.53'

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: 20,621' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC

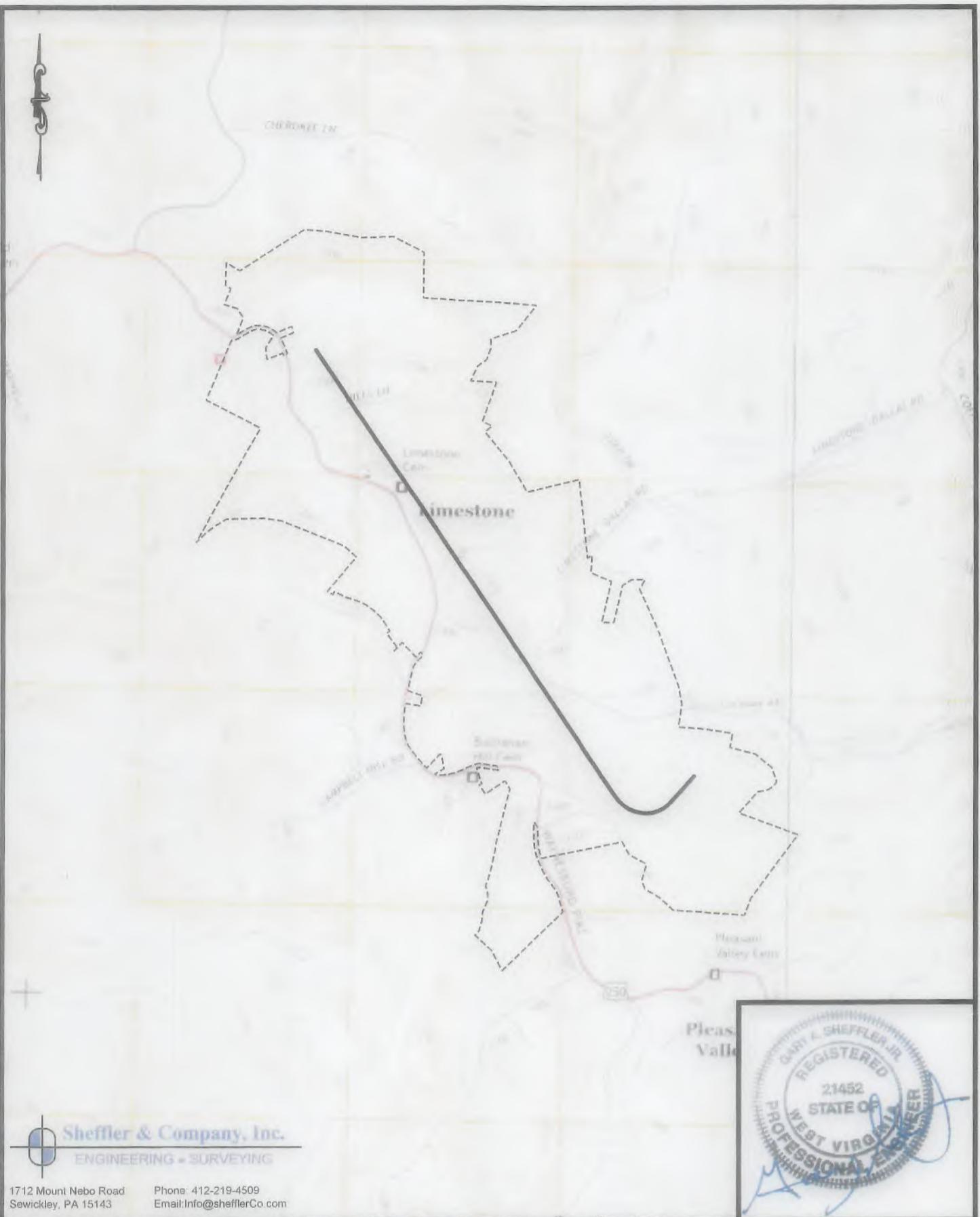
DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT, SUITE 310

Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317

City CHARLESTON State WV Zip Code 25301



**Sheffler & Company, Inc.**  
ENGINEERING • SURVEYING

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

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



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

OPERATOR'S WELL #: KINGS LANDING - 5UH

API WELL # 47 051 02221  
STATE COUNTY PERMIT  
**H6A**

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,318.53'

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: 20,621' ±

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. 14-0005-0097-0000-0000 ASSESSED ACREAGE: 0.211 ACRES  
SURFACE OWNERS: KNIGHT, ELEANOR L.  
MINERAL OWNERS: BONNIE WOOD, JOYCE ROBINSON, BARBARA SAMPSON, BRENDA ESTEL

TAX MAP NO. 14-0005-0088-0000-0000 ASSESSED ACREAGE: 0.153 ACRES  
SURFACE OWNERS: KNIGHT, ELEANOR L.  
MINERAL OWNERS: JOYCE ROBINSON, BARBARA SAMPSON, BRENDA ESTEL, BONNIE WOOD

P/O TAX MAP NO. 14-0005-0075-0000-0000 ASSESSED ACREAGE: 6.350 ACRES  
SURFACE OWNERS: RICHMOND, SALLY ANN, ET VIR  
MINERAL OWNERS: SALLY ANN & CHARLES R. RICHMOND

TAX MAP NO. 14-0005-0083-0000-0000 ASSESSED ACREAGE: 0.238 ACRES  
SURFACE OWNERS: GRAY, SHARON L.  
MINERAL OWNERS: SHARON L. GRAY

TAX MAP NO. 14-0005-0055-0001-0000 ASSESSED ACREAGE: 0.046 ACRES  
SURFACE OWNERS: PERSINGER, TAMMIE D.  
MINERAL OWNERS: THOMAS GEHO

TAX MAP NO. 14-0005-0055-0002-0000 ASSESSED ACREAGE: 0.750 ACRES  
SURFACE OWNERS: SCHER-CASH INC.  
MINERAL OWNERS: BARBARA SAMPSON, JOYCE ROBINSON, BRENDA ESTEL, BONNIE WOOD

TAX MAP NO. 14-0005-0056-0000-0000 ASSESSED ACREAGE: 0.062 ACRES  
SURFACE OWNERS: SCHER-CASH INC.  
MINERAL OWNERS: SCHER-CASH INC.

TAX MAP NO. 14-0005-0057-0000-0000 ASSESSED ACREAGE: 0.128 ACRES  
SURFACE OWNERS: SCHER-CASH INC.  
MINERAL OWNERS: DELORES JEAN SHELTON

TAX MAP NO. 14-0005-0058-0000-0000 ASSESSED ACREAGE: 0.088 ACRES  
SURFACE OWNERS: MARSHAL COUNTY PUBLIC SERVICE DISTRICT NO. 3  
MINERAL OWNERS: MARSHALL COUNTY PUBLIC SERVICE DISTRICT NO. 3

TAX MAP NO. 14-0005-0066-0000-0000 ASSESSED ACREAGE: 0.150 ACRES  
SURFACE OWNERS: FERRELL, CHARLES DAVID, ET UX  
MINERAL OWNERS: CHARLES D. & FRITHA J. FERRELL

TAX MAP NO. 14-0005-0060-0002-0000 ASSESSED ACREAGE: 0.375 ACRES  
SURFACE OWNERS: BURKLE, GERALD E., ET AL.  
MINERAL OWNERS: MARGARET A. & LLOYD E. WALKER

TAX MAP NO. 14-0005-0060-0001-0000 ASSESSED ACREAGE: 0.375 ACRES  
SURFACE OWNERS: BURKLE, GERALD E., ET AL.  
MINERAL OWNERS: MARGARET A. & LLOYD E. WALKER

TAX MAP NO. 14-0005-0059-0000-0000 ASSESSED ACREAGE: 0.152 ACRES  
SURFACE OWNERS: MARSHAL COUNTY PUBLIC SERVICE DISTRICT NO. 3  
MINERAL OWNERS: MARSHALL COUNTY PUBLIC SERVICE DISTRICT NO. 3

TAX MAP NO. 14-0005-0061-0001-0000 ASSESSED ACREAGE: 0.293 ACRES  
SURFACE OWNERS: BURKLE, GERALD E., ET AL.  
MINERAL OWNERS: MARGARET A. & LLOYD E. JR. WALKER

TAX MAP NO. 14-0005-0052-0000-0000 ASSESSED ACREAGE: 22.890 ACRES  
SURFACE OWNERS: HUDKINS, BASIL J., ET UX.  
MINERAL OWNERS: BASIL J. & PATRICIA L. HUDKINS

TAX MAP NO. 14-0005-00052-0010-0000 ASSESSED ACREAGE: 19.417 ACRES  
SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX  
MINERAL OWNERS: WILLIAM E. & BRENDA K. COFFIELD

TAX MAP NO. 14-0005-0053-0000-0000 ASSESSED ACREAGE: 6.570 ACRES  
SURFACE OWNERS: SINON, MARIE N.  
MINERAL OWNERS: DONALD E., II & MARIE N., TRUSTEES OF THE MARIE SINON FAMILY TRUST DATED DECEMBER 21, 2015 SINON

TAX MAP NO. 14-0005-0061-0000-0000 ASSESSED ACREAGE: 5.707 ACRES  
SURFACE OWNERS: WILSON, DONALD M., ET UX  
MINERAL OWNERS: DONALD M. & DANIEL WILSON

TAX MAP NO. 14-0005-0064-0000-0000 ASSESSED ACREAGE: 3.110 ACRES  
SURFACE OWNERS: LIMESTONE PRESBYTERIAN CHURCH  
MINERAL OWNERS: THE LIMESTONE PRESBYTERIAN CHURCH

TAX MAP NO. 14-0005-0063-0000-0000 ASSESSED ACREAGE: 0.478 ACRES  
SURFACE OWNERS: LIMESTONE PRESBYTERIAN CHURCH  
MINERAL OWNERS: THE LIMESTONE PRESBYTERIAN CHURCH

TAX MAP NO. 14-0005-0065-0001-0000 ASSESSED ACREAGE: 0.340 ACRES  
SURFACE OWNERS: LIMESTONE PRESBYTERIAN CHURCH  
MINERAL OWNERS: THE LIMESTONE PRESBYTERIAN CHURCH

TAX MAP NO. 14-0005-0065-0000-0000 ASSESSED ACREAGE: 0.550 ACRES  
SURFACE OWNERS: LIMESTONE PRESBYTERIAN CHURCH  
MINERAL OWNERS: THE LIMESTONE PRESBYTERIAN CHURCH

TAX MAP NO. 14-0005-0065-0002-0000 ASSESSED ACREAGE: 0.146 ACRES  
SURFACE OWNERS: LIMESTONE PRESBYTERIAN CHURCH  
MINERAL OWNERS: THE LIMESTONE PRESBYTERIAN CHURCH

TAX MAP NO. 14-0005-0031-0001-0000 ASSESSED ACREAGE: 2.110 ACRES  
SURFACE OWNERS: LIMESTONE PRESBYTERIAN CHURCH  
MINERAL OWNERS: THE LIMESTONE PRESBYTERIAN CHURCH

TAX MAP NO. 14-0005-0062-0000-0000 ASSESSED ACREAGE: 1.600 ACRES  
SURFACE OWNERS: HILL, SETH  
MINERAL OWNERS: THE BOARD OF EDUCATION OF THE COUNTY OF MARSHALL, STATE OF WEST VIRGINIA

TAX MAP NO. 15-0007-0001-0001-0000 ASSESSED ACREAGE: 0.587 ACRES  
SURFACE OWNERS: SOFSKY, EMIL P., JR., ET AL.  
MINERAL OWNERS: EMIL P., JR. & MARY A. SOFSKY, CAMPBELL

TAX MAP NO. 15-0007-0001-0000-0000 ASSESSED ACREAGE: 1.407 ACRES  
SURFACE OWNERS: CAPPELLITTI, JOANNE K.  
MINERAL OWNERS: JOANNE K. CAPPELLITTI

TAX MAP NO. 15-0007-0001-0005-0000 ASSESSED ACREAGE: 0.943 ACRES  
SURFACE OWNERS: RICCARDI, ANTHONY, ET UX.  
MINERAL OWNERS: ANTHONY & KELLEY RICCARDI

TAX MAP NO. 15-0007-0001-0004-0000 ASSESSED ACREAGE: 1.040 ACRES  
SURFACE OWNERS: BHAT, SRILATA  
MINERAL OWNERS: ISKCON NEW VRINDABAN, INC

TAX MAP NO. 15-0007-0001-0002-0000 ASSESSED ACREAGE: 11.552 ACRES  
SURFACE OWNERS: ISKCON - NEW MATHURA VRINDABAN INC.  
MINERAL OWNERS: ISKCON NEW VRINDABAN, INC

TAX MAP NO. 15-0007-0001-0003-0000 ASSESSED ACREAGE: 19.550 ACRES  
SURFACE OWNERS: WIESNER, GEORGE L., ET UX.  
MINERAL OWNERS: BOUNTY MINERALS LLC, NOBLE MARCELLUS, LP, GEORGE L. & LYNN K. WIESNER

TAX MAP NO. 14-0005-0077-0000-0000 ASSESSED ACREAGE: 57.721 ACRES  
SURFACE OWNERS: WALTON, SHIRLEY JEAN  
MINERAL OWNERS: SHIRLEY JEAN MOORE, NOBLE MARCELLUS LP, BOUNTY MINERALS III LLC

TAX MAP NO. 14-0005-0055-0000-0000 ASSESSED ACREAGE: 7.300 ACRES  
SURFACE OWNERS: SAMPSON, BARBARA, ET AL.  
MINERAL OWNERS: BARBARA SAMPSON, JOYCE ROBINSON, BRENDA ESTEL, BONNIE WOOD

TAX MAP NO. 14-0005-00031-0002-0000 ASSESSED ACREAGE: 26.926 ACRES  
SURFACE OWNERS: DIANA LYNN PETTIT  
MINERAL OWNERS: DIANA LYNN KING

TAX MAP NO. 14-0005-0031-0004-0000 ASSESSED ACREAGE: 9.870 ACRES  
SURFACE OWNERS: HUDKINS, BASIL J., ET UX.  
MINERAL OWNERS: APPALACHIAN BASIN MINERALS, LP, PENNMARC RESOURCES II, LP, WILDES MINERAL INTERESTS, LLC, MCCROW ENERGY PARTNERS II, LLC

TAX MAP NO. 14-0005-0031-0005-0000 ASSESSED ACREAGE: 0.018 ACRES  
SURFACE OWNERS: HILL, SETH  
MINERAL OWNERS: WILDES MINERAL INTERESTS, LLC, APPALACHIAN BASIN MINERALS, LP, MCCROW ENERGY PARTNERS II, LLC, PENNMARC RESOURCES II, LP

TAX MAP NO. 14-0005-0031-0006-0000 ASSESSED ACREAGE: 0.040 ACRES  
SURFACE OWNERS: HILL, SETH  
MINERAL OWNERS: APPALACHIAN BASIN MINERALS, LP, PENNMARC RESOURCES II, LP, WILDES MINERAL INTERESTS, LLC, MCCROW ENERGY PARTNERS II, LLC

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

(+) 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 April 8, 2019

OPERATOR'S WELL #: KINGS LANDING - 5UH

API WELL # 47 051 02221  
STATE COUNTY PERMIT  
H6A

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,318.53'

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: 20,621' ±

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><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0003-0000 ASSESSED ACREAGE: 39.17 ACRES</p> <p>SURFACE OWNERS: YOUNG, ROBERT L., ET UX</p> <p>MINERAL OWNERS: ROBERT L. &amp; KATHY J. YOUNG</p>	<p><input type="checkbox"/> P/O TAX MAP NO. 15-0008-0001-0002-0000 ASSESSED ACREAGE: 4.378 ACRES</p> <p>SURFACE OWNERS: FRANCIS, BEVERLY JEAN</p> <p>MINERAL OWNERS: BEVERLY JEAN FRANCIS</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0017-0001-0000 ASSESSED ACREAGE: 0.977 ACRES</p> <p>SURFACE OWNERS: YOHIO, PAUL D., ET UX</p> <p>MINERAL OWNERS: PAUL &amp; TINA YOHIO</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0006-0000 ASSESSED ACREAGE: 0.896 ACRES</p> <p>SURFACE OWNERS: NORMAN, BRIAN, ET UX</p> <p>MINERAL OWNERS: BRIAN &amp; STACY NORMAN</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0008-0009-0000-0000 ASSESSED ACREAGE: 80.212 ACRES</p> <p>SURFACE OWNERS: MINER, FREDDIE B., ET UX</p> <p>MINERAL OWNERS: LELIA HOWELL FKA/LELIA HOWELL WRIGHT ROBERT L. LEMONS &amp; CHRISTINA M. LEMONS RONALD L. HOWELL, JR WILLIAM R. HOWELL SHAYNA M. MILLER &amp; BRANDON MILLER ELIZABETH HOWELL GORBY &amp; KENNETH A. T. GORBY DONALD &amp; PAMELA P. COLVIN ELIZABETH JEAN HOWELL RONALD L. HOWELL, JR WILLIAM R. HOWELL LELIA V. HOWELL VEMURI HOME &amp; GARDEN LLC DONNA LEMONS SHAYNA M. MILLER LINDA M. ATER CHRISTEN R. &amp; JOSEPH L. BLAKE NICOLE L. &amp; CHARLES F. REYNOLDS NOBLE MARCELLUS, LP</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0008-0003-0000-0000 ASSESSED ACREAGE: 1.246 ACRES</p> <p>SURFACE OWNERS: SNYDER, TRUDY LEE</p> <p>MINERAL OWNERS: TRUDY L. SNYDER</p> <p><input type="checkbox"/> TAX MAP NO. 15-0008-0001-0004-0000 ASSESSED ACREAGE: 0.871 ACRES</p> <p>SURFACE OWNERS: FRANCIS, DAVID E., ET UX</p> <p>MINERAL OWNERS: BEVERLY JEAN LILLEY FRANCES</p> <p><input type="checkbox"/> P/O TAX MAP NO. 15-0008-0001-0002-0000 ASSESSED ACREAGE: 4.378 ACRES</p> <p>SURFACE OWNERS: FRANCIS, BEVERLY JEAN</p> <p>MINERAL OWNERS: BEVERLY JEAN FRANCIS</p> <p><input type="checkbox"/> TAX MAP NO. 15-0008-0009-0001-0000 ASSESSED ACREAGE: 13.348 ACRES</p> <p>SURFACE OWNERS: LILLEY, IVAN R.</p> <p>MINERAL OWNERS: MASTER MINERAL HOLDINGS I, LP</p> <p><input type="checkbox"/> TAX MAP NO. 15-0007-0011-0000-0000 ASSESSED ACREAGE: 4.000 ACRES</p> <p>SURFACE OWNERS: EDDY, ROGER L., ET UX</p> <p>MINERAL OWNERS: MASTER MINERAL HOLDINGS I, LP, BY AND THROUGH ITS GENERAL PARTNER PBEX RESOURCES, LLC</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0014-0000-0000 ASSESSED ACREAGE: 20.517 ACRES</p> <p>SURFACE OWNERS: BIERCE, JOHN A., ET UX</p> <p>MINERAL OWNERS: JOHN A. BIERCE, TRUSTEE OF THE J. BIERCE FAMILY TRUST DATED OCTOBER 30, 2018</p> <p><input type="checkbox"/> TAX MAP NO. 14-0006-0015-0004-0000 ASSESSED ACREAGE: 0.663 ACRES</p> <p>SURFACE OWNERS: BIERCE, JOHN A., ET UX</p> <p>MINERAL OWNERS: JOHN A. BIERCE, TRUSTEE OF THE J. BIERCE FAMILY TRUST DATED OCTOBER 30, 2018</p> <p><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0002-0000 ASSESSED ACREAGE: 23.200 ACRES</p> <p>SURFACE OWNERS: KITTLE, JOSEPH LEROY</p> <p>MINERAL OWNERS: SANDRA C. (REMAINDERMAN) KOONTZ TERRY WAYNE (REMAINDERMAN) &amp; DEBORAH KITTLE REBECCA ANN (REMAINDERMAN) HALEY ELIZABETH JANE (REMAINDERMAN) SNYDER JOSEPH LEROY KITTLE HILDA MAE, (LIFE TENANT) APPEARING HEREIN BY AND THROUGH ELIZABETH JANE SNYDER HER AGENT AND ATTORNEY IN FACT BY POWER OF ATTORNEY DATED NOVEMBER 18, 2003 KITTLE</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0004-0000 ASSESSED ACREAGE: 1.400 ACRES</p> <p>SURFACE OWNERS: YOHIO, CLYDE, ET UX</p> <p>MINERAL OWNERS: BRENDA KAY YOHIO</p> <p><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0008-0000 ASSESSED ACREAGE: 1.250 ACRES</p> <p>SURFACE OWNERS: NORMAN, BRIAN K., ET UX</p> <p>MINERAL OWNERS: ROBERT L. &amp; KATHY J. YOUNG</p> <p><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0001-0000 ASSESSED ACREAGE: 1.250 ACRES</p> <p>SURFACE OWNERS: YOUNG, ROBERT L., ET UX</p> <p>MINERAL OWNERS: SANDRA C. KOONTZ JOSEPH LEROY KITTLE REBECCA ANN &amp; RUSSELL L., JR. HALEY TERRY WAYNE KITTLE LAWRENCE K. &amp; ERICA BJORK GREGOR J. &amp; CAROL BJORK KRISTINE L. TRUTA STACY ANN FOX BRENDA KAY YOHIO KATHY JO YOUNG JOHN DANIEL KITTLE HARRY B. &amp; ELIZABETH J. TRUSTEES OF THE SNYDER FAMILY TRUST DATED DECEMBER 17, 2014 SNYDER</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0007-0013-0005-0000 ASSESSED ACREAGE: 12.28 ACRES</p> <p>SURFACE OWNERS: BROWN, JOSHUA C</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0008-0001-0000-0000 ASSESSED ACREAGE: 11.840 ACRES</p> <p>SURFACE OWNERS: FRANCIS, BEVERLY JEAN</p> <p>MINERAL OWNERS: BEVERLY JEAN FRANCIS</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0008-0009-0002-0000 ASSESSED ACREAGE: 0.388 ACRES</p> <p>SURFACE OWNERS: MINER, FREDDIE B., ET UX</p> <p>MINERAL OWNERS: FREDDIE B. &amp; MARY ANN MINER</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0015-0000-0000 ASSESSED ACREAGE: 5.008 ACRES</p> <p>SURFACE OWNERS: LYONS, BRENT L.</p> <p>MINERAL OWNERS: NAOMI LEE LYONS (LIFE ESTATE), BRENT LYONS (REMAINDERMAN)</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0008-0001-0005-0000 ASSESSED ACREAGE: 1.295 ACRES</p> <p>SURFACE OWNERS: FRANCIS, MATTHEW D., ET UX</p> <p>MINERAL OWNERS: MATTHEW D. &amp; AMANDA D. FRANCIS</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0008-0003-0001-0000 ASSESSED ACREAGE: 3.830 ACRES</p> <p>SURFACE OWNERS: PYLE, LISA</p> <p>MINERAL OWNERS: LISA ANN PYLE</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0007-0000 ASSESSED ACREAGE: 1.830 ACRES</p> <p>SURFACE OWNERS: YOUNG, BRIA LYNN</p> <p>MINERAL OWNERS: ROBERT L. &amp; KATHY J. YOUNG</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0042-0000-0000 ASSESSED ACREAGE: 2.004 ACRES</p> <p>SURFACE OWNERS: WALKER, MICHAEL A.</p> <p>MINERAL OWNERS: MICHAEL A. WALKER</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0008-0001-0003-0000 ASSESSED ACREAGE: 0.854 ACRES</p> <p>SURFACE OWNERS: ERNEST, CARL WILLIAM, JR.</p> <p>MINERAL OWNERS: BEVERLY J. FRANCIS</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0007-0012-0000-0000 ASSESSED ACREAGE: 1.543 ACRES</p> <p>SURFACE OWNERS: EDDY, ROGER L., ET UX</p> <p>MINERAL OWNERS: ROGER L. &amp; DEBRA L. EDDY</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0008-0008-0005-0000 ASSESSED ACREAGE: 1.750 ACRES</p> <p>SURFACE OWNERS: YOUNG, ROBERT L., ET UX</p> <p>MINERAL OWNERS: REBECCA ANN HALEY SANDRA CAROL KOONTZ LAWRENCE K. &amp; ERICA BJORK GREGOR J. &amp; CAROL BJORK KRISTINE L. TRUTA JOSEPH LEROY KITTLE TERRY WAYNE &amp; DEBORAH S. KITTLE HARRY B. &amp; ELIZABETH J., TRUSTEES OF THE SNYDER FAMILY TRUST DATED DECEMBER 17, 2014 SNYDER BRENDA KAY YOHIO JOHN DANIEL KITTLE KATHY JO YOUNG STACY ANN FOX</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0007-0009-0000-0000 ASSESSED ACREAGE: 1.800 ACRES</p> <p>SURFACE OWNERS: KITTLE, JOSEPH LEROY</p> <p>MINERAL OWNERS: SANDRA C. KOONTZ TERRY W. &amp; DEBORAH KITTLE REBECCA ANN HALEY ELIZABETH JANE SNYDER JOSEPH LEROY KITTLE HILDA MAE KITTLE</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0008-0001-0001-0000 ASSESSED ACREAGE: 0.448 ACRES</p> <p>SURFACE OWNERS: FRANCIS, BEVERLY JEAN</p> <p>MINERAL OWNERS: BEVERLY JEAN FRANCIS</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0017-0002-0000 ASSESSED ACREAGE: 2.055 ACRES</p> <p>SURFACE OWNERS: PYLE, GEORGIANN</p> <p>MINERAL OWNERS: GEORGIANN &amp; WILLIAM RODGERS</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0013-0003-0000 ASSESSED ACREAGE: 32.037 ACRES</p> <p>SURFACE OWNERS: WALKER, MARK, ET UX</p> <p>MINERAL OWNERS: MARK &amp; ELIZABETH WALKER</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 April 8, 2019

OPERATOR'S WELL #: KINGS LANDING - 5UH

API WELL # 47      051      02221

STATE      COUNTY      PERMIT

**H6A**

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER      ELEVATION: 1,318.53'

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: 20,621' ±

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><input type="checkbox"/> TAX MAP NO. 14-0006-0006-0000-0000 ASSESSED ACREAGE: 5.875 ACRES</p> <p>SURFACE OWNERS: GATTS, RICHARD L., ET AL</p> <p>MINERAL OWNERS: RICHARD L. &amp; RICHARD J. GATTS</p>	<p><input type="checkbox"/> TAX MAP NO. 15-0007-0006-0004-0000 ASSESSED ACREAGE: 13.864 ACRES</p> <p>SURFACE OWNERS: SOFISKY, EMIL P., JR</p> <p>MINERAL OWNERS: ECO-VRINDABAN, INC. (EMIL P. SOFISKY, JR., SINGLE AND MARY A. CAMPBELL, SINGLE)</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0011-0000-0000 ASSESSED ACREAGE: 0.144 ACRES</p> <p>SURFACE OWNERS: ISKCON - NEW MATHURA VRINDABAN INC</p> <p>MINERAL OWNERS: ISKCON NEW VRINDABAN, INC.</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0071-0000-0000 ASSESSED ACREAGE: 0.400 ACRES</p> <p>SURFACE OWNERS: PERSINGER, TAMMIE D</p> <p>MINERAL OWNERS: THOMAS GEHO</p>
<p><input type="checkbox"/> TAX MAP NO. 14-0006-0008-0001-0000 ASSESSED ACREAGE: 3.898 ACRES</p> <p>SURFACE OWNERS: SCHRACK, JAMES C., ET UX</p> <p>MINERAL OWNERS: JAMES C. &amp; HEATHER K. SCHRACK</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0078-0000-0000 ASSESSED ACREAGE: 8.600 ACRES</p> <p>SURFACE OWNERS: ASTON, THOMAS C.</p> <p>MINERAL OWNERS: PENNMARC RESOURCES II, LP APPALACHIAN BASIN MINERALS, LP WILDES MINERAL INTERESTS, LLC MCCROW ENERGY PARTNERS II, LLC</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0088-0000-0000 ASSESSED ACREAGE: 1.721 ACRES</p> <p>SURFACE OWNERS: GUMP, DAVID A., ET UX</p> <p>MINERAL OWNERS: DAVID A. &amp; BETTY JEAN GUMP</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0070-0000-0000 ASSESSED ACREAGE: 0.381 ACRES</p> <p>SURFACE OWNERS: TULLIUS, JOSHUA W</p> <p>MINERAL OWNERS (A): CLARENCE TOLAND</p>
<p><input type="checkbox"/> TAX MAP NO. 14-0006-0012-0000-0000 ASSESSED ACREAGE: 6.249 ACRES</p> <p>SURFACE OWNERS: LILLEY, IVAN ORVAL, ET UX</p> <p>MINERAL OWNERS: IVAN ORVAL &amp; NANCY VERLA JEAN LILLEY</p>	<p><input type="checkbox"/> P/O TAX MAP NO. 14-0005-0075-0000-0000 ASSESSED ACREAGE: 6.350 ACRES</p> <p>SURFACE OWNERS: RICHMOND, SALLY ANN, ET VIR</p> <p>MINERAL OWNERS: SALLY ANN &amp; CHARLES R. RICHMOND</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0087-0001-0000 ASSESSED ACREAGE: 0.359 ACRES</p> <p>SURFACE OWNERS: GUMP, DAVID A., ET UX</p> <p>MINERAL OWNERS: DAVID A. &amp; BETTY JEAN GUMP</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0070-0000-0000 ASSESSED ACREAGE: 0.381 ACRES</p> <p>SURFACE OWNERS: TULLIUS, JOSHUA W</p> <p>MINERAL OWNERS (B): BARRY D. &amp; JOYCE E. CROW BARRY D. &amp; JOYCE E. CROW BOUNTY MINERALS, LLC CLARENCE TOLAND</p>
<p><input type="checkbox"/> TAX MAP NO. 14-0006-0013-0001-0000 ASSESSED ACREAGE: 0.388 ACRES</p> <p>SURFACE OWNERS: YOUNG, ALLEN W., ET UX</p> <p>MINERAL OWNERS: CRAIG ALLEN YOUNG CHAD ALLEN YOUNG CARRIE MARIE YOUNG BRYAN CHRISTOPHER YOUNG MARGARET ANN &amp; LLOYD E. WALKER</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0005-0015-0000 ASSESSED ACREAGE: 17.182 ACRES</p> <p>SURFACE OWNERS: HARTLEY, DONOVAN, ET UX</p> <p>MINERAL OWNERS: DELDRES JEAN SHELTON</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0086-0001-0000 ASSESSED ACREAGE: 0.240 ACRES</p> <p>SURFACE OWNERS: GUMP, DAVID A., ET UX</p> <p>MINERAL OWNERS: DAVID A. &amp; BETTY JEAN GUMP</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0069-0000-0000 ASSESSED ACREAGE: 0.1594 ACRES</p> <p>SURFACE OWNERS: BOCK, JEFFERY T.</p> <p>MINERAL OWNERS (A): JEFFREY T. BOCK</p>
<p><input type="checkbox"/> TAX MAP NO. 14-0006-0013-0002-0000 ASSESSED ACREAGE: 1.152 ACRES</p> <p>SURFACE OWNERS: YOUNG, RITA</p> <p>MINERAL OWNERS: RITA M. YOUNG</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0054-0000-0000 ASSESSED ACREAGE: 10.740 ACRES</p> <p>SURFACE OWNERS: SAMPSON, BARBARA, ET AL</p> <p>MINERAL OWNERS: DELORES JEAN SHELTON</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0085-0000-0000 ASSESSED ACREAGE: 0.050 ACRES</p> <p>SURFACE OWNERS: GUMP, DAVID A., ET UX</p> <p>MINERAL OWNERS: DAVID A. &amp; BETTY JEAN GUMP</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0069-0000-0000 ASSESSED ACREAGE: 0.1594 ACRES</p> <p>SURFACE OWNERS: BOCK, JEFFERY T.</p> <p>MINERAL OWNERS (B): JEFFREY T. BOCK BOUNTY MINERALS, LLC BARRY D. &amp; JOYCE E. CROW BARRY D. &amp; JOYCE E. CROW</p>
<p><input type="checkbox"/> TAX MAP NO. 14-0006-0013-0000-0000 ASSESSED ACREAGE: 2.002 ACRES</p> <p>SURFACE OWNERS: BLAKE, GERALD H., ET UX</p> <p>MINERAL OWNERS: CHRISTOPHER G., LILA D. WEST, MORROW</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0060-0000-0000 ASSESSED ACREAGE: 4.139 ACRES</p> <p>SURFACE OWNERS: MARSHAL COUNTY PUBLIC SERVICE DISTRICT NO. 3</p> <p>MINERAL OWNERS: MARSHALL COUNTY PUBLIC SERVICE DISTRICT NO. 3</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0084-0000-0000 ASSESSED ACREAGE: 0.235 ACRES</p> <p>SURFACE OWNERS: GUMP, DAVID A., ET UX</p> <p>MINERAL OWNERS: DAVID A. &amp; BETTY JEAN GUMP</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0066-0000-0000 ASSESSED ACREAGE: 1.200 ACRES</p> <p>SURFACE OWNERS: FERRELL, CHARLES DAVID, ET UX</p> <p>MINERAL OWNERS: CHARLES D. &amp; ERTHA J. FERRELL</p>
<p><input type="checkbox"/> TAX MAP NO. 14-0005-0079-0000-0000 ASSESSED ACREAGE: 17.660 ACRES</p> <p>SURFACE OWNERS: ASTON, WILLIAM</p> <p>MINERAL OWNERS: WILDES MINERAL INTERESTS, LLC MCCROW ENERGY PARTNERS II, LLC APPALACHIAN BASIN MINERALS, LP PENNMARC RESOURCES II, LP</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0010-0000-0000 ASSESSED ACREAGE: 1.440 ACRES</p> <p>SURFACE OWNERS: RICKMAN, DONALD V., JR., ET UX</p> <p>MINERAL OWNERS: DONALD V., JR. &amp; JENNIFER D. RICKMAN</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0081-0000-0000 ASSESSED ACREAGE: 0.414 ACRES</p> <p>SURFACE OWNERS: SNODGRASS, GARY E., ET UX</p> <p>MINERAL OWNERS: GARY E. &amp; LINDA K. SNODGRASS</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0066-0000-0000 ASSESSED ACREAGE: 0.063 ACRES</p> <p>SURFACE OWNERS: FERRELL, CHARLES DAVID, ET UX</p> <p>MINERAL OWNERS: CHARLES D. &amp; ERTHA J. FERRELL</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0007-0031-0000-0000 ASSESSED ACREAGE: 8.440 ACRES</p> <p>SURFACE OWNERS: WALKER, LLOYD E., ET UX</p> <p>MINERAL OWNERS: LLOYD &amp; MARGARET WALKER</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0011-0001-0000 ASSESSED ACREAGE: 1.702 ACRES</p> <p>SURFACE OWNERS: BECA, MICHAEL, ET UX</p> <p>MINERAL OWNERS: THOMAS C. ASTON</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0082-0000-0000 ASSESSED ACREAGE: 0.232 ACRES</p> <p>SURFACE OWNERS: SNODGRASS, GARY E., ET UX</p> <p>MINERAL OWNERS: GARY E. &amp; LINDA K. SNODGRASS</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0073-0000-0000 ASSESSED ACREAGE: 0.400 ACRES</p> <p>SURFACE OWNERS: ASTON, THOMAS C.</p> <p>MINERAL OWNERS: MCCROW ENERGY PARTNERS II, LLC APPALACHIAN BASIN MINERALS, LP PENNMARC RESOURCES II, LP WILDES MINERAL INTERESTS, LLC</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0007-0032-0000-0000 ASSESSED ACREAGE: 8.820 ACRES</p> <p>SURFACE OWNERS: WALKER, LLOYD E., ET UX</p> <p>MINERAL OWNERS: LLOYD E. &amp; MARGARET A. WALKER</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0006-0011-0002-0000 ASSESSED ACREAGE: 1.282 ACRES</p> <p>SURFACE OWNERS: CLAYTON, JILL</p> <p>MINERAL OWNERS: ISKCON - NEW VRINDIBAN, INC</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0080-0000-0000 ASSESSED ACREAGE: 0.587 ACRES</p> <p>SURFACE OWNERS: MARRINER, LEROY A</p> <p>MINERAL OWNERS: LEROY A. MARRINER</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0072-0000-0000 ASSESSED ACREAGE: 0.250 ACRES</p> <p>SURFACE OWNERS: ASTON, THOMAS C.</p> <p>MINERAL OWNERS: APPALACHIAN BASIN MINERALS, LP PENNMARC RESOURCES II, LP WILDES MINERAL INTERESTS, LLC MCCROW ENERGY PARTNERS II, LLC</p>
<p><input type="checkbox"/> TAX MAP NO. 15-0007-0008-0007-0000 ASSESSED ACREAGE: 4.718 ACRES</p> <p>SURFACE OWNERS: STORCH, ROBERT A.</p> <p>MINERAL OWNERS: ROBERT A. STORCH</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0074-0000-0000 ASSESSED ACREAGE: 1.620 ACRES</p> <p>SURFACE OWNERS: ASTON, THOMAS C.</p> <p>MINERAL OWNERS: PENNMARC RESOURCES II, LP MCCROW ENERGY PARTNERS II, LLC APPALACHIAN BASIN MINERALS, LP WILDES MINERAL INTERESTS, LLC</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0082-0000-0000 ASSESSED ACREAGE: 0.232 ACRES</p> <p>SURFACE OWNERS: SNODGRASS, GARY E., ET UX</p> <p>MINERAL OWNERS: GARY E. &amp; LINDA K. SNODGRASS</p>	<p><input type="checkbox"/> TAX MAP NO. 14-0005-0072-0000-0000 ASSESSED ACREAGE: 0.250 ACRES</p> <p>SURFACE OWNERS: ASTON, THOMAS C.</p> <p>MINERAL OWNERS: APPALACHIAN BASIN MINERALS, LP PENNMARC RESOURCES II, LP WILDES MINERAL INTERESTS, LLC MCCROW ENERGY PARTNERS II, LLC</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 April 8, 2019

OPERATOR'S WELL #: KINGS LANDING - 5UH

API WELL # 47      051      02221

STATE      COUNTY      PERMIT

**H6A**

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER      ELEVATION: 1,318.53'

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: 20,621' ±

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/O TAX MAP NO. 14-0005-0029-0000-0000 ASSESSED ACREAGE: 5.028 ACRES  
SURFACE OWNERS: HILL, PAUL A  
MINERAL OWNERS: KATHLEEN T. HILL AND SUSAN M. FERRIS, TRUSTEES OF THE K.T. HILL FAMILY TRUST, DATED DECEMBER 17, 2013. KAY F. & BEVERLY K. HILL
- TAX MAP NO. 14-0005-0029-0001-0000 ASSESSED ACREAGE: 1.696 ACRES  
SURFACE OWNERS: HILL, KAY F., ET UX  
MINERAL OWNERS: KAY F. & BEVERLY K. HILL
- TAX MAP NO. 14-0005-0029-0002-0000 ASSESSED ACREAGE: 1.856 ACRES  
SURFACE OWNERS: HILL, HOWARD B.  
MINERAL OWNERS: JOSHUA ADAM HILL, MATTHEW BRYON HILL
- P/O TAX MAP NO. 14-0005-0029-0000-0000 ASSESSED ACREAGE: 5.028 ACRES  
SURFACE OWNERS: HILL, PAUL A.  
MINERAL OWNERS: KATHLEEN T. HILL AND SUSAN M. FERRIS, TRUSTEES OF THE K.T. HILL FAMILY TRUST, DATED DECEMBER 17, 2013. KAY F. & BEVERLY K. HILL
- TAX MAP NO. 14-0005-0053-0002-0000 ASSESSED ACREAGE: 0.161 ACRES  
SURFACE OWNERS: SINON, MARIE N.  
MINERAL OWNERS: DONALD E., II AND MARIE N., TRUSTEES OF THE MARIE SINON FAMILY TRUST DATED DECEMBER 21, 2015 SINON
- TAX MAP NO. 14-0005-0053-0001-0000 ASSESSED ACREAGE: 0.839 ACRES  
SURFACE OWNERS: SINON, MARIE N.  
MINERAL OWNERS: DONALD E., II & MARIE N., TRUSTEES OF THE MARIE SINON FAMILY TRUST DATED DECEMBER 21, 2015 SINON
- TAX MAP NO. 14-0005-0052-0001-0000 ASSESSED ACREAGE: 0.230 ACRES  
SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX.  
MINERAL OWNERS: BASIL JAMES & PATRICIA L. HUDKINS, GARY GAMBLE, GARY GAMBLE & LORETTA E. GAMBLE, BRENDA KAY HUDKINS & WILLIAM E. COFFIELD, BARBARA JEAN & LAWRENCE M. TOMASZCZYK, EVELYN & RALPH F. MINTON, JOYCE ROBINSON, BONNIE WOOD, BRENDA ESTEL, BARBARA SAMPSON, WILLARD & TAMMY JO MCMILLAN
- TAX MAP NO. 14-0005-0052-0002-0000 ASSESSED ACREAGE: 0.230 ACRES  
SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX.  
MINERAL OWNERS: WILLIAM E. & BRENDA K. COFFIELD
- TAX MAP NO. 14-0005-0052-0008-0000 ASSESSED ACREAGE: 0.872 ACRES  
SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX.  
MINERAL OWNERS: WILLIAM E. & BRENDA K. COFFIELD
- TAX MAP NO. 14-0005-0052-0011-0000 ASSESSED ACREAGE: 0.430 ACRES  
SURFACE OWNERS: HUDKINS, BASIL J., ET UX.  
MINERAL OWNERS: BASIL J. & PATRICIA L. HUDKINS
- TAX MAP NO. 14-0005-0052-0006-0000 ASSESSED ACREAGE: 0.241 ACRES  
SURFACE OWNERS: KUSMA, MICHAEL R.  
MINERAL OWNERS: MICHAEL R. KUZMA
- TAX MAP NO. 14-0005-0052-0005-0000 ASSESSED ACREAGE: 0.643 ACRES  
SURFACE OWNERS: KUSMA, MICHAEL R.  
MINERAL OWNERS: BASIL JAMES & PATRICIA L. HUDKINS, EVELYN & RALPH F. MINTON, JOYCE ROBINSON, BRENDA ESTEL, BONNIE WOOD, BARBARA SAMPSON, BRENDA KAY HUDKINS & WILLIAM E. COFFIELD, WILLARD & TAMMY JO MCMILLAN, BARBARA JEAN & LAWRENCE M. TOMASZCZYK, GARY GAMBLE, GARY & LORETTA E. GAMBLE
- TAX MAP NO. 14-0005-0051-0000-0000 ASSESSED ACREAGE: 5.479 ACRES  
SURFACE OWNERS: AUTEN, RAYMOND N.  
MINERAL OWNERS: AMP FUND III, LP
- TAX MAP NO. 14-0005-0051-0001-0000 ASSESSED ACREAGE: 2.091 ACRES  
SURFACE OWNERS: HILL, MARTHA KAYE, ET AL.  
MINERAL OWNERS: HILLSCREEK CONSULTING, LLC, DRY RIDGE RESOURCES, LLC
- TAX MAP NO. 14-0005-0052-0003-0000 ASSESSED ACREAGE: 0.820 ACRES  
SURFACE OWNERS: COFFIELD, WILLIAM E., ET UX.  
MINERAL OWNERS: EVELYN & RALPH F. MINTON, BONNIE WOOD, BARBARA SAMPSON, BRENDA ESTEL, JOYCE ROBINSON, BRENDA KAY HUDKINS & WILLIAM E. COFFIELD, WILLARD & TAMMY JO MCMILLAN, BRENDA KAY HUDKINS & WILLIAM E. COFFIELD, GARY GAMBLE, GARY & LORETTA E. GAMBLE, BASIL JAMES & PATRICIA L. HUDKINS
- TAX MAP NO. 14-0005-0051-0002-0000 ASSESSED ACREAGE: 0.167 ACRES  
SURFACE OWNERS: VOGLER, THOMAS G.  
MINERAL OWNERS: THOMAS G. VOGLER
- TAX MAP NO. 14-0005-0039-0000-0000 ASSESSED ACREAGE: 5.775 ACRES  
SURFACE OWNERS: 1712 Mount Nabo Road, DERROW, SAMUEL R., ET UX, Sewickley, PA 15143  
MINERAL OWNERS: SAMUEL R. & ANGELA R. DERROW
- TAX MAP NO. 14-0005-0032-0001-0000 ASSESSED ACREAGE: 2.140 ACRES  
SURFACE OWNERS: ASTON, CHAD E.  
MINERAL OWNERS: CHAD E. ASTON
- TAX MAP NO. 14-0005-0032-0003-0000 ASSESSED ACREAGE: 0.696 ACRES  
SURFACE OWNERS: HILL, KAY F., ET UX.  
MINERAL OWNERS: KAY F. & BEVERLY K. HILL
- TAX MAP NO. 14-0005-0032-0004-0000 ASSESSED ACREAGE: 10.000 ACRES  
SURFACE OWNERS: HILL, KAY F., ET UX.  
MINERAL OWNERS: KAY F. & BEVERLY K. HILL
- TAX MAP NO. 14-0005-0031-0003-0000 ASSESSED ACREAGE: 0.638 ACRES  
SURFACE OWNERS: WASSUM, LORI  
MINERAL OWNERS: LORI A. KENNEDY
- TAX MAP NO. 14-0005-0031-0000-0000 ASSESSED ACREAGE: 0.398 ACRES  
SURFACE OWNERS: YOHO, DONALD W.  
MINERAL OWNERS:
- TAX MAP NO. 14-0005-0033-0001-0000 ASSESSED ACREAGE: 0.508 ACRES  
SURFACE OWNERS: YOHO, SHIRLEY M.  
MINERAL OWNERS: APPALACHIAN BASIN MINERALS, LP, PENNMARC RESOURCES II, LP, WILDES MINERAL INTERESTS, LLC, MCCROW ENERGY PARTNERS II, LLC
- TAX MAP NO. 14-0005-0033-0002-0000 ASSESSED ACREAGE: 0.730 ACRES  
SURFACE OWNERS: SNYDER, ROBERT E., ET UX.  
MINERAL OWNERS: WILDES MINERAL INTERESTS, LLC, MCCROW ENERGY PARTNERS II, LLC, APPALACHIAN BASIN MINERALS, LP, PENNMARC RESOURCES II, LP
- TAX MAP NO. 14-0005-0034-0000-0000 ASSESSED ACREAGE: 1.000 ACRES  
SURFACE OWNERS: WHIPKEY, ROGER, ET UX.  
MINERAL OWNERS: ROGER & DEBORAH DIANE WHIPKEY
- TAX MAP NO. 14-0005-0035-0000-0000 ASSESSED ACREAGE: 1.000 ACRES  
SURFACE OWNERS: WHIPKEY, ROGER, ET UX.  
MINERAL OWNERS: ROGER & DEBORAH DIANE WHIPKEY
- TAX MAP NO. 14-0005-0036-0001-0000 ASSESSED ACREAGE: 0.456 ACRES  
SURFACE OWNERS: KORNGIVER, TODD E. & JENNIFER  
MINERAL OWNERS: JORDAN M. & VICTORIA G. BENLINE SIMONS
- TAX MAP NO. 14-0005-0033-0000-0000 ASSESSED ACREAGE: 6.955 ACRES  
SURFACE OWNERS: YOHO, DONALD WILLIAM, ET UX.  
MINERAL OWNERS: KIM MARLENE YOHO
- TAX MAP NO. 14-0005-0032-0002-0000 ASSESSED ACREAGE: 1.569 ACRES  
SURFACE OWNERS: ULRICH, DOUGLAS R., ET UX.  
MINERAL OWNERS: DOUGLAS R. & PAMELA D. ULRICH
- TAX MAP NO. 14-0005-0032-0000-0000 ASSESSED ACREAGE: 1.000 ACRES  
SURFACE OWNERS: SAMPSON, RUTH  
MINERAL OWNERS: RUTH E. SMITH
- TAX MAP NO. 14-0005-0032-0006-0000 ASSESSED ACREAGE: 2.351 ACRES  
SURFACE OWNERS: LILLEY, ROGER W., ET UX.  
MINERAL OWNERS: CONNIE CLUTTER
- TAX MAP NO. 14-0005-0032-0005-0000 ASSESSED ACREAGE: 1.052 ACRES  
SURFACE OWNERS: LILLEY, ROGER W., ET UX.  
MINERAL OWNERS: ROGER W. & TRICIA A. LILLEY
- TAX MAP NO. 14-0005-0052-0007-0000 ASSESSED ACREAGE: 0.671 ACRES  
SURFACE OWNERS: HUDKINS, BASIL J.  
MINERAL OWNERS: BASIL J. & PATRICIA L. HUDKINS
- TAX MAP NO. 14-0005-0052-0004-0000 ASSESSED ACREAGE: 0.596 ACRES  
SURFACE OWNERS: HUDKINS, BASIL J., ET UX.  
MINERAL OWNERS: BASIL JAMES & PATRICIA L. HUDKINS, EVELYN & RALPH F. MINTON, BONNIE WOOD, JOYCE ROBINSON, BARBARA SAMPSON, BRENDA ESTEL, BRENDA KAY HUDKINS & WILLIAM E. COFFIELD, WILLARD & TAMMY JO MCMILLAN, BARBARA JEAN & LAWRENCE M. TOMASZCZYK, GARY GAMBLE, GARY & LORETTA E. GAMBLE

(+) 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 April 8, 2019  
OPERATOR'S WELL #: KINGS LANDING - 5UH  
API WELL # 47 051 02221  
STATE COUNTY PERMIT H6A

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,318.53'  
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: 20,621' ±  
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.  
14-0005-0052-0009-0000  
ASSESSED ACREAGE: 0.482 ACRES

SURFACE OWNERS:  
REYNOLDS, SCOTTY J., ET UX.

MINERAL OWNERS:  
SCOTTY J. & MELINDA M. REYNOLDS

TAX MAP NO.  
DOH-1473  
ASSESSED ACREAGE: 46.612 ACRES

SURFACE OWNERS:  
STATE OF WEST VIRGINIA

MINERAL OWNERS:  
STATE OF WEST VIRGINIA

TAX MAP NO.  
14-0005-0036-0000-0000  
ASSESSED ACREAGE: 31.708 ACRES

SURFACE OWNERS:  
DANIEL EDWARD TATCICH  
IRREVOCABLE TRUST

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

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

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

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

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

SURFACE OWNERS:  
HILL, KAY F., ET AL

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

TAX MAP NO.  
MCCREARYS RIDGE ROAD  
ASSESSED ACREAGE: 0.309

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

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

TAX MAP NO.  
14-0005-0038-0001-0000  
ASSESSED ACREAGE: 0.471 ACRES

SURFACE OWNERS:  
BANE, MARTIN C. & SUSAN

MINERAL OWNERS:  
MARTIN C. & SUSAN A. BANE

TAX MAP NO.  
14-0005-0038-0000-0000  
ASSESSED ACREAGE: 0.474 ACRES

SURFACE OWNERS:  
BANE, MARTIN C. & SUSAN

MINERAL OWNERS:  
MARTIN C. & SUSAN A. BANE

TAX MAP NO.  
14-0005-0039-0001-0000  
ASSESSED ACREAGE: 21.788 ACRES

SURFACE OWNERS:  
BISHOP, PENNY S., ET VIR.

MINERAL OWNERS:  
PENNY S. & RAYMOND D. BISHOP

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.  
14-0005-0076-0000-0000  
ASSESSED ACREAGE: 7.564 ACRES

SURFACE OWNERS:  
FOSTER, KERRY G.

MINERAL OWNERS:  
KERRY & CINDY FOSTER

(+) 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 April 8, 2019

OPERATOR'S WELL #: KINGS LANDING - 5UH

API WELL # 47 051 02221  
STATE COUNTY PERMIT

**HOA**

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

WATERSHED WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,318.53'

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: 20,621' ±

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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WW-6A1  
(5/13)

Operator's Well No. Kings Landing-5UH

**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				

**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

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Kings Landing-5UH Wellbore Tracts

Map #	Lease #	Lessor	Current Lessee	Royalty	Recording Information	Parcel
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
2	WV-MAR-1253	Noble Marcellus, LP	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	682-63	15-8-9
2	WV-MAR-1260	Vemuri Home & Garden LLC	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-106	15-8-9
2	WV-MAR-1257	Christen R. & Joseph L. Blake	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	698-381	15-8-9
2	WV-MAR-1262	Donald & Pamela P. Colvin	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	752-12	15-8-9
2	WV-MAR-1259	Donna Lemons	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-101	15-8-9
2	WV-MAR-1628	Elizabeth Howell Gorby & Kenneth A. T. Gorby	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1032-434	15-8-9
2	WV-MAR-1261	Elizabeth Jean Howell	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-111	15-8-9
2	WV-MAR-1644	Lelia Howell f/k/a Lelia Howell Wright	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1032-20	15-8-9
2	WV-MAR-1261	Lelia V. Howell	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-111	15-8-9
2	WV-MAR-1258	Linda M. Ater	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-96	15-8-9
2	WV-MAR-1255	Nicole L. & Charles F. Reynolds	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	697-81	15-8-9
2	WV-MAR-1641	Robert L. Lemons & Christina M. Lemons	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1031-629	15-8-9
2	WV-MAR-1632	Ronald L. Howell, Jr.	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1033-571	15-8-9
2	WV-MAR-1261	Ronald L. Howell, Jr.	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-111	15-8-9
2	WV-MAR-1259	Shayna M. Miller	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-101	15-8-9
2	WV-MAR-1629	Shayna M. Miller & Brandon Miller	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1031-621	15-8-9
2	WV-MAR-1630	William R. Howell	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1033-574	15-8-9
2	WV-MAR-1261	William R. Howell	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	747-111	15-8-9
5	WV-MAR-1121	Freddie B. & Mary Ann Miner	American Petroleum Partners Operating, LLC Jamestown Resources, LLC	Not Less than 1/8th	802-225	15-8-9.2

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13	WV-MAR-1204	Master Mineral Holdings I, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1028-363 1029-67	15-8-9.1
14	WV-MAR-1242	Master Mineral Holdings I, LP, by and through its General Partner PBEX Resources, LLC	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1029-55	15-7-11
22	WV-MAR-1328	Sandra C. (Remainderman) Koontz	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	753-522	15-7-8.2
22	WV-MAR-1327	Terry Wayne (Remainderman) & Deborah Kittle	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	753-517	15-7-8.2
22	WV-MAR-1326	Rebecca Ann (Remainderman) Haley	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	750-398	15-7-8.2
22	WV-MAR-1325	Elizabeth Jane (Remainderman) Snyder	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	750-393	15-7-8.2
22	WV-MAR-1324	Joseph Leroy Kittle	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	750-388	15-7-8.2
22	WV-MAR-1323	Hilda Mae, (Life Tenant) appearing herein by and through Elizabeth Jane Snyder, her Agent and Attorney In Fact, by	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	691-92	15-7-8.2
30	WV-MAR-1321	Michael A. Walker	American Petroleum Partners Operating, LLC	Not Less than 1/8th	661-636	14-6-42
32	WV-MAR-1321	Mark & Elizabeth Walker	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	661-636	14-6-13.3
39	WV-MAR-1527	Wildes Mineral Interests, LLC	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1020-43	14-5-79
39	WV-MAR-1466	McCrow Energy Partners II, LLC	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1013-393	14-5-79
39	WV-MAR-1464	Appalachian Basin Minerals, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1013-372	14-5-79
39	WV-MAR-1463	PennMarc Resources II, LP	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1014-123	14-5-79
44	WV-MAR-1349	PennMarc Resources II, LP	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	704-378	14-5-78
44	WV-MAR-1349	Appalachian Basin Minerals, LP	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	704-378	14-5-78
44	WV-MAR-1349	Wildes Mineral Interests, LLC	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	704-378	14-5-78
44	WV-MAR-1349	McCrow Energy Partners II, LLC	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	704-378	14-5-78
66	Force Pooling	Charles D. & Ertha J. Ferrell	SWN Production Company, LLC Equinor USA Onshore Properties, Inc.	Not Less than 1/8th	718-374	14-5-66
88	WV-MAR-1364	The Limestone Presbyterian Church	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	805-160	14-5-64
89	WV-MAR-1364	The Limestone Presbyterian Church	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	805-160	14-5-63
90	WV-MAR-1364	The Limestone Presbyterian Church	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	805-160	14-5-65.1

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91	WV-MAR-1364	The Limestone Presbyterian Church	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	805-160	14-5-65
93	WV-MAR-1364	The Limestone Presbyterian Church	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	805-160	14-5-31.1
101	WV-MAR-1348	Shirley Jean Moore	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	660-516 748-278	14-5-77
101	WV-MAR-1347	Noble Marcellus LP	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	659-140 748-123	14-5-77
101	WV-MAR-1305	Bounty Minerals III LLC	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	695-31	14-5-77
103	WV-MAR-0022	Diana Lynn King	American Petroleum Partners Operating, LLC	Not Less than 1/8th	989-1	14-5-31.2
104	WV-MAR-1372	Appalachian Basin Minerals, LP	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	807-390	14-5-31.4
104	WV-MAR-1372	PennMarc Resources II, LP	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	807-390	14-5-31.4
104	WV-MAR-1372	Wildes Mineral Interests, LLC	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	807-390	14-5-31.4
104	WV-MAR-1372	McCrow Energy Partners II, LLC	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	807-390	14-5-31.4
127	WV-MAR-0028	Kay F. & Beverly K. Hill	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1019-136	14-5-32.4
135	WV-MAR-0024	Kim Marlene Yoho	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1019-100	14-5-33
137	WV-MAR-0137	Ruth E. Smith	American Petroleum Partners Operating, LLC	Not Less than 1/8th	1025-471	14-5-32
138	WV-MAR-0161	Connie Clutter	American Petroleum Partners Operating, LLC	Not Less than 1/8th	976-459	14-5-32.6
143	WV-MAR-0092	Daniel Edward Tatich, Trustee of the Daniel Edward Tatich Irrevocable Trust dated April 27, 2016	American Petroleum Partners Operating, LLC	Not Less than 1/8th	979-279	14-5-36
149	WV-MAR-1358	Kerry & Cindy Foster	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	711-264	14-5-76
151	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
45 & 72	WV-MAR-1345	Sally Ann & Charles R. Richmond	American Petroleum Partners Operating, LLC Pelican Energy, LLC	Not Less than 1/8th	704-362	14-5-75

Note: Attempts were made to negotiate with the Current Lessee of parcel 14-5-66 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.



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Office of Oil & Gas  
601 57<sup>th</sup> 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](mailto:regulatory@app-lp.com).

Sincerely,

Brailio Silva  
VP- Drilling

BS/djs

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

Date of Notice Certification: \_\_\_\_\_

API No. 47- 051 - \_\_\_\_\_

Operator's Well No. Kings Landing-5UH \_\_\_\_\_

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: _____	531598.010
County: _____	Marshall		Northing: _____	4419630.503
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  <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED  <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION  <input checked="" type="checkbox"/> 5. PUBLIC NOTICE  <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<b>OOG OFFICE USE ONLY</b>  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED
--	--	--

**Required Attachments:**

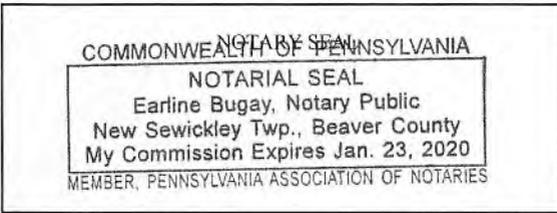
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

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**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 30<sup>th</sup> 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](mailto:depprivacyofficer@wv.gov).

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(9-13)

API NO. 47- 051 -  
OPERATOR WELL NO. Kings Landing-5UH  
Well Pad Name: Kings Landing

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

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

**Date of Notice:** \_\_\_\_\_ **Date Permit Application Filed:** \_\_\_\_\_

**Notice of:**

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

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

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

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

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

SURFACE OWNER(s)

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

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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

Name: None  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: None  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Murray American Energy and Consolidation Coal Company  
Address: 46226 National Road  
St. Clairsville, OH 43950

COAL OPERATOR

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

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

Name: \*\*See attached list  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: None  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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(8-13)

API NO. 47- 051 -  
OPERATOR WELL NO. Kings Landing-5UH  
Well Pad Name: Kings Landing

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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(8-13)

API NO. 47- 051 - \_\_\_\_\_  
OPERATOR WELL NO. Kings Landing-5UH  
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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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

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Environmental Protection

WW-6A  
(8-13)

API NO. 47- 051 -  
OPERATOR WELL NO. Kings Landing-5UH  
Well Pad Name: Kings Landing

**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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Environmental Protection

WW-6A  
(8-13)

API NO. 47- 051 -  
OPERATOR WELL NO. Kings Landing-5UH  
Well Pad Name: Kings Landing

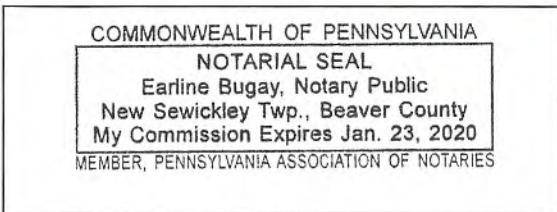
**Notice is hereby given by:**

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](mailto:depprivacyofficer@wv.gov).



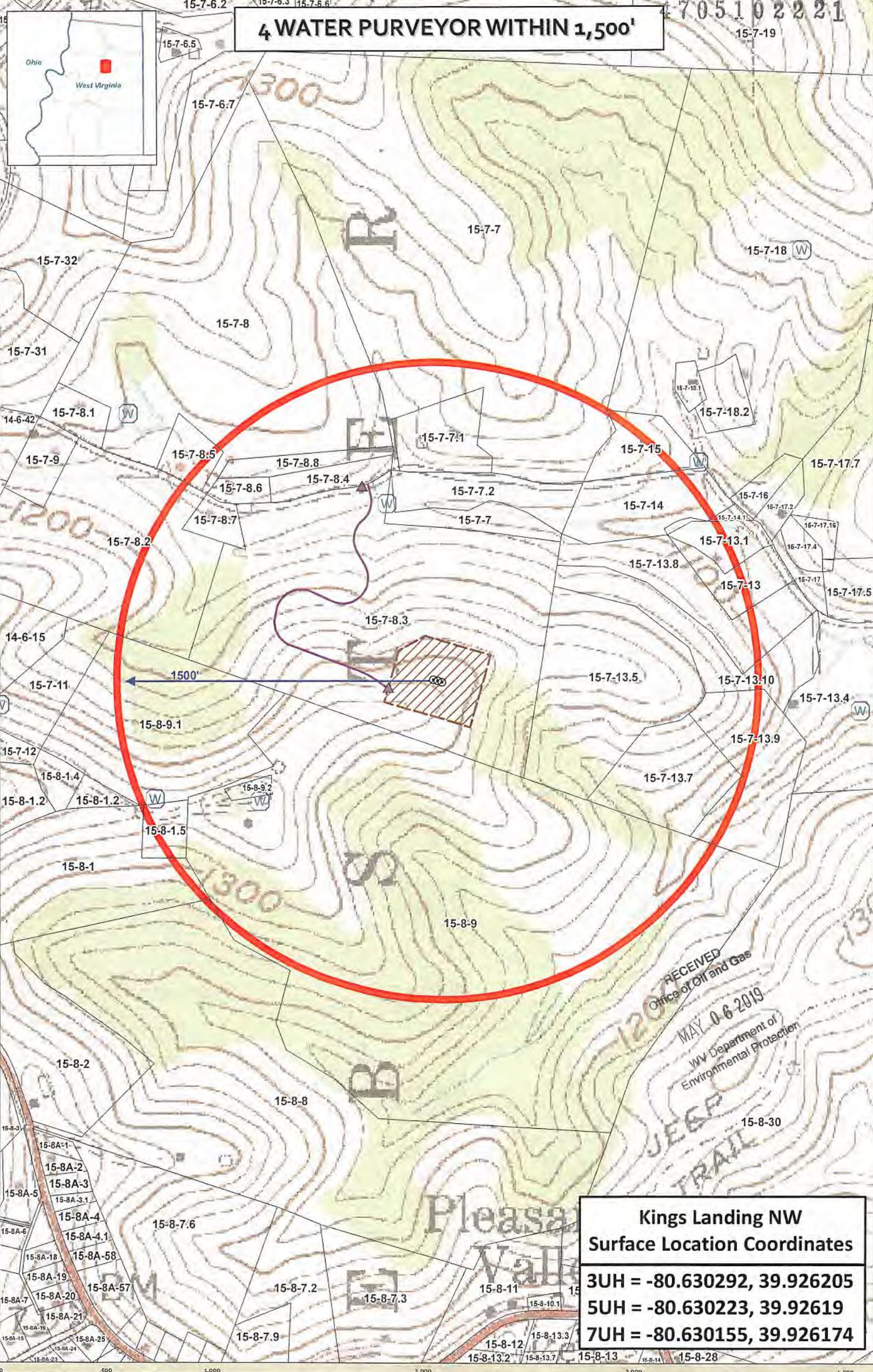
Subscribed and sworn before me this 30<sup>th</sup> day of April 2019.

Earline Bugay Notary Public

My Commission Expires 1/23/2020

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# 4 WATER PURVEYOR WITHIN 1,500'



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WV Department of  
Environmental Protection  
JEFF  
TRAIL

**Kings Landing NW  
Surface Location Coordinates**  
 3UH = -80.630292, 39.926205  
 5UH = -80.630223, 39.92619  
 7UH = -80.630155, 39.926174

<b>Kings landing NW - Water Source</b>		Well SHL	Access Rd Intersection	Water Well
Marshall County West Virginia	Coordinate System: Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983	Map Scale Units: 1:8,000 1 inch = 66.67 feet	Map Author: DJJ Map Date: 4/5/2019	Well Pad
		Access Road	Parcels	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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Environmental Protection

WW-6A4  
(1/12)

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

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

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

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

HAND DELIVERY       CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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

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

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

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**Notice is hereby given:**

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

State: West Virginia      UTM NAD 83      Easting: 531598.010  
County: Marshall      Northing: 4419630.503  
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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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: \_\_\_\_\_

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WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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





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 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Kings Landing Pad, Marshall County  
Kings Landing 5UH 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

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

## Hydraulic Fracturing Fluid Product Component Information Disclosure

### Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**
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	30.00000
SP BREAKER	Halliburton	Breaker			
			Sodium persulfate	7775-27-1	30.00000
LOSURF-300D	Halliburton	Non-ionic Surfactant			
			Ethanol	64-17-5	60.00000
			Heavy aromatic petroleum	64742-94-5	30.00000
			Naphthalene	91-20-3	5.00000
			Poly(oxy-1,2-ethanediyl), alpha-	127087-87-0	5.00000
			1,2,4 Trimethylbenzene	95-63-6	1.00000

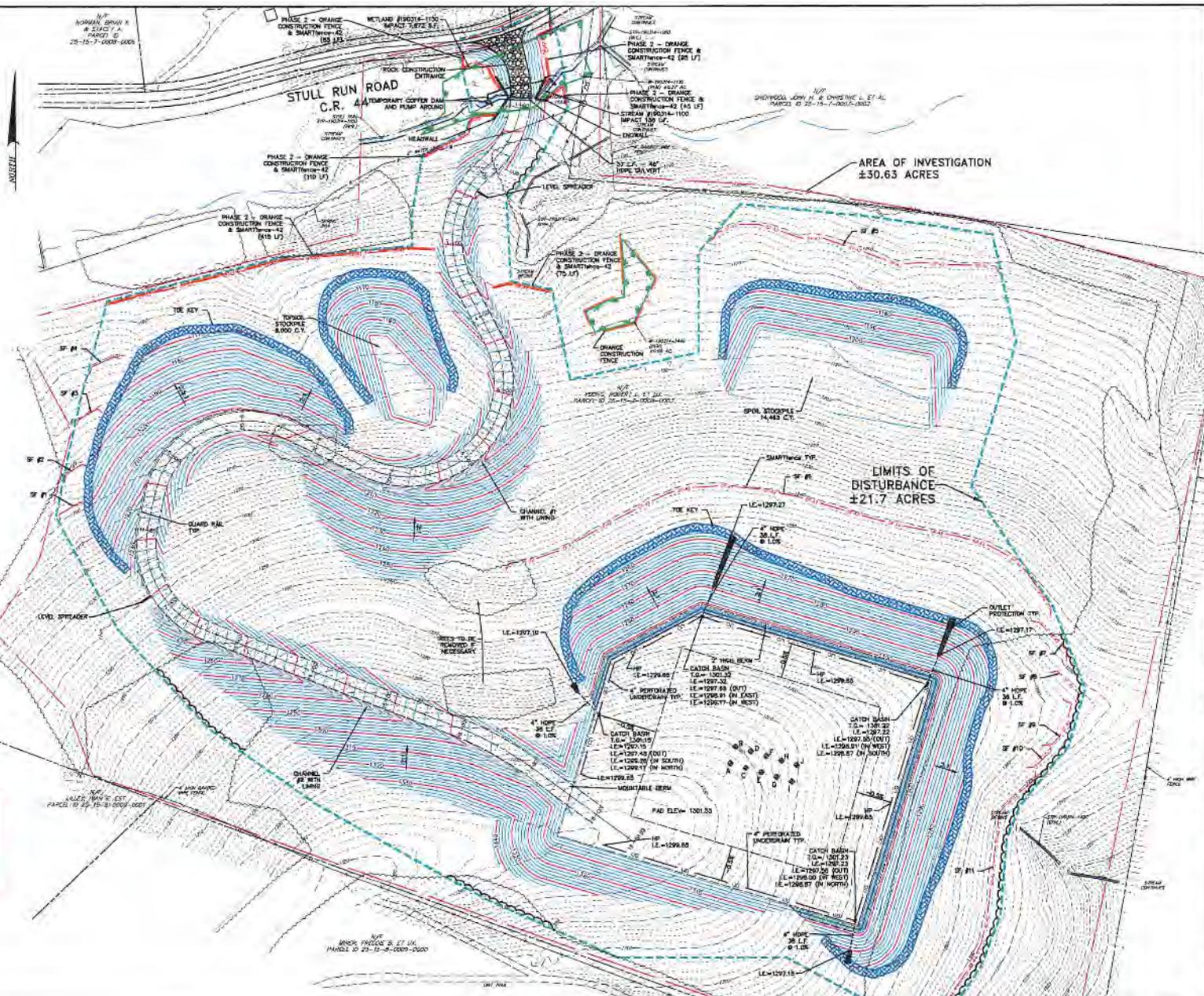
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**LEGEND**

EXISTING PROPERTY LINE	---
EXISTING PHASE 1	---
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**APPROVED**  
**WVDEP OOG**  
11/5/2019

SCALE

1" = 100'

0 50 100

NO.	DATE	REVISION
1	08/27/19	ISSUED FOR WDEP COMMENTS
2	11/05/19	ISSUED FOR WDEP COMMENTS
3	11/05/19	ISSUED FOR WDEP COMMENTS

FOR REVIEW ASSOCIATES BY:

MANAGER:	BJ BATTERSON, PE
DRAWN BY:	ASD
DESIGN BY:	JUN
CHECK BY:	ASD
DATE:	11/05/19
SCALE:	AS SHOWN

AMERICAN PETROLEUM PARTNERS  
PERFORMANCE BANKING COURT  
4000 SUITE 310  
GAINESBORO, VA 22437

**RETTEW**  
RETTEW ASSOCIATES, INC.  
1000 W. MARKET STREET, SUITE 200  
FARMINGTON, VA 22430  
PHONE: 540-444-1733 FAX: 540-444-1133  
WWW.RETTAW.COM

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

DATE:	03/20/19
SHEET NO.:	6 OF 19
DWG. NO.:	109592207

NOT FOR CONSTRUCTION/NOT FOR BIDDING