

west virginia department of environmental protection

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

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

Thursday, June 27, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for MND23 N-4H

47-051-02218-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: MND23 N-4H

Farm Name: HG ENERGY II APPALACHLA

U.S. WELL NUMBER: 47-051-02218-00-00

Horizontal 6A New Drill Date Issued: 6/27/2019

API Number: 41 051 02218

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 47 05/ 022/8

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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47	
OPERATOR WELL	NO. MND23 N-4H
Well Pad Name:	MND23

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

1) Well Operator:	HG Energy	II Appalaci	nia, 📙	494519932	Marshall	Franklin	Powhatan Point
_	****			Operator ID	County	District	Quadrangle
2) Operator's Well N	Number: MN	ID23 N-4		Well P	ad Name: MN	D23	
3) Farm Name/Surfa	ace Owner:	CONSOL/HG Energy	II Appala	Public Ro	oad Access: N	ixon Ridge F	Road (SLS 21/1)
4) Elevation, current	t ground:	1273'	_ El	evation, propose	d post-construc	ction: 1240'	
5) Well Type (a) (Gas <u>x</u>	o	il	Un	derground Stor	age	
Othe	er						
(b)I:	f Gas Shal	llow x		Deep			
	Hor	izontal			JN	4/17/19	
6) Existing Pad: Yes	or No No	0			_		
7) Proposed Target I Marcellus, 6474' -				ipated Thickness	and Expected	Pressure(s):	
8) Proposed Total V	ertical Depth	n: 6535'					
9) Formation at Tota			cellu	s			
10) Proposed Total	Measured De	epth: _154	49'				
11) Proposed Horizo	ontal Leg Le	ngth: 838	7'				
12) Approximate Fr	esh Water St	rata Depths	:	538', 801', 898	8', 947'		
13) Method to Deter	mine Fresh	Water Dept	hs: 1	Nearest offset w	rells		
14) Approximate Sa	ltwater Dept	hs: None					
15) Approximate Co	oal Seam Dej	oths: 847'	- 852) i			
16) Approximate De	epth to Possi	ble Void (co	oal mi	ine, karst, other):	None anticip	ated	
17) Does Proposed v				ms Yes X	Ŋ	Vo	
(a) If Yes, provide	•			hall County Min	e		RECEIVED Office of Oil and Gas
• •			890'	to seam base			MAY 0 6 2019
			Pittsl	ourgh #8			
		Owner:	Murra	ay Energy Corp	oration		WV Department of

Page 1 of 3

WW-6B (04/15)

API NO. 47		
OPERATOR WELL	NO.	MND23 N-4 H
Well Pad Name:		

18)

CASING AND TUBING PROGRAM

ТУРЕ	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94	100'	100'	Drilled In
Fresh Water	13 3/8"	New	J-55	54.5	1075'	1075'	CTS
Coal							
Intermediate	9 5/8"	New	J-55	40	3150'	3150'	CTS
Production	5 1/2"	New	P-110	23	15449'	15449'	CTS
Tubing							
Liners							

J7/4/17/19

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	20"	0.438	2110		Type 1, Class A	
Fresh Water	13 3/8"	17.5"	0.380	2730		Type 1, Class A	40% excess, yield = 1.20, CTS
Coal							
Intermediate	9 5/8"	12 1/4"	0.395	3950		Type 1, Class A	40% excess, yield = 1.20,CTS
Production	5 1/2"	8 1/2"	0.415	14520	11500	Type 1, Class A	20% excess, load yield = 1.19, CTS
Tubing							
Liners							

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PACKERS

i :

	111011110	MAY 0 6 2019
Kind:		
Sizes:		WV Department of Environmental Protection
Depths Set:		

Well Pad Name: MND23

J4/19/19

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 6,535 feet. Drill to estimated 15,449 TMD, stimulate and be capable of producing the Marcellus Formation. Should an unanticipated void be encountered 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 expected to exceed 11,500 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 10.557 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.498 acres
- 23) Describe centralizer placement for each casing string:

Conductor - N/A

Surface Casing - Bow Springs (over collars) on first 2 joints then every third joint to 100' from surface Intermediate Casing - Bow Springs (over collars) on first 12 joints, then every third joint to 100' from surface

Production Casing - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor - Drilled in via Dual Rotary (no annular space)
Surface Casing - "15.6 ppg PNE-1 + 3% bwoc CaCl 40% ExcessYield =1.20 / CTS
Intermediate Casing - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS
Production Casing - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-CEIVED bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020 ExcessLead Yield=1.19Tail Yield=1.94CTS"

Office of Oil and Gas

25) Proposed borehole conditioning procedures:

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Conductor - Once at casing setting depth, ensure hole is clean at TD

Surface Casing - Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimization protection volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement. Intermediate Casing - Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimum of 1 hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement. Production Casing - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

MND23 Well Pad (N-1H to N-6H) Cement Additives

Material Name	Material Type	Material Description Premium NE-1 is a	CAS#	%	CAS number
		portland cement with	Ingredient name Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5	1305-78-8
		strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	1 - 5 0.1 - 1	1309-48-4 14808-60-7
remium NE-1	Portland Cement		Oryalamino silica. Wasile (SIOE)	a.c. I	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Commonly called gel, it is	1	la.	010
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	orystemic and active (order)		
entonite	Extender	water.			
		A powdered, flaked or	Ingredient name	%	CAS number
		pelletized material used to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate	S course modern and		
		of strength development			
alcium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	t-midted man	0/	CAS number
		cellophane flakes used as	Ingredient name	%	CAG number
		a lost circulation material.	No hazardous ingredient		
ello Flake	Lost Circulation				
		CD 101 to a whose Best old			
		FP-13L is a clear liquid organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air		The state of the s	
		entrapment and			
		preventing foaming tendencies of latex			
		systems.			
P-13L	Foam Preventer	systems.			
-	903-301 1 1 1 7 T 1 7 T 1 1 T 1 1 T 1 1 T 1 1 T 1 T			la:	0.00
		Used to retard cement	Ingredient name	%	CAS number
ranulated Sugar	Retarder	returns at surface.	Sucrose	90 - 100	57-50-1
orandiated Sugar	netaruer	A proprietary product			
		that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
C-1		temperatures.			
		Multi-purpose polymer			
		additive used to control	Ingradient name	%	PEGENED
		free fluid, fluid loss,	Ingredient name No hazardous ingredient	70	Office of Oil and Ga
		rheology, and gas	na nazarovus ingrevierit		Olinge of Oil and Ga
/PA-170	Gas Migration	migration.			
		Warman Saturation			MAY 0.6 2019
		A synthetic pozzolan, (primarily Silicon Dioxide).			0 0 2013
		When blended with			
		cement, Pozzolan can be			WV Department of Environmental Protect
		used to create	Ingredient name	%	Environmental Protec
		lightweight cement	Crystalline silica: Quartz (SiO2) Calcium oxide	5 - 10 1 - 5	14808-60-7 1305-78-8
		slurries used as either a	and the same of th	11.79	100
		filler slurry or a sulfate			
		resistant completion cement.			
	Base	Soft Barrier			
oz (Fly Ash)	20000				
oz (Fly Ash)					
oz (Fly Ash)		A low temperature			
oz (Fly Ash)		retarder used in a wide	Ingredient name	%	CAS number
oz (Fly Ash)		retarder used in a wide range of slurry	Ingredient name Organic acid salt	% 40 - 50	CAS number Trade secret.
oz (Fly Ash)		retarder used in a wide range of slurry formulations to extend	CT U.S. S.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Datavida	retarder used in a wide range of slurry	CT U.S. S.		1 1/1/1/2010/00/2019
	Retarder	retarder used in a wide range of slurry formulations to extend	CT U.S. S.		V 100 100 100 100 100 100 100 100 100 10
	Retarder	retarder used in a wide range of slurry formulations to extend	Organic acid salt	40 - 50	V 100 100 100 100 100 100 100 100 100 10
	Retarder	retarder used in a wide range of slurry formulations to extend	Organic acid salt Ingredient name		Trade secret.
	Retarder	retarder used in a wide range of slurry formulations to extend	Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant	40 - 50 % 20 - 30 10 - 20	CAS number 111-76-2 Trade secret.
	Retarder	retarder used in a wide range of slurry formulations to extend the slurry thickening time. Used to water wet casing	Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	40 - 50 % 20 - 30 10 - 20 5 - 10	CAS number 111-76-2 Trade secret. 110615-47-9
Poz (Fly Ash) R-3	Retarder Surfactant	retarder used in a wide range of slurry formulations to extend the slurry thickening time.	Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant	40 - 50 % 20 - 30 10 - 20	CAS number 111-76-2 Trade secret.

List of Frac Additives by Chemical Name and CAS

MND23 Well Pad (N-1H to N-6H)

Chemical Name	CAS#	Multiple CAS #'s
		COFF4 42 2
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
100000000000000000000000000000000000000		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
Silica Sand and Ground Sand	Winture	1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
TROUBLANT	IVIIACUIE	107-21-1
Sulfamic Acid	5329-14-6	
- Control of the cont	5525 14 0	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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WW-9 (4/16)

API Number 47 -	
Operator's Wel	I No. MND23 N-4H

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

OFFIC	E OF OIL AND GAS
FLUIDS/ CUTTINGS D	ISPOSAL & RECLAMATION PLAN
Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) Short Creek - Ohio River	Quadrangle Powhatan Point 7.5'
Do you anticipate using more than 5,000 bbls of water to co Will a pit be used? Yes No	omplete the proposed well work? Yes No
If so, please describe anticipated pit waste: NA	
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 Pe	
Reuse (at API Number_TBD-Atm Off Site Disposal (Supply form Other (Explain_	
Will closed loop system be used? If so, describe: Yes, cultings	and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horiz	contal)? Air, freshwater, oil based, etc. Vertical - Air, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc	Synthetic
Additives to be used in drilling medium? Water, Soap, KCI,	Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, remo	ved offsite, etc. Approved Landfill
	be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See Atta	
	nd Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the Wes provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, by	and conditions of the GENERAL WATER POLLUTION PERMIT issued to Virginia Department of Environmental Protection. I understand that the is of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on TECEIVED assed on my inquiry of those individuals immediately responsible for oil and Gas is true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
Company Official Signature Diane White	WV Department of
Company Official (Typed Name) Diane White	Environmental Protecti
Company Official Title Agent	
Subscribed and sworn before me this 17th day of	f_April
Calso	Notary Public OFFICIAL SEAL NOTARY PUBLIC, STATE OF WEST VIRGINIA
My commission expires $11/2/2021$	MARK J SCHALL H G Energy LL C PO Box 5519, Vienna, WV 26105

Title: Oil & Ga	s Inspector	Date:	4	117/19		
Field Reviewed?	()Yes	() No	/		

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1875 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) 8297 US Highway 19 Cochranton, PA 16314 814-425-7778

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 48903 740-548-4889

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

Sycamore Landfill Inc. Permit #R80-079001 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 RECEIVED
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Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 804-455-3800

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

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

Northern A-1 Environnemental Services Permit ID MID020906814 8947 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 FO Box 208997 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 Landfill Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-225-1589

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20758 6065 Arrel-Smith Road Lowelville, OH 44486 980-586-6825

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 Ollfield 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 15682

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

Nichlos 1-A (SWIW #18) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 RECEIVED
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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 2680 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mazena #1 Well (SWIW # 18) Permit # 34-157-2-5511-00-00 5867 E. State Street Newcomerstown, OH 49832 740-769-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 800 Cherrington Pkwy, Suite 200 Corappolis, PA 15108 412-829-7275

SOS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Silcor Olifield 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 Corr...;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 # 34-083-2-4187-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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EUS 60 AM

HG Energy II Appalachia, LLC

Site Safety Plan

Office of Oil and Gas

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WV Department of Environmental Protection

MND 23 Well Pad 1931 Nixon Ridge Lane Moundsville, Marshall County, WV 26041

March 2019: Version 1

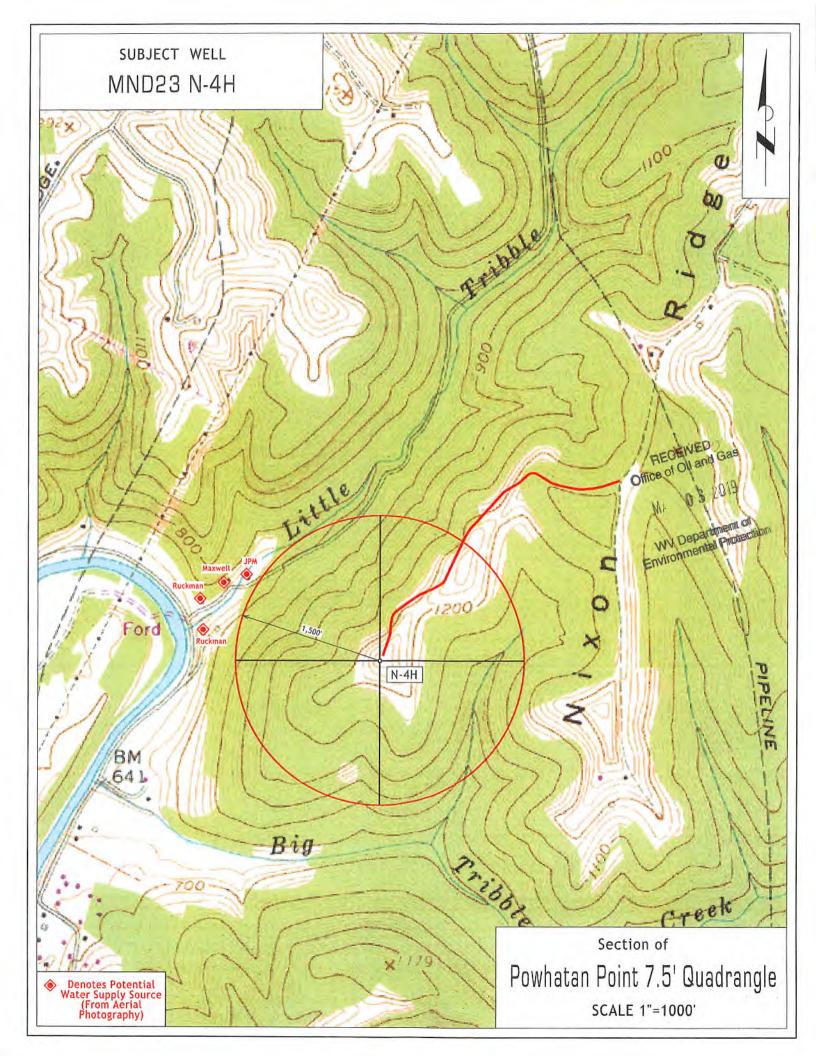
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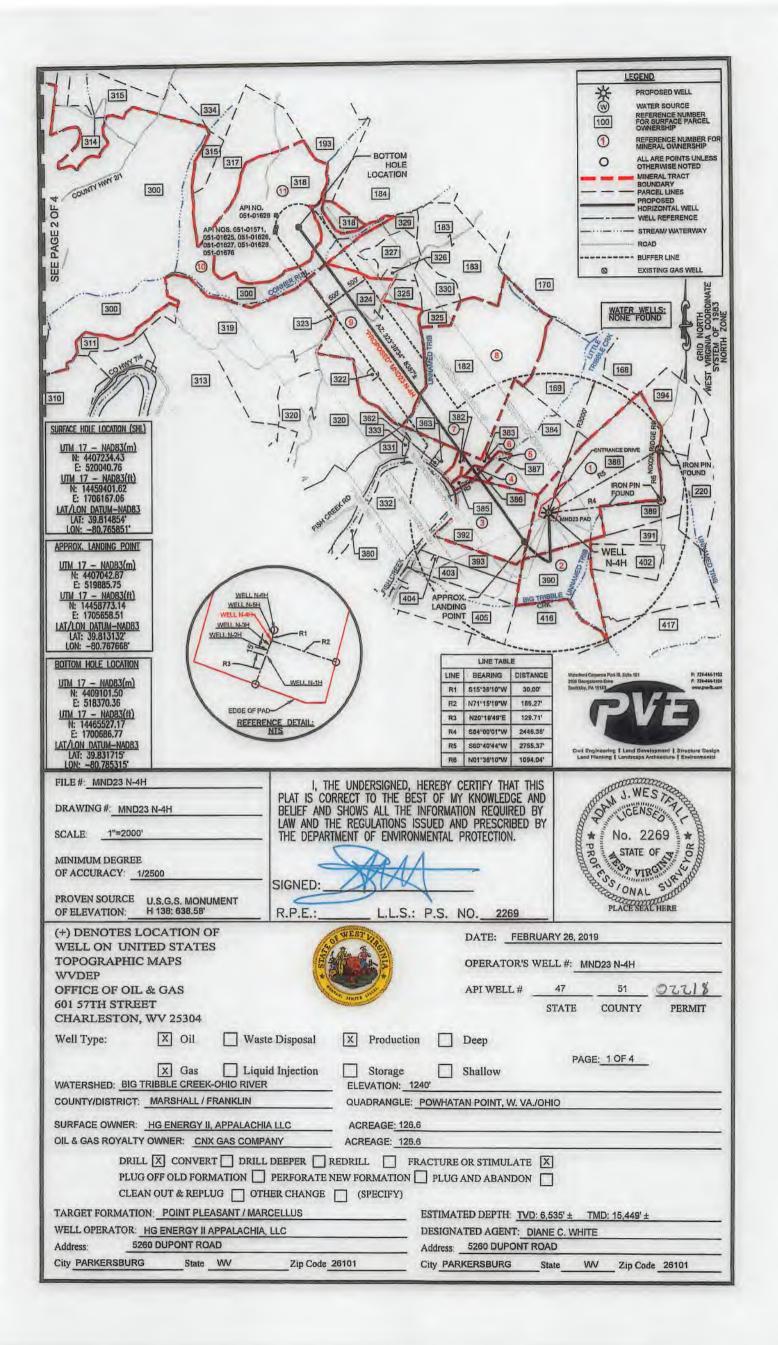
For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

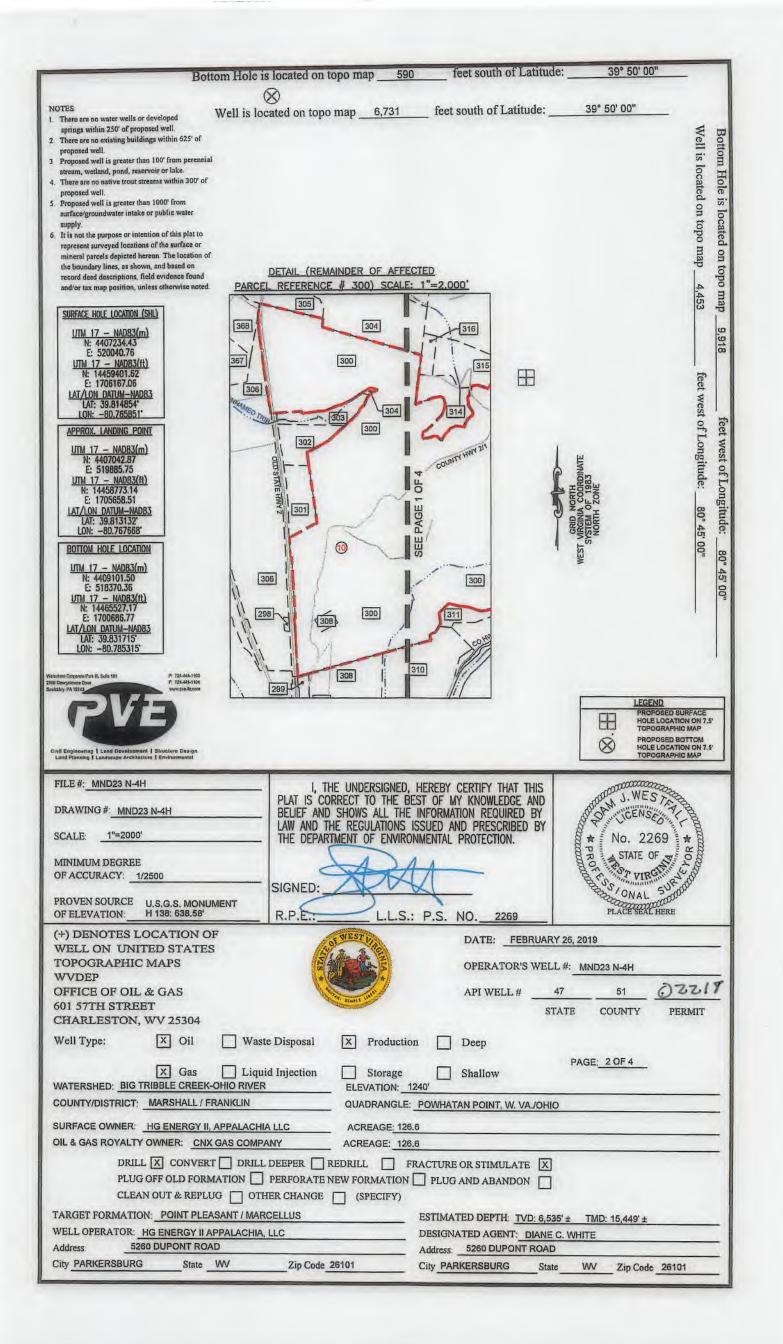
HG Energy II Appalachia, LLC.

5260 Dupont Road

Parkersburg, WV 26101







MCCLINTOCK DALE ET. UX. FRANKLIN REAL ESTATE CO. 169 FRANKLIN REAL ESTATE CO. CONSOLIDATION COAL COMPANY 182 FRANKLIN REAL ESTATE CO. 183 CONSOLIDATION COAL COMPANY 184 193 CONSOLIDATION COAL COMPANY MORRIS FRED H ET UX 220 CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY OHIO POWER CO. CONSOLIDATION COAL COMPANY 301 CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY OHIO POWER CO. 307 CNX GAS COMPANY LLC. CONSOLIDATION COAL COMPANY 309 CONSOLIDATION COAL COMPANY 311 CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY 314 CONSOLIDATION COAL COMPANY 315 316 CONSOLIDATION COAL COMPANY CONSOLIDATION GOAL COMPANY 317 CONSQLIDATION COAL COMPANY OHIO POWER CO. SANCHEZ GENEVA BASSETT ROBBINS JAMES E & DIANA C 324 325 OHIO POWER CO. FRANKLIN REAL ESTATE CO. FRANKLIN REAL ESTATE CO. FRANKLIN REAL ESTATE CO. 327 329 MCELROY COAL COMPANY 330 HEATHERINGTON ARDEN RAY MILLER EDWIN C. GATTS RICHARD L 333 CONSOLIDATION COAL COMPANY CLARK BEVERLY E RUCKMAN SHELDON R. ET. AL. OHIO POWER COMPANY WY DIVISION OF NATURAL RESOURCES RUCKMAN MARVIN E. ET. UX. MAXWELL WILLIAM L. SR. ET. UX. RUCKMAN MARVIN E. MAXWELL WILLIAM JR. HOLMAN TERRY L.

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HOLSTINE BERNARD W. & ROXANN L.
HOLSTINE BERNARD W. & ROXANN L.
LEGG JAMES R. EST.
MCCLINTOCK DALE EDWARD
RUCKMAN JESSIE GLADYS - LIFE
LEGG JEFFERY L.
ANDERSON RHONDA MARIE
MCCLINTOCK DALE EDWARD
LEGG JAMES R EST
WHITE KENNETH E ET UX
ARNOLD LLOYD C & JUDITH C.
STOUT JAMES L.

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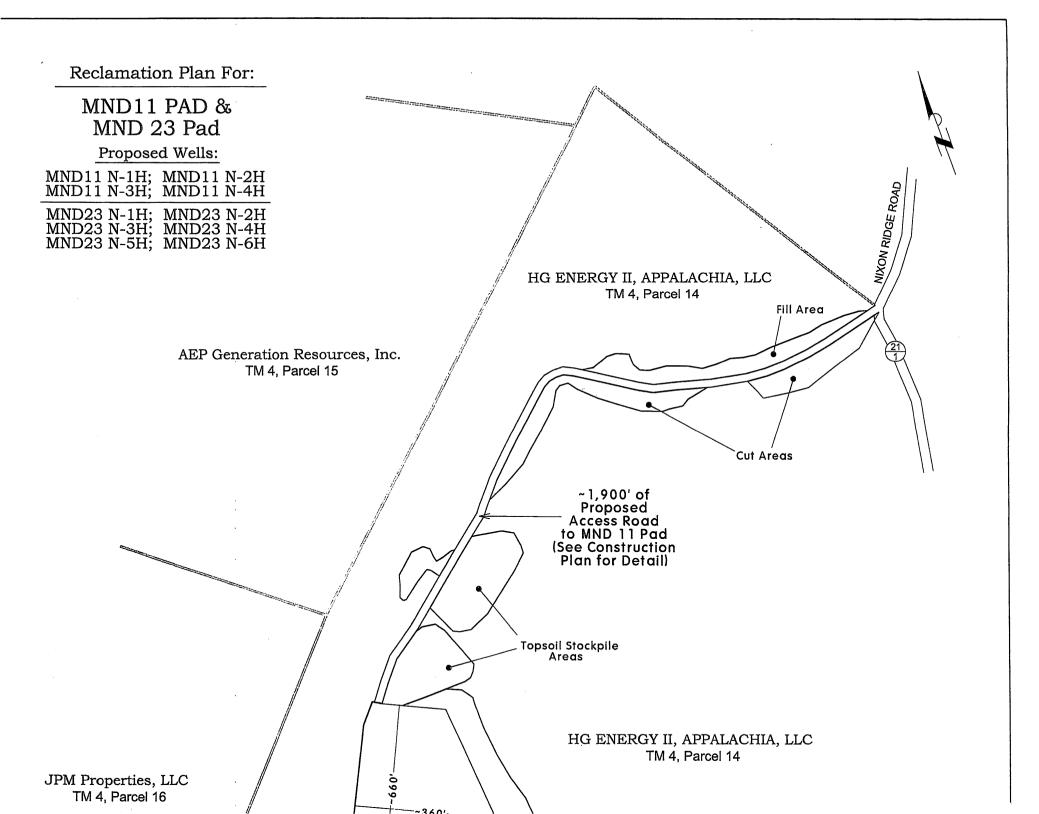


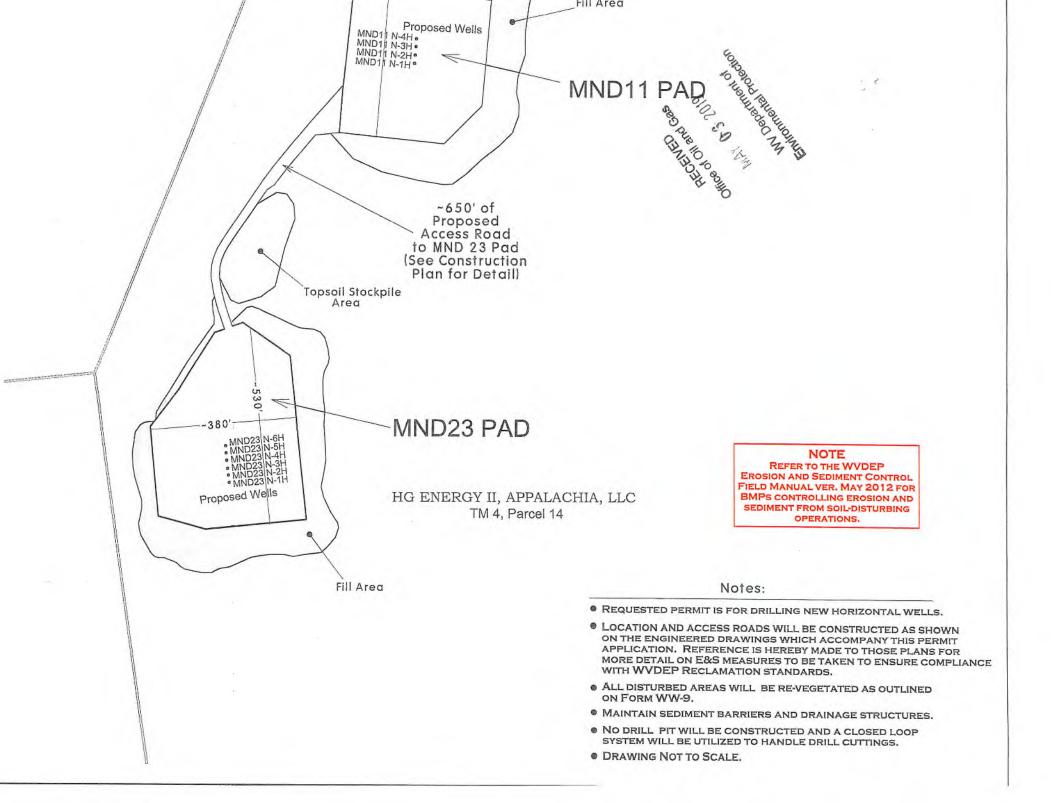
LEGEND

REFERENCE NUMBER
FOR SURFACE PARCEL
OWNERSHIP

SAM J. WES 72 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. FILE #: MND23 N-4H DRAWING #: MND23 N-4H SCALE: 1"=2000" No. 2269 ENVIRONMENTAL PROTECTION. STATE OF MINIMUM DEGREE OF ACCURACY: 1/2500 SS/ONAL SUR SIGNED: PLACE SEAL HERE U.S.G.S. MONUMENT H 138: 638.58' PROVEN SOURCE OF ELEVATION: S.: P.S. NO. (+) DENOTES LOCATION OF DATE: FEBRUARY 26, 2019 WELL ON UNITED STATES TOPOGRAPHIC MAPS OPERATOR'S WELL#: MND23 N-4H WVDEP 02218 OFFICE OF OIL & GAS API WELL# 47 51 601 57TH STREET COUNTY STATE CHARLESTON, WV 25304 Well Type: X Oil Waste Disposal x Production Deep PAGE: 3 OF 4 X Gas Liquid Injection Storage Shallow WATERSHED: BIG TRIBBLE CREEK-OHIO RIVER ELEVATION: 1240' COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO SURFACE OWNER: HG ENERGY II, APPALACHIA LLC ACREAGE: 126.6 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6 DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE Address: 5260 DUPONT ROAD 5260 DUPONT ROAD City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG Zip Code 26101

His Phil Nun/hot		- 17	1	Suiface			Charles Howard Bassett JR and Ruby D. Bassett	NOBLE ENERGY INC	
(1)	MPIE 05-0004-0014-0000-0000	Original Leason MILLER CHARLES W	CHEVRON USA INC	Code 388			Cynthia P. Hopkins, as Trustee of the Cynthia P.	NOBLE ENERGY INC	
		PARSONS PAUL ET UX RUSSELL SHARON LYN	CHEVRON USA INC				Hopkins Revocable Trust Elizabeth A. Strusbaugh and	NOBLE ENERGY	
		ARNOLD LLOYD C ET UX CRONIN MARY JO	CHEVRON USA INC CHEVRON USA INC CHEVRON USA INC				James R. Strausbaugh Janet and John Blankenship	NOBLE ENERGY	-
		KURPIL RICHARD ET UX CLIFTON CLARA MAE	CHEVRON USA INC				Jean C. Thomas	NOBLE ENERGY INC	
		EDWARDS GEORGE ET UX KYLE DONNA FAE	CHEVRON USA INC				Mary E. Bassett	NOBLE ENERGY INC	
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC				Robert B. and Violet Thomas	NOBLE ENERGY INC	
		AB RESDURCES LLC NPAR LLC	NPAR LLC Chevron USA INC				Roger B. and Inken P. Rose	NOBLE ENERGY INC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC				Ruth Ann and Furman F. Wallace	NOBLE ENERGY INC	
(2)	05-0009-0003-0000-0000	James Redman Legg II ET AL	Noble Energy, Inc.	390			Ruth E. Bassett Meadows and O.W. Meadows Jr	NOBLE ENERGY INC	
		Noble Energy, Inc.	CNX Gas Company,				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		1100111 11111 1111	LLC		9	05-0005-0006-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	324
		CNX Gas Company, LLC	Noble Energy, Inc.				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		10	05-0005-0003-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	300
3	05-0009-0001-0000-0000, 05-0009-0001-0001-0000, 05-0009-0001-0002-0000,	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	392, 362, 385, 382,			NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
	05-0009-0001-0003-0000, 05-0009-0001-0004-0000			363	111	05-0005-0002-0000-0000	Margaret Games	CNX Gas Company, LLC	318
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC				Elizabeth Patterson	CNX Gas Company, LLC	
(4)	05-0004-0019-0000-0000	William L, Maxwell JR TriEnergy Holdings	TriEnergy Holdings Chevron USA INC	386			Charles J, Wiesner	CNX Gas Company, LLC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC				John Wiesner	CNX Gas Company, LLC	
(5)	05-0004-0017-0000-0000	Terry Holman TriEnergy Holdings	TriEnergy Holdings Chevron USA INC	387			Kenneth Schmitt	CNX Gas Company, LLC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC				Mary Ellen Sedon	CNX Gas Company, LLC	
6	05-0004-0018-0000-0000	William L, Maxwell JR	TriEnergy Holdings	383			Alfred Kaczorowski, Jr., & Sharon M. Kaczorowski, his wife	CNX Gas Company, LLC	
		TriEnergy Holdings	Chevron USA INC				CNX Gas Company, LLC	Noble Energy, Inc.	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
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0		Jesai Cinaya Nocionan Le Mi	Noble Energy, Inc.	385, 382,	Waterfront Corporate	Park III, Suite 191	724-444-1100		
(7)	05-0009-0001-0003-0000, 05-0009-0001-0004-0000			385, 382,	Waterfront Corporate 2003 Georgetowns D Suverbley, PA 15143	Inver E.	724-444-1500 724-444-1104 W.greo-Russen		
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(B)	05-0009-0001-0003-0000,		HG ENERGY II		2003 Georgetowns D Stewnskiey, PA 15t-0	PVE	79-444-1109 w.pro-4e.tam		R FOR
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B RAWI CALE: CALE: INIMUTE FACO OPO OVODI OPO OVODI OFFIC OUNT VATER OUNT ARGE ARGE ARGE	OS-0009-0001-0004-0000 OS-0009-0011-0004-0000 OS-0009-0011-0000-0000 OS-0005-0012-0000-0000 OS-0005-0012-0000 OS-0005-0012	MONUMENT 38.58' CON OF CATES Gas Liquid CREEK-OHIO RIVER HALL / FRANKLIN ERGY II, APPALACHIA II: CNX GAS COMPAN DNVERT DRILL D D FORMATION P	HGENERGY II APPALACHIA, LLC NOBLE ENERGY I, THE PLAT IS CORR BELIEF AND THE THE DEPARTMENT SIGNED: R.P.E.: Disposal Injection LLC IY EEPER REL R CHANGE ELLUS	UNDERSIGECT TO THOWS ALL REGULATION OF ELEVATION QUADRAM ACREAGE ACREAGE ORILL [W FORMA*	Civil Enginee Land Planni NED, HE HE BEST THE INFONS ISSU WIRONME L.S.: F	REBY CERTIFY THAT OF MY KNOWLEDGE FORMATION REQUIRE JED AND PRESCRIBE ENTAL PROTECTION. P.S. NO. 2269 DATE: FE OPERATOR API WELL # Deep Shallow DWHATAN POINT, W. CTURE OR STIMULA PLUG AND ABANDO	THIS AND D BY PROPERTY 26, 2019 STATE COLUMN PAGE: 40 VA./OHIO	NO. 2269 STATE OF WINDOWS ACES EAL HERE N-4H 51 UNTY PER	Section of the sectio





WW-6A1 (3/13)

Operator's	Well No.	
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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 Lease Chain **

Office of Oil and Ges

MAY Office 2019

WW Department Projection

Environmental Projection

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

Office of Children Common MAY (100 2010)

MAY (100 2010)

WY Babattanent of Common Com

HG Energy II Appalachia, LLC MND23 N-4H Lease Chains

and a market	100	As-Malife As-	ON BOALD STORY	WX SWEETEN	Book	Page
HG Plat N	umber MPID	Original Lessor	Original Lessee	Royalty	DOCI	rage
Marie Control	12 114 1 114 1 114 114 114 114	MILLER CHARLES W	CHEVRON USA INC	Not less than	853	59
<u>1)</u>	05-0004-0014-0000-0000	a i sessio a con Servo	PULLUDON LIEA INC	1/8 Not less than	600	25
		PARSONS PAUL ET UX	CHEVRON USA INC	1/8	853	430
		BUSSELL SUMBON LVAL	CHEVRON USA INC	Not less than	033	450
		RUSSELL SHARON LYN	CHEVRON USA INC	1/8	853	422
		HUFF TIMOTHY ET UX	CHEVRON USA INC	Not less than	033	446
		HOFF TIMOTHY ET DA	CHEVRON USA INC	1/8	846	47
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	Not less than	2,2	
		ANTIOCO ECOTO E ET OX	CITE WINDS GOT THE	1/8	846	39
		CRONIN MARY JO	CHEVRON USA INC	Not less than		
		0,101,111,111,112	Surface and this	1/8	846	43
1		KURPIL RICHARD ET UX	CHEVRON USA INC	Not less than		
		many je (maj moje 14, 51)	-0-11-11-11-11-11	1/8	863	594
		CLIFTON CLARA MAE	CHEVRON USA INC	Not less than		
1				1/8	853	426
		EDWARDS GEORGE ET UX	CHEVRON USA INC	Not less than		
				1/8	853	418
		KYLE DONNA FAE	CHEVRON USA INC	Not less than		
				1/8	853	449
		CONNER JUDITH MAY	CHEVRON USA INC	Not less than		
				1/8	853	445
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	Not less than		
1				1/8	695	629
		AB RESOURCES LLC	NPAR LLC		25	484
1		NPAR LLC	Chevron USA INC		756	332
		and the second second	HG ENERGY II		-	. 72
		Chevron USA INC	APPALACHIA, LLC		41	154
	Archecialeculesusissus	and the same of th	James Landing	Not less than		
2)	05-0009-0003-0000-0000	James Redman Legg II ET AL	Noble Energy, Inc.	1/8	879	580
		Noble Energy, Inc.	CNX Gas Company, LLC		36	395 169
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II		37	169
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
	05-0009-0001-0000-0000,	WODEL EIVERGATING	AIT ALACTIA, LLC			
	05-0009-0001-0001-0000,					
	05-0009-0001-0002-0000,					
	05-0009-0001-0003-0000,			Not less than		
3)	05-0009-0001-0004-0000	Jessi Gładys Ruckman Et Al	Noble Energy, Inc.	1/8	730	646
-7	***************************************		HG ENERGY II		1445	
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
				Not less than		
4)	05-0004-0019-0000-0000	William L, Maxwell JR	TriEnergy Holdings	1/8	730	644
		TriEnergy Holdings	Chevron USA INC		28	239
		V 2.1.2.4 St.	HG ENERGY II			
		Chevron USA INC	APPALACHIA, LLC		41	154
11				Not less than		
5)	05-0004-0017-0000-0000	Terry Holman	TriEnergy Holdings	1/8	721	557
		TriEnergy Holdings	Chevron USA INC		28	239
			HG ENERGY II			
		Chevron USA INC	APPALACHIA, LLC		41	154
	St. Andrews Lands and Co.		A montes of	Not less than		
6)	05-0004-0018-0000-0000	William L, Maxwell JR	TriEnergy Holdings	1/8	730	644
		TriEnergy Holdings	Chevron USA INC		28	239
		The state of the S	HG ENERGY II		0.5	15.5A
		Chevron USA INC	APPALACHIA, LLC		41	154

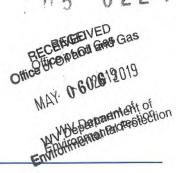
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Office of Oil and Gas

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1	05-0009-0001-0000-0000,			MAY O'O	-	
	05-0009-0001-0001-0000, 05-0009-0001-0002-0000, 05-0009-0001-0003-0000,			WV Departing Line First Control of the Parting Line of the Parting	nent of Protecti	on
7)	05-0009-0001-0004-0000	Jessi Gladys Ruckman Et Al	Noble Energy, Inc. HG ENERGY II	F1/8"	730	646
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
				Not less than	0.40	24
8)	05-0005-0012-0000-0000	Barbara Kay Ewing and Wilber E. Ewing Charles Howard Bassett JR and Ruby D.	NOBLE ENERGY INC	1/8 Not less than	842	34
		Bassett	NOBLE ENERGY INC	1/8	842	1
		Cynthia P. Hopkins, as Trustee of the Cynthia P. Hopkins Revocable Trust	NOBLE ENERGY INC	Not less than 1/8	841	366
		Elizabeth A. Strusbaugh and James R.	NOBEL ENERGY INC	Not less than	0	
		Strausbaugh	NOBLE ENERGY INC	1/8	841	370
				Not less than		
		Janet and John Blankenship	NOBLE ENERGY INC	1/8	841	368
		Jean C. Thomas	NOBLE ENERGY INC	Not less than 1/8	841	449
		Jean C. Thomas	NOBLE ENERGY INC	Not less than	041	443
		Mary E. Bassett	NOBLE ENERGY INC	1/8	841	362
		,		Not less than		
		Robert B. and Violet Thomas	NOBLE ENERGY INC	1/8	842	28
				Not less than		
		Roger B. and Inken P. Rose	NOBLE ENERGY INC	1/8 Not less than	841	358
		Ruth Ann and Furman F. Wallace	NOBLE ENERGY INC	1/8	841	364
		Ruth E. Bassett Meadows and O.W.	110022 21121101 1110	Not less than	•	
		Meadows Jr	NOBLE ENERGY INC HG ENERGY II	1/8	842	38
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
		AEP Generation Resources Inc. and Kentucky		Not less than		
9)	05-0005-0006-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	157
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
10)	05 0005 0003 0000 0000	AEP Generation Resources Inc. and Kentucky		Not less than	920	157
10)	05-0005-0003-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829 39	157
		NOBLE ENERGY INC	APPALACHIA, LLC	Not less than	33	
11)	05-0005-0002-0000-0000	Margaret Games	CNX Gas Company, LLC	1/8 Not less than	763	441
		Elizabeth Patterson	CNX Gas Company, LLC	1/8 Not less than	763	437
		Charles J. Wiesner	CNX Gas Company, LLC	1/8 Not less than	763	429
		John Wiesner	CNX Gas Company, LLC	1/8 Not less than	763	433
		Kenneth Schmitt	CNX Gas Company, LLC	1/8 Not less than	763	421
		Mary Ellen Sedon Alfred Kaczorowski, Jr., & Sharon M.	CNX Gas Company, LLC	1/8 Not less than	763	417
		Kaczorowski, his wife	CNX Gas Company, LLC	1/8	763	425
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II	-, -	752	66
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1



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



April 9, 2019

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

RE: Drilling Under Roads - MND23 N-4H

Franklin District, Marshall County

West Virginia

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 dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

WW-6AC (1/12)

Date of Notice Certification: 04/09/2019

Office of Oil and Gas STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND CARE THE Protection NOTICE CERTIFICATION emiron control of the protection of the protectio

prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this articinformation required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sect of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE OOG OFFICE US ONLY \$\text{SEISMIC ACTIVITY WAS CONDUCTED} \text{RECEIVED/NOT REQUIRED}\$ \text{NOTICE OF ENTRY FOR PLAT SURVEY or } \text{NO PLAT SURVEY WAS CONDUCTED} \text{RECEIVED/NOT REQUIRED}\$ \text{RECEIVED} \text{RECEIVED/NOTICE NOT REQUIRED BECAUSE} \text{RECEIVED/NOT RECEIVED/NOTICE NOT REQUIRED BECAUSE} RECEIVED/NOTICE NOTICE N			-	tor's well ino. Wind	
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms below for the tract of land as follows: State: West Virginia County: Mearshall District: Feneltin Quadrangle: Public Road Access: Northing: District: Feneltin Quadrangle: West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this articinformation required by subsections (b) and (c), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: **PLEASE CHECK ALL THAT APPLY** 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED WRITTEN WAIVER BY SURFACE OWNER			Well	Pad Name:WIND23	
below for the tract of land as follows: State: West Virginia (County: Marshall District: Franklin Public Road Access: Northing: 4407234.4 Nixon Ridge Road (SLS 21/1) Quadrangle: Powhatan Point District: Franklin Public Road Access: Generally used farm name: CONSOL CONSOL Watershed: Little Tribble Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this articinformation required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sect of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR NOT REQUIRED BECAUSE NOTICE OF ENTR	Notice has b	oeen given:	(A (1 - O) - m (- 1 - 1 - m 1 - 1 - 1		with the Metice Forms listed
State: West Virginia UTM NAD 83 Easting: Northing: Northing: Health Mixon Ridge Road (SLS 21/1)			bA, the Operator has provided t	ne required parties v	viui uie nouce foims usieu
County: Marshall District: Franklin Quadrangle: Watershed: Little Tribble Creek Watershed: Little Tribble Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section that the Operator has properly served the required parties with the following: 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: 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: 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: 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: 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: Pursuant to West Virginia Code § 22-6A, the Ope			Fostis	520040 8	
District: Quadrangle: Powhatan Point Quadrangle: Powhatan Point Quidrangle: Powhatan Point Quidrangle: Powhatan Point Quidrangle: Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as a prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this artiformation required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of subsection that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: **PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY NOT REQUIRE 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER					
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SEISMIC ACTIVITY WAS CONDUCTED 1. 2. NOTICE OF ENTRY FOR PLAT SURVEY or D NO PLAT SURVEY WAS CONDUCTED 1. 3. NOTICE OF INTENT TO DRILL OR DNOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR 1. WRITTEN WAIVER BY SURFACE OWNER	that the Oper	rator has properly served the required par		ice Certification	OOG OFFICE USE ONLY
□ 3. NOTICE OF INTENT TO DRILL or □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ■ WRITTEN WAIVER BY SURFACE OWNER	☐ 1. NOT		•		☐ RECEIVED/ NOT REQUIRED
NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER	■ 2. NO	TICE OF ENTRY FOR PLAT SURVEY O	or D NO PLAT SURVEY WA	AS CONDUCTED	☐ RECEIVED
	☐ 3. NO	МО	TICE OF ENTRY FOR PLAT		☐ RECEIVED/ NOT REQUIRED
				RFACE OWNER	
■ 4. NOTICE OF PLANNED OPERATION □ RECEIVED	■ 4. NOT	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUBLIC NOTICE	■ 5. PUB	BLIC NOTICE			☐ RECEIVED
■ 6. NOTICE OF APPLICATION	■ 6. NO7	TICE OF APPLICATION			☐ RECEIVED

Required Attachments:

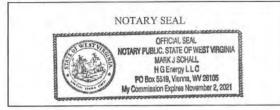
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

Certification of Notice is hereby given:

Office of Oil and Gas
Vire

, have read and understand the notice requirements within West Virginia Code § 22-6A, I have served the attached copies of the Notice Parallel Agriculture. THEREFORE, I Diane White 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 the required parties through personal service, by registered mail or by any method of delivery that required parties through personal service, by registered mail or by any method of delivery that required parties through personal service, by registered mail or by any method of delivery that required parties through personal service, by registered mail or by any method of delivery that required parties through personal service, by registered mail or by any method of delivery that required parties through personal service, by registered mail or by any method of delivery that required parties are the service of the se 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. 5260 Dupont Road

Address: Well Operator: HG Energy II Appalachia, LLC Diane White Parkersburg, WV 26101 Diane White By: 304-863-3172 Its: Agent Facsimile: dwhite@hgenergyllc.com Telephone: 304-420-1119 Email:



day of April, 2019 Subscribed and sworn before me this 9th Notary Public

My Commission Expires

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.

WW-6A (5-12) API NO. 47-____OPERATOR WELL NO. MND23 N-4H
Well Pad Name: MND23

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 the Date of Notice: 04/17/2019 Date Permit Application Filed: 04/2	
Notice of:	Othes of Des 1
■ PERMIT FOR ANY ☐ CERTIFICATE OF API	
	PROVAL FOR THE AN IMPOUNDMENT OR PIT WW Departmental WORMSTORM
Delivery method pursuant to West Virginia Code § 22-6A-1	
	OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION
erosion and sediment control plan required by section seven of towners of record of the surface of the tract on which the well is tract or tracts overlying the oil and gas leasehold being developed roads or other land disturbance as described in the erosion and seven of this article; (3) The coal owner, operator or lessee, in the located [sic] is known to be underlain by one or more coal seam oil and gas leasehold being developed by the proposed well work enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the application one thousand five hundred feet of the center of the well proposed domestic animals; and (6) The operator of any natural gas storage (c)(1) If more than three tenants in common or other co-owners the lands, the applicant may serve the documents required upon	-a of this code. (2) Notwithstanding any provision of this article to the
SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: HG Energy II Appalachia, LLC Address: 5260 Dupont Road	Name: Murray Energy Corporation Address: 46226 National Road
Parkersburg, WV 26101	St Clairsville, OH 43950
Name:	
Address:	☐ COAL OPERATOR
	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name: HG Energy II Appalachia, LLC	ED-Land St. Land St.
Address: 5260 Dupont Road	☐ WATER PURVEYOR(s)
Address: 5260 Dupont Road Parkersburg, WV 26101	Name:
Name:	Address:
Address:	
SURFACE OWNER(s) (Impoundments/Pits) Name:	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name:
Address:	Address:
	*Please attach additional forms if necessary

WW-6A	
(5-12)	

API NO. 47-	÷	
OPERATOR WE	LL NO.	MND23 N-4H
Well Pad Name:	MND23	

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 also 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.

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

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified that subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for the well. rusuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified what subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their professional water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified what respect to

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.

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 wellpad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such WW-6A (5-12)

factors, if necessary.

API NO. 47-OPERATOR WELL NO. MND23 N-4H Well Pad Name: MND23

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 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 refining at sas to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas

Department of Environmental Protection

601 57th St. SE

Charleston, WV 25304

(304) 926-0450

(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.

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.

API NO. 47-		
OPERATOR WE	LL NO.	MND23 N-4H
Well Pad Name:	MND23	

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 comments decision and a list of persons qualified to test water.

MAY 0.6. SUIS

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC Diane White Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

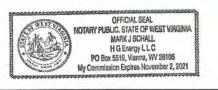
Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

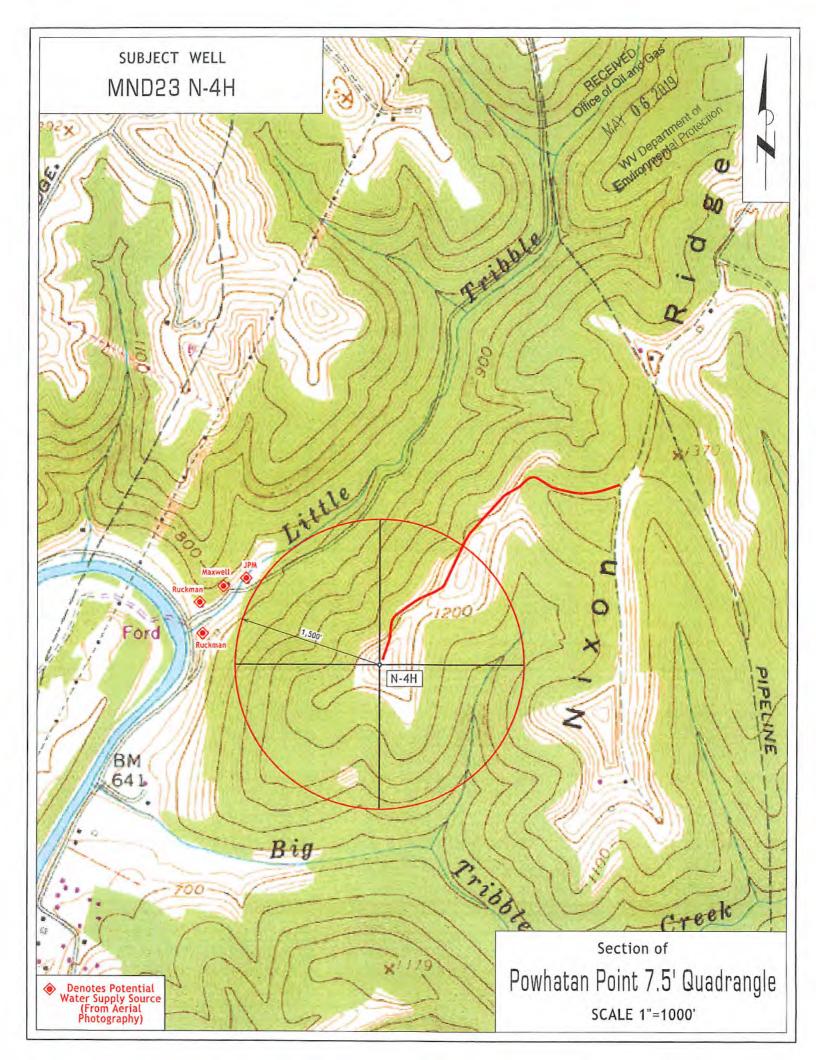
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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



Subscribed and sworn before me this 9th day of APRIL, 2019.

Notary Public

My Commission Expires 1/2/202



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

Notice Time R	tequirement:	Notice shall be prov	ided at least SEVEN (7) da	ys but no more than	FORTY-FIVE	(45) days of for to		
Date of Notice	: 2/25/19	Date of Plan	med Entry: 3/6/19		8	2010		
					Offic	00 0		
Delivery meth	od pursuant t	to West Virginia Co	ode § 22-6A-10a			(45) Mary of Protection of State of Oil are 2019 MAY Objection of Protection of State of Oil are 10 of 10 o		
☐ PERSON.	AL 🗆	REGISTERED	■ METHOD OF DEI	IVERY THAT RE		of Departal Pro		
SERVICE		MAIL	RECEIPT OR SIGN	NATURE CONFIR	MATION	WY Department of the Control of planned entry		
on to the surface but no more that beneath such trowner of miner and Sediment C Secretary, whice enable the surface Notice is here!	te tract to conc an forty-five d act that has fil rals underlying Control Manua th statement sl ace owner to o	duct any plat surveys ays prior to such ent ed a declaration pur- g such tract in the co all and the statutes an hall include contact in obtain copies from th		rticle. Such notice s r of such tract; (2) t rticle six, chapter twee shall include a sta s exploration and pr ddress for a web pa	hall be provided a o any owner or le wenty-two of this stement that copie roduction may be age on the Secreta	at least seven days ssee of coal seams code; and (3) any s of the state Erosion obtained from the		
SURFACE			1	L OWNER OR LES				
- 144444	ergy II Appalachia,	LLC						
Address: 5260 D		1	Address:	Address: 46226 National Road				
-	sburg, WV 26101		-	St. Clairsville, OH 43950				
Name:			■ MINI	ERAL OWNER(s)				
			Name:	- See Attached List -				
Name:			Address:			_		
Address:								
-			*please attac	h additional forms if nec	cessary			
a plat survey or State: County:	st Virginia Co		otice is hereby given that the Approx. Latit Public Road A Watershed:	ude & Longitude:	operator is plann 39.814854 / 80.76585 Nixon Ridge Road - SL Short Creek - Ohio Riv	S 21/1		
Quadrangle:	Powhatan Point 7.5		Generally use	ed farm name:	Consol			
may be obtaine Charleston, WV obtained from t	d from the Sec 25304 (304) the Secretary b	cretary, at the WV E -926-0450). Copies by visiting <u>www.dep</u>	Manual and the statutes an Department of Environments of such documents or addit .wv.gov/oil-and-gas/pages/o	al Protection headquional information re	arters, located at	601 57th Street, SE,		
Notice is here			1 1 1					
Well Operator:			Address:	5260 Dupont Road				
		palachia, LLC	Address: Facsimile:	5260 Dupont Road Parkersburg, WV 26101 304-863-3172				

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.

MND 23N 4H

<u>WW-6A3</u> (1-12)

Page 1 Continued

Mineral Owners

MILLER, CHARLES W 436 Limerick Drive Lynchburg, OH 45142

RUSSELL, SHARON LYN 100 North Wabash Wheeling, WV 26003

ARNOLD, LLOYD C ET UX 53661 Arman Hill Road Powhatan Point, OH 43942

KURPIL, RICHARD ET UX 20 Sandy Drive Benwood, WV 26031

EDWARDS, GEORGE ET UX 334 North Front Street Wheeling, WV 26003

CONNER, JUDITH MAY P.O. Box 611 Moon Township, PA 15108

Jessi Gladys Ruckman Et Al P.O Box 89 Sewickley, PA 15143

Terry Holman 8563 Township Road Alvada, OH 44802

Charles Howard Bassett JR and Ruby D. Bassett 16 Pecan Drive Long Beach, MS 39560 PARSONS, PAUL ET UX 780 Fairmont Pike Wheeling, WV 26003

HUFF, TIMOTHY ET UX 32 Huff Lane Glendale, WV, 26038

CRONIN, MARY JO 67564 North Ray Road St. Clairsville, OH 43950

CLIFTON, CLARA MAE 24 Tear Drop Drive Valley Grove, WV 26060

KYLE, DONNA FAE 1082 Cherry Hill Road Wheeling, WV 26003

SCHEIBELHOOD, PAUL ET AL RR 1 Box 216 Proctor, WV 26055

William L Maxwell JR RD 2 Box 200 B Proctor, WV 26055

Barbara Kay Ewing and Wilber E. Ewing 12782 Eastchester Road Rickerington, OH 43147

Cynthia P. Hopkins, as Trustee of the Cynthia P. Hopkins Revocable Trust 7030 Half Moon Circle, Apt 214, Hypoluxo, FL 33462

Office of Oil and Gas

NAY OG 2019

WV Department of the Children of the Children of Child

WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

Elizabeth A. and James R. Strausbaugh 11387 County Road 550 Chillicothe, OH 45601

Jean C. Thomas 2573 Starlite Lane Port Charlotte, FL 33952

Robert B. and Violet Thomas 6 Ford Street Moundsville, WV 26041

Ruth Ann and Furman F. Wallace 904 Colonel Anderson Parkway Louisville, KY 40222

AEP Generation Resources Inc. and Kentucky Power Company P.O BOX 16428 Columbus OH 43215

Elizabeth Patterson 5719 E. US Highway 84 Evant, TX 76525

John Wiesner 1029 Dexter Corner Road Townsend, DE 19734

Mary Ellen Sedon 36 Mulberry Ave Moundsville, WV 26041 Janet and John Blankenship 1 Cheves Creek Court North Augusta, SC 29860

Mary E. Bassett 35475 County Road 12 Graysville, OH 45734

Roger B. and Inken P. Rose 5663 Krystal Court Cincinnati, OH 45252

Ruth E. Bassett Meadows and O.W. Meadows Jr 8109 Maryland Ave Marmet, WV 25315

Margaret Games 370 Antone Mountain Road Corinth, NY 12822

Charles J. Wiesner 157 Castlewood Drive Ritherfordton, NC 28139

Kenneth Schmitt 2230 County Road 28 Mingo Junction, OH 43938

Alfred Kaczorowski, Jr., & Sharon M. Kaczorowski, his wife 27 Caxton Drive New Castle, DE 19720

MND 23N 4H

Office of Oil and Gas

NAY 0.6 2019

WV Department of the Environmental Protection

HG Energy II Appalachia, LLC

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

RECEIVED
Office of Oil and Gas

MAY 0-6 2019

WV Department of Environmental Protection

February 25, 2019

RE:

MND23 Well Pad (N-1H thru N-6H) Franklin District, Marshall County West Virginia

Dear

1

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Your rights as a royalty owner can be obtained from the Secretary at the WVDEP at 304-926-0450.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND Service of Oil and Gas

WAIVER

MAY 0-6 2019

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall by certified were 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 Owner Waiver:

I. Eric Grayson, for HG Energy II Appalachia, LLC, hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	West Virginia	- UTM NAD 83	Easting:	520040.8
County:	Marshall	- UTMINAD 83	Northing:	4407234.4
District:	Franklin	Public Road Acc	cess:	Nixon Ridge Road (SLS 21/1)
Quadrangle:	Powhatan Point	Generally used t	farm name:	CONSOL
Watershed:	Little Tribble Creek			21
Name: Eric	Grayson, VP, HG Energy II Appalachia, LLC	Signature:	Cul	harron
Address: 5260	Dupont Road			
Park	ersburg, WV 26101	Date: 04/03/	2019	

Oil and Gas Privacy Notice:

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

Date of Notic		no later than the filing date of permit Application Filed: 04/11/2019	application.
Delivery met	thod pursuant to West Virginia Code	§ 22-6A-16(c)	
■ CERTI	FIED MAIL] HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a damages to th (d) The notice of notice. Notice is her (at the addres Name: HGE Address: 5260	requested or hand delivery, give the surperation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed sure surface affected by oil and gas operates required by this section shall be given by provided to the SURFACE OWN is listed in the records of the sheriff at the Energy II Appalachia, LLC	rface owner whose land will be used for subsection shall include: (1) A copy of this article to a surface owner whose rface use and compensation agreement ions to the extent the damages are coming to the surface owner at the address like the surface owner at the s	no Department of
Pursuant to Woperation on	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose	e of drilling a horizontal well on the tra	act of land as follows:
Pursuant to Woperation on State:	Vest Virginia Code § 22-6A-16(c), notic		
Pursuant to Woperation on State: County:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia	e of drilling a horizontal well on the tra	act of land as follows: 520037.3
Pursuant to Woperation on State: County: District:	Vest Virginia Code § 22-6A-16(c), notic the surface owner's land for the purpose West Virginia	e of drilling a horizontal well on the tra UTM NAD 83 Easting: Northing:	act of land as follows: 520037.3 4407221.2
	Vest Virginia Code § 22-6A-16(c), notic the surface owner's land for the purpose West Virginia Marshall Franklin	e of drilling a horizontal well on the tra UTM NAD 83 Easting: Northing: Public Road Access:	act of land as follows: 520037.3 4407221.2 Nixon Ridge Road (SLS 21/1)
Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Solution of the Pursuant to Wood to be provided horizontal we surface affect information of the adquarters,	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Marshall Franklin Powhatan Point Little Tribble Creek Shall Include: Vest Virginia Code § 22-6A-16(c), this seed by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and ted by oil and gas operations to the extrelated to horizontal drilling may be obtolered at 601 57th Street, SE, Characteristics	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include: (1)A copy of this a surface owner whose land will be compensation agreement containing attent the damages are compensable unotationed from the Secretary, at the WV	act of land as follows: 520037.3 4407221.2 Nixon Ridge Road (SLS 21/1)
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Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sursuant to Wood be provide horizontal we surface affect information of headquarters, gas/pages/def	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Marshall Franklin Powhatan Point Little Tribble Creek Shall Include: Vest Virginia Code § 22-6A-16(c), this seed by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and ted by oil and gas operations to the extrelated to horizontal drilling may be oblocated at 601 57th Street, SE, Chafault.aspx. Or: HG Energy II Appalachia, LLC	e of drilling a horizontal well on the tra UTM NAD 83 Public Road Access: Generally used farm name: notice shall include: (1)A copy of this a surface owner whose land will be compensation agreement containing attent the damages are compensable unotained from the Secretary, at the WV arleston, WV 25304 (304-926-0450) Address: 5260 Dupont Road	act of land as follows: 520037.3 4407221.2 Nixon Ridge Road (SLS 21/1) CONSOL code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sursuant to Worts be provide horizontal we surface affect information of	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Marshall Franklin Powhatan Point Little Tribble Creek Shall Include: Vest Virginia Code § 22-6A-16(c), this seed by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and ted by oil and gas operations to the extremated to horizontal drilling may be obtained at 601 57th Street, SE, Chafault.aspx.	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include: (1)A copy of this a surface owner whose land will be compensation agreement containing attent the damages are compensable unotained from the Secretary, at the WV arleston, WV 25304 (304-926-0450)	act of land as follows: 520037.3 4407221.2 Nixon Ridge Road (SLS 21/1) CONSOL code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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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

March 18, 2019

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

Jill M. Newman Deputy Commissioner

RECEIVED
Office of Oil and Gas

MAY 0-6, 2019

WV Department of Environmental Protection

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 MND-23 Well Pad, Marshall County MND-23 N-4H Well Site

Dear Mr. Martin,

This well site will be accessed from Permit #06-2019-0284 issued to HG Energy II Appalachia for access to the State Road for a well site located off of Marshall County 21/1 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Dary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy II, LLC CH, OM, D-6

File

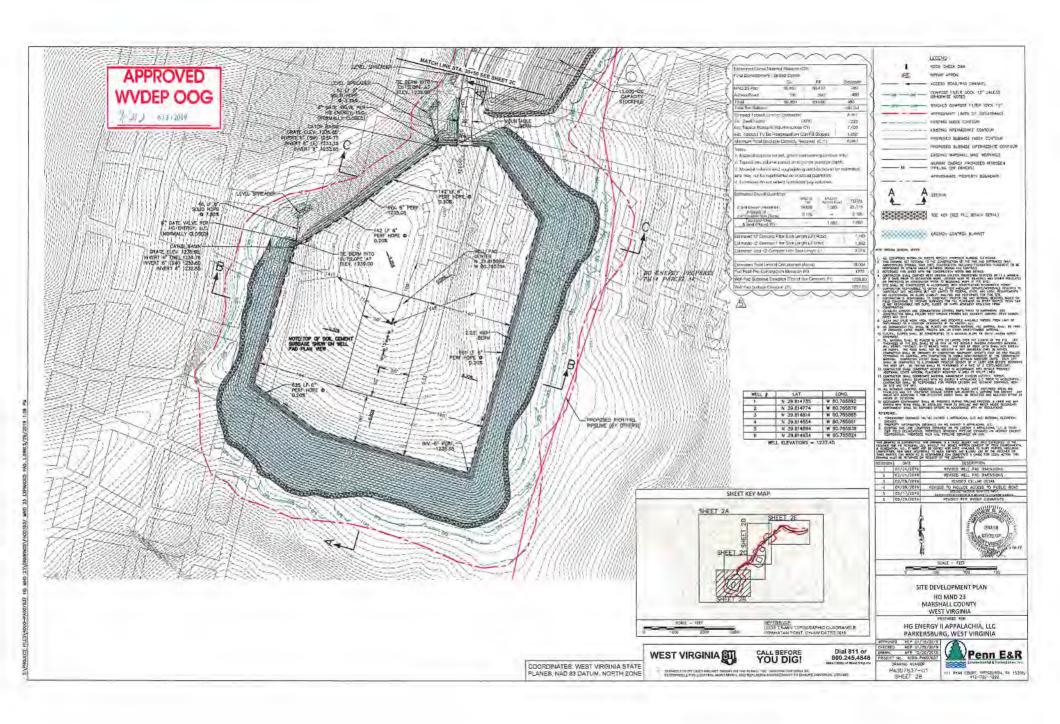
List of Frac Additives by Chemical Name and CAS

MND23 Well Pad (N-1H to N-6H)

Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
110 Shale Shir 705	IVIIACUIC	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
, i		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	

RECEIVED
Office of Oil and Gas

MAY 0.6 2019



MOUNDSVILLE MARSHALL COUNTY WEST VIRGINIA

CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS

HG MND 23 WELL PAD

CONSTRUCTION SEQUENCE

1. Pifot to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearity delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.

Site access: This is the first Ind-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from

- the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockples.

 3. Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount.
- required for installing perimeter BMPs.

 4. Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- Construction of Buildings, Uslities, and Paving During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
 Final Stabilization, Topsolling, Trees and Shrubs - After
- , Prima sudanization, i objecting, These after Sirvice and Sirvice construction is completed, install stabilization BMPs including, permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the control of the PMP.



PREPARED FOR HG ENERGY II APPALACHIA, LLC

5260 DUFONT ROAD PARKERSBURG, WEST VIRGINIA 26101 (304) 420-1100

PENN ENVIRONMENTAL & REMEDIATION, INC.

111 RYAN COURT PITTSBURGH, PA 15205 (412) 722-1222

Final Divelopment - G	Cur			Stocke N
MND 23 Pad	89 450		470	980
Acrosos Rosas	100		990	-490
Tetal	69.593		050	490
Total Size Ratingo	09,530	65	ucu	490 Cui
Stronger Topsol (Limit)	nt Earthwork			6.167
ent Swell Factor	- 6	80%		1,233
Est. Topsof Stockpile V	clume (Loose)	cm	1	7,400
Est. Topsoil To Be Re	espread on C	uVFII 5	lopes	1.850
Minimum Total Stockpil	e Capacity Re	quired	(Y.2)	6,040
Topsoil est, volume Maneral balance an and may not be repre- Estimates do not re Somator Gravel (2. no.	d aggregate of sentative of ac fact contrack	pomble deal qua	es toesect on e untilies	
3. Material balance an and may not be repre- 4. Estimates do not re Estimated Gravel Quant 8° 30f Cement (Rood S)	d aggregate of sentative of ac fect contrack titles	pomble deal qua	es toesect on e untilies	
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3. Material ballance an and may not be repre- 4. Estimates do not re- Estimated Gravel Outin 8° Sel Cement (Raced S 3° Depth of 10° Graden Riss Grad Top Cost Citio	d aggregate of something of the somethin	nuanitie deal qua e pay ve NO 29 Pass 0,633 7,126	e bassed on e shalles. Marries Accordingly 1,883	TOTAL 21,316
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3, Marie id Balance an and may not be express and an arm and may not be express of a formation of an arm of the second of the se	d aggregato di sentative of asi sentative of a sentative o	nuanitie deal que a pay ve NO 29 Post 0,633 7,126 — (n Q.F.(4F (n Q.F.(4F (n Q.F.(4F)) Longn Abres) (FS)	et passed on entities, obures, obures, obures, entities, obures, economical (1.883) (1.683) (1.683)	701AL 21,316 2,126 1,680 1,15 1,85 3,010

1	NAME OF BRIDE
	TITLE SHEET
2A-2E	SITE DEVELOPMENT PLANS
3	PAD & STOCKPILE SECTIONS
4A-4B	ACCESS ROAD SECTIONS
5A-5F	CONSTRUCTION NOTES & DETAILS
6A-6C	RESTORATION PLAN
7	PROPERTY MAP

WELL #	LAT.	LONG.
1	N 39.814735	W 80.765892
2	N 39.814774	W 80.765878
3	N 39.814814	W 80.765865
4	N 39.814854	W 80.765851
5	N 39.814894	W 80.765838
6	N 39.814934	W 80.765824

WV83-NF WELL COORDINATES WELL ELEVATIONS = 1237.45

								ATITUDE	LONGITUDE
MND	23	WELL	PAD	ACCESS	ROAD	ENTRANCE	N	39.816883	W 80.764041
MND	11	WELL	PAD	ACCESS	RCAD	ENTRANCE	N	39.819895	W 80.757249

RECORD OWNER	RECORD LOT ₩	RECORD AREA OF LOT	AREA WITHIN LOD
HG ENERGY PROPERTY	TM 4 PARCEL 14	121.531 AC.	18.979 AC.
NIXON RIDGE LN ROW	N/A	N/A	0.025 AC.
TOTAL LIM	IT OF DISTURBANCE		19.004 AC.

RECEIVER TO & PENECOTT COMPLETION THESE PARTY	OR HIS PERSONNE USE ON, ME, IT WEST HE N, HERR SHAST HEETSO GO FOR MINOR HE IS	THE DEMANDS OF A PERSON SECRET HAD DAILY EXPRISITED TO THE E WITHOUT THE SOURCE WITHOUT COMMENT OF THE PROPERTY OF THE COMMEN HAD MAKE A WALANGE IT THE PROPERTY WITHOUT WHICH TO SEARCH PROPERTY AND INITIALIZED, SEC IN THE RECEIVED ON POSSIPPORTION OF THE COMMENT OF PARTY POR LEDGE, NOTICE THE RECEIVED OF THE COMMENTS.
REVISION	DATE	DESCRIPTION
1 -	01/24/2019	REVISED WELL PAD DIMENSIONS
2	02/01/2019	REVISED WELL PAD DIMENSIONS
2	02/05/2019	REVISED CELLAR DETAIL
4	04/29/2019	REVISED TO INCLUDE ACCESS TO PUBLIC ROAD
3	05/17/2019	STATE OF STA
6	05/29/2019	REMSED PER WYDER COMMENTS



TITLE SHEET HG MND 23 MARSHALL COUNTY WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

ROVED WEP 01/16/2019
CNID WEP 01/02/2019
WN WFR 12/20/2019
UNCT No. 4000-PA007837
ORAWNG NUMBER
PA007837-01

Dial 811 or 800.245.4848



WEST VIRGINIA

YOU DIG!

 SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL RP RESPONSIBLE FOR LOCATING MAINTAINING AND REPLACING AS NECESSARY TO BREUNE CONTINUAL SERVICE.

(4000-PA007837 HC MHD 23\DRAWINGS\PA007837 NND 23 TITE SHEET.0WC,5/29/2019 11:53