

#### west virginia department of environmental protection

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

Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Friday, November 03, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for SHL 27 JHS

47-051-01958-00-00

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

Operator's Well Number: SHL 27 JHS

Farm Name: STEVE WARD AND ED WARD U.S. WELL NUMBER: 47-051-01958-00-00

Horizontal 6A / New Drill

Date Issued: 11/3/2017

Promoting a healthy environment.

API Number: <u>\$1-01958</u>

## **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**

- 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.

API Number: 51-01958

## **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.



API NO. 47	
<b>OPERATOR WELL</b>	NO. SHL27 JHS
Well Pad Name:	SHL27

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

1) Well Operator: HG Energy	II Appala	chia, 📙	494519932	1	Marshall	Franklin	Powhatan Point
			Operator ID		County	District	Quadrangle
2) Operator's Well Number: Sh	HL27 JHS		Well	Pad 1	Name: SHL2	7	
3) Farm Name/Surface Owner:	Steve and	l Ed Wa	ard Public I	Road	Access: Irish	Ridge Ro	oad
4) Elevation, current ground:	1154'	Ele	evation, propos	sed p	ost-construction	on: 1154'	
5) Well Type (a) Gas x	(	Oil	U	Inder	ground Storag	ge	
Other							
(b)If Gas Sha	allow <u>x</u>		Deep	_			/
Но	rizontal <u>×</u>					8/8/	17
6) Existing Pad: Yes or No Ye	S					8101	
7) Proposed Target Formation(s Marcellus at 6163'/6214' and 5			•		•	ressure(s):	
8) Proposed Total Vertical Dept	th: 6200'		/				
9) Formation at Total Vertical I		rcellus	/				
10) Proposed Total Measured D	epth: 14,	616'	/				
11) Proposed Horizontal Leg Le	ength: $\frac{7,6}{}$	04' 🗸					
12) Approximate Fresh Water S			349'				RECEIVED Office of Oil and Gas
13) Method to Determine Fresh	Water Dep	ths: C	offset well data	а			AUG 1 7 2017
14) Approximate Saltwater Dep	oths: None	noted	in offsets				_ WV Department of
15) Approximate Coal Seam De	epths: 634	to 644	i				Environmental Protection
16) Approximate Depth to Poss	ible Void (	coal mi	ne, karst, other	:): <u>N</u>	lone - drilling	into an int	erior barrier
17) Does Proposed well location directly overlying or adjacent to			rs Yes <u>X</u>		No		
(a) If Yes, provide Mine Info:	Name:	Same	as Above				
(-), F-2.170	Depth:	634' to	644' - drilling	into	an interior ba	rrier 934' fr	om proposed mining
	Seam:	Pittsb	urgh No. 8				
	Owner:	Cons	olidation Coal	Con	npany (Murra	y America	n Energy, Inc.)

Well Pad Name: SHL27

#### 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	157.5	40'	40'	CTS
Fresh Water	20"	NEW	J-55	94	450'	450'	CTS 30% excess yield =1.20,CTS
Coal	13 3/8"	NEW	J-55	54.5	1050'	1050'	30% excess yield = 1.20,CTS
Intermediate	9 5/8"	NEW	J-55	40	3032' or 250' below 5th Sand	3032' or 250' below 5th Sand	30% excess yield = 1.27,CTS
Production	5 1/2"	NEW	P-110	20	14616'	14616'	20% excess yield = 1.19, tail yield = 1.94
Tubing							
Liners							

8/8/17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	36"	.500				CTS
Fresh Water	20"	24"	.438	2110	1200	Type 1	30 % excess yield = 1.20, CTS
Coal	13 3/8"	17 1/2"	.380	2730		Type 1/Class A	30% excess yield = 1.20, CTS
Intermediate	9 5/8"	12 3/8"	.395	3950		Type 1/Class A	30% excess yield = 1.27, CTS
Production	5 1/2"	8 3/4" & 8 1/2"	.361	12640	10000	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94
Tubing							
Liners							

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#### **PACKERS**

WV Department of Environmental Protection

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Page 2 of 3

<ol><li>Describe all cement additives ass</li></ol>	ociated with each cement type:	
Conductor -N/A, Casing to be disted in wf Dual Rotary Rig.  **rosh Water - **1.5 in pag PRE-1 + 2.5% toward CACL, 30%, Excess Yield = 1.20 / CTS*.  **In - **1.5 in pag PRE-1 + 2.5% toward CSL, 30% Excess Yield = 1.20 / CTS*.		

25) Proposed borehole conditioning procedures:

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\*Note: Attach additional sheets as needed.

WW-6B
(10/14)

API NO. 47			
OPERATOR WEL	L NO.	SHL27 JHS	
Well Pad Name:	SHL27	,	

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6200 feet. Drill horizontal leg - stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, 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 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. See attached list. Maximum pressure not to exceed 10,000 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 19.325 acres(this is a built pad)
- 22) Area to be disturbed for well pad only, less access road (acres): 10.228 acres
- 23) Describe centralizer placement for each casing string:

No corrections will be used with conductor carding. Final-water every 3 juins to surface. Close - Bow Spring on Sex 2 juins surface. Show Spring on Sex 2 juins Sten every thirt juin to 100° sons surface. Production - Run 1 spiral consolidate every 5 juins from the top of the curve.

The top of the curve to surface. Run 1 spiral consolidate every 2 juins from the 1st 5.5° core juins to the top of the curve.

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

Conclosor And, Casting the distinct in Folia Pleasy Rig.

Fine Reserved. 1969 PRIVE + 2.25 the COLO, 2016 Excess York + 1.20 / CTS\*,
Coal - 1.38 type PRIVE + 2.25 the book CRJ, 2016 Excess York + 1.20 / CTS\*,
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Coal - 1.38 Type PRIVE

25) Proposed borehole conditioning procedures:

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Consideration

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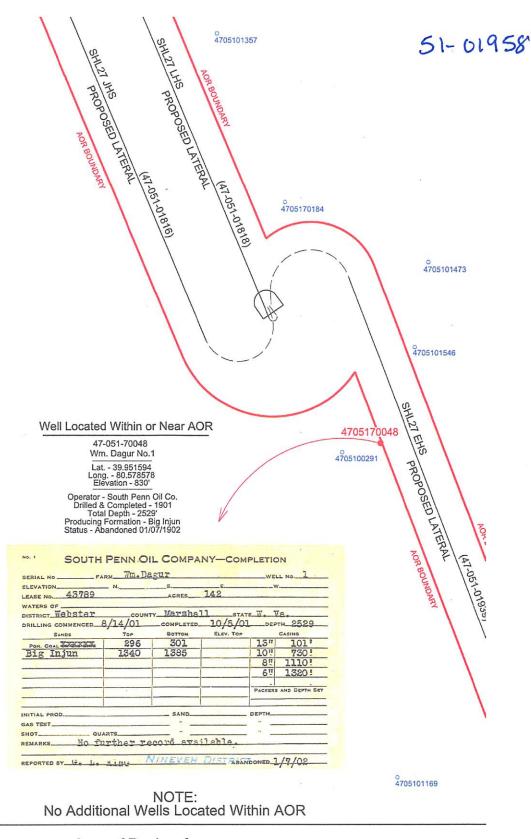
\*Note: Attach additional sheets as needed.

# WV Department of Environmental Protection

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#### SHL 27J Macellus Shale Horizontal Marshall County, WV

			-						warshall C	ounty, ww		
						5	SHL 27J	SHL		532946N 1695580	.2E	
Ground Ele	evation		1154		SHL 27J LP			I LP	532368.5N 1694519.2E			
Azm			338°		SHL 27J BHL			BHL	539392.2N 1691628.2E			
WELLBORE DIAGRAM		HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
×		30"	30" 157.5# LS	Conductor	0	40	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness	
			20"					15.6 ppg PNE-1 + 2.5% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wa	
X	X	24"	94# J-55	Fresh Water		349	AIR	30% Excess Yield = 1.20 / CTS	joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi	
X	x			Water String	0	450		Fleid = 1.207 C13		pumping cement.		
		47.51	13-3/8" 54.5#				AIR / KCL - Sait	15.6 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on first 2 joints then every third	Once casing is at setting depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.380 wall thickness	
×	X	17.5"	J-55 BTC	Pittsburgh Coal	634	644	Polymer	30% Excess Yield=1,20 / CTS	joint to 100' form surface	minimum of one hole volume prior to pumping cement.	Burst=2730 psi	
				Int. Casing	0	1050		11014 1120 7 0 1 0	surace			
X	X							15.2 ppg PNE-1 + 2.5%		Once casing is at setting		
		12.375" -	9-5/8" 40#	Big Lime		bwoc CaCl	Bow Spring on first 2 joints then every third	depth, Circulate and condition mud at TD.	Casing to be ran 250' belo the 5th Sand, Intermediat			
		12.25"	J-55 BTC	J-55 BTC	Gordon	2639	2652	Salt Polymer	30% Excess Yield=1.27	joint to 100' form surface	Circulate a minimum of one hole volume prior to	casing = 0.395" wall thickne Burst=3950 psi
X				Fifth Sand 2748 2782 CTS surface	surace	pumping cement.	Buist-3830 psi					
		-		int. Casing	0	3032	-			0		
M			}	Warren Sand	3901	3910	9.0ppg		Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	Once on bottom/TD with		
		8.5" Vertical		Java Shale	4568	4739	SOBM	<u>Lead</u> : 14.5 ppg				
				Angola Shale	4796	5421	1	POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc				
				Rhinestreet	5421	5837		EC1 + 0.75 gal/sk				
				Cashaqua	5827	5915	1	FP13L + 0.3% bwoc MPA170		casing, circulate at max allowable pump rate for at	Production casing = 0.361	
×	x		5-1/2" 20#	Middlesex	5915	5948	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		least 2x bottoms up, or until returns and pump	wall thickness Burst=12640 psi	
		8.5" Curve	P-110 HC	West River	5948	6003	12.5ppg	gal/sk FP13L + 50%		pressures indicate the hole	Note:Actual centralizer	
			CDC HTQ	Burkett	6003	6023	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	is clean. Circulate a minimum of one hole	schedules may be change due to hole conditions	
				Tully Limestone	6023	6050	1	20% Excess	1st 5.5" long joint to the	volume prior to pumping		
				Hamilton	6050	6163	1	Lead Yield=1.19 Tail Yield=1.94	top of the curve.	cement.		
			1	Marcellus	6163	6214	44.5	CTS				
		8.5" Lateral		TMD / TVD	14616	6200	11.5ppg- 12.5ppg SOBM					
×	×			Onondaga	6214							
		Alleman	A		X,		λ		<b>X</b>			
	LP @ 620	00' TVD / 7012' MD				ented Long 10 HC CDC			+/-760	94' ft Lateral	TD @ +/-6200' TVD +/-14616' MD	



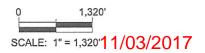
Area of Review for:

#### SHL27 PAD

SHL27 EHS Wellbore (47-051-01939) SHL27 JHS Wellbore (47-051-01816) SHL27 LHS Wellbore (47-051-01818)

Webster District, Marshall County, W.Va.

DATA SOURCE WVGES Data Disk - 2017



## List of Frac Additives by Chemical Name and CAS #

#### SHL27 JHS

Chemical Name	CAS#	Multiple CAS #'s
Chemical Name	CAS #	Widtiple CAS#3
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
DIO CIEAD 2000		25222 60 2
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
C. If	F220 44 C	
Sulfamic Acid	5329-14-6	-
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
DDOCEL 4	0000 30 0	
PROGEL - 4	9000-30-0	

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API Number 47 - <u>Sl</u> - <u>O 19 SY</u>
Operator's Well No. SHL27 JHS

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FEOIDS/ COTTINGS DISPOSAL & RECLAMATION FEAN	
Operator Name HG Energy II Appalachia, LLC OP Code 494519932	
Watershed (HUC 10) Wheeling Creek Quadrangle Majorsville	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No	
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: Closed loop - no utilization of a pit	
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	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, soap, KCl, barite	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_NA	
-Landfill or offsite name/permit number? Please 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.	CEIVED
Company Official Signature Diane While	f Oil and Ga
Company Official (Typed Name) Diane White	1 7 2017
Company Official Title Accountant WV De Environme	partment of ental Protect
Subscribed and sworn before me this 7th day of August , 20 17  Notary Public  My commission expires November 2, 2021  Notary Public States November 1, 2021	OF WEST VIRGINIA HALL LLC

Form WW-9			Operator's \	Well No. SHL27 JHS	
HG Energy II Appa	lachia, LLC				
roposed Revegetation Trea	atment: Acres Disturbed _	19.325	Prevegetation p	H 6.0	- 1
Lime3	Tons/acre or to corr	rect to pH 6.5	5		
Fertilizer type 10	-20-20 or equal	•			
Fertilizer amount_	500	lbs/acr	e		
Mulch_ Hay or S	Straw @ 2	Tons/acre			
		Seed Mix	ctures		
T	emporary		Perma	anent	
Seed Type Tall Fescue	lbs/acre 40		Seed Type Tall Fescue	lbs/acre 40	
Ladino Clover	5		Ladino Clover	5	
Photocopied section of invo		et.			
Plan Approved by:	in Vislos				-
Comments: Preseed a	and mulch all cut ar	ea, mainta	in E&S standards duri	ng entire operation.	
				REC	
				REC Office of (	
				AUG 1	7 20
Title: Of & Gas	luspe tor	I	Date: 8/8//7		7 20

## **Cuttings Disposal/Site Water**

#### **Cuttings** -Haul off Company:

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

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

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

#### **Disposal Locations:**

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

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

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

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

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

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 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 Office of Oil and Gas

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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 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961

#### Water Haul off Companies:

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

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

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

**Nuverra Environmental Solutions** 11942 Veterans Memorial Highway

Masontown, WV 26542

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

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

#### **Disposal Locations:**

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

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

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

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

Force, inc. 1380 Rte. 286 Hwy. E, Sulte 303 Indiana, PA 15701

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

**Equipment Transport** 1 Tyler Court Carlisle, PA 17015

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

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

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

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

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

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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 Bu keye UIC Barnesville 1 & 2 CNX Gas Com. any, 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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# HG Energy II Appalachia, LLC

# Site Safety Plan

SHL 27 Well Pad

672 Irish Ridge Road

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July 2017: Version 2

Cameron, WV

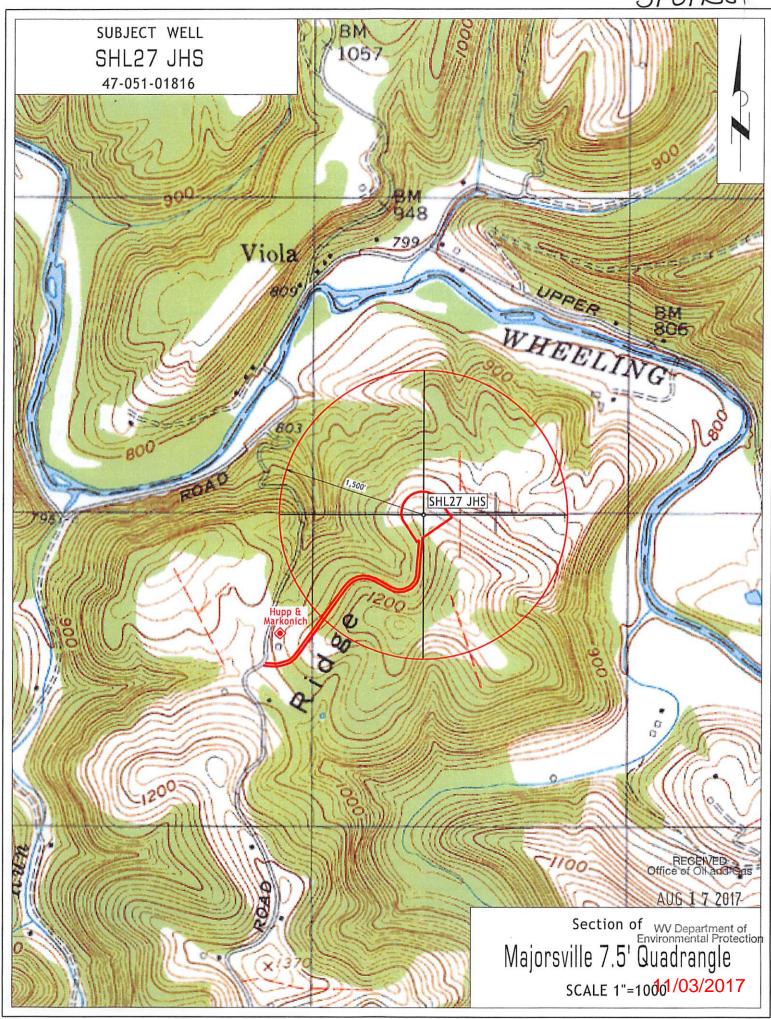
For Submission to West Virginia Department of Environmental Protection, Office of Oil and Gas

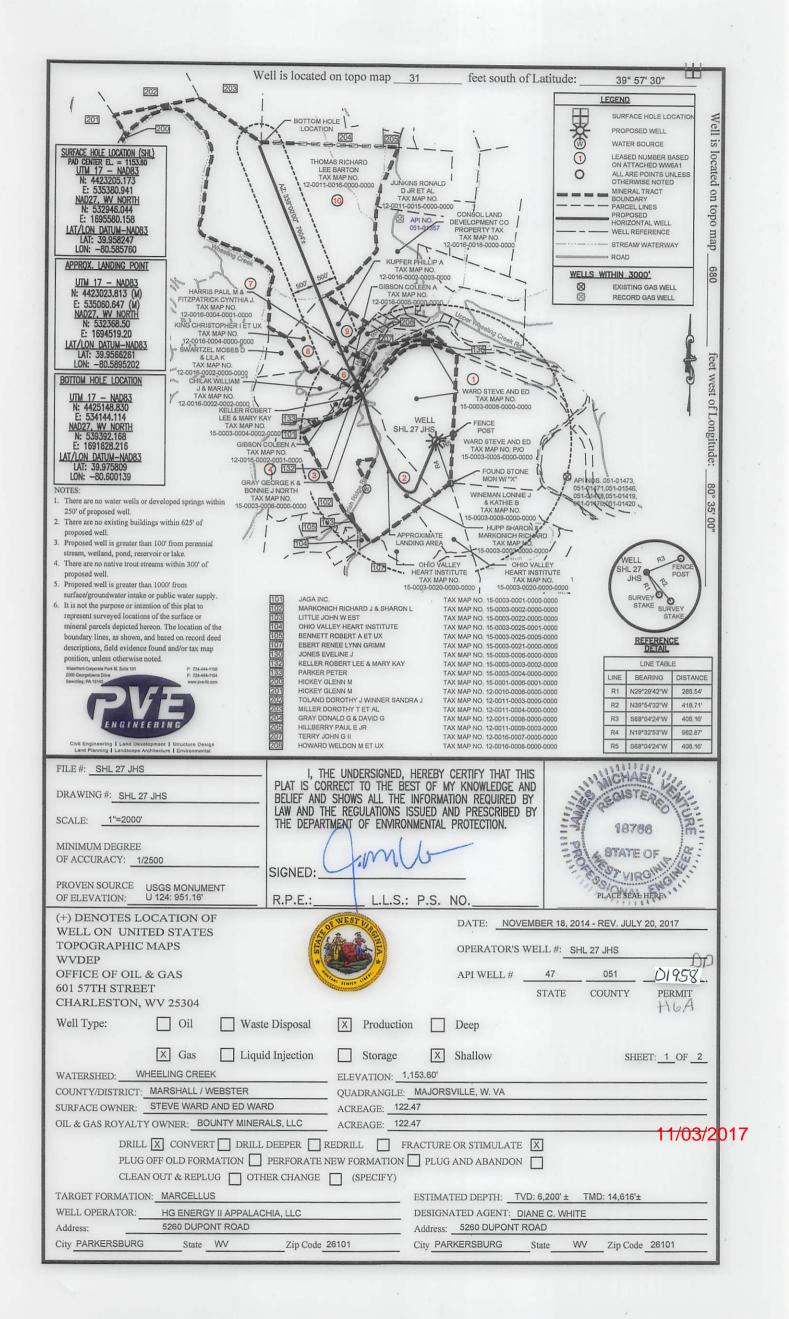
HG Energy II Appalachia, LLC

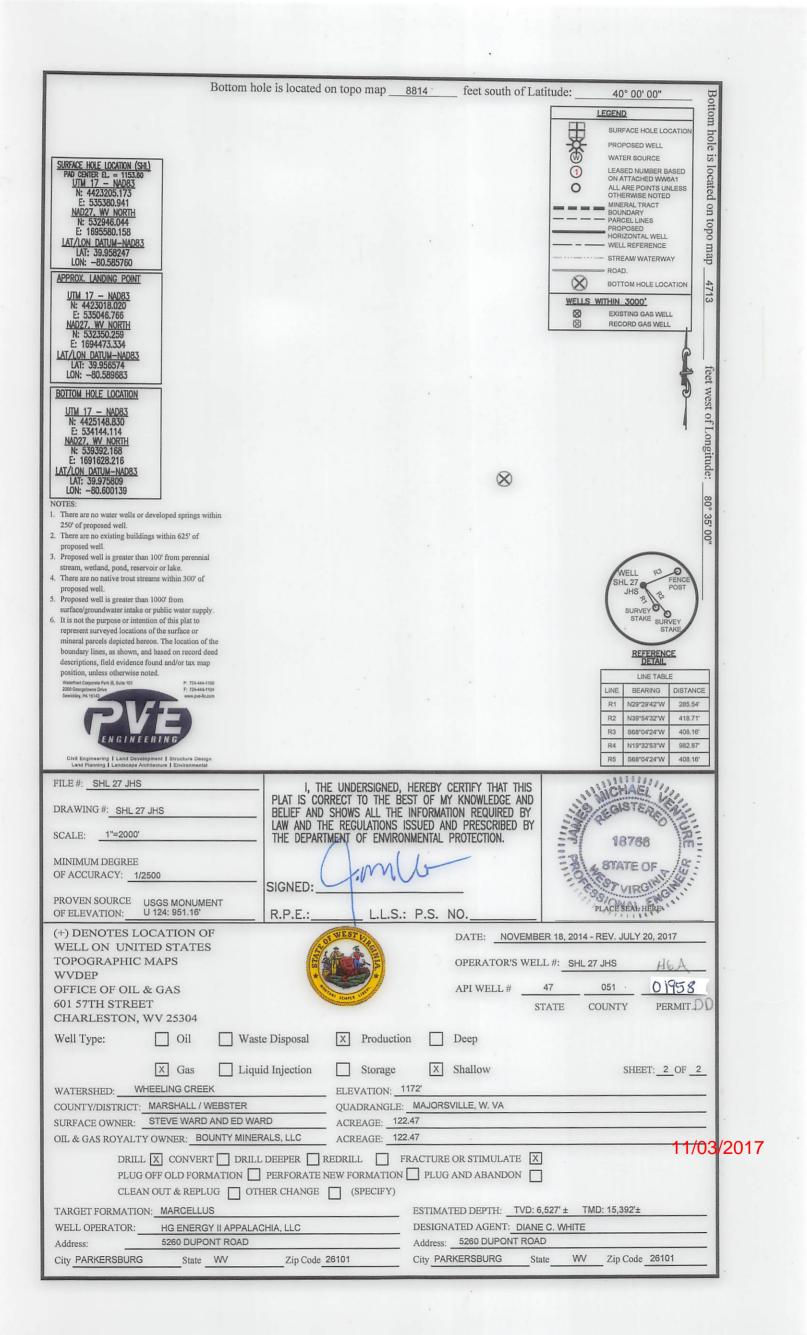
5260 Dupont Road

Parkersburg, WV 26101

51-019581







WW-6A	1
(5/13)	

Operator's	Well No.	SHL27 JHS	

# 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 Sheets\*\*

## 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

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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:	HG Energy II Appalachia, LLC				
By:	Diane White	Diane White			
Its:	Agent				

Page 1 of 2

## HG Energy II Appalachia LLC SHL27 JHS Lease Chain

CHEVERON U.S.A. INC. CHEVERON U.S.A. INC. CHEVERON U.S.A. INC. CHEVERON U.S.A. INC. ONSHORE PROPERTIES INC. BOUNTY MINERALS LIC CNX GAS COMPANY LIC NOBLE ENERGY INC  10 12-11-16-00 QO86883000 RICHARD LE BARTON THOMAS NOBLE ENERGY INC PHILLIP A KUPFER CHESAPEAKE APPALACHIA LIC CHEAPEAKE APPALACHIA LIC SWIN PRODUCTION COMPANY, LIC AND STATOIL USA ONSHORE PROPERTIES INC. CNX GAS COMPANY LIC NOBLE ENERGY INC  12-16-7.01 12-16-7.00 QO88410000 GO8940 HOLD  12-16-7.01 12-16-7.00 QO88410000 GO8940 HOLD CHEVERON U.S.A. INC. CHESAPEAKE APPALACHIA LIC AND STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LIC AND STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LIC AND STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LIC AND STATOIL USA ONSHORE PROPERTIES INC. CNX GAS COMPANY LIC NOBLE ENERGY INC PAUL M HARRIS ET AL COSSIL CREEK OHIO LIC GULPPORT EMERGY CORPERATION AND FOSSIL CREEK OHIO LIC NOBLE ENERGY INC CHESTOPHER I KING ET UX FOSSIL CREEK OHIO LIC CHESTOP	GRANTEE/LESSEE TRIENERGY HOLDINGS LLC TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. CHESAPEARE APPALACHIA LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC CHESAPEAKE APPALACHIA, LLC CHESAPEAKE APPALACHIA LLC STATOILHYDRO USA ONSHORE PROPERTIES INC. SWN PRODUCTION COMPANY, LLC NOBLE ENERGY INC HG ENERGY INC HG ENERGY INC HG ENERGY INC CHESAPEAKE APPALACHIA, LLC TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. ONSLE ENERGY INC HG H	NOT LESS THAN 1/8  NOT LESS THAN 1/8	DEED BOOK 709 709 7731 28 30 30 30 37 39 18D 677 21 33 35 37 39 677 21 33 37 39 711 28 30 30 30 30 30 32 32 34 39 828 31 32 34 39	PAGE 67 37 67 37 36 37 37 37 57 57 57 57 57 57 57 57 57 57 57 57 57
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9 12-16-2.3 Q098258000 NOBLE ENERGY INC PHILLIP A KUPFER CHESAPEAKE APPALACHIA LLC ONSHORE PROPERTIES INC. CNX GAS COMPANY LLC NOBLE ENERGY INC 10CHY FRONT U.S.A. INC. CHEVERON U	HIG ENERGY II APPALACHIA, LLC CHESAPEAKE APPALACHIA LLC STATOILHYDRO USA ONSHORE PROPERTIES INC. SWN PRODUCTION COMPANY, LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY II APPALACHIA, LLC TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LLC NOBLE ENERGY INC HIG ENERGY II CAND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY II CAND CNX GAS COMPANY LLC NOBLE ENERGY INC CHE SOURCES, LLC GULPPORT ENERGY CORPERATION NOBLE ENERGY INC MG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULPFORT ENERGY CORPERATION NOBLE ENERGY INC MG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8  NOT LESS THAN 1/8  NOT LESS THAN 1/8	39 677 21 33 35 37 39 711 28 30 30 30 30 32 33 39 30 30 30 30 31 32 33 34 35 36 37 39 30 30 30 30 30 30 30 30 30 30	1 221 5565 1110 426 169 1 507 356 494 532 526 169 1 329 585 192
9 12-16-2.3 Q098258000 SWN PRODUCTION COMPANY, LIC AND STATOIL USA ONSHORE PROPERTIES INC. CNX GAS COMPANY LIC NOBLE ENERGY INC  12-16-7.01 12-16-7.00 Q088410000 CHEVERON U.S.A. INC. CNX GAS COMPANY LIC NOBLE ENERGY FROM U.S.A. INC. CHEVERON U.S.A. INC. CHEVERO	CHESAPEAKE APPALACHIA LLC STATOILHYDRO USA ONSHORE PROPERTIES INC. SWW PRODUCTION COMPANY, LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY ILC CHEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY INC HIG ENERGY INC HIG ENERGY INC HIG ENERGY INC GENERGY INC STATOIL USA GENERGY INC HIG ENERGY	NOT LESS THAN 1/8	677 21 33 35 37 39 7/11 28 30 30 30 32 37 39 828 31 32 34	565 110 426 169 1 1 507 356 494 532 526 169 1 1 329 585 192
9 12-16-2.3 QO98258000 SWN PRODUCTION COMPANY, LIC AND STATOIL USA ONSHORE PROPERTIES INC. CHA CAS COMPANY LIC NOBLE ENERGY INC ON GAS COMPANY LIC ON U.S.A. INC. ON CHEVERON U.S.A. INC. ON GAS COMPANY LIC ON GAS COMPANY LIC NOBLE ENERGY INC ON GAS COMPANY LIC ON GAS COMPANY LIC NOBLE ENERGY INC ON GAS COMPANY LIC ON	STATOLINTORO USA ONSHORE PROPERTIES INC. SWIN PRODUCTION COMPANY, LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY INC HIG ENERGY INC HIG ENERGY INC HIS ENERGY HAPPALACHIA, LLC TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. STATOLI USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY INC HIG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC GULFPORT ENERGY CORPERATION NOBLE ENERGY INC HIG ENERGY HIG ENERG	NOT LESS THAN 1/8	21 33 35 37 39 711 28 30 30 30 30 37 39 828 31 32 34 39	565 110 426 169 1 1 507 356 494 532 526 169 1 1 329 585 192
9 12-16-2.3 Q098258000 CHESAPEAK APPALACHIA LLC SWN PRODUCTION COMPANY, LLC AND STATOIL USA ONSHORE PROPERTIES INC. CNX GAS COMPANY LLC NOBLE ENERGY INC  12-16-7.01 12-16-7.00 Q088410000 CHEVERON U.S.A. INC. CHEVERON U.	SWN PRODUCTION COMPANY, LLC  NOBLE ENERGY INC AND CNX GAS COMPANY LLC  NOBLE ENERGY INC  HE ENERGY IN APPALACHIA, LLC  TRIENERGY HOLDINGS LLC  CHEVERON U.S.A. INC.  STATOL U.S.A. ONS.  STATOL U.S.A. ONS.  CHESAPEAKE APPALACHIA LLC  NOBLE ENERGY INC AND CNX GAS COMPANY LLC  NOBLE ENERGY INC AND CNX GAS COMPANY LLC  NOBLE ENERGY INC  HE ENERGY INC  HE ENERGY INC  GENERGY II APPALACHIA, LLC  FOSSIL CREEK OHIO LLC  IRONHEAD RESOURCES, LLC  GULFPOAT ENERGY CORPERATION  NOBLE ENERGY INC  HG ENERGY II APPALACHIA, LLC  FOSSIL CREEK OHIO LLC  IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	33 35 37 39 711 28 30 30 30 30 32 37 39 828 31 32 34	110 426 169 1 507 356 494 532 526 169 1 329 585 192
9 12-16-2.3 Q098258000 SWN PRODUCTION COMPANY, LIC AND STATOIL USA ONSHORE PROPERTIES INC. CNX CAS COMPANY LIC NOBLE ENERGY INC JOHN G TERRY  12-16-7.01 12-16-7.00 Q088410000 CHEVRON U.S.A. INC. CHEVERON U.S.A. INC. CHEVERON U.S.A. INC. CNESAPEAKE APPALACHIA LIC AND STATOIL USA ONSHORE PROPERTIES INC. CNX CAS COMPANY LIC NOBLE ENERGY INC PAUL M HARRIS ET AL FOSSIL CREEK OHIO LIC GULPFORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LIC CHEVERON U.S.A. INC. CNX CAS COMPANY LIC NOBLE ENERGY INC CONTROL CREEK OHIO LIC CONTROL CREEK OHIO LIC CONTROL CREEK OHIO LIC CONTROL CREEK OHIO LIC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LIC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LIC	NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY IN APPALACHIA, LLC TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULPPORT ENERGY CORPERATION NOBLE ENERGY INC HIG ENERGY IN APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	35 37 39 7711 28 30 30 30 32 37 39 828 31 32 34 39	426 169 1 507 356 494 532 526 169 1 329 585 192
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CNX GAS COMPANY LLC NOBLE ENERGY INC JOHN G TERRY TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC.	NOBLE ENERGY INC MIG ENERGY II APPALACHIA, LLC TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. STATOLL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LLC NOBLE ENERGY INC AND CNIX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULFPORT ENERGY CORPERATION NOBLE ENERGY INC MIG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GUIFFORT ENERGY INC MIG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	37 39 711 28 30 30 30 32 37 39 828 31 32 34	169 1 507 356 494 532 526 169 1 329 585 192
NOBLE ENERGY INC  JOHN G TERRY TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. CHEVERON U.S.A. IN	HG ENERGY II APPALACHIA, LLC TRIENERGY HOLDINGS LLC CRIEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIC CREEK OHIO LLC IRONNEAD RESOURCES, LLC GULFPORT ENERGY CORPERATION NOBLE ENERGY INC HG ENERGY INC HG ENERGY IN APPALACHIA, LLC FOSSIC CREEK OHIO LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	39 711 28 30 30 30 37 39 32 828 31 32 34	1 507 356 494 532 526 169 1 329 585 192
JOHN G TERRY TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. CHEVERON INC.  7  12-16-4.1  Q095561000  Q095561000  QUIPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LLC NOBLE ENERGY INC CHESTOPHER I KING ET UX FOSSIL CREEK OHIO LLC CHESTOPHER I KING ET UX FOSSIL CREEK OHIO LLC	TRIENERGY HOLDINGS LLC CHEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA LLC NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HIG ENERGY ILC HIG ENERGY ILC GULFOAT ENPAPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULFPOAT ENERGY CORPERATION NOBLE ENERGY INC HIG ENERGY IN APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULFOAT ENERGY IN APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	28 30 30 37 37 39 828 31 32	356 494 532 526 169 1 329 585 192
TRIENERGY HOLDINGS LLC (CHEVERON U.S.A. INC.	CHEVERON U.S.A. INC. STATOIL USA ONSHORE PROPERTIES INC. CHESAPEAKE APPALACHIA ILC  NOBLE ENERGY INC AND CNX GAS COMPANY ILC NOBLE ENERGY INC HG ENERGY II APPALACHIA, ILC FOSSIL CREEK ONIO ILC IRONHEAD RESOURCES, ILC GULFPORT ENERGY CORPERATION  NOBLE ENERGY INC HG ENERGY IN APPALACHIA, ILC FOSSIL CREEK ONIO ILC IRONHEAD RESOURCES, ILC IRONHEAD RESOURCES, ILC	NOT LESS THAN 1/8	28 30 30 37 37 39 828 31 32	356 494 532 526 169 1 329 585 192
12-16-7.01  12-16-7.00  OOE8410000  OOE8410000  OOESAPEAKE APPALACHIA LLC AND STATOKL USA ONSHORE PROPERTIES INC. ONX GAS COMPANY LLC NOBLE ENERGY INC  TOUR CAS COMPANY LLC NOBLE ENERGY INC  PAUL M HARRIS ET AL FOSSIL CREEK OHIO LLC GULPPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LLC OHIO LLC NOBLE ENERGY INC  CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LLC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LLC	CHESAPEAKE APPALACHIA LLC  NOBLE ENERGY INC AND CNX GAS COMPANY LLC  NOBLE ENERGY INC  HG ENERGY II APPALACHIA, LLC  FOSSIL CREEK OHIO LLC  IRONHEAD RESOURCES, LLC  GULFPORT ENERGY CORPERATION  NOBLE ENERGY INC  HG ENERGY II APPALACHIA, LLC  FOSSIL CREEK OHIO LLC  IRONHEAD RESOURCES, LLC		30 32 37 39 828 31 32 34	532 526 169 1 329 585 192
12-16-7.01  12-16-7.00  QOE8410000  GOE8410000  GOE8410000  GOE8410000  GOE8410000  GOE8410000  GOE8410000  GOE961000  PAUL MARGIS ET AL FOSSIL CREEK OHIO LLC GULPPORT ENERGY LORD LLC GULPPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LLC GULPPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LC GULPPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LC GULPPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LC GULPPORT ENERGY CORPERATION CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LC	NOBLE ENERGY INC AND CNX GAS COMPANY LLC NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK ONIO LLC IRONNEAD RESOURCES, LLC GULFPORT ENERGY CORPERATION NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK ONIO LLC IRONNEAD RESOURCES, LLC		32 37 39 828 31 32 34	526 169 1 329 585 192
ONSKORE PROPERTIES INC.  CNX GAS COMPANY LLC  NOBLE ENERGY INC  PAUL M HARRIS ET AL  FOSSI. CREEK OHIO LLC  GULFPORT ENERGY CONPERATION AND FOSSIL CREEK  OHIO LLC  NOBLE ENERGY INC  (CHRISTOPHER I KING ET UX  FOSSI. CREEK OHIO LLC  CHRISTOPHER I KING ET UX  FOSSI. CREEK OHIO LC	NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULFPORT ENERGY CORPERATION  NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC		37 39 828 31 32 34	169 1 329 585 192
CNX GAS COMPANY LLC NOBLE ENERGY INC PAUL M HARRIS ET AL FOSSIL CREEK OHIO LLC FOSSIL CREEK OHIO LLC GUEPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LLC NOBLE ENERGY INC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LLC	NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULFPORT ENERGY CORPERATION  NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC		37 39 828 31 32 34	169 1 329 585 192
NOBLE ENERGY INC PAUL M HARRIS ET AL FOSSIL CREEK OHIO LIC FOSSIL CREEK OHIO LIC GULFPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LIC NOBLE ENERGY INC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LIC	HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC GULFPORT ENERGY CORPERATION NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC		39 828 31 32 34 39	1 329 585 192
PAUL M HARRIS ET AL FOSSIL CREEK OHIO LLC FOSSIL CREEK OHIO LLC GULPPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LLC NOBLE ENERGY INC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LLC	FOSSIL CREEK OHIO LIC IRONHEAD RESOURCES, LIC GUIFPORT ENERGY CORPERATION NOBLE ENERGY INC MG ENERGY II APPALACHIA, LIC FOSSIL CREEK OHIO LIC IRONHEAD RESOURCES, LIC		828 31 32 34 39	585 192
7 12-16-4.1 Q095561000 GUEPORT EREK OHIO LIC GUEPORT EREK OHIO LIC GUEPORT ERERGY CORPERATION AND FOSSIL CREEK OHIO LIC OHIO LIC OHIO LIC NOBLE ENERGY INC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LIC	IRONHEAD RESOURCES, LLC GULFPOAT ENERGY CORPERATION  NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC		31 32 34 39	585 192
7 12-16-4.1 0095561000 FOSSIL CREEK OHIO LLC GULFPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LLC NOBLE ENERGY INC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LLC	GULFPORT ENERGY CORPERATION  NOBLE ENERGY INC  MG ENERGY II APPALACHIA, LLC  FOSSIL CREEK OHIO LLC  IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	32 34 39	192
7 J 12-16-4.1 Q099561000 GULFPORT ENERGY CORPERATION AND FOSSIL CREEK OHIO LLC NOBLE ENERGY INC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LLC	NOBLE ENERGY INC NG ENERGY II APPALACHIA, LLC FOSSI. CREEK OHIO LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	34 39	
OHIO LLC NOBLE ENERGY INC CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LLC	HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	39	498 1
NOBLE ENERGY INC  CHRISTOPHER I KING ET UX FOSSIL CREEK OHIO LIC	HG ENERGY II APPALACHIA, LLC FOSSIL CREEK OHIO LLC IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	39	1
/ FOSSIL CREEK OHIO LLC	IRONHEAD RESOURCES, LLC	NOT LESS THAN 1/8	821	
	IRONHEAD RESOURCES, LLC	1		169
learn meet annue			31	585
8 12-16-4.0 Q095555000 FOSSIL CREEK OHIO LLC	GULFPORT ENERGY CORPERATION		32	192
GULFFORT ENERGY CORPERATION AND FOSSIL CREEK				
онюцс	NOBLE ENERGY INC		34	498
NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		39	1
COLEEN A GIBSON	FOSSIL CREEK OHIO LLC	NOT LESS THAN 1/8	821	167
FOSSIL CREEK OHIO LLC FOSSIL CREEK OHIO LLC	IRONHEAD RESOURCES, LLC GULFPORT ENERGY CORPERATION		31 32	585 307
6 12-16-5.0 Q095557000 GULFPORT ENERGY CORPERATION AND FOSSIL CREEK	district Energy Conference	1	32	307
OHIOLLC	NOBLE ENERGY INC		34	498
NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	1	39	1
GEORGE K GRAY ET AL	TRIENERGY HOLDINGS LLC	NOT LESS THAN 1/8	742	69
TRIENERGY HOLDINGS LLC	CHEVERON U.S.A. INC.		28	356
CHEVERON U.S.A. INC.	STATOIL USA ONSHORE PROPERTIES INC.		30	494
	CHESAPEAKE APPALACHIA LLC	1	30	532
CHESAPEAKE APPALACHIA LLC AND STATOIL USA	l	1	1	1
ONSHORE PROPERTIES INC.	NOBLE ENERGY INC AND CNX GAS COMPANY LLC		32	526
CNX GAS COMPANY LLC	NOBLE ENERGY INC		37	169
NOBLE ENERGY INC ROBERT LEE KELLER ET UX	HG ENERGY II APPALACHIA, LLC CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	700	197
	STATOIL USA ONSHORE PROPERTIES INC.	TO LESS IMAN 1/B	801	206
CHESAPEAKE APPALACHIA LI C AND STATOLI LISA	The state of the s		l	<u> </u>
	NOBLE ENERGY INC AND CNX GAS COMPANY LLC		32	526
CNX GAS COMPANY LLC	NOBLE ENERGY INC	I	37	169
NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		39	1
MARILYN IZZI	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	801	212
MICHAEL LIVINGSTON ET UX	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/B	810	9
CLYDE S OLK IR	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	812	398
KAROLE ANN STRACHAN ET VIR	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	806	493
PATRICIA APRIL FISHER	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/B	812	404
LINDA MARIE OLK	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	822	581
PAUL D LIVINGSTON ET UX JERRY B LIVINGSTON-JOY ET UX	CHESAPEAKE APPALACHIA LLC CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8	808 808	568 575
Q086691003 SUSAN E LIVINGSTON BARKER ET VIR	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	802	219
2 & 4 15-3-3.2 & 3 THROUGH JUDITH ANNE CRITES ET VIR	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	802	213
Q086691016 THEODORE F LIVINGSTON ET UX	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	806	481
RANDAL G LIVINGSTON	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	806	487
GARY LIVINGSTON ET UX	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	806	475
	CHESAPEAKE APPALACHIA LLC	NOT LESS THAN 1/8	801	206
	STATOIL USA ONSHORE PROPERTIES INC.	1	801	206
CHESAPEAKE APPALACHIA LLC AND STATOIL USA		1	l.,	l
	NOBLE ENERGY INC AND CNX GAS COMPANY LLC	1	32	526
	NOBLE ENERGY INC HG ENERGY II APPALACHIA, LLC	I	37 39	169
CWARCH HURD ST 41	INOBLE ENERGY INC	NOT LESS THAN 1/8	851	400
2 & 4 15-3-3.2 & 3 Q086691018 NOBLE ENERGY INC	ING ENERGY IN APPALACHIA, LLC	1001 CE33 ITIAN 1/8	39	1

RECEIVED Office of Oil and Gas

AUG 17 2017



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

August 11, 2017

Laura Adkins WV DEP Division of Oil & Gas 601 57<sup>th</sup> Street Charleston, WV 25304

RE:

Drilling Under Roads - SHL27 JHS Webster District, Marshall County

West Virginia

west viigilit

Dear Ms. Adkins:

HG Energy II Appalachia, 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 further information, please contact me at <a href="mailto:dwhite@hgenergyllc.com">dwhite@hgenergyllc.com</a> or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

AUG 1 7 2017

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

Date of Notic	e Certification: 08/14/2017	A	API No. 47- <u>(</u>	0-130	1958
		O	operator's We	ell No. <u>Sh</u> L	27 JHS
		v	Vell Pad Nam	e: SHL27	
Notice has b					
	e provisions in West Virginia Code	§ 22-6A, the Operator has provide	ded the require	ed parties	with the Notice Forms listed
State:	tract of land as follows: West Virginia	1	lacting: 50	35,381.6	
County:	Marshall			23,214.4	
District:	Webster	Public Road Acces		h Ridge Road	<u> </u>
Quadrangle:	Majorsville	Generally used farm		eve and Ed W	
Watershed:	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 tender that the notice requirement to the notice requirement that the notice require					
	rator has properly served the require			lication	
*PLEASE CHE	CK ALL THAT APPLY				OOG OFFICE USE ONLY
□ 1. №	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURVEY	Y WAS CONI	DUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY (PLEASE ATTACH)			
■ 4. NO	TICE OF PLANNED OPERATION	O	RECEIVED ffice of Oil and	Gas	☐ RECEIVED
■ 5. PUB	BLIC NOTICE		AUG 17 20		☐ RECEIVED
■ 6. NOT	TICE OF APPLICATION	Er	WV Departmental P	<sub>ent</sub> of rotection	☐ 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.

WW-6AC (1/12)

#### Certification of Notice is hereby given:

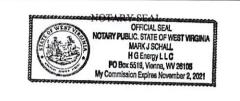
THEREFORE, I Diane White , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered 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.

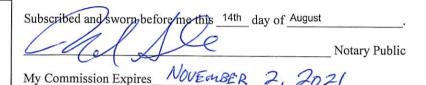
 Well Operator:
 HG Energy II Appalachia, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

 Telephone:
 304-420-1119
 Email:
 dwhite@hgenergyllc.com





#### 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 <a href="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

RECEIVED Office of Oil and Gas

AUG 1 7 2017

API NO. 47-05 1 - 01958

OPERATOR WELL NO. SHL27 JHS

Well Pad Name: SHL27

# 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: 8/14/2017 Date Permit Application Filed: 8/15/2017 Notice of: PERMIT FOR ANY CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ☐ PERSONAL METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R: § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE ☐ SURFACE OWNER(s) Name: Consolidation Coal Company (Murray Energy) Attn: Alex O'Neill Name: Steve and Ed Ward Address: 46226 National Road Address: 50 California Street Farmersville, OH 45325 St. Clairsville, Ohio 43950 COAL OPERATOR Name: Name: same as above Address: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Richard Markonich and Sharon Hupp ☐ SURFACE OWNER OF WATER WELL Name: Address: 614 Irish Ridge Road AND/OR WATER PURVEYOR(s) Cameron, WV 26033 Name: None within 1500' Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: none RECEIVED Office of Oil and Gas Address: Name: Address: AUG 1 7 2017 \*Please attach additional forms if necessary

WW-6A (8-13)

RECEIVED Office of Oil and Gas

AUG 1 7 2017

API NO. 47- 051- 019 OPERATOR WELL NO. SHL27 JHS Well Pad Name: SHL27

Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

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

API NO. 47-051-01958

OPERATOR WELL NO. SHL27 JHS

Well Pad Name: SHL27

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 and Gas 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

AUG 1 7 2017

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-25) - 01958

OPERATOR WELL NO. SHL27 JHS

Well Pad Name: SHL27

#### 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.

RECEIVED Office of Oil and Gas

AUG 1 7 2017

WW-6A API NO. 47-(8-13)OPERATOR WELL NO. SHL27 JHS Well Pad Name: SHL27 Notice is hereby given by: Well Operator: HG Energy II Appalachia, LLC Diane White Address: 5260 Dupont Road 304-420-1119 Parkersburg, WV 26101 Telephone: Facsimile: 304-363-3172 Email: dwhite@hgenergyllc.com Oil and Gas Privacy Notice:

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



Subscribed and sworn before methis 14th day of August ,2017

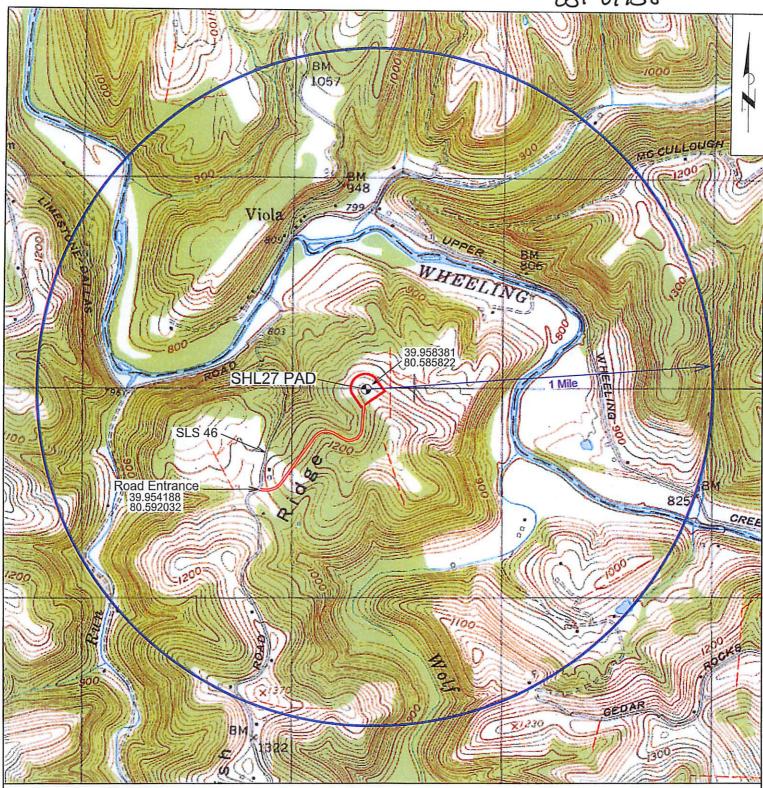
Notary Public

My Commission Expires 11/2/2021

RECEIVED
Office of Oil and Gas

OCT 2 4 2017

051-01958



#### WELL SITE SAFETY PLAN FOR:

## SHL27 PAD

Webster District, Marshall County, W.Va.

#### TOPOGRAPHIC MAP

Majorsville 7.5' Quadrangle



## Reclamation Plan For: SHL27 PAD Existing Steve Ward & SHL27 PAD Ed Ward - Surface SHL27 LHS (47-051-01818) SHL27 JHS (47-051-01816) 450° **ROVER PIPELINE** (Under Construction) Steve Ward & Ed Ward Sharon Hupp & Richard Markonich - Surface - Surface ~2,000' of 0-5% Grade ~500' of 10-12% Grade 0.5 Mi. of Existing Stoned Access Road Ohio Valley Heart Institute - Surface RECEIVED Office of Oil and Gas AUG 1 7 2017 Notes: WV Department of Environmental Protection REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELL. ALL ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS.

- ONLY MINIMAL EARTHWORK WILL BE REQUIRED TO COMPLETE PROPOSED WELL WORK. SEE ENGINEERED DRAWING THAT ACCOMPANIES THIS PERMIT PACKAGE FOR ADDITIONAL DETAIL.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- NO DRILL PIT WILL BE CONSTRUCTED AND A CLOSED LOOP SYSTEM WILL BE UTILIZED TO HANDLE DRILL CUTTINGS.
- DRAWING NOT TO SCALE.

#### NOTE

REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPS CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

11/03/2017

WW-6A4 (1/12) Operator Well No. SHL 27 JHS

# 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 Re Date of Notice:	equirement: Notice shall be provided at lea	st TEN (10) days prior to filing a p Application Filed: 07/31/0217	permit application.
Delivery metho	od pursuant to West Virginia Code § 22-6	A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVER		STED	
receipt requested drilling a horizo of this subsection subsection may	Va. Code § 22-6A-16(b), at least ten days p d or hand delivery, give the surface owner is ontal well: <i>Provided</i> , That notice given pure as of the date the notice was provided to be waived in writing by the surface owner. facsimile number and electronic mail address.	notice of its intent to enter upon the suant to subsection (a), section tenthe surface owner: <i>Provided, howe</i> . The notice, if required, shall inclu	e surface owner's land for the purpose of a of this article satisfies the requirements ever, That the notice requirements of this de the name, address, telephone number,
Notice is here	by provided to the SURFACE OWNI	$\mathbf{E}\mathbf{R}(\mathbf{s})$ :	/
Name: Steve an	nd Ed Ward	Name: Sharon Hupp and F	
Address: 500 Cal		Address: 614 Irish Ridge Roa	
Farmers	sville, OH 45325	Cameron, WV 2603	3
the surface owner  State:   County:   District:   Quadrangle:   M	st Virginia Code § 22-6A-16(b), notice is her's land for the purpose of drilling a horizon Vest Virginia  Marshall  Vebster  Majorsville  Vheeling Creek (HUC 10)	urtal well on the tract of land as fol  UTM NAD 83  Public Road Access:	
This Notice SI Pursuant to We facsimile number related to horize	hall Include: est Virginia Code § 22-6A-16(b), this not er and electronic mail address of the oper ontal drilling may be obtained from the Se 7 <sup>th</sup> Street, SE, Charleston, WV 25304 (304)	rator and the operator's authorized cretary, at the WV Department of	d representative. Additional information Environmental Protection headquarters,
	HG Energy II Appalachia, LLC	Authorized Representative:	Diane White
Address:	5260 Dupont Road	Address:	5260 Dupont Road RECEIVED
	Parkersburg, WV 26101	_	Parkersburg, WV 26101 Office of Oil and Gas
Telephone:	304-420-1119	Telephone:	304-420-1119 ALIG 1 7 2017
Email:	dwhite@hgenergyllc.com	Email:	dwhite@hgenergyllc.com
Facsimile:	304-863-3172	Facsimile:	304-863-3172 WV Department of Environmental Protection
			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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Operator Well No. SHL27AB.CD.E.H.J.KLMN.O

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

## **WAIVER**

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.

Surface Own	ıer Waiver:			
I, Ed Ward	, hereby sta	te that I have read the notice pro	ovisions listed	l above and hereby waive the
notice require		Code § 22-6A-16(b) for the trace		
State:	West Virginia	UTM NAD 83	Easting:	535,381.6
County:	Marshall	UTM NAD 83	Northing:	4,423,214.4
District:	Webster	Public Road Acc	cess:	SLS 46
Quadrangle:	Quadrangle: Majorsville		farm name:	
Watershed: Wheeling Creek				
			01	
Name: Ed War	rd	Signature:	المث	Ward
Address: 51 S	. Taylor St.			
Farmersville, OH 45325		Date:	-17-3	<b>4011</b>

#### 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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

RECEIVED Office of Oil and Gas

AUG 1 7 2017

Operator Well No. SHL27AB,CD,EHJKLMM,O

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

## <u>WAIVER</u>

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.

Surface Own I, Steve Ward notice require	, here	y state that I have read the notice proint of the tract		
State:	West Virginia	LITTA ALA DO GO	Easting:	535,381.6
County:	Marshall	UTM NAD 83	Northing:	4,423,214.4
District:	Webster	Public Road Acc	ess:	SLS 46
Quadrangle: Majorsville Watershed: Wheeling Creek		Generally used fa	arm name:	
Name: Steve Ward Address: 50 California St, Farmersville, OH 45325		Signature: Date:	Steve 7-14.	Ward -17

#### 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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

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Office of Oil and Gas

AUG 1 7 2017

WW-6A4W (1/12)

Operator Well No. SHL27AB,CD,E,H,J,K,L,M,N,O

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Surface Own	ner Waiver:			
I, Sharon Hupp	, hereby state that I	have read the notice pro	ovisions listed	d above and hereby waive the
notice require	ements under West Virginia Code § 22			
State:	West Virginia	— UTM NAD 83	Easting:	535,381.6
County:	Marshall	— UTMINAD 83	Northing:	4,423,214.4
District:	Webster	Public Road Acc	cess:	SLS 46
Quadrangle:	Majorsville	Generally used f	farm name:	
Watershed:	Wheeling Creek			
Name: Sharon	Нирр	Signature:	Shar	in Supp
Address: 17 El		orginara.		
Wheeling, WV 26		Date:	Stuly	1/2,2017

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AUG 1 7 2017

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Surface Own I, Rick Markonich notice require	The second secon			I above and hereby waive the llows:
State: County: District: Quadrangle: Watershed:	West Virginia  Marshall  Webster  Majorsville  Wheeling Creek	UTM NAD 83 Public Road Acc Generally used to		535,381.6 4,423,214.4 SLS 46
Name: Rick Markonich Address: 614 Irish Ridge Rd. Cameron, WV 26033		Signature:	Rick ,	Markonich

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AUG 17 2017

WW-6A5 (1/12)

Operator Well No. SHL27 JHS

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

	e Time Roof Notice:	equirement: notice shall be provided no  07/17/2017 Date Permit App	later than the filing olication Filed: 07/3		application.	
Delivery method pursuant to West Virginia Code § 22-6A-16(c)						
	CERTIFII RETURN		HAND DELIVERY			
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.						
(at the Name	address I : Steve a ess: 500 Cal	y provided to the SURFACE OWNER isted in the records of the sheriff at the tirnd Ed Ward ifornia Street sville, OH 45325	ne of notice): Name: _	Sharon Hupp and 614 Irish Ridge Ro Cameron, WV 260	pad	
Pursua	ion on the	y given: st Virginia Code § 22-6A-16(c), notice is e surface owner's land for the purpose of Vest Virginia	drilling a horizonta	l well on the tra		
Count	y: <u>N</u>	1arshall	UTM NAD 8.	Northing:	4,423,214.4	
Distri		Vebster	_ Public Road A		Irish Ridge Road	
	_	Majorsville	_ Generally use	ed farm name:	Steve and Ed Ward	
Pursua to be horized surface inform headq gas/pa	Notice Shant to West provided ontal well; e affected nation relauarters, longes/defau	by W. Va. Code § 22-6A-10(b) to a su and (3) A proposed surface use and com by oil and gas operations to the extent atted to horizontal drilling may be obtain ocated at 601 57 <sup>th</sup> Street, SE, Charles	rface owner whose pensation agreementhe damages are co- ed from the Secret	land will be unt containing an ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting	

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DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

AUG 1 7 2017

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#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

July 27, 2017

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

Subject: DOH Permit for the SHL-27 Well Pad, Marshall County

47-051-01958

Dear Mr. Martin,

Jim Justice

Governor

The West Virginia Division of Highways has transferred Permit #06-2014-0641 for the subject site to H.G. Energy, LLC for access to the State Road for the well sites located off of Marshall County Route 48 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton P.E. Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

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AUG 1 7 2017

WV Department of Environmental Protection

Cc: Matthew J. McGuire HG Energy, LLC CH, OM, D-6 File

## List of Frac Additives by Chemical Name and CAS #

#### SHL27 JHS

Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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AUG 1 7 2017



LOCATION MAP

**EXISTING API NUMBERS** 47-051-01791

#### PROPERTY OWNERS

- I. STEVE AND ED WARD 15-3-5 50 CALIFORNIA ST FARMERSVILLE, OH 45325
- 2. SHARON HUPP AND RICHARD MARKONICH 15-3-3 614 IRISH RIDGE RD CAMERON, WV 26033

**WVDEP OOG ACCEPTED AS-BUILT** 

9 / 28 / 2017



HG ENERGY II APPALACHIA LLC **5260 DUPONT ROAD** PARKERSBURG, WV 26101 (304) 420-1100 MAIN OFFICE (304) 863-3172 FAX

## SHL27 WELL SITE

#### WELL SITE LOCATION

NAD 83 - LAT: N 39°57'30.171": LONG: W 80°35'08.959" NAD 27 - LAT: N 39°57'29.899"; LONG: W 80°35'09.687"

#### ENTRANCE LOCATION

NAD 83 - LAT: N 39°57'15.078"; LONG: W 80°35'31.316" NAD 27 - LAT: N 39°57'14.806"; LONG: W 80°35'32.043"

> MAJORSVILLE QUADRANGLE MARSHALL COUNTY, WEST VIRGINIA DATE: JULY 28, 2015



Engineers and Land Surveyors 11023 Mason Dixon Hwy. Burton, WV 26562-9656 (304) 662-6486

NOTE: DRAWING WAS CREATED ON 22X34 PAPER, 11X17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.



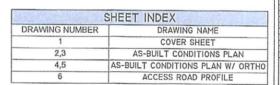
LOCATION MAP HAJORSVILLE 7.5H USGS QUALIFANCE



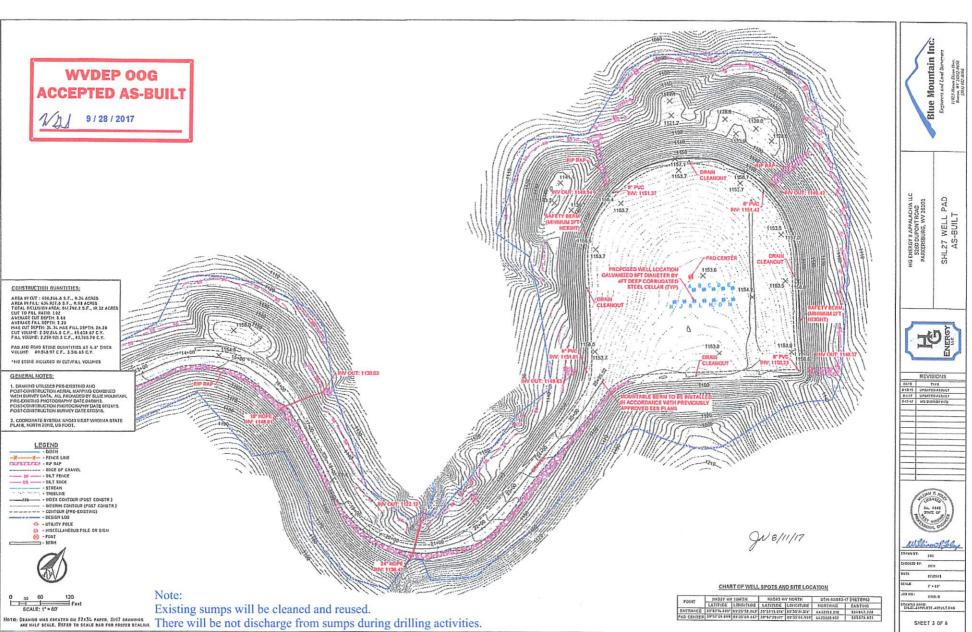


Slue Mountain In

AS SHOWN DIAMNS HAME: SHED\_COPPLETE\_ADVANCES SHEET LOF 6



JN 8/11/17



51-01958