

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, September 13, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit approval for MND11 N-1H 47-051-02403-00-00

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.

Operator's Well Number: MND11 N-1H

Farm Name: HG ENERGY II APPALACHIA

U.S. WELL NUMBER: 47-051-02403-00-00

Horizontal 6A New Drill Date Issued: 9/13/2021

API Number:	
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PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

4705102408

API NO. 47-___-

OPERATOR WELL NO. MND11 N-1H
Well Pad Name: MND11

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

1) Well Operator: HG Energy II A	ppalachia, 494519932 Marshal	Franklin Powhatan Point
	Operator ID County	District Quadrangle
2) Operator's Well Number: MND1	1 N-1H Well Pad Name:	MND11 /
3) Farm Name/Surface Owner: CONST	DUHG Energy II Appalachia, LLC Public Road Access:	Nixon Ridge Road (SLS 21/1)
4) Elevation, current ground: 125	2' Elevation, proposed post-cons	truction: 1234'
5) Well Type (a) Gas x Other	Oil Underground S	Storage
(b)If Gas Shallow Horizon		
6) Existing Pad: Yes or No No		
7) Proposed Target Formation(s), De Marcellus, 6474' - 6540', 66' Thick,	epth(s), Anticipated Thickness and Expect 4204 psi	Same Stop 8-2-21
8) Proposed Total Vertical Depth:	6535'	7
9) Formation at Total Vertical Depth	: Marcellus	
10) Proposed Total Measured Depth	: 15,033' /	
11) Proposed Horizontal Leg Length	7,997'	
12) Approximate Fresh Water Strata	Depths: 538', 801', 898', 947'	
13) Method to Determine Fresh Wat	er Depths: Nearest offset wells	
14) Approximate Saltwater Depths:	None	
15) Approximate Coal Seam Depths	: 840' - 845'	
16) Approximate Depth to Possible	Void (coal mine, karst, other): None ant	icipated
17) Does Proposed well location cordirectly overlying or adjacent to an a		No RECEIVED
(a) If Yes, provide Mine Info: Na	ame: Marshall County Mine	AUG 1 2 202)
De	epth: 890' to seam base	MW Firmular const
Se	am: Pittsburgh #8	Environmental Protection
Ov	wner: Murray Energy Corporation	

WW-6B (04/15) API NO. 47- 051 - 02403

OPERATOR WELL NO. MND11 N-1H
Well Pad Name: MND11

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94	40'	40'	Drilled In
Fresh Water	13 3/8"	New	J-55	54.5	1150'	1150'	CTS
Coal							
Intermediate	9 5/8"	New	J-55	40	3150'	3150'	CTS
Production	5 1/2"	New	P-110	23	15033'	15033' <	CTS
Tubing							
Liners							

908 3/11/21

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	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, lead yield = 1.19, CTS
Tubing							
Liners							

PACKERS

Kind:			
Sizes:			
Depths Set:			
	!		1

WW-6B
(10/14)

API NO. 47-051 - 0 2403

OPERATOR WELL	NO. MND11 N-1H
Well Pad Name:	MND11

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 horizontal leg to estimated 7,997' lateral length, 15,033' TMD. Hydraulically fracture and stimulate and be capable of producing from 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): 17.603 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 10.00 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." CFGEIVED
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: இத்திக்கி ந்திக்கி நிதிக்கி நிதிக்கி

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25) Proposed borehole conditioning procedures:

WV Department of Environmental Protection

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 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. 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.

MND11 Well Pad (N-1H to N-4H) Cement Additives

Material Name	Material Type	Material Description Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8 1309-48-4
	BOARD TEST	strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	0.1-1	14808-50-7
Premium NE-1	Portland Cement				
		Commonly called gel, it is	Ingredient name	%	CAS number
		a clay material used as a cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
	0.515	water.			
lentonite	Extender				
		A powdered, flaked or	Ingradient name	%	CAS number
		pelletized material used	Ingredient name Calcium chloride	90 - 100	10043-52-4
		to decrease thickening time and increase the rate	Servers of Servers	-2.000	
		of strength development			
alclum Chloride	Accelerator				
		Graded (3/8 to 3/4 Inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
lle Clabe	Land Classification	a lost circulation material.	Many of the Control o		
ello Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in cementing operations. It			
		is very effective	Ingredient name	%	CAS number
		minimizing air	Tributyl phosphate	90 - 100	126-73-8
		entrapment and preventing foaming			
		tendencies of latex			
		systems.			
P-13L	Foam Preventer				
		10.120.00	Ingredient name	%	CAS number
ennillated Sugar	Retarder	Used to retard cement returns at surface.	Sucrose	90 - 100	57-50-1
Granulated Sugar	Retarder	A proprietary product			
		that provides expansive			
		properties and improves	Free Wilderson	la:	0.00
		bonding at low to moderate	Ingredient name Calcium magnesium oxide	% 90 - 100	37247-91-9
		temperatures.	Section inagresion wise	30 - 100	5,211,515
C-1		NAME OF THE OWNER OF THE OWNER.			
		Multi-purpose polymer additive used to control	F		1000
		free fluid, fluid loss,	Ingredient name	%	CAS number
10, 421	3.6.7	rheology, and gas	No hazardous ingredient		
MPA-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with cement, Pozzolan can be			
		used to create	Ingradient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2) Calcium oxide	5 - 10 1 - 5	Offic 44808-60-7nd c
		slurries used as either a	Security States	1, 2	
		filler slurry or a sulfate resistant completion			AUG 1 2 202
		cement.			
oz (Fly Ash)	Base				WV Department of
		A low temperature		Er	vironmental Protec
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend the slurry thickening time.			
		with annual annual control control			
-3	Retarder				
-3	Retarder			T _{ee}	040
t -3	Retarder		Ingredient name	%	CAS number
č- 3	Retarder		2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.
7. 3	Retarder	Used to water wet casing and formation to facilitate	2-Butoxyethanol	20 - 30	111-76-2



MND11 N-1H

		_				14477	M4 N 411 611		Indicate in	County, WV 14460221.48N 1706979.97E		
							-1.1.1.1.1.1.1.1.1					
Ground	Elevation	1234'	(RKB)			MN	D11 N-1H LI	14460130.47N 1707453.23E				
Azm		AL EST	323	3.643°		MND	11 N-1H BH	IL		14466570.88N 1702712.34E		
WELLBORE DIA	AGRAM	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
		20*	20" 94# J-55	Conductor	0	40	AIR	Drilled in via Dual Rotary (no annular space) "sanded in"	N/A	Once at casing setting depth, ensure hole is clean at TD	Conductor casing = 0.43 wall thickness Burst=2110 pai	
XIII	x			Fresh Water	538' 801	, 898', 947'						
			13-3/8" 54.5#	Surface Casing	0	1150		15,6 ppg Class A Neat 94#/sk	Bow Springs (over collars) on first 2 joints	Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimum of 1	Surface casing = 0.380° v	
×	×	17.5"	.l-55 BTC	Coal(s)	911'	- 916	AIR	40% Excess Yield=1.18 / CTS	then every third joint to 100' from surface	hole volume, plus 30 bbls of 5% hentonite Gal/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement.	thickness Eurst=2730 psi	
X	x	12.25"		Big Lime / Big Injun	2165 / 2269	2258 / 2300	AIR	15.6 ppg Class A 94#/sk 1% Caldium BWCC - 40% Excess Yield=1.2 / CTS	Bow Springs (over collars) on first 12 joints, then every third joint to 100' from surface	of poly flake, then clear casing w/ Fresh Water prior to pumping cement Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until rotums and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.		
			9-5/8" 40# J-55 BTC	Pocono	2474						Intermediate casing = 0.3	
				5th Sand	2635						wall thickness Burst=3950 psi	
X	X			Gordon Intermediate Casing	3047	3150					Production casing = 0.361" wall thickness Burst=12640 psi Note:Actual centralizer schedules may be changed due to hole conditions	
×	×	8.75" Vertical					AIR and/or 9.0ppg SOBM		Run 1 spiral centralizer every 5 joints from the top of the curve to surface.			
				Rhinestreet	5956	6248		20070				
			5-1/2"	Cashaqua	6248	6312	Air then	Class A 14.8 ppg Yield 1.34 D255 – 0.4% BWOB Fluid Loss D198 – 0.55% BWOB Retarder				
×	X	8.75" / 8.5"	20#	Middlesex	6312	6335						
	200	Curve	P-110 HP CDC HTQ	West River	6335	6402	11.5ppg- 12.5ppg SOBM	D047 - 0.02 gal / sack Anti Foam	Run 1 spiral centralizer			
			3.00	Burkett Tully	6402 6420	6420 6449	- Starting Section	D208 – 0.05% BWOB Viscosifier 10% Excess	every 3 joints from the 1st 5.5" long joint to the top of the curve.			
				Hamilton	6449	8484						
				Marcellus	6484	8540						
		8.5* Lateral		LPTMD/TVD	15033	3535	11.5ppg- 12.5ppg SOBM					
x	x		म	Onondaga	6540		11000000				1 1	
		Х		X				X	X	X		
	7	5535' TVD / 032' MD	/V De	Re Iffice of AUG	5-1/2" 20#1	emented Long String P-110 HP CDC HTQ				+/-8001' ft Lateral	TD @ +/-6535' TVD +/-15033' MD	
X		Х	XI II		X		X	X			X=centralizers	
			ratection	VED and Gas								

API Number 47	051	02403
Operator	's Well	No MND11 N-1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907	
Watershed (HUC 10) Short Creek - Ohio River Quadrangle Powhatan Point 7.5'	
	No
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No V If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number)
Reuse (at API Number TBD - At next anticipated well	
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approximate the collected in a closed loop system.	roved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air, W	
-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, removed offsite, etc. Approved Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated w West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLU on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protectio provisions of the permit are enforceable by law. Violations of any term or condition of the general permit law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information form and all attachments thereto and that, based on my inquiry of those individuals immedobtaining the information, I believe that the information is true, accurate, and complete. I am aware the penalties for submitting false information, including the possibility of fine or imprisonment.	n. I understand that the and/or other applicable ation submitted on this diately responsible for
Company Official Signature Diane White	AUG 1 2 2021
Company Official (Typed Name) Diane White	
Company Official Title Agent	WV Department of Environmental Protection
Subscribed and sworn before me this 27th day of Julyl , 20 21	
Notary Public Notary Public	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST MARK J SCHALL
My commission expires $11/2(2021)$	PO Box 5518, Vienna, WV 26

Cuttings Disposal/Site Water

Cuttings – Haul off Company:

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

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

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

Disposal Locations:

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

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

Sycamore Landfill Inc. Permit #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
Office of Oil and Gas

AUG 1 2 2021

WV Department of Environmental Protection

09/17/2021

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

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739

St. Clairsville, OH 48950

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

Disposai Locations:

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

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

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Olifleid Serv 301 Commerce Drive Moorestown, NJ 08057

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

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

Burns Drilling & Excavating 618 Crabappie Road P.O. Bos Wind Ridge, PA 15380 Office of Oil and Gas

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Nichios 1-A (SWIW #18) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

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

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

09/17/2021

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

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

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

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, 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 keya UIC Barnesville 1 & 2 CNX Gas Com...;any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-823-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4197-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

RECEIVED
Office of Oil and Gas

AUG 1 2 2021

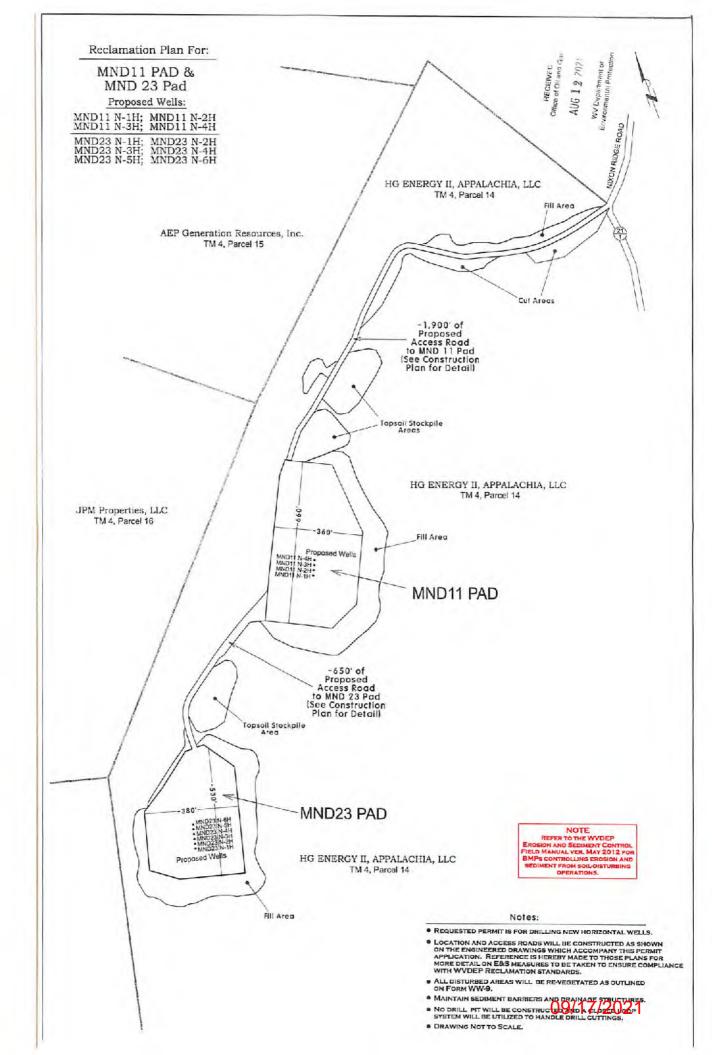
WV Department of Environmental Protection

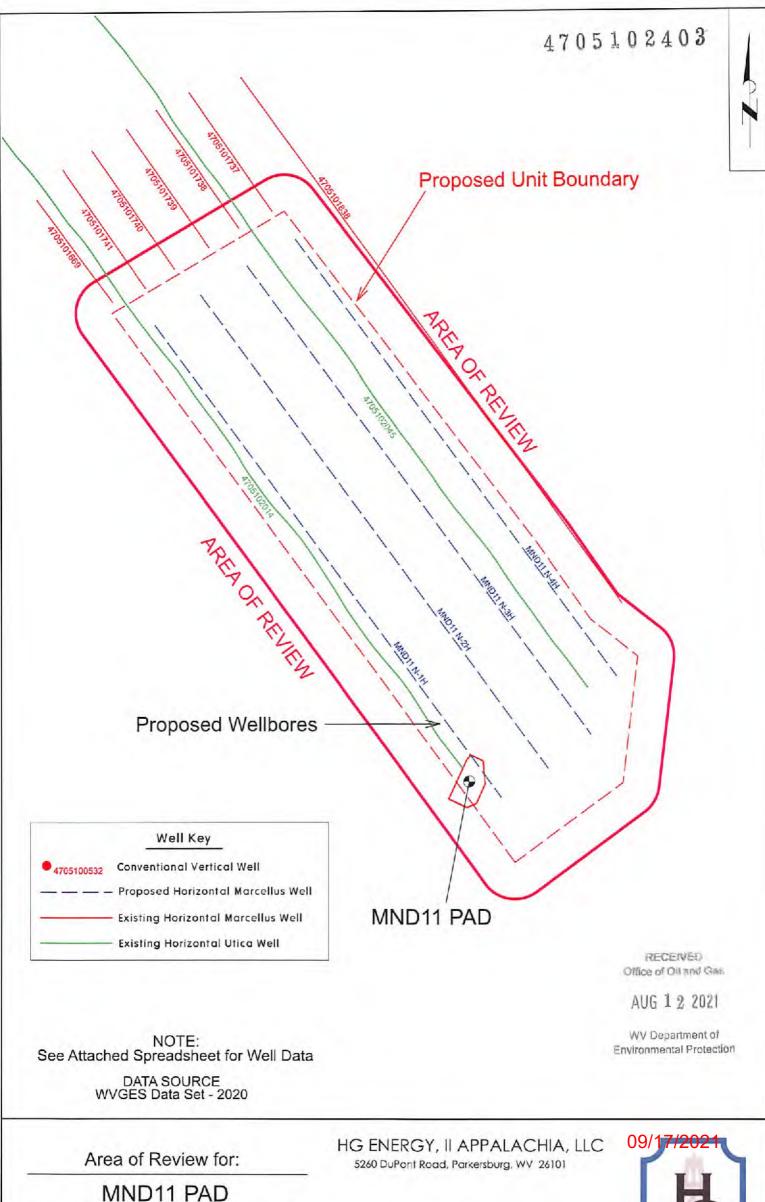
Title: Oil & Gas Inspector

Field Reviewed?

LIC Francis II Annals		Operators w	ell No. MND11 N-1H
HG Energy II Appala	achia, LLC		
Proposed Revegetation Treatr	ment: Acres Disturbed 17.603 ac	Prevegetation pH	
Lime	3 Tons/acre or to correct to pH		
Fertilizer type10-	-20-20		
Fertilizer amount	500 _{lbs/}	acre	
Mulch_ Hay	2 Tons/ac	re	
	Seed	Mixtures	
Ter	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach:			
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involving	ved 7.5' topographic sheet.	ensions (L x W x D) of the pit, and	dimensions (L x W), and area
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involving	pit will be land applied, include dim on area. wed 7.5' topographic sheet.	ensions (L x W x D) of the pit, and	dimensions (L x W), and area
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involving	pit will be land applied, include dim on area. ved 7.5' topographic sheet.	ensions (L x W x D) of the pit, and	dimensions (L x W), and area
provided). If water from the pacreage, of the land application of involved section of involved by: Plan Approved by: Comments: Pre-seed/	pit will be land applied, include dim on area. wed 7.5' topographic sheet.	sonably possible per	dimensions (L x W), and area
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	pit will be land applied, include dim on area. wed 7.5' topographic sheet.	sonably possible per	dimensions (L x W), and area
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/	pit will be land applied, include dim on area. wed 7.5' topographic sheet.	sonably possible per	dimensions (L x W), and area
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of involve Photocopied section of involve Plan Approved by: Comments: Pre-seed/	pit will be land applied, include dim on area. wed 7.5' topographic sheet.	sonably possible per	dimensions (L x W), and area
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	pit will be land applied, include dim on area. wed 7.5' topographic sheet.	sonably possible per	regulation.

Date: 8-2-21





Proposed MND11 N-3H Proposed MND11 N-4H

Franklin District, Marshall County, W.Va.

Proposed MND11 N-1H Proposed MND11 N-2H

7/26/2021

0 1,320' SCALE: 1" = 1,320'



39.850451

39.850417

39.849794

39.851731

39.851774

-80.792003

-80.792034

-80.774299

-80.802995

-80.803054

MND11 PAD AND PROPOSED WELLS N-1H, N-2H, N-3H & N-4H **OPERATOR NAME** FORMATION NAME WELL TYPE TVD STATUS LATITUDE LONGITUDE COUNTY FARM API CT ACTIVE HG ENERGY II APPALACHIA MARCELLUS SHALE Horizontal Gas Production 6,299 39.850397 -80.792052 MARSHALL MND3 FHS 1 4705101669 **ACTIVE** MARSHALL HG ENERGY II APPALACHIA MARCELLUS SHALE Horizontal Gas Production 6,288 39.850553 -80.791912 2 4705101737 MND3 AHS **ACTIVE** MARSHALL MND3 BHS HG ENERGY II APPALACHIA MARCELLUS SHALE Horizontal Gas Production 6,261 39.850519 -80.791942 3 4705101738 MARCELLUS SHALE ACTIVE HG ENERGY II APPALACHIA Horizontal Gas Production 6,282 39.850485 -80.791973 4705101739 MARSHALL MND3 CHS 4

MARCELLUS SHALE

MARCELLUS SHALE

MARCELLUS SHALE

UTICA SHALE

UTICA SHALE

Horizontal Gas Production

6,276

6,271

6,175

10,700

10,700

HG ENERGY II APPALACHIA

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

MARSHALL

MARSHALL

MARSHALL

MARSHALL

MARSHALL

MND3 DHS

MND3 EHS

MND1 FHS

MND20 DU

MND20 EU

5

6

7

8

9

4705101740

4705101741

4705101838

4705102014

4705102045

ACTIVE

ACTIVE

ACTIVE

DRILLED - NOT COMPLETED

DRILLED - NOT COMPLETED

HG Energy II Appalachia, LLC

Site Safety Plan

MND 11 Well Pad 1931 Nixon Ridge Lane Moundsville, Marshall County, WV 26041

July 2021: Version 1

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

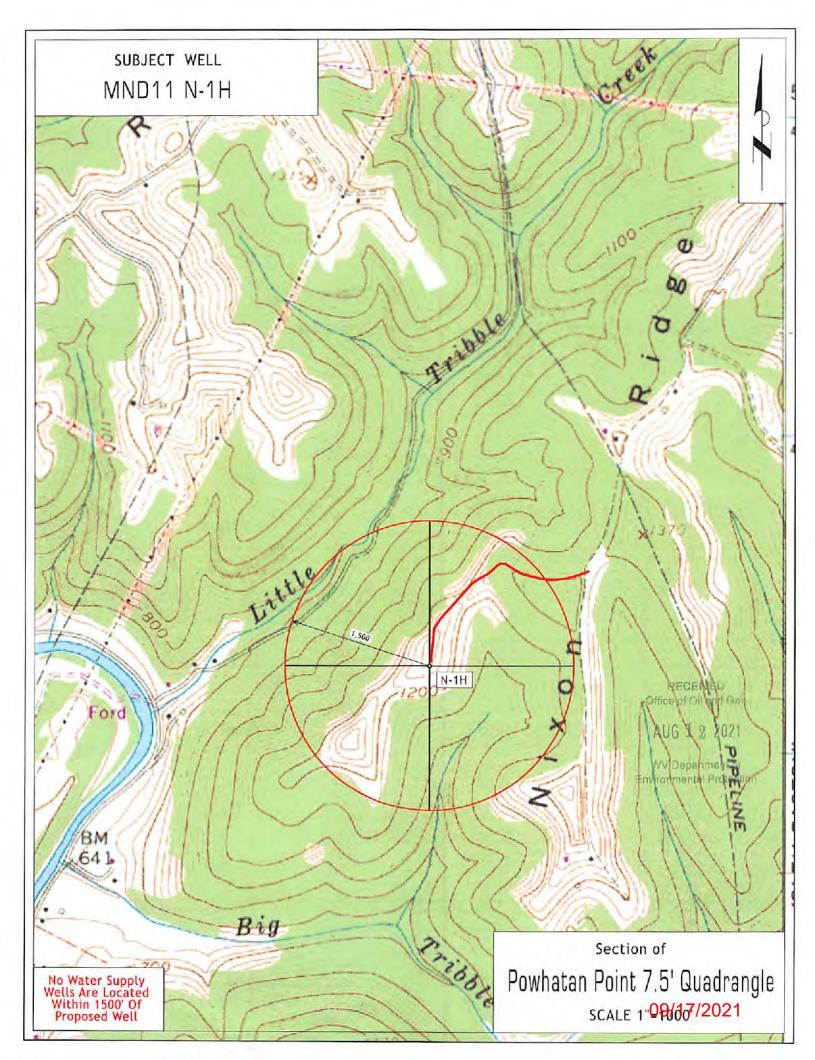
HG Energy II Appalachia, LLC. Office of Oil and

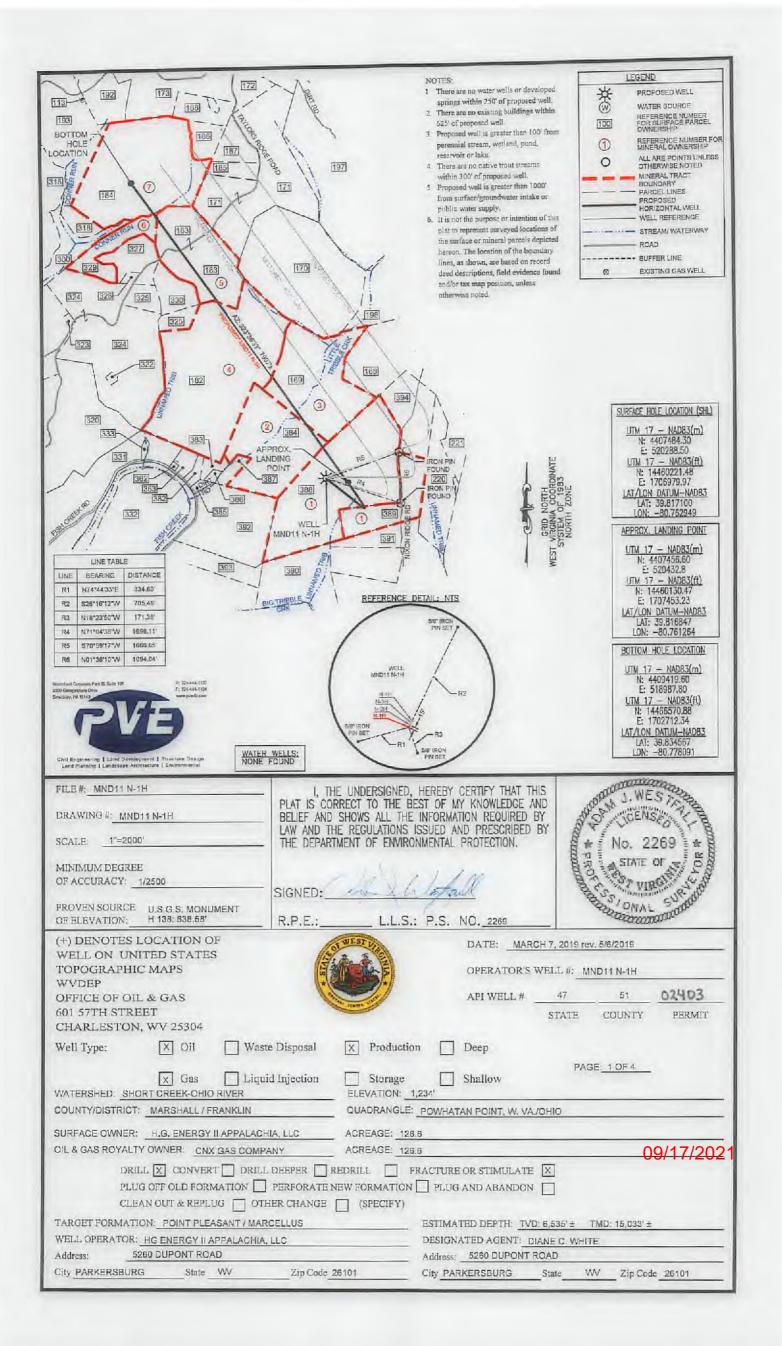
AUG 1 2 2021

5260 Dupont Road

WV Department of Environmental Protection

Parkersburg, WV 26101





Dot	tom Hole is located on topo map	5.913 feet south of Latitude	e:39° 50' 00"
NOTES: 1. There are no water wells or developed springs within 250 of proposed well.		728 feet south of Latitude:	39° 52' 30"
2. There are no existing buildings within 625' of proposed well.			4 4
Proposed well is greater than 100' from perennial stream, wetland, pond,			Bortom Hole is located on t Well is located on topo map
reservoir or lake			is lo
Within 300' of proposed well.			Hole
 Proposed well is greater than 1000' from surface/groundwater intake or 	12		ed or
public water supply. It is not the purpose or intention of this			located located on topo
plat to represent surveyed locations of the surface or mineral parcels depicted			oo n
hereon. The location of the boundary lines, as shown, are based on record			on topo
deed descriptions, field evidence found and/or tax map position, unless			7,8
otherwise noted.			7,889
SURFACE HOLE LOCATION (SHL)			<u></u>
<u>UTM 17 - NAD83(m)</u> N: 4407484.30			3,637
E: 520288,50 <u>UTM 17 — NAD83(ft)</u>			5
N: 14460221.48 E: 1706979.97 LAT/LON DATUM—NADB3			W. 195
LAT: 39.817100 LON: -B0.762949			/est
APPROX, LANDING POINT			of L
UTM 17 - NAD83(m)			of Longitude: 80° 4!
N: 4407456.60 E: 520432.8			feet west of Longitude:
UTM 17 - NACR3(ft) N: 14460130.47			1
E: 1707453.23 LAT/LON DATUM—NAD83			80°.
LAT: 39.815847 LON: -80.761264			80° 45' 00'
BOTTOM HOLE LOCATION			0 80
<u>UTM 17 - NAD83(m)</u> N: 4409419,60		γ	45
E: 518987.80 UTM 17 — NAD83(ft)			D
N: 14466570.88 E: 1702712.34			
<u>LAT/LON_DATUM—NAD83</u> LAT: 39.834567			
LON: -80.778091			
Withfram Concernie Red Nt. Sales 101 Pt. 724-444-1104 17. 724-444-1104 17. 724-444-1104 environment Dear Concernies Dear Concernies			
PVE			LEGEND PROPOSED SURFACE
			HOLE LOCATION ON 7.5' TOPOGRAPHIC MAP PROPOSED BOTTOM
Civil Engineering Land Development Structure Dosign Land Panning Landscape Architecture Environmental	\otimes		HOLE LOCATION ON 7.5' TOPOGRAPHIC MAP
			and the same
FILE#: MND11 N-1H	I, THE UNDERS	GNED, HEREBY CERTIFY THAT THIS THE BEST OF MY KNOWLEDGE AND	SOM J. WES
DRAWING # MND11 N-1H	BELIEF AND SHOWS AL	L THE INFORMATION REQUIRED BY	No. 2269 * STATE OF STATE
SCALE: 1"=2000"	THE DEPARTMENT OF	TIONS ISSUED AND PRESCRIBED BY ENVIRONMENTAL PROTECTION.	# No. 2269 # 8
MINIMUM DEGREE			STATE OF STATE
OF ACCURACY: 1/2500	CIONED.	1/1/10	B Cryppolic of
PROVEN SOURCE U.S.G.S. MON	SIGNED:	2 11 rayers	STONAL SUDD
OF ELEVATION: H 138: 638.58	R.P.E.:L	.L.S.: P.S. NO. 2269	*COSTACOMINA
(+) DENOTES LOCATION (WELL ON UNITED STATE	F 05	DATE: MARCH 7,	, 2019 rev. 5/6/2019
TOPOGRAPHIC MAPS		OPERATOR'S WEL	.L.#: MND11 N-1H
WVDEP	*	API WELL#	47 51 02.403
OFFICE OF OIL & GAS 601 57TH STREET	March March Con	The state of the s	TATE COUNTY PERMIT
CHARLESTON, WV 25304			
Well Type: X Oil	Waste Disposal X Pro	oduction Deep	
X Gas	Liquid Injection Sto	orage Shallow	PAGE: 2 OF 4
WATERSHED: SHORT CREEK-OH	IO RIVER ELEVAT	ION: 1,234'	
COUNTY/DISTRICT: MARSHALL /	FRANKLIN QUADRA	ANGLE: POWHATAN POINT, W. VA /OHI	0
The state of the s	Y II APPALACHIA, LLC ACREAG		
OIL & GAS ROYALTY OWNER: CN		E: 126.6	09/17/202
	RT		
	RMATION PERFORATE NEW FORM. LUG OTHER CHANGE (SPEC	The state of the s	
TARGET FORMATION: POINT PL		ESTIMATED DEPTH: TVD: 6,5	35' ± TMD: 15,033' ±
WELL OPERATOR: HG ENERGY II	APPALACHIA, LLC	DESIGNATED AGENT: DIANE	EC. WHITE
Address: 5260 DUPONT RO		Address: 5260 DUPONT ROAL	
City PARKERSBURG State	WV Zip Code 26101	City PARKERSBURG Sta	te WV Zip Code 26101

TIGE
MCGUNTOCK DALE ET. UX.
FRANKLIN REAL ESTATE CO.
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FRANKLIN REAL ESTATE CO.
FRANKLIN REAL ES

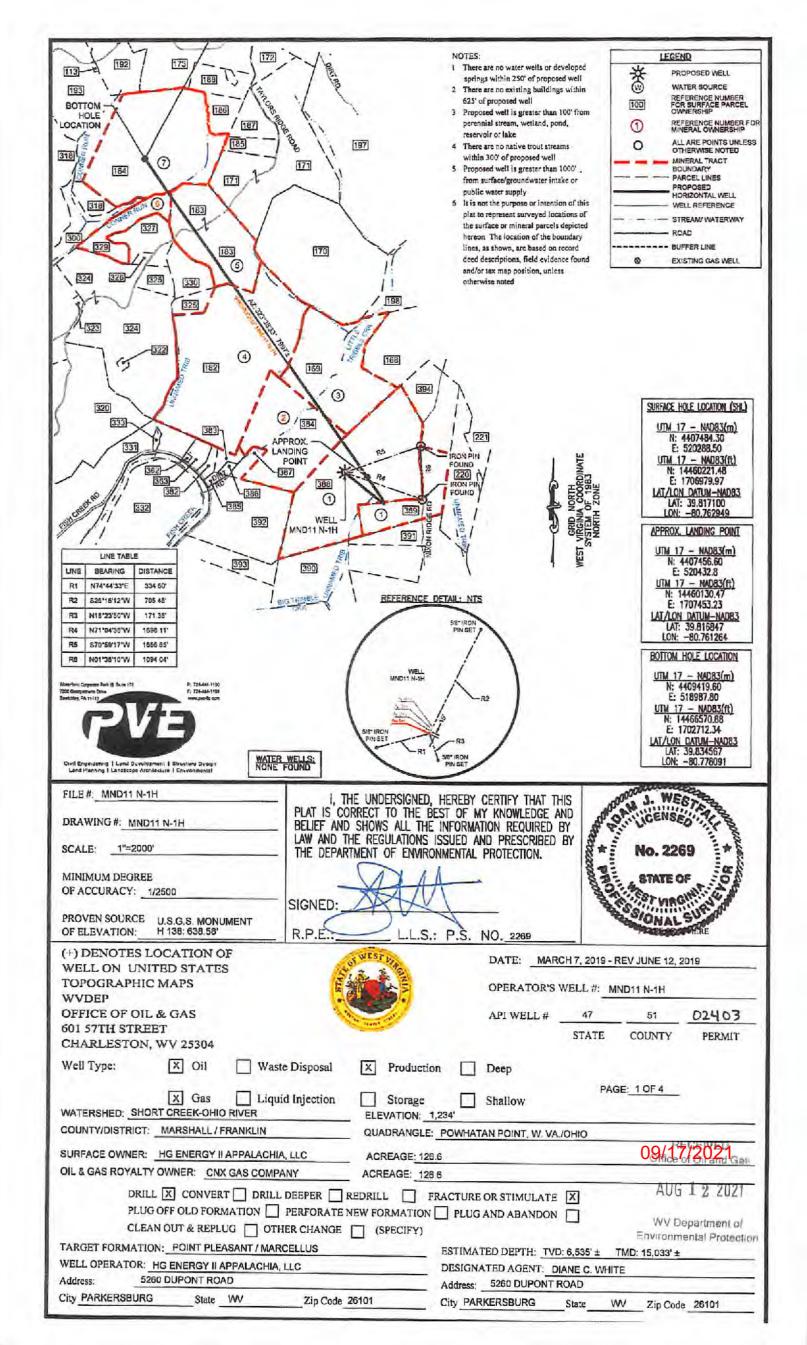


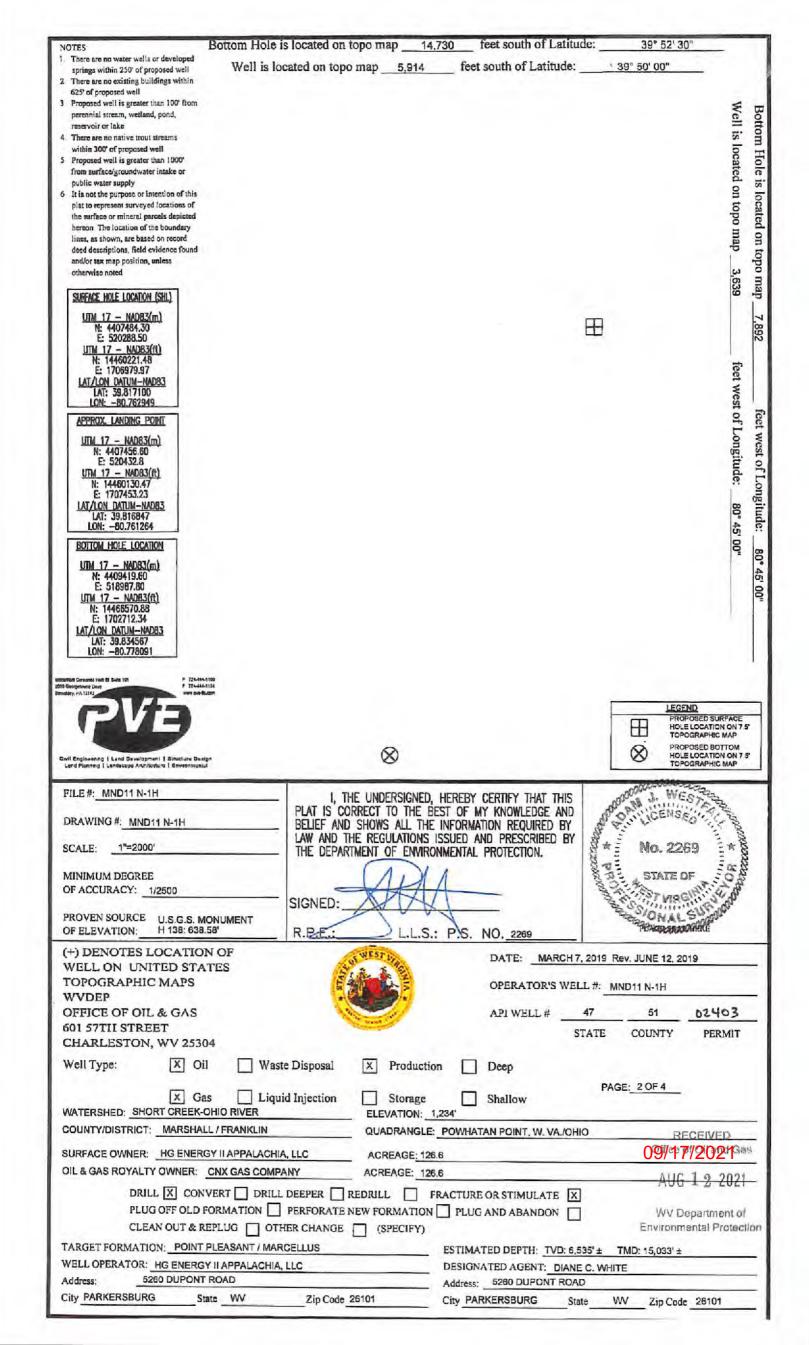
LEGEND

REFERENCE NUMBER
FOR SURFACE PARCEL
OWNERSHIP

DRAWING #: MND11 N-1H SCALE: 1"=2000" MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE U.S.G.S. MONUMENT	AW AND THE REGULATIONS ISSU HE DEPARTMENT OF ENVIRONME GNED:	OF MY KNOWLEDGE AND ORMATION REQUIRED BY ED AND PRESCRIBED BY	No. 2269 WEST VIROS		
(+) DENOTES LOCATION OF	OT WEST VA	DATE: MARCH 7	, 2019 rev. 5/6/2019		
WELL ON UNITED STATES TOPOGRAPHIC MAPS		OPERATOR'S WEI	LL#: MND11 N-1H		
WVDEP OFFICE OF OIL & GAS		API WELL#	47 51 02403		
601 57TH STREET CHARLESTON, WV 25304	Hard.	S	TATE COUNTY PERMIT		
Well Type: X Oil Waste D	isposal X Production	☐ Deep			
X Gas Liquid In WATERSHED: SHORT CREEK-OHIO RIVER	njection Storage ELEVATION: 1,234	Shallow	PAGE: 3 OF 4		
COUNTY/DISTRICT: MARSHALL / FRANKLIN	QUADRANGLE: PO	WHATAN POINT, W. VA./OH	10		
SURFACE OWNER: H.G. ENERGY II APPALACHIA,	LLC ACREAGE: 126.6				
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY	ACREAGE: 126.6		09/17/2021		
DRILL X CONVERT DRILL DE PLUG OFF OLD FORMATION PE CLEAN OUT & REPLUG OTHER	RFORATE NEW FORMATION]		
TARGET FORMATION: POINT PLEASANT / MARCE	LLUS ES	TIMATED DEPTH: TVD: 6,	535' ± TMD: 15,033' ±		
WELL OPERATOR: HG ENERGY II APPALACHIA, LL		ESIGNATED AGENT: DIANI			
Address 5260 DUPONT ROAD	The second secon	idress: 5260 DUPONT ROA			
City PARKERSBURG State WV	Zip Code 26101 Ci	ty PARKERSBURG Str	ate WV Zip Code26101		

	MPID	Ongmal Lessor	Original Lessee	Surface Parcel Code	6	05-0005-0009-0001-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	329
1	05-0004-0014-0300-0000 05-0004-0014-0301-0000 05-0004-0014-0007-0000	MILLER CHARLES W	CHEVRON USA INC	388, 389, 394				HG ENERGY II	
		PARSONS PAUL ET UX	CHEVRON USA INC				NOBLE ENERGY INC	APPALACHIA, LLC	
		RUSSELL SHARON LYN	CHEVRON USA INC				WesBanco Trust & Investment Services, a		
1		HUFF TIMOTHY ET UX	CHEVRON USA INC		7	05-0002-0012-0000-0000	Division of WesBanco, Inc., Trustee of the John	NOBLE ENERGY INC	184
		ARNOLD LLOYD C ET UX	CHEVRON USA INC				T, Gallagher Scholarship Trust		
		KURPIL RICHARD ET UX	CHEVRON USA INC				Consolidation Coal	CNX Gas Company, LLC	
		CLIFTON CLARA MAE	CHEVRON LISA INC		-		Company	Noble Energy, Inc.	
-		EDWARDS GEORGE ET	CHEVRON USA INC		-		CNX Gas Company, LLC	HG ENERGY II	
		UX KYLE DONNA FAE	CHEVRON USA INC				NOBLE ENERGY INC	APPALACHIA, LLC	
		CONNERJUDITH MAY	CHEVRON USA INC						-
		SCHEIBELHOOD PAUL	AB RESOURCES LLC						
		AB RESOURCES LLC	NPAR LLC	-					
		NPAR LLC	Chevron USA INC						
		Chevron USA INC	HG ENERGY II						
			APPALACHIA, LLC	704					
2	05-0004-0015-0000-0000	Terry Holman	TriEnergy Holdings	384					
		TriEnergy Holdings	Chevron USA INC						
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC						
3)	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	169					
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC						
4	05-0005-0012-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	182					
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC						
					Waterfeet Do	morate Profe El. Same fir: P	724-434-1160		
(5)	05-0005-0011-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	183	Waterhead Eco 2000 Georges Semiotory, PA	wile Drive Fi	724-040-11/04 W249-000-11/04	LEGEND	
5	05-0005-0011-0000-0000	Resources Inc. and Kentucky Power	Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC	183	2000 Designing PA	wile Drive Fi	Taken-Triek scare-distant	LEGEND. REFERENCE NUMBER MINERAL OWNERSH	R FOR
DRAV DRAV MINININI MODF AC	#: MND11 N-1H WING #: MND11 N-1H E: 1"=2000" MUM DEGREE CCURACY: 1/2500 WEN SOURCE U.S.G.S	Resources Inc. and Kentucky Power Company NOBLE ENERGY INC	I, THE PLAT IS CORI BELIEF AND S LAW AND THE THE DEPARTM	UNDERSI RECT TO SHOWS AL REGULAT MENT OF I	Christing, PA Christ	HEREBY CERTIFY THAT IT OF MY KNOWLEDGE NFORMATION REQUIRED SUED AND PRESCRIBE MENTAL PROTECTION.	THIS AND BY	REFERENCE NUMBER MINERAL OWNERSH	and a second
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PROVIDE SCALE WINING PROVIDE BL CHA CHA CHA WATE	#: MND11 N-1H WING #: MND11 N-1H E: 1'=2000' MUM DEGREE CCURACY: 1/2500 WEN SOURCE U.S.G.S. JEVATION: H 138: 6 DENOTES LOCATI LL ON UNITED ST OGRAPHIC MAPS DEP ICE OF OIL & GAS STTH STREET ARLESTON, WV 25 Type: X ERSHED: SHORT CR	Resources Inc. and Kentucky Power Company NOBLE ENERGY INC MONUMENT 38.58' TON OF TATES S S S Gas Lique EEK-OHIO RIVER	I, THE PLAT IS CORE BELIEF AND S LAW AND THE THE DEPARTM SIGNED: R.P.E.:	WINDERS! RECT TO SHOWS ALL REGULATION OF I	GNED, HTHE BES L THE I THON'S IS ENVIRON LANGE ENVIRON LANGE ENVIRON Cover the property of	EREBY CERTIFY THAT TOF MY KNOWLEDGE NFORMATION REQUIRED SUED AND PRESCRIBE MENTAL PROTECTION. P.S. NO. 2269 DATE: MA OPERATOR: API WELL #	THIS AND BY DRIVEN SWELL#: MND1 47 STATE PAGE:	NO. 2269 STATE OF SOUND STATE OF STATE	SO SON SON SON SON SON SON SON SON SON S
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SCALE: 1"=2000'	LAW AND THE REGULATIONS ISSU THE DEPARTMENT OF ENVIRONME	JED AND PRESCRIBED ENTAL PROTECTION.	BY	No. 22	69 **
MINIMUM DEGREE OF ACCURACY: 1/2500	SIGNED:		PRODUCT	STATE	OF OR
PROVEN SOURCE U.S.G.S. MONUMENT H 138: 638.58'	R.P.E.: L.L.S.: F	P.S. NO. 2269	_	PANONAL	SUMM
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OFFICE OF OIL & GAS		API WELL#	47	51	02403
601 57TH STREET CHARLESTON, WV 25304	teant		STATE	COUNTY	PERMIT
Well Type: X Oil Waste	Disposal X Production	Deep			
X Gas Liquid	d Injection Storage	Shallow	PAC	SE:_ 3 OF 4	
COUNTY/DISTRICT: MARSHALL / FRANKLIN		WHATAN POINT, W. VA.	/OHIO	inc.	OCUED.
SURFACE OWNER: HG ENERGY II APPALACHIA				09/1	7/2021
OIL & GAS ROYALTY OWNER: CNX GAS COMPA	NY ACREAGE: 126.6			ATIO	1 0 0001
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TARGET FORMATION: POINT PLEASANT / MARC	DELLUS ES	STIMATED DEPTH: TVD	: 6,535'±	TMD: 15,033' ±	
WELL OPERATOR: HG ENERGY II APPALACHIA,		ESIGNATED AGENT: DI			
Address: 5260 DUPONT ROAD	Ac	dress: 5260 DUPONT F	ROAD		
City PARKERSBURG State WV	Zip Code 26101 Ci	ty PARKERSBURG	State V	W Zin Cod	e 26101

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1	05-0004-0014-0001-0000 05-0004-0014-0002-0000	MILLER CHARLES W	CHEVRON USA INC	389, 394			Company		
		PARSONS PAUL ET UX	CHEVRON USA INC				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		RUSSELL SHARON LYN	CHEVRON USA INC				WesBanco Trust &		
		HUFF TIMOTHY ET UX	CHEVRON USA INC		0	05-0002-0012-0000-0000	Investment Services, a Division of WesBanco,	NOBLE ENERGY INC	184
		ARNOLD LLOYD C ET UX	CHEVRON USA INC			32 0032 0012 0030	inc Trustee of the John T Gallagher Scholarship Trust	I I I I I I I I I I I I I I I I I I I	10
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		AEP Generation Resources Inc. and							
3	05-0004-0015-0000-0000	Kentucky Power Company	Noble Energy, Inc	159					
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC						
4	05-0005-0012-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, inc	182					
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WW-6A	l
(5/13)	

Operator's	Well No.	MND11 N-1H

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 -

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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Office of Oil and Gas

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, AGG 1 2 2021 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. Protection

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

Page 1 of _______

HG Energy II Appalachía, LLC MND11 N-1H Lease Chains

HG Plat Number	r MPID	Original Lessor	Original Lessee	Royalty	Book	Page
	05-0004-0014-0000-0000 05-0004-0014-0001-0000	MILLER CHARLES W	CHEVRON USA INC	Not less than	050	ea.
1)	05-0004-0014-0002-0000	PARSONS PAUL ET UX	CHEVRON USA INC	1/8 Not less than	853	59
		RUSSELL SHARON LYN	CHEVRON USA INC	1/8 Not less than	853	430
		HUFF TIMOTHY ET UX	CHEVRON USA INC	1/8 Not less than	853	422
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	1/8 Not less than	864	47
		CRONIN MARY JO	CHEVRON USA INC	1/8 Not less than	864	39
		KURPIL RICHARD ET UX	CHEVRON USA INC	1/8 Not less than	864	43
		CLIFTON CLARA MAE	CHEVRON USA INC	1/8 Not less than	863	594
		EDWARDS GEORGE ET UX	CHEVRON USA INC	1/8 Not less than	853	426
		KYLE DONNA FAE	CHEVRON USA INC	1/8 Not less than	853	418
		CONNER JUDITH MAY	CHEVRON USA INC	1/8 Not less than	853	449
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	1/8 Not less than	853	445
				1/8	695	629
		AB RESOURCES LLC NPAR LLC	NPAR LLC Chevron USA INC HG ENERGY II		25 756	484 332
		Chevron USA INC	APPALACHIA, LLC		41	154
			A. v term of the sec	Not less than		
2)	05-0004-0016-0000-0000	Terry Holman TriEnergy Holdings	TriEnergy Holdings Chevron USA INC	1/8	721 28	557 239
		Chevron USA INC.	HG ENERGY II APPALACHIA, LLC		41	154
		AEP Generation Resources Inc. and Kentucky		Not less than		
3)	05-0004-0015-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	15/
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
		AEP Generation Resources Inc. and Kentucky		Not less than		
4)	05-0005-0012-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	15/
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
5)	05-0005-0011-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc. HG ENERGY II	Not less than 1/8	829	157
		NOBLE ENERGY INC	APPALACHIA, LLC	AUC 7 N 00) 39	1
		AEP Generation Resources Inc. and Kentucky	100 70 100 100 100 100 100 100 100 100 1	Not less than	1	
6)	05-0005-0009-0001-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1 /8 ŏepannio *		157
		NOBLE ENERGY INC	APPALACHIA, LLC	Environmenta 9/01	39	1
		WesBanco Trust & Investment Services, a				
	ATTO DANGE TO THE	Division of WesBanco, Inc., Trustee of the				
7)	05-0002-0012-0000-0000	John T. Gallagher Scholarship Trust	NOBLE ENERGY INC	Fee	646	493
	05-0006-0003-0000-0000	Consolidation Coal Company CNX Gas Company, II C	CNX Gas Company, LLC Noble Energy, Inc.	Fee 09/17/2	752 2023	66 1
		NONE PARACULA	HG ENERGY II	Not less than	7.6	20.5
		NOBLE ENERGY INC	APPALACHIA, LLC	.1/8	803	350



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

July 27, 2021

Kelly Kees WV DEP Division of Oil & Gas 601 57th Street Charleston, WV 25304

02403

RE: Drilling Under Roads – MND11 N-1H (47-051-0221H)

Franklin District, Marshall County

West Virginia

Dear Ms. Kees -

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

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Office of Oil and Gas

AUG 1 2 2021

WV Department of Environmental Protection

09/17/2021

02403

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

Date of Notic	e Certification: 07/27/2021		No. 47		02403
				Well No. MND1	1 N-1H
		Wei	II Pad N	ame: MND11	
Notice has b	peen given:				
Pursuant to th	e provisions in West Virginia Code § 22-6A,	the Operator has provided	i the req	uired parties w	ith the Notice Forms listed
	tract of land as follows:	_	.•		
State:	West Virginia		ting:	520288.5	
County:	Marshall	Nor	thing:	4407484.3	1 (0) 0 04(4)
District:	Franklin	Public Road Access:		Nixon Ridge Road	1 (SLS 21/1)
Quadrangle:	Powhatan Point /	Generally used farm r	name:	CONSOL	
Watershed:	Short Creek - Ohio River				
it has provide information reof giving the requirements Virginia Code	the secretary, shall be verified and shall controlled the owners of the surface described in surface by subsections (b) and (c), section six surface owner notice of entry to survey pur of subsection (b), section sixteen of this art e § 22-6A-11(b), the applicant shall tender prohave been completed by the applicant.	abdivisions (1), (2) and (teen of this article; (ii) the suant to subsection (a), sticle were waived in write	4), subset the received to the time to the time by the time by the time by the time to the	ection (b), sec quirement was en of this artic the surface ow	tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice mer; and Pursuant to West
Pursuant to	West Virginia Code § 22-6A, the Operator ha	as attached proof to this N	Jotice Co	ertification	
	erator has properly served the required parties		101100		
· ·	ECK ALL THAT APPLY				OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or SEISM	OTICE NOT REQUIRED TIC ACTIVITY WAS CO			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURVEY or $f \Box$	■ NO PLAT SURVEY	WAS CO	ONDUCTED	☐ RECEIVED
☐ 3. NO	NOTIC	OTICE NOT REQUIRED CE OF ENTRY FOR PLA CONDUCTED or			RECEIVED/ NOT REQUIRED
:		RITTEN WAIVER BY S (PLEASE ATTACH)	SURFAC	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PUI	BLIC NOTICE				□ RECEIVED
■ 6. NO	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 be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be between the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below to be be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit be below the person may be made by affidavit below the person may be made by affidavit be below the person may be made by affidavit below the person may be affidavit below the person may be affidavit below the person may be affidavit below to be Office of Oil and Gas the return receipt card or other postal receipt for certified mailing.

AUG 1 2 2021

Telephone:

Certification of Notice is hereby given:

Address:

Well Operator: HG Energy II Appalachia, LLC

By: Diane White Diane White

Its: Agent

5260 Dupont Road Parkersburg, WV 26101

Facsimile: 304-863-3172

Email: dwhite@hgenergyllc.com

OFFICIAL SEAL

NOTARY PUBLIC, STATE OF WEBT VIRGINIA

MARK J SCHALL

H G Energy L L C

PO Box 5519, Vicuna, WV 26105

My Commission Expires November 2, 2021

304-420-1119

Subscribed and sworn before me this 27th day of July, 2021

Notary Public

My Commission Expires 11/2/20

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 deprivacyofficer@wv.gov.

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Office of Oil and Gata

AUG 1 2 2021

WV Department of Environmental Protection

09/17/2021

WW-6A (5-12) API NO. 47
OPERATOR WELL NO. MND11 N-111- N-4H

Well Pad Name: MND11

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 th Date of Notice: 07/29/2021 Date Permit Application Filed: 08/0	an the filing date of permit application. 16/2021	
Notice of:		
■ PERMIT FOR ANY ☐ CERTIFICATE OF API	PROVAL FOR THE	
1 1111111111111111111111111111111111111	AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-1	0(b)	
☐ PERSONAL ☐ REGISTERED ■ METH	OD OF DELIVERY THAT REQUIRES A	
	CIPT OR SIGNATURE CONFIRMATION	
for a certificate of approval for the construction of an impound or by registered mail or by any method of delivery that requires erosion and sediment control plan required by section seven of owners 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 coal gas leasehold being developed by the proposed well work coal gas and any surface owner or water purveyor who is known to the application one thousand five hundred feet of the center of the well proposed to 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 maintained pursuant to section eight, article one, chapter eleven contrary, notice to a lien holder is not notice to a landowner, unimode is hereby provided to:	a receipt or signature confirmation, copies of the appethis article, and the well plat to each of the following or is proposed to be located; (2) The owners of recorded by the proposed well work, if the surface tract is to sediment control plan submitted pursuant to subsection the event the tract of land on which the well proposed as; (4) The owners of record of the surface tract or track, if the surface tract is to be used for the placement, impoundment or pit as described in section nine of the icant to have a water well, spring or water supply so pad which is used to provide water for consumption to ge field within which the proposed well work activity of interests described in subsection (b) of this section the person described in the records of the sheriff requal of this code. (2) Notwithstanding any provision of	persons: (1) The persons: (1) The rd of the surface to be used for on (c), section to be drilled is not overlying the construction, his article; (5) arce located by humans or v is to take place. In hold interests in uired to be
■ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: HG Energy II Appalachia, LLC	Name: Murray Energy Corporation	
Address: 5260 Dupont Road	Address: 46226 National Road	
Parkersburg, WV 26101	St Clairsville, OH 43950	
Name:	□ agu anga anga	
Address:	☐ COAL OPERATOR	
	Name:	
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:	
		RECEIVED
Name: HG Energy II Appalachia, LLC Address: 5260 Dupont Road	☐ WATER PURVEYOR(s)	Office of Oil and Ga-
Parkersburg, WV 26101		AUC I a zoo.
Name:	Name:	AUG 1 2 2021
Address:	Address:	WAY
	Er	WV Department of Wironmental Protection
	OPERATOR OF ANY NATURAL GAS STO	RAGE
☐ SURFACE OWNER(s) (Impoundments/Pits)	FIELD	
Name:	Name:	
Address:	Address:	
H 2-	*Please attach additional forms if necessary	9/17/2021

API NO. 47- 051 MND11 N-IH - N-4H OPERATOR WELL NO.

Well Pad Name: MND11

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 Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wy.gov/oiland-gas/pages/default.aspx. Illies of Dill and Gas

Water Well Testing:

Pursuant to West Virginia Code § 22-6Λ-10(d), notification shall be made, with respect to surface landowners identified in 1 ≥ 2021 subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. -nvironminital Protuction

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments.

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. (c) 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

09/17/2021

WW-6A (5-12)

factors, if necessary.

API NO. 47- 051 - 0 2403

OPERATOR WELL NO. MND11 N-1H- N-4H

Well Pad Name: MND11

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

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.

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WV Department of

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- 051 - 02403 OPERATOR WELL NO. MND11 N-1H - N-4H Well Pad Name: MND11

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

304-420-1119 Diane

Telephone: 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.

DEFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINA HG Energy LLC PO Box 5519, Vienna, WV 26106 My Commission Expires November 2, 2021

Subscribed and sworn before me this 29th day of July

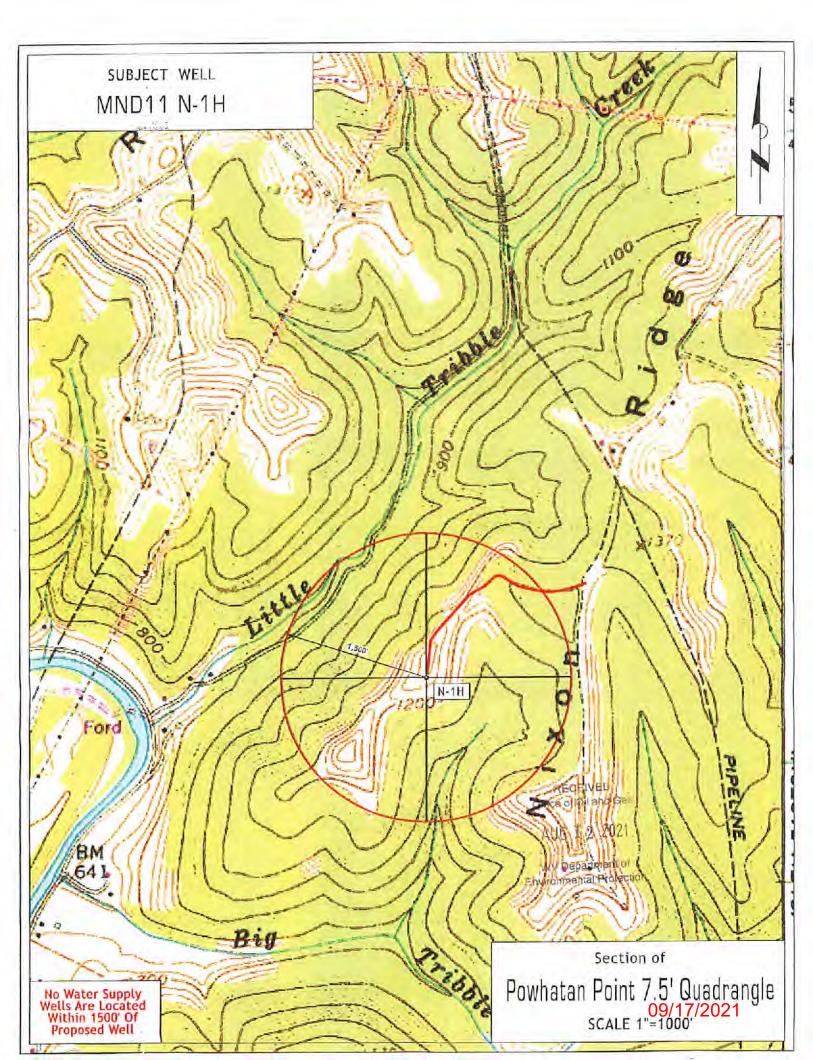
Notary Public

My Commission Expires

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WV Department of Environmental Protection



WW-6A4W (1/12) Operator Well No. MND11 N-1H

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

WAIVER

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

Surface Owner Waiver:

I, Etic 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 Marshall	UTM NAD 83	Easting: Northing:	520288.5
County: District:	Franklin	Public Road Acc	The state of the s	Nixon Ridge Road (SLS 21/1)
Quadrangle	: Powhatan Point	Generally used t	farm name:	CONSOL
Watershed:	Short Creek - Ohio River	-	C ,	00
Name: Eri	c Grayson, VP, HG Energy II Appalachia, LLC	Signature:	(no	Transer
Address: 52	60 Dupont Road			,
Pa	rkersburg, WV 26101	Date: 07/27/	/2021	

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.

Office of Oil and Gus

AUG 1 2 2021

WV Department of Environmental Protection WW-6A5 (1/12) Operator Well No. MND11 N-1H

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

	e Time Re of Notice:			o later than the filing pplication Filed: 08/0		application.	
Deliv	ery metho	d pursuant to West	Virginia Code §	22-6A-16(c)			
	CERTIFIE	D MAIL		HAND			
		RECEIPT REQUES	TED	DELIVERY			
return the pl requir drillin damas	receipt receipt receipt red to be proger to the second receipt	quested or hand deliveration. The notice of covided by subsection izontal well; and (3) our face affected by or	rery, give the surfi required by this so to (b), section ten of A proposed surfi I and gas operation	ace owner whose land ubsection shall inclu- of this article to a surf- ace use and compens as to the extent the da- to the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreemer amages are com at the address list	cation, an operator shall or the drilling of a horizo of this code section; (2 se land will be used in cont on t containing an offer of pensable under article si sted in the records of the	ontal well notice of The information onjunction with the compensation for x-b of this chapter. sheriff at the time
Notic	e is hereb	provided to the Sl	RFACE OWNE	R(s) * Dwine	r not no	oticed as is the	same as the
		sted in the records of					Operat
Name		gy II Appalachia, LLC		Name:			_
Addre	ess: 5260 Du			Address	s:		
	Parkersb	urg, WV 26101					_
This Pursu to be horize surfac inform	et: Frangle: Prshed: Si Notice Shatant to West provided ontal well: ce affected mation relaquarters, lo	by W. Va. Code § and (3) A proposed by oil and gas oper ted to horizontal dri cated at 601 57th S	22-6A-10(b) to a surface use and co ations to the exte lling may be obta	otice shall include: (1 surface owner whose ompensation agreeme nt the damages are co ained from the Secre	Northing: Access: ed farm name:)A copy of this e land will be int containing an ompensable unclary, at the WV	A407484.3 Nixon Ridge Road (SLS 21/1) CONSOL code section; (2) The in used in conjunction with offer of compensation der article six-b of this of Department of Environ or by visiting www.d.	h the drilling of a for damages to the chapter. Additional nmental Protection
gas/p	ages/defau	r.aspx.					RECEIVED Office of Oil and Har
	Operator:	HG Energy II Appalachia. L	LC	Address:	5260 Dupont Road		
	hone:	304-420-1119			Parkersburg, WV 26	6101	AUG 1 2 202
Emai	l:	dwhite@hgenergyllc.com		Facsimile:	304-863-3172		
The Courses approximately appr	Office of O s. Your per ed to comp priately se	rsonal information n ply with statutory c cure your personal in	nay be disclosed to or regulatory requ	to other State agencie uirements, including have any questions	es or third parti Freedom of In	telephone number, as pa ies in the normal course nformation Act request r your personal informat	of business or as s. Our office will



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 20, 2019

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the MND-11 Well Pad, Marshall County MND-11 N-1H 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.

Regional Maintenance Engineer Central Office O&G Coordinator

Jany K. Clayton

Cc: Diane White HG Energy II, LLC

CH, OM, D-6

File

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List of Frac Additives by Chemical Name and CAS

MND11 Well Pad (N-1H to N-4H)

	- 	
Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
-		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
	1.4.	44000 60 7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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CONSTRUCTION IMPROVEMENT PLANS FOR

WVDEP OOG CCEPTED AS-BUILT

6/3/2019

MND11 PAD

MOUNDSVILLE MARSHALL COUNTY WEST VIRGINIA

CENTER OF PAD

N 39.8171447125

W 80,7628825079

ENTRANCE

N 39.819895384

W 80.757249552*

WV Department of Environmental Protection

stimuted Gross Material Balance (CY) inal Development - Gravel Option 109,100 5.500 3,942 Road & Pump Station 12.493 B 551 121.593 112 061 9.542 9.542 CUT Est. Swell Factor 2073 13,540 Est. Topinol Stockp in Volume (Loose CY) 3,445 Est. Topsoil To Be Respread on Cut/Fill Slopes 19,737 Topsoil est, volume based on 6 inches average depth.

Material balance and aggregate quantities based on estimates and may not be representative of actual quantities.

Estimates do not reflect contractor pay volumes.

Crusher Run (Tons) 2957 | 2957

op Coat Chip & Seel (Placed SY) stimated Compost Filter Sock Length (UF) Estimated Limit of Disturbance (Acres) 17,603 1233.60 1234 05 Wed Part Surface Elevation IE:

SHT. NO. SHEET TITLE TITLE SHEET 1 2-4 SITE DEVELOPMENT PLANS 5 PAD SECTIONS 6-7 ACCESS ROAD SECTIONS GENERAL NOTES 8-9 9-13 DETAILS 14 RESTORATION PLAN 15 PROPERTY MAP

WELL #	LAT.	LONG.
1	N 39,81710022	W 80.76294849
2	N 39.81713758	W 80.76292603
3	N 39.81717493	W 80.76290357
4	N 39.81721229	W 80.76285111
11UE	N 39.81718920	W 80.78281651

NADES UTIL ZONE 17 CONTROL POINTS

CP #	NORTHING	EASTING	ELEV.	DESCRIPTION
1	14460938	1707298	1218.758	OP ADJ OPUS
2	14461135	1707568	1253,137	CP IF
3	14459433	1708592	1282.618	CP IP
4	14400128	1706659	1230.318	CP
5	14480972	1707398	1220.048	CP SNS
6	14480859	1707281	1216.504	CP IP REP
7	14461059	1707564	1234.724	CP IP REP

RECORD	LOT #	AREA OF LOT	MITHIN LOD
HG ENERGY PROPERTY	TM 4 PARCEL 14	121.531 AC.	17,577 AC.
RHONDA MARE ANDERSON	25-05-4-0014-0001	32.8728 AC.	0.020 AC
TOTAL LI	IT OF DISTURBANCE		17,503 AC

CONSTRUCTION SEQUENCE:

- 1. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITY, INCLUDING CLEARING AND GRUBBING, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF WEST VIRGINIA (811) A MINIMUM OF 3 DAYS PRIOR TO EXCAVATION WORK. THE CONTRACTOR ALSO SHALL CLEARLY 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
- SITE ACCESS THIS IS THE FIRST LAND-DISTURBANCE ACTIVITY TO TAKE PLACE AT THE SITE AND CONTRACTOR SHALL PROVIDE BMPS TO MINIMIZE ACCELERATED EROSION AND SEDIMENTATION FROM CONSTRUCTION ROUTES AND AREAS DESIGNATED FOR EQUIPMENT OR OTHER USE AT THE SITE INCLUDING PARKING AND STOCKPILES.
- SEDIMENT BARRIERS INSTALL PERIMETER BMPS AFTER THE CONSTRUCTION SITE IS ACCESSED, KEEPING ASSOCIATED C. FARING 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.
- UPON COMPLETION OF PAD GRADING, COMPACT THE PAD TO

PREPARED FOR HG ENERGY II APPALACHIA, LLC

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

PREPARED BY PENN ENVIRONMENTAL & REMEDIATION, INC.

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

Dial 811 or B00.245,4848

HG MND11 MARSHALL COUNTY

WEST VIRGINIA PREPARED FOR HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

REMSE WILL LAYOUTS PER CLIENT, UPDATE LOG.

Penn E&R PA007655-01 SHEET 1

COORDINATES WY STATE PLANE, NORTH ZONE, NAD 83.

ESTRUCTOR PORTAGE FOR DUCK FORWARD FORT DRIVEN 2018

YOU DIG!

GRADE AND BEGIN PLACEMENT OF PAD WORKING SURFACE.

ROOM DAVIS DAV BRINE AFRON



stimated Gross Material Balance (CV) nai Davejopmant - Gravel Option 109 100 | 103 500 5,600 3912 Road & Pump Station 12 403 | 8:551 9.649 0.542 (3) Total Site Botanor 11,357 Entraned Trace of (Limits of Earthwork)
Est Short Factor (2 3273 13.640 Est Tooling Stockput Vourre /I case CY) 3.443 est Toppor To Be Respigation Cot/FI Siop as 19.737 Millimorn Total Stockpile Capacity Remained (C.∀.) 1. Meterial trailware for eat, gross continuous quartities only 2. Focabil del volume based on 5 molies average depth. 3. Million in training and appropria ground this based on estimates and may had be representative or second quantities. 4 Extension and refered contractor pay valuence.

Exempled Grave Quarties				
	Asceta House	Pard	TOTAL	
a: Soli Curodo: (Placed SY)	4,290	27,325	31,000	
ar Courter Than Hors,	T	2 967	1.2.957	8
Tup Coat Chip & Swal (Flames SY)	4,:95	1000		ď
Estimated Composit Filter Social Langth (F) 1.962	2,034	4,015	П
Estimated Limit of Dicturgation Micros			17,503	U
Wall Fad and Bluging Area Page Hrs Com	nth crion Bayanca (EI)	1270.00	4
Well Fact Schools Floriday (Top of School	Conen/((-1)	33.55	1230.60	ľ
Wall For Surface Freedray (FI)			TESTICS	П
				L

WELL #	LAT	LONG;
1	N 39.51710022	W 80.76294649
2	N 39.81713756	W 80,76252605
3	N 39,61717493	W 80.75290357
	N 39.81721229	W 80.76258111
TIME	N 39.81718920	W 80.76281851

WELL ELEVATIONS 1234.65



p 45

CONTRACTOR CANADISTS	
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T bearingers	
REVISE WILL LATOUTS FOR CLIENT, UPDATE LOD,	
TO ADDITIONAL STOOPLE	
LINE RIGHT OF WAY	
SFIDIA.	
20456 STATE OF A	



SITE DEVELOPMENT PLAN WITH EROSION AND SEDIMENTATION CONTROLS

> HE MND11 MARSHALL COUNTY WEST VIRGINIA

HIG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

Dial 811 or 800.245,4848 PA007665-01



COORDINATES WY STATE PLANE NORTH ZONE, NAD 83.

HE RHEVES PROPERTY

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WEST VIRGINIA YOU DIG!

1 SERVICE FOR THE WEST AND SHOWING THE FLAND. THE EQUITACTOR SHELDS OF SPENCE E FOR EXCEPTION, CONTINUED, AND REPLACED STREET OF SECURIOR TO SHOULD BE SHOULD SHELD THE SECURIOR STREET OF SHOULD BE SHOULD SHELD SHELD SHE

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