

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 MND23 N-4H

47-051-02410-00-00

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: MND23 NAH

Farm Name: HG ENERGY II APPALACHL

U.S. WELL NUMBER: 47-051-02410-00-00

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.

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API NO. 47							
OPERATO	OR W	ELL	NO	MND	23 N-	4H -	
Well Pac	Nan	ne:	MND	23			

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

1) Well Operator: HG Energy II Appalachia, 494519932 Marshall Franklin Powhatai	n Point
Operator ID County District Quadrang	le
2) Operator's Well Number: MND23 N-4H / Well Pad Name: MND23 /	
3) Farm Name/Surface Owner: CONSOL/HG Energy Appalachia, LLC Public Road Access: Nixon Ridge Road (SLS	21/1)
4) Elevation, current ground: 1273' Elevation, proposed post-construction: 1240'	
5) Well Type (a) Gas X Oil Underground Storage Other	
(b)If Gas Shallow X Deep Horizontal	
6) Existing Pad: Yes or No No	
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus, 6474' - 6540', 66' Thick, 4204 psi	
8) Proposed Total Vertical Depth: 6535'	
9) Formation at Total Vertical Depth: Marcellus	
10) Proposed Total Measured Depth: 15449'	
11) Proposed Horizontal Leg Length: 8387'	
12) Approximate Fresh Water Strata Depths: 538', 801', 898', 947'	
13) Method to Determine Fresh Water Depths: Nearest offset wells	
14) Approximate Saltwater Depths: None	
15) Approximate Coal Seam Depths: 847' - 852'	
16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated	
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes X No AUG 12	
(a) If Yes, provide Mine Info: Name: Marshall County Mine	ent of
Depth: 890' to seam base Environmental P	rotection
Seam: Pittsburgh #8	
Owner: Murray Energy Corporation	

WW-6B (04/15) API NO. 47-057 - 02410

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

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	15449'	15449'	CTS
Tubing							
Liners							



ТҮРЕ	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:		

WW-6B (10/14)

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

19) Describ	be proposed	well work	, including	g the dri	lling and	plugging	back of	any pi	iot noie:
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Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,535 feet. Drill horizontal leg to estimated 8,387' lateral length, 15,449' TMD. Hydraulically fracture and 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 - Already grouted in
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-1 + 0.5% 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

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25) Proposed borehole conditioning procedures:

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 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	1-5	1309-48-4 14808-60-7
mium NE-1	Portland Cement		Crystalline silica: Quartz (SiO2)	0.1-7	1,000
		Commonly called gel, it is			
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	Crystalline silica: Quartz (SiO2)	3 13	7.550
ntonite	Extender	water.			
TCG TILL	2.1149/1449/				
		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			
		of strength development			
clum Chloride	Accelerator				
		Graded (3/8 to 3/4 Inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient	107	72.55
		a lost circulation material.	The committee of the second		
lo 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		37,160	1811619
		preventing foaming			
		tendencies of latex			
		systems.			
-13L	Foam Preventer				
		W. A. S.	Ingredient name	%	CAS number
and the second discourse	12.00	Used to retard coment	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.			
		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
		temperatures.	Salden megresian axide	30 100	3,2,1,3,1
-1		N. 101			
		Multi-purpose polymer additive used to control		To.	Tara and
		free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
PA-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	Ingredient name	%	RE CAS number
		used to create	Crystalline silica: Quartz (SiO2)		14808-60-7
		lightweight cement siurries used as either a	Calcium axide	1-5	office of 1305-78-8 Gas
		filler slurry or a sulfate			47 E W = 1 -
		resistant completion			AUG 1 2 2021
		cement.			- 2 6021
z (Fly Ash)	Base			V	VV Dannet
		A low temperature		Envi	VV Department of ronmental Protection
		retarder used In a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend		40 - BU	Traue Secret.
	Datasilar	the slurry thickening time.			
	Retarder				
			Ingredient name	9/8	CAS number
			2-Butoxyethanol	20 - 30	111-76-2
			Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkylarylsulfonate amine salt	5 - 10 1 - 5	110615-47-9 Trade secret.
		and formation to facilitate	Polyoxyalkylenes	0.1 - 1	Trade secret.
5	Surfactant	cement bonding.			

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MND23 N-4H

MN							ND23 N-4H SHL 14459401.62N 1706167.06E						
Ground Elevation 1240' (RKB) 25'					MNI	D23 N-4H LI	P		14458773.14N 1705658.51E				
Azm			323.0		11 1 1 1 1 1	MND	23 N-4H BH	-IL		14465527.17N 1700686.77E			
ELLBORE DI		HOLE	CASING	GEOLOGY	TOP	BASE	MUD			CONDITIONING	COMMENTS		
				T T									
	×	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 = 0.434 wall thickness Burst=2110 psi		
				Fresh Water	538', 801	', 898', 947'				Circulate & condition @ TD w/ Air. RIH w/ casing			
		1384	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	& fill w/ Fresh Water. Circulate a minimum of 1	Surface casing = 0.380" v		
X	17.5"	17.5"	J-55 BTC	$Coal(\varepsilon)$	917'	- 922'	AIR	40% Excess Yield=1 18 / CTS	then every third joint to 100' from surface	hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement.	thickness Burst=2730 psi		
	X			Big Lime / Big Injun	2170 / 2274	2263 / 2305			Bow Springs (over	Circulate & condition @ TD w/ Air. RIH w/ casing			
			17.24	17:00	9-5/8" 40#	Pocono	2479		1	15.6 ppg Class A 94#/sk	collars) on first 12	& fill w/ Fresh Water. Circulate a minimum of 1	Intermediate casing = 0.39
	12.2		J-55 BTC	5th Sand	2640		AIR	1% Calcium BWCC - 40% Excess Yield=1 2 / CTS	joints, then every third joint to 100 from	hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water	wall thickness Burst=3950 psi		
	×			Gordon	3052			11.00-12.70	surface	pnor to pumping cement.			
				Intermediate Casing	Ü	3150							
X	X	8.75" Vertical		AIR and/or 9.0ppg SOBM		Run 1 soiral centralizer every 5 joints from the top of the curve to surface.							
				Rhinestree:	5961	5253							
			Sec. 1	Cashaqua	6253	5317		Class A 14.8 ppg Yield 4.34		Once on bottom/TD with casing, circulate at max	Production casing = 0.36		
x	×		5-1/2"	Middlesex	6317	8340	Air then	D255 - 0.4% BWOB Fluid Loss		allowable pump rate for at least 2x bottoms up, or	wallthickness Burst=12640 ps		
		8.75" / 8.5" Curve	P-110 HP	West River	6340	6407	11.5ppg 12.5ppg SCBM	D198 - 0.55% BWOB Retarder D047 - 0.02 gal / sack Anti Foam		until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume	Note:Actual centralize		
			CDC HTQ	Burkett	6407	8425	12.5ppg SCBM	D208 – 0.05% BWOB Viscosifier 10% Excess	Run 1 spiral centralizer every 3 joints from the	prior to pumping cement.	schedules may be changed due to hole conditions		
1				Tully	6425	6454		1070 EXCESS	1st 5.5" long joint to the top of the curve.				
			1	Hamilton	6454	6489			top of the carve.				
			-	Marcellus	6499	6545	11.5ppg-						
		8.5' Lateral		LP TMD / TVD	15448	6535	12.5ppg SOBM						
×	×			Onondaga	9545								
		χ	X	X	X		X	X III III X III III III III III III III	X		1 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		6535' TVD /			8.5" Hole - C 5-1/2" 20#	emented Long String				+/-8390' ft Lateral	TD @ +/-6535" TVD		

WW-9 (4/16)

API Number 47	
Operatoric	Wall No MND23 N 4H

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) Big Tribble Creek - Ohio River Quadrangle Powhatan Point 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes Vill a pit be used? Yes No V	io
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 Permit Number	
Reuse (at API Number_TBD - At next anticipated well)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
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 approximately a system.	ed disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oll, 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 was West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee swhere it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUT on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection provisions of the permit are enforceable by law. Violations of any term or condition of the general permit a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the informat application form and all attachments thereto and that, based on my inquiry of those individuals immed obtaining the information, I believe that the information is true, accurate, and complete. I am aware that penalties for submitting false information, including the possibility of fine or imprisonment.	. I understand that the nd/or other applicable ion submitted on this iately responsible for
Company Official Signature Durne White	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Diane White	
Company Official Title Agent	AUG 1 2 2021
Subscribed and sworn before me this, 29th day of July , 20 21	WV Department of Environmental Protection
My commission expires 7/31/2022	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vigina, VV 26105 My Condission Exploration 31, 2022

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1975 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

Waste Management 200 Rangos Lana 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 / 301859 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

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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 2800249 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 Kalkaske, MI 49646 231-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 830-892-0164

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 1.1942 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 15801

Disposal Locations:

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

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

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

Force, inc. 1380 Rts. 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 Crabapple Road P.O. Box Wind Ridge, PA 16380 RECEIVED
Office of Oil and Gas

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

Grosella (SWIW #34) Permit # 4096 RL 88 Garrattsvilla, OH 713-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 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 Brîne, LLC) Permit #34-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 18) Permit # 84-157-2-5511-00-00 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 \$. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Cort...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

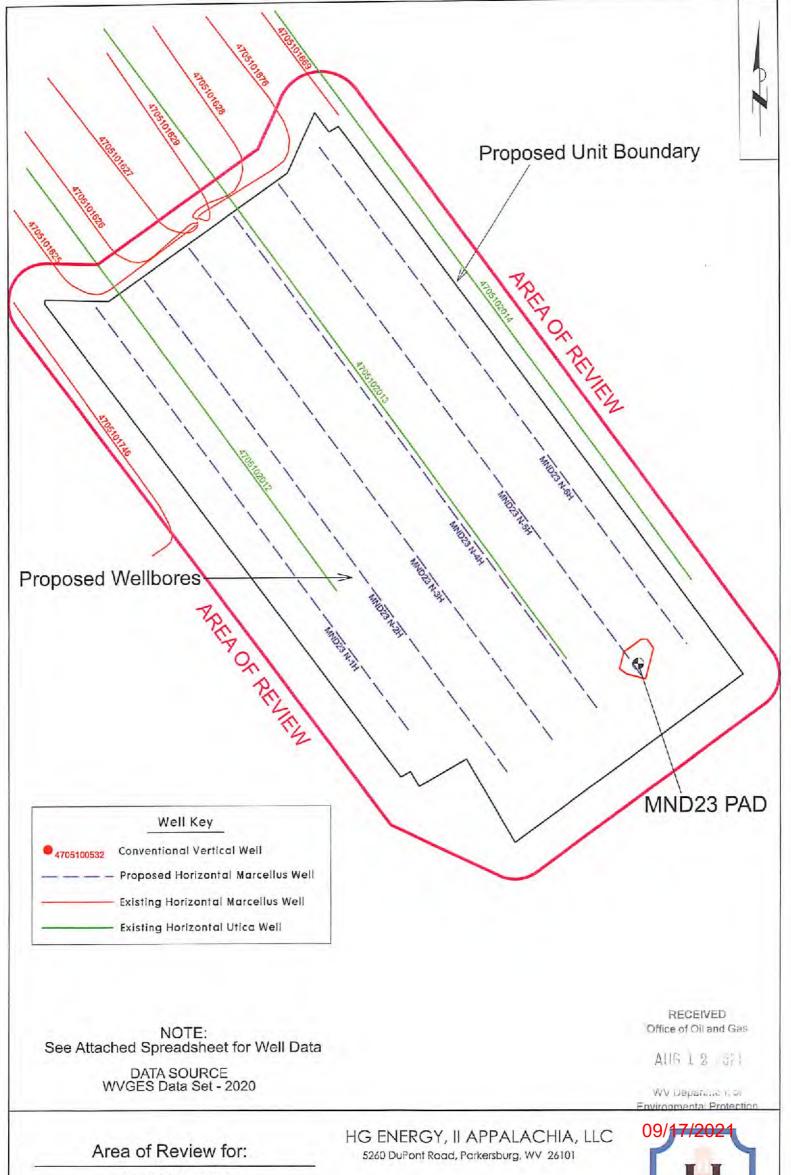
Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4197-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

RECEIVED
Office of Oil and Gas

AUG 1 2 2021

WV Department of Environmental Protection

Proposed Revegetation Treats	nent: Acres Disturbe	ed 10.5 Acres Prevegetation pH	
Lime	3 Tons/acre or to o	correct to pl1 6.5	
Fertilizer type10-	20-20		
Fertilizer amount_		500 Ibs/acre	
Mulch_ Hay		2 Tons/acre	
		Seed Mixtures	
Te	nporary	Perman	ent
Seed Type Tall Fescue	lbs/acre 40	Seed Type Tall Fescue	lbs/acre 40
Ladino Clover	5	Ladino Clover	5
ttach: (aps(s) of road, location, pit ovided). If water from the p reage, of the land application	and proposed area fo it will be land applied on area.	e drilling and completion process or land application (unless engineered plans including, include dimensions (L x W x D) of the pit, and others.	
Attach: Maps(s) of road, location, pit rovided). If water from the p creage, of the land application thotocopied section of involvation than Approved by:	and proposed area fo bit will be land applied on area. red 7.5' topographic s	or land application (unless engineered plans including d , include dimensions (L x W x D) of the pit, and d	dimensions (L x W), and area in
ttach: faps(s) of road, location, pit frovided). If water from the p creage, of the land application hotocopied section of involvation lan Approved by: comments: Pre-seed/	and proposed area for the will be land applied on area. The week of the control of the will be land applied on area. The week of the wea	or land application (unless engineered plans including d, include dimensions (L x W x D) of the pit, and others.	dimensions (L x W), and area in
ttach: faps(s) of road, location, pit frovided). If water from the p creage, of the land application hotocopied section of involvation lan Approved by: comments: Pre-seed/	and proposed area for the will be land applied on area. The week of the control of the will be land applied on area. The week of the wea	or land application (unless engineered plans including d, include dimensions (L x W x D) of the pit, and on the pit.	dimensions (L x W), and area in
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MND23 PAD

Proposed MND23 N-1H Proposed MND23 N-2H Proposed MND23 N-3H Proposed MND23 N-4H Proposed MND23 N-5H Proposed MND23 N-6H

Franklin District, Marshall County, W.Va. 7/26/2021

0 1,320'

SCALE: 1" = 1,320'



	EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR: MND23 PAD AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H & N-6H									
СТ	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4705101625	MARSHALL	MND9 AHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,202	ACTIVE	39.831390	-80.787131
2	4705101626	MARSHALL	MND9 BHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,212	ACTIVE	39.831444	-80.787115
3	4705101627	MARSHALL	MND9 CHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,241	ACTIVE	39.831497	-80.787099
4	4705101628	MARSHALL	MND9 EHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,248	ACTIVE	39.831604	-80.787067
5	4705101629	MARSHALL	MND9 FHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,231	ACTIVE	39.831658	-80.787050
6	4705101669	MARSHALL	MND3 FHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,299	ACTIVE	39.850397	-80.792052
7	4705101676	MARSHALL	MND9 DHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,231	ACTIVE	39.831698	-80.787039

MARCELLUS SHALE

UTICA SHALE

UTICA SHALE

UTICA SHALE

UTICA SHALE

Horizontal Gas Production

6,500

10,700

10,700

10,700

10,700

HG ENERGY II APPALACHIA

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

MARSHALL

MARSHALL

MARSHALL

MARSHALL

MARSHALL

MND6 AHS

MND20 BU

MND20 CU

MND20 DU

MND20 EU

4705101746

4705102012

4705102013

4705102014

4705102045

8

10

11

12

Office of Oil and Sas AUG 1 2 2021

-80.791522

-80.803153

-80.803044

-80.802995

-80.803054

39.817733

39.851695

39.851691

39.851731

39.851774

ACTIVE

DRILLED - NOT COMPLETED

DRILLED - NOT COMPLETED

DRILLED - NOT COMPLETED

DRILLED - NOT COMPLETED

HG Energy II Appalachia, LLC

Site Safety Plan

MND 23 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.

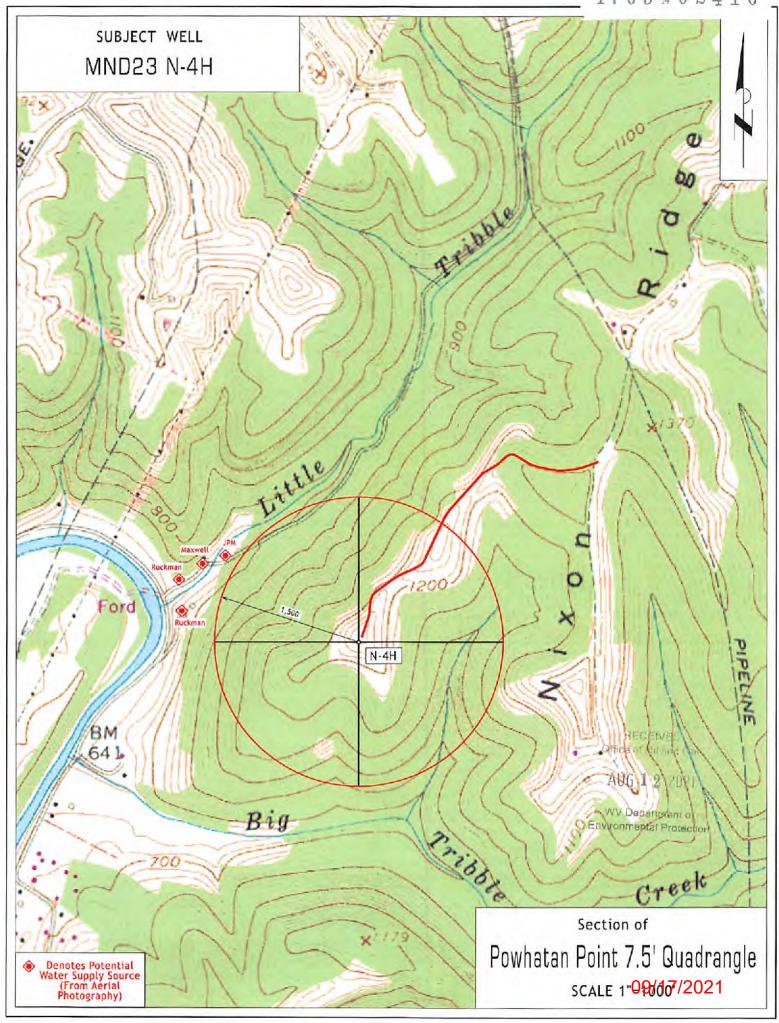
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Office of Oil and Gas

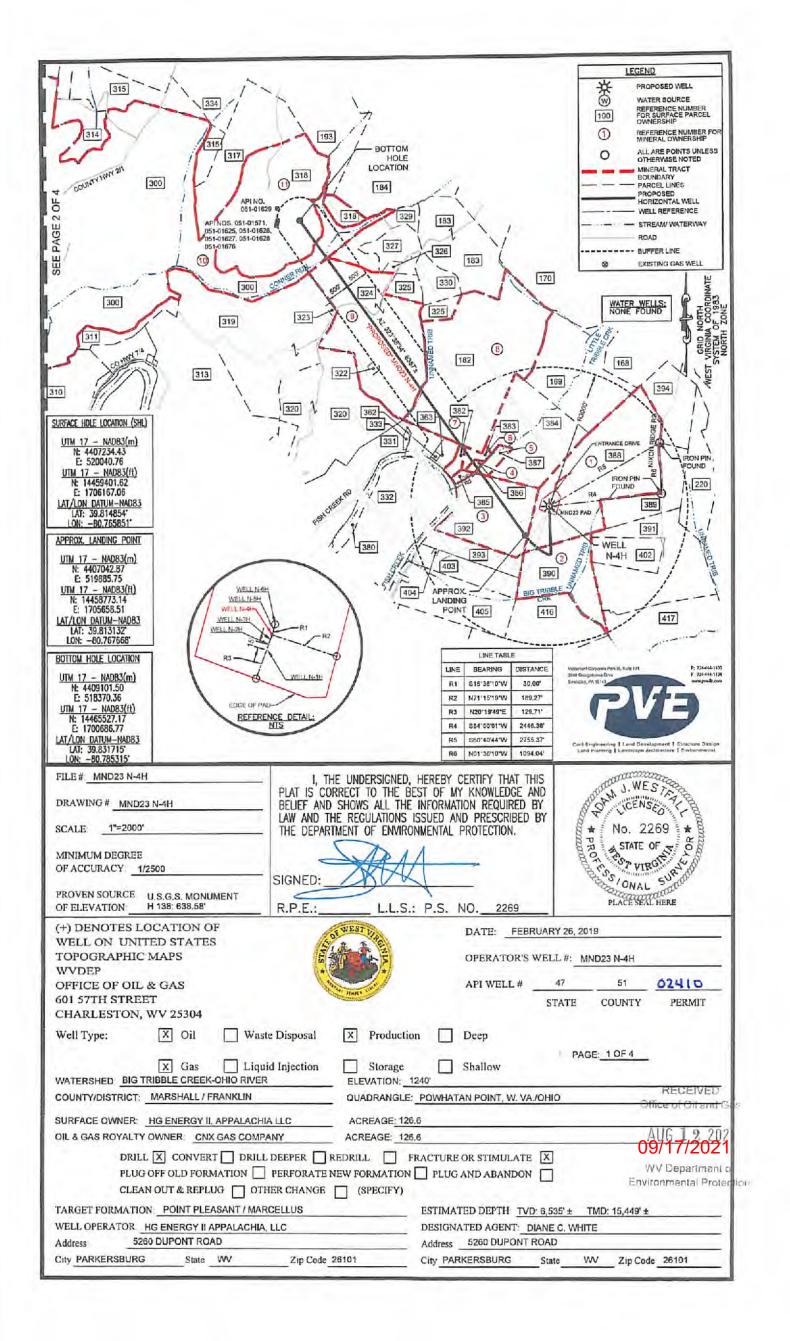
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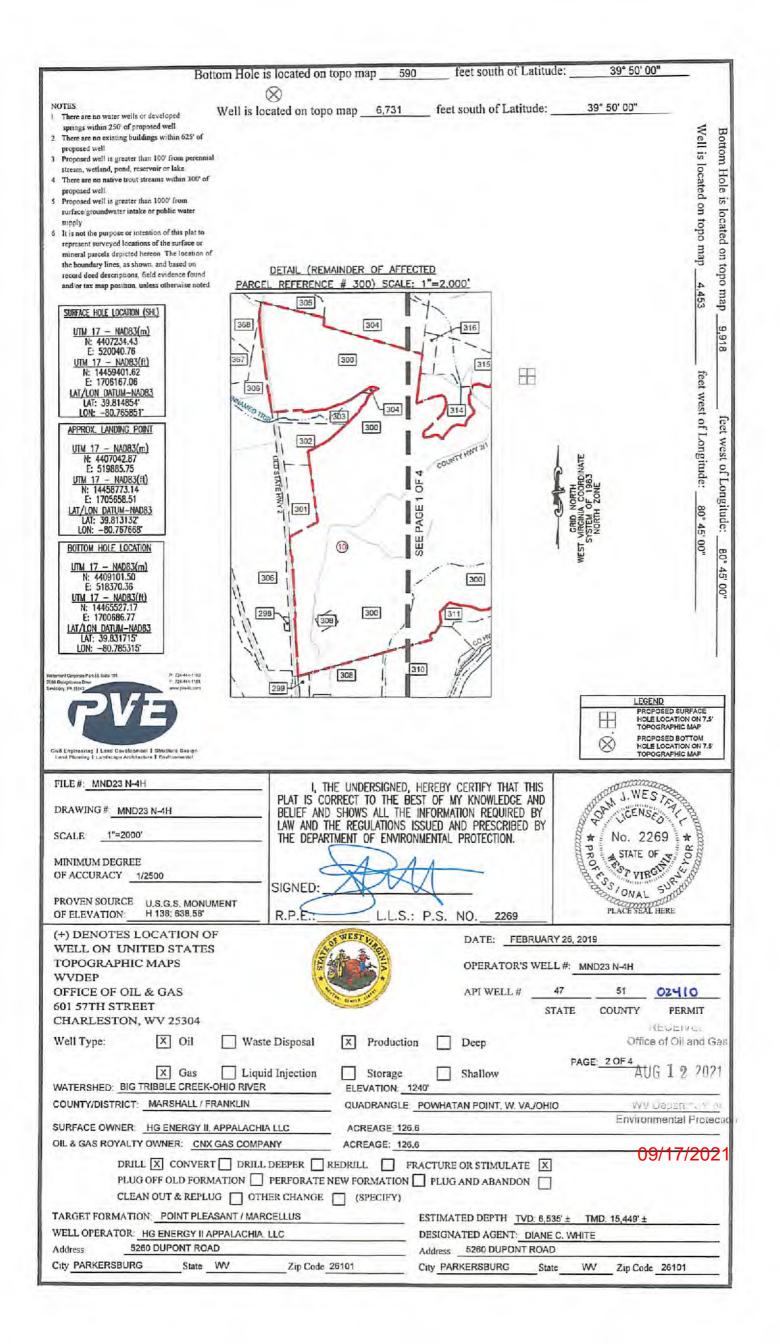
5260 Dupont Road

WV Department of Environmental Protection

Parkersburg, WV 26101







TAX MAP NO. 05-0004-0014-0000-0000 HOLSTINE BERNARD W. & ROXANN L TAX MAP NO. 05-0004-0013-0000-0000 MCCLINTOCK DALE ET, UX. TAX MAP NO. 05-0004-0014-0002-0000 HOLSTINE BERNARD W. & ROXANN L. FRANKLIN REAL ESTATE CO TAX MAP NO. 05-0004-0015-0000-0000 169 TAX MAP NO. 05-0009-0003-0000-0000 LEGG JAMES R. EST. TAX MAP NO. 05-0004-0001-0000-0000 FRANKLIN REAL ESTATE CO. 170 TAX MAP NO. 05-0009-0005-0000-0000 MCCLINTOCK DALE EDWARD CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0005-0012-0000-0000 391 182 TAX MAP NO. 05-0009-0001-0000-0000 RUCKMAN JESSIE GLADYS - LIFE TAX MAP NO. 05-0005-0011-0000-0000 183 FRANKLIN REAL ESTATE CO. TAX MAP NO. 05-0009-0002-0001-0000 LEGG JEFFERY L TAX MAP NO. 05-0002-0012-0000-0000 CONSOLIDATION COAL COMPANY 184 ANDERSON RHONDA MARIE TAX MAP NO. 05-0004-0014-0001-0000 TAX MAP NO. 05-0002-0005-0000-0000 CONSOLIDATION COAL COMPANY 193 TAX MAP NO. 05-0009-0005-0000-0000 MCCLINTOCK DALE EDWARD TAX MAP NO. 05-0004-0009-0000-0000 MORRIS FRED H ET UX TAX MAP NO. 05-0009-0002-0000-0000 LEGG JAMES REST CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0006-0011-0000-0000 403 TAX MAP NO. 05-0009-0002-0002-0000 TAX MAP NO. 05-0007-0003-0000-0000 WHITE KENNETH E ET UX CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0009-0035-0000-0000 ARNOLD LLOYD C & JUDITH C TAX MAP NO. 05-0006-0003-0000-0000 OHIO POWER CO 300 TAX MAP NO. 05-0009-0041-0000-0000 ARNOLD LLOYD C, & JUDITH C. TAX MAP NO. 05-0006-0005-0000-0000 301 CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0008-0006-0000-0000 STOUT JAMES L. TAX MAP NO. 05-0009-0007-0000-0000 302 CONSCITUTION COAL COMPANY TAX MAP NO. 05-0008-0001-0000-0000 CONSOLIDATION COAL COMPANY 304 305 CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0001-0013-0000-0000 TAX MAP NO. 05-0005-0010-0000-0000 306 307 OHIO POWER CO. CNX GAS COMPANY LLC. TAX MAP NO. 05-0007-0005-0000-0000 TAX MAP NO. 05-0007-0002-0000-0000 308 CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0007-0003-0000-0000 CONSCLIDATION COAL COMPANY 309 TAX MAP NO. 05-0007-0004-0000-0000 CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0005-0004-0000-0000 CONSOLIDATION COAL COMPANY 31 313 CONSCLIDATION COAL COMPANY TAX MAP NO. 05-0008-0002-0000-0000 CONSOLIDATION COAL COMPANY 314 CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0002-0002-0000-0000 TAX MAP NO. 05-0002-0001-0000-0000 316 CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0005-0001-0000-0000 317 CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0005-0002-0000-0000 318 CONSOLIDATION COAL COMPANY TAX MAP NO, 05-0005-0003-0000-0000 OHIO POWER CO 319 320 SANCHEZ GENEVA BASSETT TAX MAP NO. 05-0005-0004-0000-0000 ROBEINS JAMES E & DIANA C 322 323 MCGINNIS TIMOTHY L SR ET UX. TAX MAP NO. 05-0003-0003-0001-0000 OHIO POWER CO. 324 FRANKLIN REAL ESTATE CO. TAX MAP NO. 05-0005-0007-0000-0000 FRANKLIN REAL ESTATE CO. TAX MAP NO. 05-0005-0008-0000-0000 TAX MAP NO. 05-0005-0009-0000-0000 MCELROY COAL COMPANY TAX MAP NO. 05-0005-0009-0001-0000 HEATHERINGTON ARDEN RAY TAX MAP NO. 05-0002-0013-0001-0000 GATTS RICHARD L TAX MAP NO. 05-0008-0005-0000-0000 TAX MAP NO. 05-0008-0007-0000-0000 MILLER EDWIN C. TAX MAP NO. 05-0008-0006-0000-0000 CONSOLIDATION COAL COMPANY TAX MAP NO. 05-0002-0003-0000-0000 CLARK BEVERLY E TAX MAP NO. 05-0009-0001-0001-0000 362 RUCKMAN SHELDON R. ET. AL. TAX MAP NO. 05-0009-0001-0004-0000 TAX MAP NO. 05-0001-0022-0000-0000 OHIO POWER COMPANY REFERENCE NO. Q-091060000 W DIVISION OF NATURAL RESOURCES 382 RUCKMAN MARVIN E. ET. UX. TAX MAP NO. 05-0009-0001-0003-0000 TAX MAP NO. 05-0004-0018-0000-0000 MAXWELL WILLIAM L. SR. ET. UX. TAX MAP NO. 05-0004-0016-0000-0000 HOLMAN TERRY L TAX MAP NO. 05-0009-0001-0002-0000 RUCKMAN MARVIN E. MAXWELL WILLIAM JR. TAX MAP NO. 05-0004-0019-0000-0000 HOLMAN TERRY L. TAX MAP NO. 05-0004-0017-0000-0000 LEGEND FOR SURFACE PARCEL 100 FILE# MND23 N-4H I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS DAM J. WES PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND DRAWING# MND23 N-4H BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. 1"=2000" ENVIRONMENTAL PROTECTION. No. 2269 SCALE PROCESS ONAL STATE OF VIRGINIA MINIMUM DEGREE SURVE PLACE SEAL HERE OF ACCURACY 1/2500 SIGNED: PROVEN SOURCE U.S.G.S. MONUMENT H 138: 638.58' S.: P.S. NO. (+) DENOTES LOCATION OF RECEIVED DATE: FEBRUARY 26, 2019 WELL ON UNITED STATES Office of Oil and TOPOGRAPHIC MAPS OPERATOR'S WELL#: MND23 N-4H April 2 202 WVDFP 47 OFFICE OF OIL & GAS API WELL# 51 601 57TH STREET STATE COUNTY WV PERMITment CHARLESTON, WV 25304 Environmental Prote Deep Well Type: X Oil Waste Disposal x Production 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. VAJOHIO SURFACE OWNER: HG ENERGY II, APPALACHIA LLC ACREAGE: 125.6 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6 09/17/2021 DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON

ESTIMATED DEPTH: TVD 6,535'±

City PARKERSBURG

DESIGNATED AGENT: DIANE C. WHITE Address 5260 DUPONT ROAD

TMD: 15,449' ±

Zip Code 26101

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

Zip Code 26101

TARGET FORMATION. POINT PLEASANT / MARCELLUS

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC

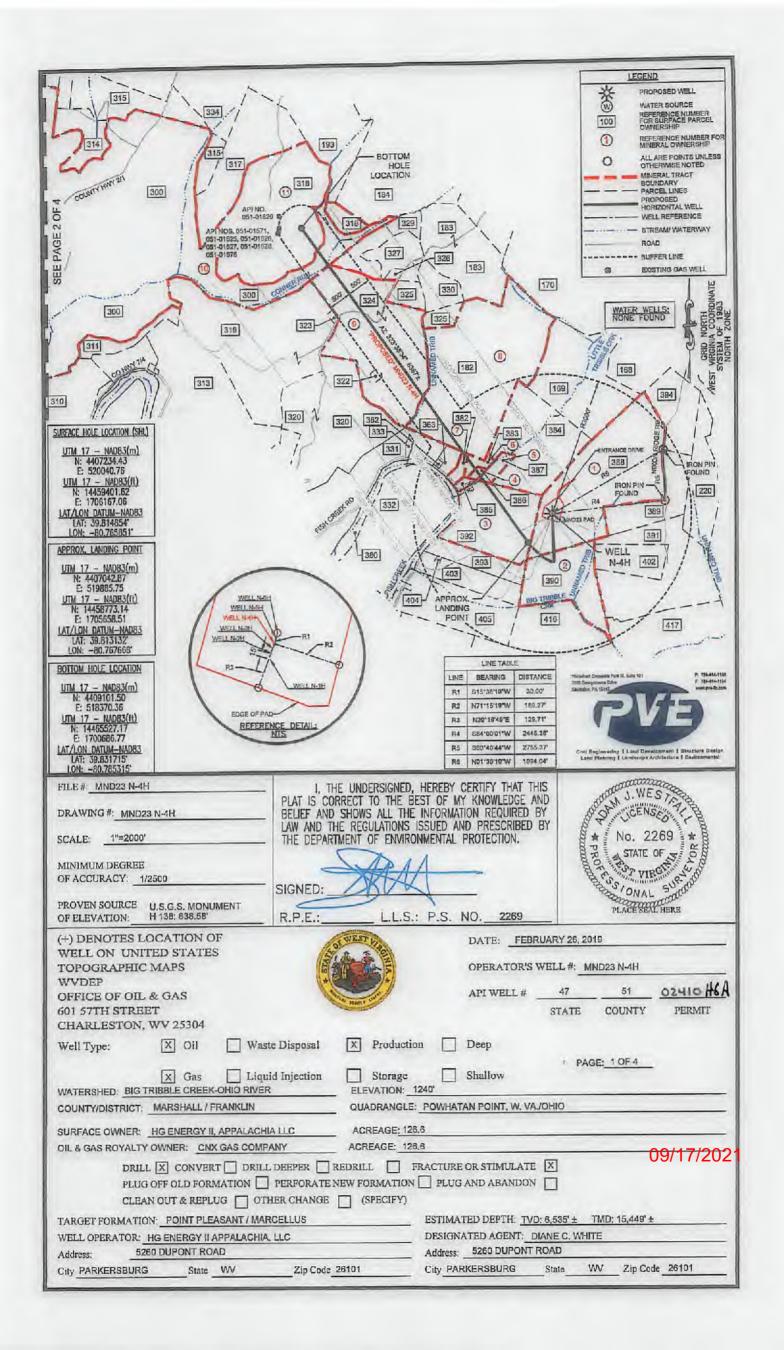
Address

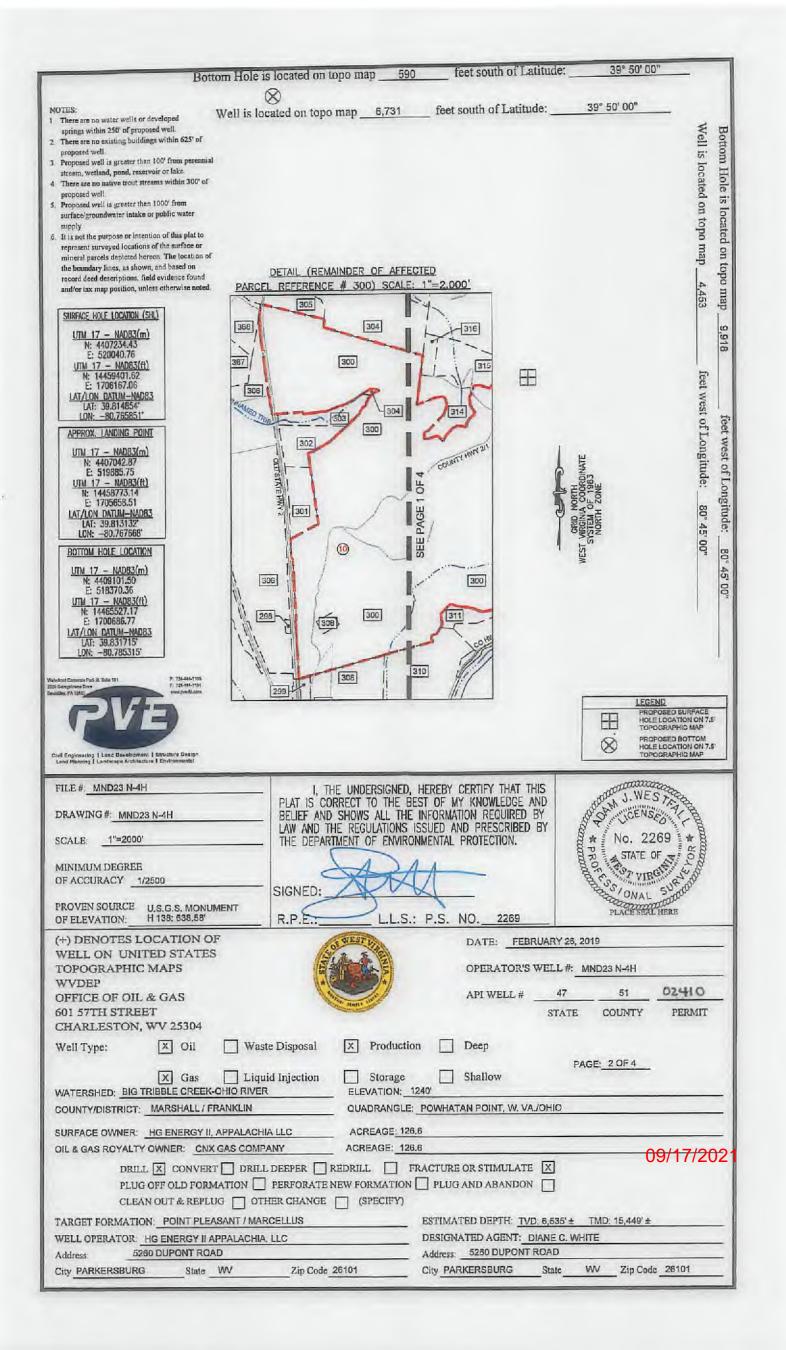
City PARKERSBURG

5260 DUPONT ROAD

State WV

Number	MAID	Orginal Lessor	Orginal Lessee	Surface Parcel Code			Charles Howard Bassett JR and Ruby D. Bassett Cynthia P. Hopkins, as	INC	
1	05-0004-0014-0000-0000	MILLER CHARLES W	CHEVRON USA INC	388			Cynthia P. Hopkins, as Trustee of the Cynthia P. Hopkins Revocable Trust	NOBLE ENERGY INC	
		PARSONS PAUL ET UX RUSSELL SHARON LYN HUFF TIMOTHY ET UX	CHEVRON USA INC CHEVRON USA INC CHEVRON USA INC				Elizabeth A. Strusbaugh and James R. Strausbaugh	NOBLE ENERGY INC	
		ARNOLD LLOYD C ET UX CRONIN MARY JO	CHEVRON USA INC				Janet and John Blankenship	NOBLE ENERGY INC	
		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	4	-		Mary E. Bassett	NOBLE ENERGY INC	
		CONNER JUDITH MAY SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC				Robert B. and Violet Thomas	NOBLE ENERGY INC	
		AB RESOURCES LLC NPAR LLC	NPAR LLC Chevron USA INC	5			Roger B. and Inken P. Rose	NOBLE ENERGY INC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC				Buth Ann and Furman F	NOBLE ENERGY INC	
①	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	
			CHIN Can Campana				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		Noble Energy, Inc.	CNX Gas Company,		9	05-0005-0006-0000-0000	AEP Generation Resources inc. and Kentucky Power	Noble Energy, Inc.	324
		CNX Gas Company, LLC	Noble Energy, Inc.				Company NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		NOBLE ENERGY INC	HG ENERGY II		(10)	05-0005-0003-0000-0000	AEP Generation Resources Inc. and Kentucky Power	Noble Energy, Inc.	300
	05-0009-0001-0000-0000, 05-0009-0001-0001-0000.	NOSEE CHEMOT INC	APPALACHIA, LLC	392, 362;	10	DS-0005-0003-0000-0000	Company	HG ENERGY II	3181
3	05-0009-0001-0002-0000, 05-0009-0001-0003-0000,	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	385, 362, 363			NOBLE ENERGY INC	APPALACHIA, LLC	
	05-0009-0001-0004-0000	NOBLE ENERGY INC	HG ENERGY II		11)	05-00 05-0002-0000-0000	Margaret Games	CNX Gas Company, LLC	318
		H. C. M. C. Y. C.	APPALACHIA, LLC	700			Elizabeth Patterson	CNX Gas Company, LLC	
(1)	05-0004-0019-0000-0000	William L, Maxwell IR Triënergy Holdings	TriEnergy Holdings Chevron USA INC	386	Hall		Charles 1. 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	1		Kenneth Schmitt	CNX Gas Company,	
		Chevron USA INC	HG ENERGY II				Mary Ellen Sedon	CNX Gas Company,	
_	The tree of the first		APPALACHIA, LLC				Alfred Kaczorowski, Jr., & Sharon M. Kaczorowski, his	CNX Gas Company.	
6)	05-0004-0018-0000-0000	William I, Maxwell IR	TriEnergy Holdings	383			wife CNX Gas Company, LLC	Noble Energy, Inc.	
		TriEnergy Holdings	Chevron USA INC				ENA des company, ite		-
	05-0009-0001-0000-0000,	Chevron USA INC	HG ENERGY II APPALACHIA, LLC				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
0	05-0009-0001-0001-0000, 05-0009-0001-0002-0000, 05-0009-0001-0003-0000,	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	363	Wellstood Corporate 2000 Georgetowne D Sweedley, PA 15142	ne F	TOLARI 190 Tolari 158		
	05-0009-0001-0004-0000				Second 1-4 22147		m Sum W. Colon		
		NOBLE ENERGY INC	HG ENERGY II		1	> \ \ \ \ -			
0		NOBLE ENERGY INC Barbara Kay Ewing and	APPALACHIA, LLC	400		PVE		LEGEND	
8	05-0005-0012-0000-0000	NOBLE ENERGY INC Barbara Kay Ewing and Wilber E. Ewing		182		ning Land Development Structure og Landscape Architecture Environ	Dasign ①	LEGEND REFERENCE NUMBE MINERAL OWNERSH	R FOR
FILE#:_	MND23 N-4H NG #: MND23 N-4H	Barbara Kay Ewing and	I, THE PLAT IS CORR BELIEF AND S LAW AND THE	UNDERSIG ECT TO TH HOWS ALL REGULATIO	NED, HE IE BEST THE INF		r Chalges THIS	J. WES	The state of the s
FILE#:_DRAWINGCALE:	MND23 N-4H NG #: MND23 N-4H 1*=2000' JM DEGREE URACY: 1/2500	Barbara Kay Ewing and Wilber E. Ewing	I, THE PLAT IS CORR BELIEF AND S LAW AND THE	UNDERSIG ECT TO TH HOWS ALL REGULATIO	NED, HE IE BEST THE INF	REBY CERTIFY THAT OF MY KNOWLEDGE ORMATION REQUIRE JED AND PRESCRIBE	THIS AND D BY D BY	J. WES	R FOR
PILE#:_ DRAWIN CALE: MINIMU DF ACC	MND23 N-4H NG #: MND23 N-4H 1*=2000' JM DEGREE URACY: 1/2500	Barbara Kay Ewing and Wilber E. Ewing	I, THE PLAT IS CORR BELIEF AND S LAW AND THE THE DEPARTM	UNDERSIG ECT TO TH HOWS ALL REGULATIO	NED, HE IE BEST THE INF DNS ISSU IVIRONME	REBY CERTIFY THAT OF MY KNOWLEDGE ORMATION REQUIRE JED AND PRESCRIBE	r Chalges THIS	J. WES	The state of the s
CALE: ORAWIN CALE: OF ACC OF ELEV H) DE	MND23 N-4H NG #: MND23 N-4H 1*=2000' JM DEGREE URACY: 1/2500 N SOURCE U.S.G.S VATION: H 138: 6	Barbara Kay Ewing and Wilber E. Ewing . MONUMENT .38.58'	I, THE PLAT IS CORR BELIEF AND S LAW AND THE THE DEPARTM	UNDERSIG ECT TO TH HOWS ALL REGULATIO	NED, HE IE BEST THE INF DNS ISSU IVIRONME	REBY CERTIFY THAT OF MY KNOWLEDGE ORMATION REQUIRE UED AND PRESCRIBE ENTAL PROTECTION. P.S. NO. 2269	r Chalges THIS	J. WES VICENSES STATE OF STA	The state of the s
ORAWING CALE: MINIMUDIF ACCOROVEN OF ELEV H) DE	MND23 N-4H NG #: MND23 N-4H 1*=2000* JM DEGREE URACY: 1/2500 N SOURCE U.S.G.S VATION: H 138: 6	Barbara Kay Ewing and Wilber E Ewing . MONUMENT .38.58' CON OF FATES	I, THE PLAT IS CORR BELIEF AND S LAW AND THE THE DEPARTM	UNDERSIG ECT TO TH HOWS ALL REGULATIO ENT- OF EN	NED, HE IE BEST THE INF DNS ISSU IVIRONME	REBY CERTIFY THAT OF MY KNOWLEDGE ORMATION REQUIRE UED AND PRESCRIBE ENTAL PROTECTION. P.S. NO. 2269 DATE: FE	THIS AND D BY EBRUARY 26, 2019	NO. 2269 STATE OF STA	The state of the s
ILE #:_ PRAWIT CALE: ITNIMU PF ACCO ROVEN PF ELEV +) DE VCDE VVDE	MND23 N-4H NG #: MND23 N-4H 1*=2000* JM DEGREE URACY: 1/2500 N SOURCE U.S.G.S VATION: H 138: 6 NOTES LOCATI ON UNITED ST GRAPHIC MAPS	Barbara Kay Ewing and Wilber E Ewing . MONUMENT 38.58' CON OF FATES	I, THE PLAT IS CORR BELIEF AND S LAW AND THE THE DEPARTM	UNDERSIG ECT TO TH HOWS ALL REGULATIO ENT- OF EN	NED, HE IE BEST THE INF DNS ISSU IVIRONME	REBY CERTIFY THAT OF MY KNOWLEDGE FORMATION REQUIRE USED AND PRESCRIBE ENTAL PROTECTION. P.S. NO. 2269 DATE: FE	THIS AND D BY DEBRUARY 26, 2019	NAL SUPPLIES OF THE PROPERTY O	ECEIVEE OF ON AND
CALE: ATNIMUDE ACCOMPANY PROVEN PRO	MND23 N-4H NG #: MND23 N-4H 1*=2000* JM DEGREE URACY: 1/2500 N SOURCE U.S.G.S VATION: H 138: 6 NOTES LOCATI ON UNITED ST GRAPHIC MAPS	Barbara Kay Ewing and Wilber E Ewing . MONUMENT 38.58' CON OF FATES	I, THE PLAT IS CORR BELIEF AND S LAW AND THE THE DEPARTM	UNDERSIG ECT TO TH HOWS ALL REGULATIO ENT- OF EN	NED, HE IE BEST THE INF DNS ISSU IVIRONME	REBY CERTIFY THAT OF MY KNOWLEDGE ORMATION REQUIRE UED AND PRESCRIBE ENTAL PROTECTION. P.S. NO. 2269 DATE: FE	THIS AND D BY D ROCK TO THE SERUARY 26, 2019 SWELL #: MND23 I	NO. 2269 STATE OF STA	ECEIVED TO IT AND ILLO
CALE: CALE: MINIMUL FACO ROVEN FELEV H) DE VELL COPOC VVDE DFFIC 001 57' CHAR	MND23 N-4H NG #: MND23 N-4H 1*=2000' JM DEGREE URACY: 1/2500 N SOURCE U.S.G.S. VATION: H 138: 6 NOTES LOCATI ON UNITED ST GRAPHIC MAPS EP JE OF OIL & GAS TH STREET LESTON, WV 25	Barbara Kay Ewing and Wilber E Ewing . MONUMENT 38.58' CON OF FATES 3.55	I, THE PLAT IS CORR BELIEF AND THE DEPARTM	UNDERSIG ECT TO TH- HOWS ALL REGULATION ENT- OF EN	NED, HE IE BEST THE INF DNS ISSU IVIRONME	REBY CERTIFY THAT OF MY KNOWLEDGE FORMATION REQUIRE USED AND PRESCRIBE ENTAL PROTECTION. P.S. NO. 2269 DATE: FE	THIS AND D BY D	NAL SUNTY A DER	ECEIVED ON THE CONTROL OF THE CONTRO
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LEGG JAMES R. EST.
MCCLINTOCK DALR EDWARD
RUCKMAN JESSIE GLADYS - LIFE
LEGG JEFFERY L.
ANDERSON RHONDA MARIE
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WHITE KENNETH E ET UX
ARNOLD LLOYD C. & JUDITH C.
STOUT JAMES L.

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LEGEND

HEFERENCE NUMBER
FOR SURFACE PARCEL
OWNERSHIP

MAN J. WES A 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 FILE#: MND23 N-4H DOWN J. WEST DRAWING#: MND23 N-4H LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. No. 2269 SCALE: 1"=2000" STATE OF SURVE MINIMUM DEGREE SS/ONAL OF ACCURACY: 1/2500 SIGNED: PLACE SEAL HERE PROVEN SOURCE U.S.G.S. MONUMENT H 138: 638.58' L.S.: P.S. NO. (+) DENOTES LOCATION OF DATE: FEBRUARY 26, 2019 WELL ON UNITED STATES TOPOGRAPHIC MAPS OPERATOR'S WELL#: MND23 N-4H WVDEP 47 51 02410 OFFICE OF OIL & GAS API WELL# 601 57TH STREET STATE COUNTY PERMIT CHARLESTON, WV 25304 X Oil Waste Disposal X Production Deep Well Type: 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 ACREAGE: 126.6 SURFACE OWNER: HG ENERGY II. APPALACHIA LLC OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6 09/17/202 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' ± DESIGNATED AGENT: DIANE C. WHITE WELL OPERATOR: HG ENERGY II APPALACHIA, LLC Address: 5260 DUPONT ROAD 5260 DUPONT ROAD State WV Zip Code 26101 City PARKERSBURG Zip Code 26101 City PARKERSBURG

ie⊒ =0); Lopiy#ii.				Spine			Charles Howard Bassett JR and Ruby D. Bassett	NOBLE ENERGY INC	
(A) (A)	1:30	Spanish progra	C) (), i) Letown	Saute Saute			Cynthia P. Hopkins, as Trustee of the Cynthia P.	NOBLE ENERGY	
①	05-0004-0014-0000-0000	MILLER CHARLES W PARSONS PAUL ET UX	CHEVRON USA INC	388			Hopkins Revocable Trust	ING	
		RUSSELL SHARDN LYN HUFF TIMOTHY ET UX	CHEVRON USA INC CHEVRON USA INC CHEVRON USA INC				Elizabeth A. Strusbaugh and James R. Strausbaugh	NOBLE ENERGY INC	
		CRONIN MARY JO KURPIL RICHARD ET UX	CHEVRON USAINC CHEVRON USAINC				Janet and John Blankenship	NOBLE ENERGY INC	
		CLIFTON CLARA MAE EDWARDS GEORGE ET UX	CHEVRON USA INC				Jean C. Thomas	NOBLE ENERGY INC	
		KYLE DONNA FAE CONNER JUDITH MAY	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 RESOURCES LLC NPAR LLC	NPAR LLC Chevron USA INC				Roger B. and laken 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 Ir	NOBLE ENERGY INC	
			CNX Gas Company,				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		Noble Energy, Inc.	LLC		0	05-0005-0006-0000-0000	AEP Generation Resources Inc. and Kentucky Power	Noble Energy, Inc.	324
					•	US-4005-0008-0005-0000	Company	HG ENERGY II	467
		CNX Gas Company, LLC	Noble Energy, Inc.				NOBLE ENERGY INC	APPALACHIA, LLC	L.
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		100	05-0005-0003-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	300
1	05-0009-0001-0000-0000, 05-0009-0001-0001-0000, 05-0009-0001-0002-0000, 05-0009-0001-0003-0000,	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	392, 952, 385, 382, 363			NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC CNX Gas Company,	
	05-0009-0001-0004-0000	NOBLE ENERGY INC	HG ENERGY II		(1)	05-0005-0002-0 000-0000	Margaret Games	LLC CNX Gas Company,	318
(4)	05-0004-0019-0000-0000	William L, Maxwell JR	APPALACHIA, LLC TriEnergy Holdings	386			Elizabeth Patterson	CNX Gas Company,	
		TriEnergy Holdings	Chevron USA INC				Charles J. Wiesner	LLC CNN Gas Company.	
		Chevron USA INC	APPALACHIA, LLC	202			John Wissner	uc	
(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	
⑤	05-0004-0018-0000-0000	William L, Maxwell JR	TriEnergy Holdings	383			Alfred Kazzorowski, Jr., & Sharon M. Kazzorowski, his wife	CNX Gas Company, ULC	
		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	
0	05-0009-0001-0001-0000, 05-0009-0001-0002-0000, 05-0009-0001-0003-0000, 05-0009-0001-0004-0000	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	263	Welselver Corporate 2000 Consignation I Sweetley Fig 15141	love Fi	778-444-1100 725-444-1104 nt. put-80.com		
③ ®	05-0009-0001-0002-0000,	Jessi Gladys Ruckman Et Al NOBLE ENERGY INC Barbara Kay Ewing and Wilber E. Ewing	Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC NOBLE ENERGY INC.	385, 382,	2000 Georgiana I Seembley Fr. 1314	love Fi	73-Maka-1904 mit puddeamn	LEGEND REFERENCE NUMBER MINERAL OWNERSHI	R FOR
(B) LE#: CALE: INIMU F ACCOVE	05-0009-0001-0002-0000, 05-0009-0001-0009-0000, 05-0005-0001-0004-0000 05-0005-0012-0000-0000 MND23 N-4H ING #: MND23 N-4H I "=2000' UM DEGREE CURACY: 1/2500	NOBLE ENERGY INC Barbara Kay Ewing and Wilber E. Ewing	HG ENERGY II APPALACHIA, LLC NOBLE ENERGY INC I, THE PLAT IS CORR BELIEF AND S LAW AND THE	undersiget To The	Civil Engineering Pd 1314; Civil Engineering Pd 1314; NED, HE HE BEST THE INI DNS ISSI	ring I Land Bevalagmant I Structure in Landscape Architecture I Environment of My KNOWLEDGE FORMATION REQUIRE JUDE AND PRESCRIBULED AND PRESCRIBULED AND PROTECTION.	THIS E AND D BY ED BY	J. WES	REP AND CONTRACTOR
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WW-6A1	
(3/13)	

Operator's Well No.

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	HG Energy II Appalachia, LLC				
By:	Diane White Diane White				
Its:	Agent				
	Office of Oil and Gas				
	AUG 1.9 2021 Page 1 of				

WV Department of Environmental Protection 09/17/2021

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

HG Plat Nur	mber MPID	Original Lesson	Original Lessea	Royalty	Book	Page
1)	05-0004-0014-0000-0000	MILLER CHARLES W	CHEVRON USA INC	Not less than 1/8	853	59
-1	22 200 / 100 - 100 0 0 0 0 0	PARSONS PAUL ET UX	CHEVRON USA INC	Not less than 1/8	853	430
		RUSSELL SHARON LYN	CHEVRON USA INC	Not less than 1/8	853	422
		HUFF TIMOTHY ET UX	CHEVRON USA INC	Not less than 1/8	846	47
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	Not less than		
		CRONIN MARY 10	CHEVRON USA INC	1/8 Not less than	846	39
		KURPIL RICHARD ET UX	CHEVRON USA INC	1/8 Not less than	846	43
			CHEVRON USA INC	1/8 Not less than	863	594
		CLIFTON CLARA MAE	Total Control of the	1/8 Not less than	853	128
		EDWARDS GEORGE ET UX	CHEVRON USA INC	1/8	853	418
		KYLE DONNA FAE	CHEVRON USA INC	Not less than 1/8	853	445
		CONNER JUDITH MAY	CHEVRON USA INC	Not less than 1/8	853	445
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	Not less than 1/8	695	629
		AB RESOURCES LLC	NEAR LLC	-/-	25	487 332
		NPAR LLC	Chevron USA INC HG ENERGY II		756	
		Chevron USA INC	APPALACHIA, LLC	Not less than	41	154
2)	05-0009-0003-0000-0000	James Redman Legg II ET AL	Noble Energy, Inc.	1/8	879 36	580 399
		Noble Energy, Inc. CNX Gas Company, LLC	CNX Gas Company, LLC Noble Energy, Inc.		37	169
		NOBLE ENERGY INC	HG ENERGY II APPALACIIIA, LLC		39	
	05-0009-0001-0000-0000, 05-0009-0001-0001-0000, 05-0009-0001-0002-0000,			lustus area-		
3)	05-0009-0001-0003-0000, 05-0009-0001-0004-0000	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	Not less than 1/8	730	546
`` -		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		39	
				Not less than		9.1
4)	05-0004-0019-0000-0000	William L, Maxwell JR TriEnergy Holdings	TriEnergy Holdings Chevron USA INC	1/8	730 28	239
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC		41	154
	53 22 SUNCER (1100 197)		Lawrence Torres	Not less than		
5)	05-0004-0017-0000-0000	Terry Holman TriEnergy Holdings	TriEnergy Holdings Cnevron USA INC	1/8	721	23
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC		41	15
ci.	SE 0004 5019 0000 0000	Walland F. Menszelf ID	TelEngen, Univers	Not less than 1/8	720	64
6)	05-0004-0018-0000-0000	William L, Maxwell JR TriEnergy Holdings	TriEnergy Holdings Chevron USA INC	1/0	730 28	239
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC		41	15
	05-0009-0001-0000-0000,	CHEVIOLOGATIVE	and any service		72	45
	D5-0009-0001-0001-0000, D5-0009-0001-0002-0000,					
Į.	05-0009-0001-0003-0000,		W. W. C. C.	Not less than		400
7)	05-0009-0001-0004-0000	Jessi Gladys Ruckman Et Al	Noble Energy, Inc. HG ENERGY II	1/8	730	646
		NOBLE ENERGY INC	APPALACHIA, LLC	Not less than	39	-
8)	05-0005-0012-0000-0000	Barbara Kay Ewing and Wilber E. Ewin Charles Howard Bassett IR and Ruby D		1/8 Not less than	842	3
		Bassett	NOBLE ENERGY INC	1/8	842	-
		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.		Not less than		
		Strausbaugh	NOBLE ENERGY INC	1/8 Not less 09/	841 17/20	370 21
		Janet and John Blankenship	NOBLE ENERGY INC	1/8 U9/ Not less than	1/1549	2 ₃₆₈
		Jean C. Thomas	NOBLE ENERGY INC	1/8 Not less than	841	449
		Mary E Bassett	- FOBLEENERGY INC	1/8	841	357
		Robert B. and Violet Thomas	NOBLE ENERGY INC	Not less than 1/8	842	28
		Roger B. and Inkeri P. Rose	AUG 1 2 707 NOBLE ENERGY INC.	Not less than		
		noger busing interior record	MODEL EMERGALING	1/8	841	358

Wy Departmental Protection

		Ruth Ann and Furman F. Wallace Ruth E. Bassett Meadows and O.W. Meadows Jr	NOBLE ENERGY INC NOBLE ENERGY INC HG ENERGY II	Not less than 1/8 Not less than 1/8	841 842 39	364 38
		NOBLE ENERGY INC	APPALACHIA, LLC	Not less than		
9)	05-0005-0006-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	157
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
		AEP Generation Resources Inc. and		Not less than		
10)	05-0005-0003-0000-0000	Kentucky Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	157
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
44)	05 0005 0003 0000 0000	Margaret Comes	CNX Gas Company, LLC	Not less than 1/8	763	441
11)	05-0005-0002-0000-0000	Margaret Games	CHA Gas company, cao	Not less than		
		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

09/17/2021

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WV Department of Environmental Protection



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

July 30, 2021

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

024/0

RE:

Drilling Under Roads - MND23 N-4H (47-051-02218)

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 C. White

Diane White

Enclosures

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WV Department of Environmental Protection

09/17/2021

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

Date of Notic	e Certification: 08/03/2021		API No. 47		30040
		(Operator's	Well No. MI	ND23 N-4H
		•	Well Pad N	lame: MND	23
Notice has b	een given:				
	e provisions in West Virginia Code §	22-6A, the Operator has provi	ided the req	uired parties	with the Notice Forms listed
	tract of land as follows:		. .		
State:	West Virginia		Easting:	520040.8	
County:	Marshall		Northing:	4407234.4	
District:	Franklin	Public Road Acces			oad (SLS 21/1)
Quadrangle:	Powhatan Point	Generally used far	m name:	CONSOL	
Watershed:	Big Tribble Creek - Ohio River				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shed the owners of the surface describe equired by subsections (b) and (c), sec surface owner notice of entry to sur of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall te have been completed by the applicant	ed in subdivisions (1), (2) an tion sixteen of this article; (ii) vey pursuant to subsection (a this article were waived in v nder proof of and certify to th	nd (4), subsorthat the reconstruction to the contraction to the contraction to the contraction of the contra	ection (b), so the contract when of this a the surface	section ten of this article, the as deemed satisfied as a resul- rticle six-a; or (iii) the notice owner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY		is Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NOT	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURVI	EY or 🔳 NO PLAT SURVE	Y WAS CO	ONDUCTEI	□ RECEIVED
☐ 3. NO		☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR P WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		■ WRITTEN WAIVER B (PLEASE ATTACH)	SY SURFA	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUE	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 Wescellaginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made Office for a service, the return receipt card or other postal receipt for certified mailing.

AUG 1 2 2071

Certification of Notice is hereby given:

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

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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

Official Seal

Notary Public, State of West Virginia
Cory J Arnold
12905 Emerson Avenue
Parkersburg, WV 26104
My commission expires February 15, 2023

Subscribed and sworn before me this 3rd day of August, 2021

Notary Public

My Commission Expires 2-15-2023

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 Gas

AUG 1 2 2021

WW-6A (5-12)

API NO. 47-	
OPERATOR WELL NO	MND23 N-1H thru N-6H
Well Pad Name: MND23	

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

Noti Date	ce Time Requirement: notice shall be provided no la e of Notice: 07/30/2021 Date Permit Application Filed	ter than the filing date of permit application. 1: 08/05/2021
Noti	ice of:	
		F APPROVAL FOR THE FOR AN IMPOUNDMENT OR PIT
Deli	very method pursuant to West Virginia Code § 22-	6A-10(b)
		TETHOD OF DELIVERY THAT REQUIRES A ECEIPT OR SIGNATURE CONFIRMATION
or by eros own tractorous for both tractorous oil a enla Any with domic (c)(the limin continuous Not	y registered mail or by any method of delivery that required and sediment control plan required by section severages of record of the surface of the tract on which the water that of the surface of the tract on which the water that of the surface of the tract on which the water that of the surface as described in the erosion of this article; (3) The coal owner, operator or lessed the second s	Y
Nan	SURFACE OWNER(s) * Notice not sent to not sent to HG Energy II Appalachia, LLC HG - OWNER & OF Iress: 5260 Dupont Road	COAL OWNER OR LESSEE Deca to Name: Murray Energy Corporation Address: 46226 National Road
	Parkersburg, WV 26101	St Clairsville, OH 43950
Nan	ne: lress:	☐ COAL OPERATOR
ridu	11033.	Name:
		Address:
	SURFACE OWNER(s) (Road and/or Other Disturbar	ice)
Nan	ne: HG Energy II Appalachia, LLC Iress: 5260 Dupont Road	☐ WATER PURVEYOR(s)
Add	Parkersburg, WV 26101	
Nan	ne:	Name:
	ress:	. 100.000
П	SURFACE OWNER(s) (Impoundments/Pits)	☐ OPERATOR OF ANY NATURAL GAS STORAGE
No.		PIELD RECEIVED
Nan	ne;	Name: Of Oil and Gas
Aud		Address:
		*Please attach additional forms if necessary AUG 1 2 2021
		0014710004

w09/17/2021
Environmental Protection

WW-6A (5-12) API NO. 47- 4 7 0 5 1 0 2 4 1 0

OPERATOR WELL NO. MNDRAN-9H thru N-6H

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

Water Well Testing:

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

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. (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 minigating such

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WW-6A (5-12)

factors, if necessary.

API NO. 47- 051 - 024/0

OPERATOR WELL NO. MKD23N-1H DTD N-6H
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 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.

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.

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Environmental Protection

API NO. 47- 05	1-02410
OPERATOR WEI	L NO. MND23 N-1H Dru N-6H
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 permit decision and a list of persons qualified to test water.

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Address: 5260 Dupont Road

Telephone: 304-420-11

304-420-1119

Parkersburg, WV 26101

Email: dwhite@hgenergyllc.com

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.



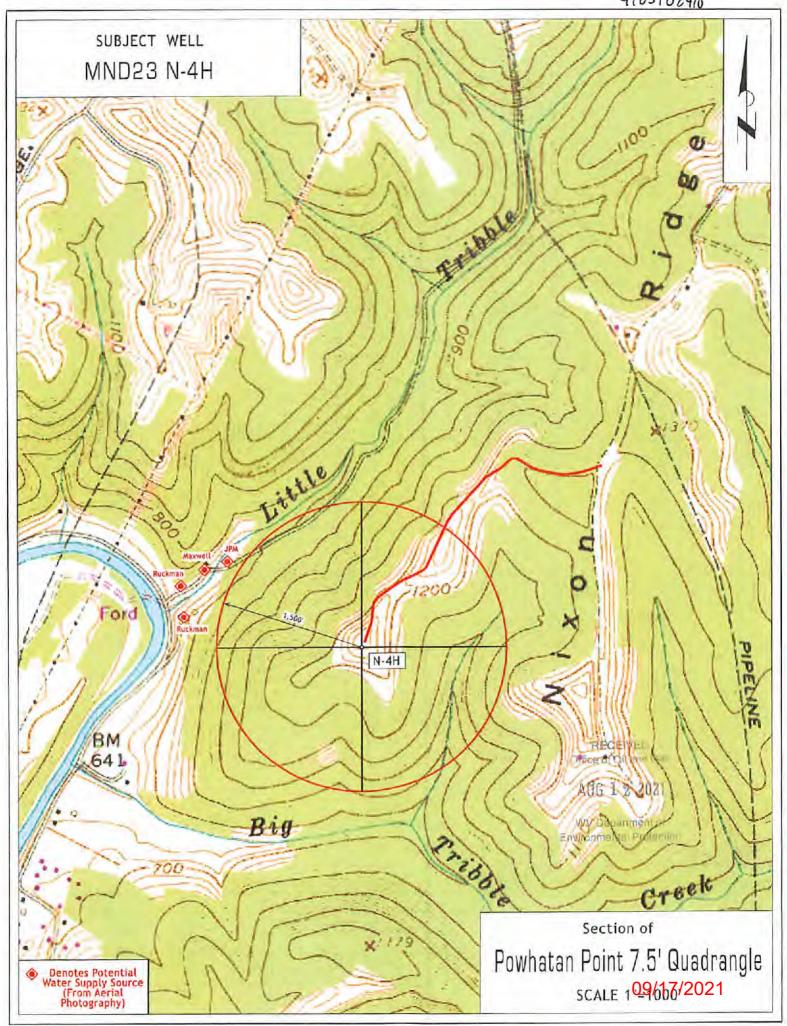
Subscribed and sworn before me this _____day of _____,

Coss d ______ Notary Public

My Commission Expires ______7 31 2022

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Office of Oil and Gas

AUG 1 2 2021



WW-6A4W Operator Well No. MND23 N-4H (1/12)

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, 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	LITMANIATS 02	Easting:	520040.8
County:	Marshall	- UTM NAD 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			D.
, territor	ric Grayson, VP, HG Energy II Appalachia, LLC	Signature:	Ew.	Jeogson
riddi coo.	260 Dupont Road	2344 72420		4
P	arkersburg, WV 26101	Date: 07/30/	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.

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WV Department of Environmental Protection WW-6A5 (1/12) Operator Well No. MND23 N-4H

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

■ CERTIFI	od pursuant to West Virginia Co			
	on pursuant to west virginia Co	de § 22-6A-16(c)		
	UED MAIL	☐ HAND		
RETURN	N RECEIPT REQUESTED	DELIVERY		
	1.1111111111111111111111111111111111111	a a 1, c c: a		cation, an operator shall, by certified mail
return receipt return receipt return planned op required to be purely drilling of a bed damages to the (d) The notices of notice.	equested or hand delivery, give the peration. The notice required by the provided by subsection (b), section prizontal well; and (3) A proposed surface affected by oil and gas open a required by this section shall be given.	surface owner whose land his subsection shall include ten of this article to a surfa- l surface use and compense erations to the extent the da- tiven to the surface owner a	I will be used for de: (1) A copy ace owner whos ation agreemen amages are comp at the address list	or the drilling of a horizontal well notice of of this code section; (2) The information is land will be used in conjunction with the it containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time and as HG is also the Operator
Notice is here! (at the address	by provided to the SURFACE OV listed in the records of the sheriff a	t the time of notice):	of ronce	E do no is disc mic of
	ergy II Appalachia, LLC	Name:		
Address: 5260 D	Supont Road	Address	;	
Parkers	sburg, WV 26101			
Table Comments of the comments	he surface owner's land for the purp West Virginia	UTM NAD 8	Fasting:	520037.3
County:	Marshall /	Public Road	Northing:	4407221.2 Nixon Ridge Road (SLS 21/1)
County: District:	Franklin /	Public Road	Northing: Access:	4407221.2
County: District: Quadrangle:		Public Road	Northing:	4407221.2 Nixon Ridge Road (SLS 21/1)
County: District: Quadrangle: Watershed: This Notice St Pursuant to We to be provided horizontal well surface affecte information rel headquarters, l gas/pages/defar	Franklin Powhatan Point Little Tribble Creek hall Include: est Virginia Code § 22-6A-16(c), tl I by W. Va. Code § 22-6A-10(b) l; and (3) A proposed surface use a d by oil and gas operations to the lated to horizontal drilling may be located at 601 57th Street, SE, ult.aspx.	Public Road a Generally use this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are contained from the Secret Charleston, WV 25304	Northing: Access: ed farm name: A copy of this e land will be unit containing arompensable und tary, at the WV (304-926-0450)	4407221.2 Nixon Ridge Road (SLS 21/1)
County: District: Quadrangle: Watershed: This Notice St Pursuant to We to be provided horizontal well surface affecte information rel headquarters, l gas/pages/defar Well Operator:	Franklin Powhatan Point Little Tribble Creek hall Include: est Virginia Code § 22-6A-16(c), tl I by W. Va. Code § 22-6A-10(b) I; and (3) A proposed surface use a rd by oil and gas operations to the lated to horizontal drilling may be located at 601 57th Street, SE, ult.aspx. HG Energy II Appalachia, LLC	Public Road A Generally use his notice shall include: (1) to a surface owner whose and compensation agreeme extent the damages are co	Northing: Access: ed farm name: A copy of this e land will be int containing arompensable und tary, at the WV (304-926-0450)	Augustian August
County: District: Quadrangle: Watershed: This Notice St Pursuant to We to be provided horizontal well surface affecte information re headquarters, 1	Franklin Powhatan Point Little Tribble Creek hall Include: est Virginia Code § 22-6A-16(c), tl I by W. Va. Code § 22-6A-10(b) l; and (3) A proposed surface use a d by oil and gas operations to the lated to horizontal drilling may be located at 601 57th Street, SE, ult.aspx.	Public Road a Generally use this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are contained from the Secret Charleston, WV 25304	Northing: Access: ed farm name: A copy of this e land will be unit containing arompensable und tary, at the WV (304-926-0450)	Augustian August

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

July 29, 2021

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

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0370 which has been issued to HG Energy II Appalachia for access to the State Road for a well site located off Marshall County Route 21/1 SLS MP 1.88.

This operator is in compliance with §22-6A-20 of the WV Code. 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. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

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Office of Oil and Gas

AUG 1 2 2021

WV Department of Environmental Protection

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc:

Diane White

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

CII, OIVI

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

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WV Department of Environmental Protection



CONSTRUCTION SEQUENCE

Prior 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 clearly

delineate sensitive areas, riparian forest buffer boundaries, the limits of cleaning, 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.

2. Site access - This is the first land-disturbance activity to take place at the site and should provide BMPs to

minimize accelerated excelor and sedimentation from

the following areas, entrance to the site, construction

clearing and grubbing limited to only that amount required for installing perimeter BMPs.

4, Land Clearing and Grading - Implement cleaning and

5. Surface Stabilization - Apply temporary or permanent

7. Upon completion of pad grading, compact the pad to

including, permanent seeding, mulching and riprap, and

complete implementation of stormwater BMPs in this last

borrow and spoil areas, and remove all temporary BMPs

construction phase. Stabilize all open areas, including

and stabilize any disturbances associated with the

grade and begin placement of pad soil cement. 8. Final Stabilization, Topsoiling, Trees and Shrubs - After construction is completed, install stabilization BMPs

stabilization measures immediately to any disturbed

areas where work has reached final grade has been delayed or otherwise temporarily suspended. 5. Construction of Buildings, Utilities, and Paving - During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may

grading only after all downslope E&S BMPs have been

at the site including parking, stockpiles, 3. Sediment Barriers - Install perimeter BMPs after the construction site is accessed, keeping associated

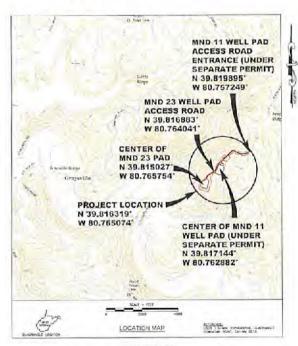
constructed and stabilized,

be required.

removal of the BMP.

routes, and areas designated for equipment or other use

MOUNDSVILLE MARSHALL COUNTY WEST VIRGINIA



PREPARED FOR HG ENERGY II APPALACHIA, LLC

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

PREFARED BY PENN ENVIRONMENTAL & REMEDIATION, INC.

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

AUG 1

CV

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Estimated Gross Material Balance (CF 190 crass Board out Site Butance Served formed Aire 6.167 Swell Factor at Toosci Stockade Volume (Loosa CV) 7.400 Est. Topsof To Se Respiece on Dat/F # Filippes 1.850 6.040 Topsual era volume based on 6 exchas average deplin Material balance and aggregate quantities based on estimates and may and be representative of actual reportions. 2. Extirma are the next reclient environ. Ear play yet amen-Amoust Posts 1,583 TOTAL 21,316 10 53% K Set Deneral (Placed SF) 3' Certhi of 3,4' Chapter Aun (Tons) Top Coat Chic 4 Seed (Placed SY) 2,126 streeted 12 Compost Filer Sask Length (LF, (Rasia) streated 12" Dompost I Ber Sack Length (LF (Pair) 1,850 attracted Total 12" Compact Film Sock Length (LF) 19 004 ad East Pro-Person edge, Playabor, (Fr) res Fad Sup-base Elevation (Top of Soil Comert) (FI 1206.80

1 TITLE SHEET 2A-2E SHE DEVELOPMENT PLANS 3 PAQ & STOCKPILE STOTIONS 4A-4D ACCESS ROAD SECTIONS 5A-5F CONSTRUCTION NOTES & DETAILS 6A-6C RESTORATION PLAN 7 PROPERTY MAP	SHT. NO.	SHEET TITLE
PAD & STOCKPILE SECTIONS 4A-4D ACCESS ROAD SECTIONS 5A-5F CONSTRUCTION NOTES & DETAILS 6A-6C RESTORATION PLAN	1	TITLE SHEET
4A-4B ACCESS ROAD SECTIONS 5A-5F CONSTRUCTION NOTES & DETAILS 6A-6C RESTORATION PLAN	2A-2E	SHE DEVELOPMENT PLANS
5A-5F CONSTRUCTION NOTES & DETAILS 6A-6C RESTORATION PLAN	3	PAD & STOCKFUE SECTIONS
6A-6C RESTORATION PLAN	4A-4B	ACCESS ROAD SECTIONS
See the second s	5A-5F	CONSTRUCTION NOTES & DETAILS
7 PROPERTY MAP	6A-60	RESTORATION PLAN
	7	PROPERTY MAP

Well Part Surface Disvetice (Th

WELL #	LAT.	LONG.
1	N 39.814735	W 80.755892
2	14 39.814774	W 80.755878
3	N 39,814814	W 80.765865
4	N 39.814854	W 80,765851
5	N 39.814894	W 50,765838
6	N 39.814934	W 50.765824

WYB3-NE WELL COORDINATES

B.S. 8-2-21

							- 1	ATITUDE	1	CNGITUDE
MND	23	WELL	PAD	ACCESS	ROAD	ENTRANCE	14	39,810883	W	80.764041
MND	11	WELL	PAD	ACCESS	ROAD	ENTRANCE	N	39.819895	*	80.757249

RECORD DWNER	RECORD LUT #	RECORD AHEA OF LOT	AREA WITHIN LOD
HG ENERGY PROPERTY	TM 4 PARCEL 14	121.531 AC.	15.979 AC.
NIXON MIDGE IN HOW	N/X	N/A	0,025 AC.
TOTAL	LIMIT OF DISTURBANCE		19.004 AC

REVISION	DATE	DESCRIPTION
1	01/24/2219	REVELS WELL HAD DWENSIONS
2	02/01/25:9	REVISED WELL PAD DIMENSIONS
3	02/06/2019	REWIRD CELLAR CETAL
4	04/29/2019	REVISED TO INCLUDE ACCESS TO PUBLIC ROAD
5	09/17/2019	REVIEW HE ELVATIONS PLANSAGES TO HOSE SCHOOL.
6	25/29/2019	REVISED PER WYDER COMMENTS

the second is contained to the Common or School Second and the Color State and the



Penn E&R

111 RYAN EQUAT, PHTSBURGH, PA 15005:

TITLE SHEET HG MND 23 MARSHALL COUNTY WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

FAC07837-01

SERVICE UTILITY UNEED ARE BUT SHOWN OF THE PLACE. THE CONTRACTOR SHOULD BE RESPONSIBLE FOR LIDEATING MAINTAINING, AND HEPLACING AS RECESSARY TO ENSURE CONTINUAL EXHIBITS.

WEST VIRGINIA

Dial 811 or

123702

CALL BEFORE

YOU DIG!

