

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-2H 47-051-02408-00-00

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

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

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

James A, Martin

Operator's Well Number: MND23 N-2H Farm Name: HG ENERGY II APPALACHL U.S. WELL NUMBER: 47-051-02408-00-00 Horizontal 6A New Drill Date Issued: 9/13/2021

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

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

API Number:

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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4705102408 API NO. 47-

WW-6B (04/15)

OPERATOR WELL NO. MND23 N-2H / Well Pad Name: MND23 /

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

1) Well Operator: HG Energy	II Appalachia,	494519932	Marshall	Franklin	Powhatan Point
.,		Operator ID	County	District	Quadrangle
2) Operator's Well Number: MN	D23 N-2H 🧹	Well P	ad Name: MNE	023	
3) Farm Name/Surface Owner:	CONSOL/IIG Energy Appa€	Public Ro	ad Access: Ni	kon Ridge F	Road (SLS 21/1) ~
4) Elevation, current ground:	1273' EI	evation, propose	d post-construct	tion: 1240'	-
5) Well Type (a) Gas <u>x</u> Other	Oil	Un	derground Stora	ige	
(b)If Gas Shal Hori	low <u>x</u> izontal	Deep			
6) Existing Pad: Yes or No No	o				
7) Proposed Target Formation(s) Marcellus, 6474' - 6540', 66' Th	ick, 4204 psi	ipated Thickness	and Expected I	Pressure(s):	1-2-21
8) Proposed Total Vertical Depth			v		
9) Formation at Total Vertical De					
10) Proposed Total Measured De	pth: 15875'				
11) Proposed Horizontal Leg Ler	ngth: 8397'				
12) Approximate Fresh Water St	rata Depths:	538', 801', 898	8', 947' 🗸		
13) Method to Determine Fresh	Water Depths: 1	Vearest offset w	rells		
14) Approximate Saltwater Dept	hs: None				
15) Approximate Coal Seam Dep	oths: 847' - 852				RECEIVED
16) Approximate Depth to Possil	ole Void (coal mi	ine, karst, other):	None anticipa	ated	Office of Oil and Gas
					AUG 1 2 2021
 Does Proposed well location directly overlying or adjacent to 		ns Yes x	N		WV Department of formental Protection
(a) If Yes, provide Mine Info:	Name: Mars	hall County Min	е		
	Depth: 890'	to seam base			
	Seam: Pittst	ourgh #8			
	Owner: Murra	ay Energy Corp	oration		

API NO. 47- 051 02408

OPERATOR WELL NO. MND23 N-2H Well Pad Name: MND23

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or Used	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (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	15875'	15875'	CTS
Tubing							
Liners							



ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (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

Sizes:	+
Depths Set:	



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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,535 feet. Drill horizontal leg to estimated 8,397' lateral length, 15,875 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	s road (acres):	8.498 acres
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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. ATE 1 2 2021 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 + 0.3% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020 ExcessLead Yield=1.19Tail Yield=1.94CTS" W// Deced

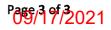
WV Department of Environmental Protection

RECEIVED

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 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. 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 coment with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8 1309-48-4
		strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
emium NE-1	Portland Cement		and a state of the second s		
		Commonly called gel, it is		%	CAS number
		a clay material used as a	Ingredient name	90 - 100	1302-78-9
		cement extender and to control excessive free	bentonite Crystalline silica: Quartz (SIO2)	5 - 10	14808-60-7
		water.			
entonite	Extender				
		A powdered, flaked or pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
Icium Chloride	Accelerator	of strength development			
cium calonde	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as a lost circulation material.	No hazardous ingredient		
ello Flake	Lost Circulation	A CONTRACTOR OF A CONTRACT			
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It is very effective	Ingredient name	%	CAS number
		minimizing air	Tributyl phosphate	90 - 100	126-73-8
		entrapment and			
		preventing foaming tendencies of latex			
		systems.			
2-13L	Foam Preventer		the second s		
		and the second second	Ingredient name	%	CAS number
consistent Courses	Dotanian	Used to retard cement	Sucrose	90 - 100	57-50-1
ranulated Sugar	Retarder	returns at surface. A proprietary product			
		that provides expansive			
		properties and improves		1	010
		bonding at low to moderate	Ingredient name Calcium magnesium oxide	%	GAS number 37247-91-9
		temperatures.	varsium magnosium utilue	30 - 100	VI241-91-9
C-1		N/ del promo en el maren			
		Multi-purpose polymer additive used to control		1	la
		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		F	RECEIVED
		cement, Pozzolan can be		Office	of Oil and Gas CAS number
		used to create	Ingredient name Crystalline silica: Quartz (SiO2)	%	CAS number 14808-60-7
		lightweight cement	Crystatline stitca: Quartz (SiO2) Calcium oxide		1 213957848
		slurries used as either a filler slurry or a sulfate			- 10 - CVL
		resistant completion		WVD	epartment of
The Ash	Faca	cement.		Environm	ental Protection
oz (Fly Ash)	Base				- TOTECTION
		A low temperature			- Andrews
		retarder used in a wide range of slurry	Ingredient name	%	GAS number
		formulations to extend	Organic acid salt	40 - 50	Trade secret.
		the slurry thickening time.			
3	Retardur				
3	Retarder				010
3	Retarder		Ingredient name	%	CAS number
3	Retarder		2-Butoxyethanol	20 - 30	111-76-2
3	Retarder	Used to water wet casing	2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligometric, C10-16-alkyl glycosides	20 - 30 10 - 20 5 - 10	111-76-2 Trade secret. 110615-47-9
3 5	Retarder	Used to water wet casing and formation to facilitate	2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkvardsulfonate amine salt	20 - 30 10 - 20	111-76-2 Trade secret.

20° 20° <th></th> <th></th> <th></th> <th>HERGY</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Marcellus Sh</th> <th>23 N-2H ale Horizontal County, WV</th> <th></th>				HERGY						Marcellus Sh	23 N-2H ale Horizontal County, WV	
Azm 3223,643* MND23 N-2H BHL 14464661.59N 4699461.36E LLIDRE DIAGRAM HOLL CANVG OKLOUNY TOP BASE MUD COMMENT COMMENTS C							MND	23 N-2H SH	IL		14459372.59N 1706159.49E	
BLISORE DALGRAM HOLE CASING GEOLOGY TOP BASE MUD CEMENT CEMENT<	Ground E	levation	1240'	(RKB) 2	25'		MN	D23 N-2H LI	P		14457899.17N 1704439.28E	
Num Num Num Num Num Num Designation Designation Designation Num Designation	Azm			323.	643°		MND	23 N-2H BH	1L		14464661.59N 1699461.36E	
20° 20° <th>LLBORE DIAG</th> <th>RAM</th> <th>HOLE</th> <th>CASING</th> <th>GEOLOGY</th> <th>TOP</th> <th>BASE</th> <th>MUD</th> <th>CEMENT</th> <th>CENTRALIZERS</th> <th>CONDITIONING</th> <th>COMMENTS</th>	LLBORE DIAG	RAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
N First Water State First Water State Sufface casing O and sufface Sufface <			20*		Conductor	D	40 /	AIR		N/A		
No. Fresh Water 538() 801, 801, 901, 902, 967 17.5* 13.96*6.6.5* Suface Casing 0 1156 Deg Glass A Neat Search Circuita a finitum of 132 gains of fis12 gains		x										Burst=2110 psr
No. Suff ac Easing Surface Casing 0 1150 All All Comparing Casing Comparing Casing <td></td> <td></td> <td></td> <td></td> <td>Fresh Water</td> <td>538', 801</td> <td>', 898', 947'</td> <td></td> <td></td> <td>1.5.5. Total</td> <td>Circulate & condition @ TD w/ Air. BIH w/ casing</td> <td></td>					Fresh Water	538', 801	', 898', 947'			1.5.5. Total	Circulate & condition @ TD w/ Air. BIH w/ casing	
X V/S J-56 BTC Deal(s) 9/7-922 All dig b 20683 Weight, 10 / CTG the revery initig joint 10° from startace Tools of the during initial during initial of the during initial of the during initial during initinitinitial dur				13-3/8" 54 5#	Surface Casing	0	1150				& fill w/ Fresh Water Circulate a minimum of 1	Surface casing = 0.380" w
Book Strings Cover Juss B BCC Pacanola 2479 All 15.0 ppg Class A 94a/sk 1% Calcum BWCC - 40% Excess Yeld=1.2 / CTS Crowlink Methods and the Cover intermediate Casing (CT) water Rel-Wider and on the volume Art intermediate Casing (CT) water Rel-Wider art intermediate Casing (CT) wat		×	17.5"		Ccal(s)	917"	- 922'	AIR		then every third joint to	of poly flake, then clear casing w/ Fresh Water	
Point 2479 Air 45 ppg Gas A 949/st points flow exprise collars on frast 12 points flow exprise 8 flow the rest Water 2 obtic risk e antinum of 1 points flow exprise Intermediate a minimum of 1 points flow exprise Intermediate casing = 0.26 8 751 Verifical Intermediate Casing 0 3150 All and/or 9 0pp SOBM Intermediate casing = 0.26 Intermediate casing	d	X			Big Lime / Big Injun	2170/2274	2263 / 2305			La start and a second		
12.25* 9-8/8*408 58h Sand 2640 AIR 1% Calcum B/VCC - 40% Boss Weld=12 / CTS points, the every third on to 100 from every third on to 100 fr			1000	Countred 1	Pocono	2479			1% Calcium BWCC - 40% Excess	collars) on first 12 joints, then every third joint to 100' from	& till 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	Intermediate casing = 0.39
X Cordon 3052 surface surface andro 10 pumping coment. Intermediate Casing 0 3150 AIR and/or 9.0pp g 9.0pp g X X AIR and/or 9.0pp g 9.0pp g X X AIR and/or 9.0pp g 9.0pp g X X X AIR and/or 9.0pp g X X X X X X X X X X X X X X </td <td></td> <td></td> <td>12.25"</td> <td rowspan="2"></td> <td>5th Sand</td> <td>2640</td> <td></td> <td>AIR</td> <td></td>			12.25"		5th Sand	2640		AIR				
X X AlR and/or 9.0pp SOBM R.75' Vertical Riniestreet: 5961 6253 Riniestreet: 5961 6253 Riniestreet: 5961 6253 Cassaqua 6253 6317 Riniestreet: 5961 6253 Riniestreet: 5961 6253 Cassaqua 6253 6317 Riniestreet: 5961 6253 Diss A 14.8 pp 200 Cassaqua 6253 Pillo HP Coc HTP West River 6340 Burket: 6407 6425 Tully 6425 6454 Marcelus: 6407 6425 Marcelus: 6439 5645 Tully 6425 6454 One on battem/TD with casing, circulate at the hele sideat. the h		X	1.7		Gordon	3052						
X X X X X X X X X X X X X X X X X X X					Intermediate Casing	a	3150					
X X X Cashaqua 6253 6317 Gashaqua 6340 Pilot III Pilot IIII Pilot IIIII Pilot IIII Pilot IIIII Pilot IIIIIIIIII Pilot IIIIIIIIIIII Pilot IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	x							9.0ppg		every 5 joints from the top of the curve to		
X X S-1/2* 20# P-110 HP CDC HTQ Cashadga 6253 6317 6340 Air then 11 5ppg- 12 5pg SOBM Yield 1.34 One on bottom/TD who asing, circulate at max allowable pump rate for allowable pump rat					Rhinestreet	5961	6253		and or have the			
X X X X X X X X X X X X X X X X X X X				- 4 07	Casnaqua	6253	6317				Once on bottom/TD with casing, circulate at max	Burst=12640 psi
The process of the curve P-110 HP CDC HTQ West River 6340 8407 11 sppg- 12.5ppg SOBM The process of the curve Burkett 6407 6425 6454 Tully 6425 6454 Hamilton 6434 3499 Marcellus 6439 8545 Marcellus 6439 8545 Tully 11 sppg- 12.5ppg SOBM Marcellus 6439 Stateral 2 0 The The process of the curve 11 sppg- 12.5ppg SOBM	X >		8.75*18.4*	20#					D255 - 0.4% BWOE Fluid Less			
And Control			ThCurve						D047 - 0.02 gal / sack Anti Foam	Run 1 spiral controlinor	is clean. Circulate a minimum of one hole volume	Note:Actual centralizer schedules may be change
Image: Constraint of the state of			NVI V							every 3 joints from the	prior to pumping cement.	due to hole conditions
Image: Constraint of the state of			NV	AL		21.25	12 6 10	-	10% EX0955			
Marcellus Gase BS45 Activities LP TMD / TVD 15875 8535 X D D D Orondaga 6545 11.5ppg-	1000		D E	D 0 1				-				
X D LP TMD / TVD 15675 5535 12.5ppg SOBM X D D Crondaga 6545 12.5ppg SOBM			par					11 5000-				
X 2 2 3 12 Orondaga 6545			ateral (12 5mg 500M							
	X 2			20		the second se						

WW-9	
(4/16)	API Number 47
CT (TE O	Operator's Well No. MND23 N-2H
	F WEST VIRGINIA VIRONMENTAL PROTECTION
	OF OIL AND GAS
FLUIDS/ CUTTINGS DIS	SPOSAL & 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 con	nplete the proposed well work? Yes 🖌 No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes	No 🖌 If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Per	mit Number)
 Reuse (at API Number TBD - At new 	xt anticipated well)
 Off Site Disposal (Supply form W 	VW-9 for disposal location)
Other (Explain	
Will closed loop system be used? If so, describe: Yes, cuttings and	nd fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfilt.
Drilling medium anticipated for this well (vertical and horizo	ontal)? Air, freshwater, oil based, etc. Vancel AP: WBM, SOBM-Horizarius - Ar and/or SOBM
-If oil based, what type? Synthetic, petroleum, etc	Synthetic
Additives to be used in drilling medium? Water, Soap, KCI, B	arite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, remove	ed offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium will	
-Landfill or offsite name/permit number? See Attach	
-Landin of onsite name/permit number:	IN THE REAL PROPERTY OF THE RO

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

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

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

4 6 4

Company Official Signature Diane Whit	الع الم
Company Official (Typed Name) Diane White	AUG 1 2 2021
Company Official TitleAgent	WV Department of
	Environmental Protection
Subscribed and sworn before me this 29th day of	July . 20 21

Subscribed and sworn before me this 29th day of July	, 20_21
- Carridg Bacolon	Notary Public OFFICIAL SEAL
My commission expires 731 2022	NOTARY PUBLIC CASSIDY A, BOARDMAN 5300 94 Ave Vizio 20105 My Commission Expires July 31, 2022

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1875 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

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

Environmental Coordination Services & Recycling (ECS&R) 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 #R90-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

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

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

Waste Management Kelly Run Permit # 100563 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 72A-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 # SWP-103-87 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

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

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

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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

Disposal Locations:

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

Solidification/Incineration Sail Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44435 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 Ollfleid Serv 301 Commerce Drive Maarestown, NJ 08057

Force, Inc. 1380 Rte. 286 Hwy. E, Sulte 803 Indiana, PA 15701

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

Equipment Transport 1 Tyler Court Carlisie, PA 17015

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

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

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

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

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

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

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

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 8367 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 412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Olifield Services, Inc. 2939 Hubbard Road Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652: OH UIC #1 Bu keya UIC Barnesville 1 & 2 CNX Gas Con...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

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HG Energy II Appalachia, LLC

Lime	3 Tons/acre or to correct to p	н	
Fertilizer type 10	-20-20		
Fertilizer amount	500	lbs/acre	
_{Mulch} Hay	2 _{Tons}	s/acre	
	Se	eed Mixtures	
Те	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
all Fescue	40	Tall Fescue	
adino Clover	5	Ladino Clover	5

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

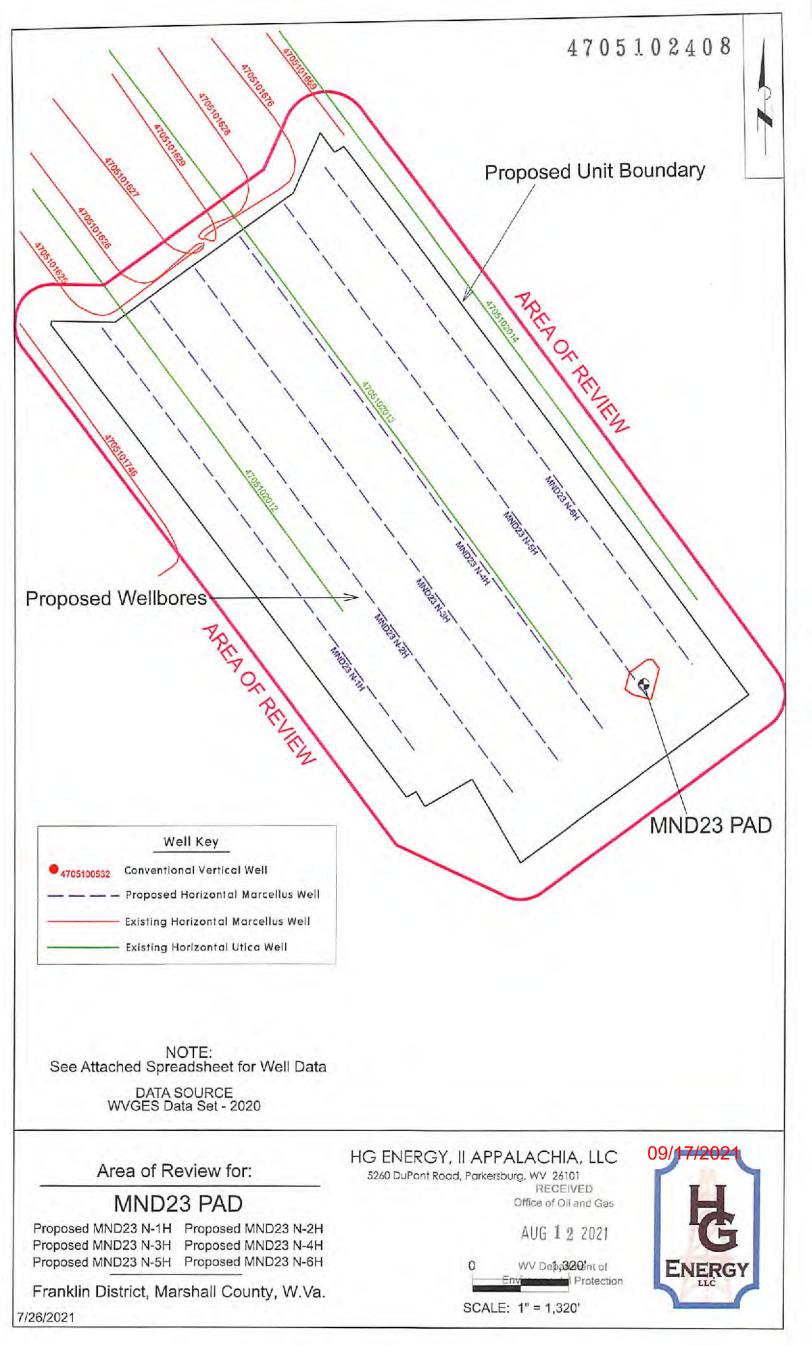
Photocopied section of involved 7.5' topographic sheet.

Young \$ Plan Approved by:

Comments: Pre-seed/mulch as soon as reasonably possible per regulation.

Upgrade E&S if needed per WV DEP E&S manual.

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CT	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
8	4705101746	MARSHALL	MND6 AHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,500	ACTIVE	39.817733	-80.791522
9	4705102012	MARSHALL	MND20 BU	HG ENERGY II APPALACHIA	UTICA SHALE	Horizontal Gas Production	10,700	DRILLED - NOT COMPLETED	39.851695	-80.803153
10	4705102013	MARSHALL	MND20 CU	HG ENERGY II APPALACHIA	UTICA SHALE	Horizontal Gas Production	10,700	DRILLED - NOT COMPLETED	39.851691	-80.803044
11	4705102014	MARSHALL	MND20 DU	HG ENERGY II APPALACHIA	UTICA SHALE	Horizontal Gas Production	10,700	DRILLED - NOT COMPLETED	39.851731	-80.802995
12	4705102045	MARSHALL	MND20 EU	HG ENERGY II APPALACHIA	UTICA SHALE	Horizontal Gas Production	10,700	DRILLED - NOT COMPLETED	39.851774	-80.803054

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

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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.

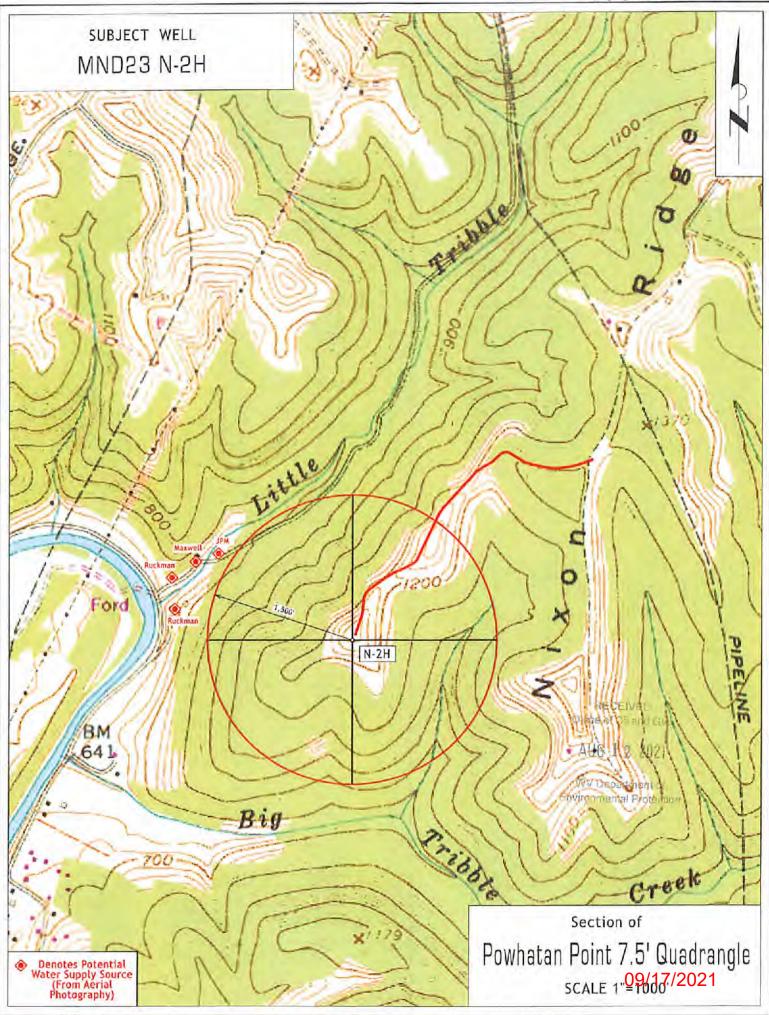
5260 Dupont Road

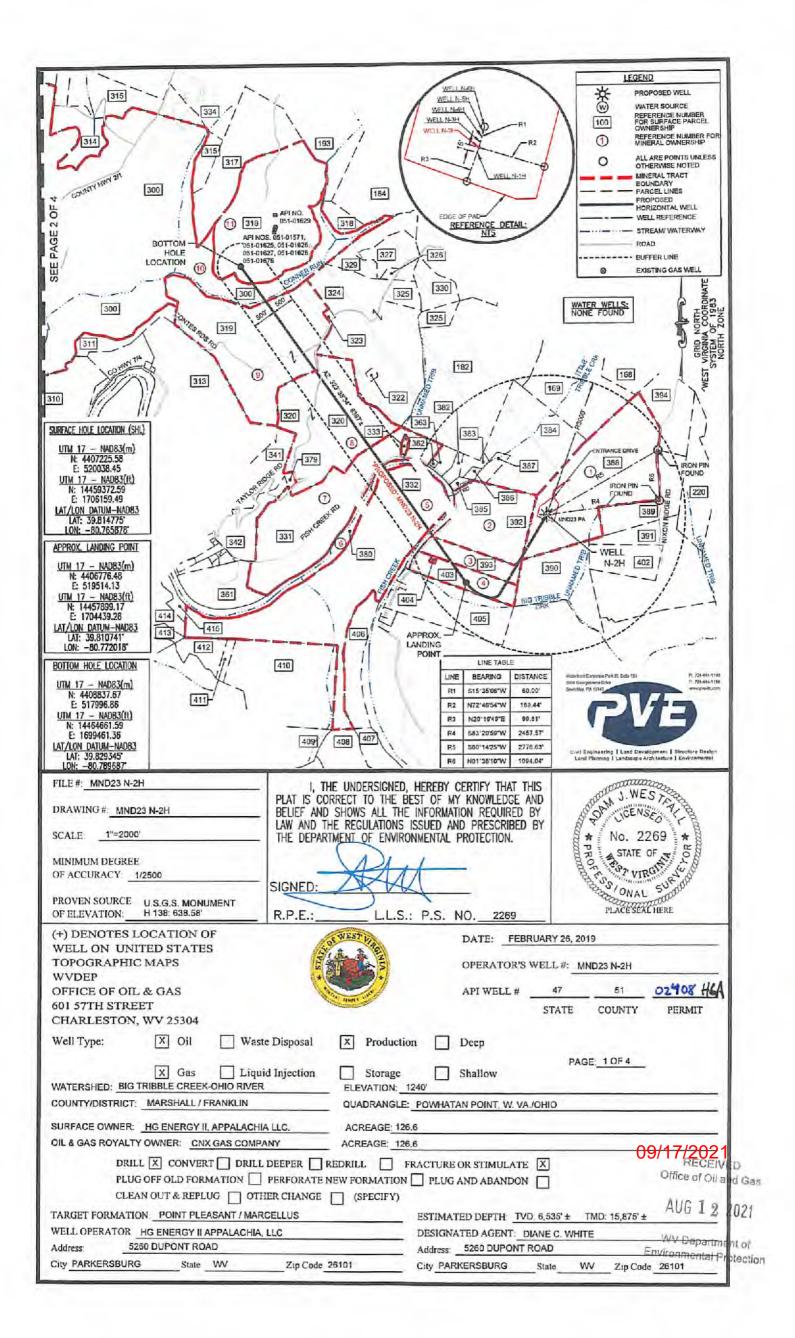
Parkersburg, WV 26101

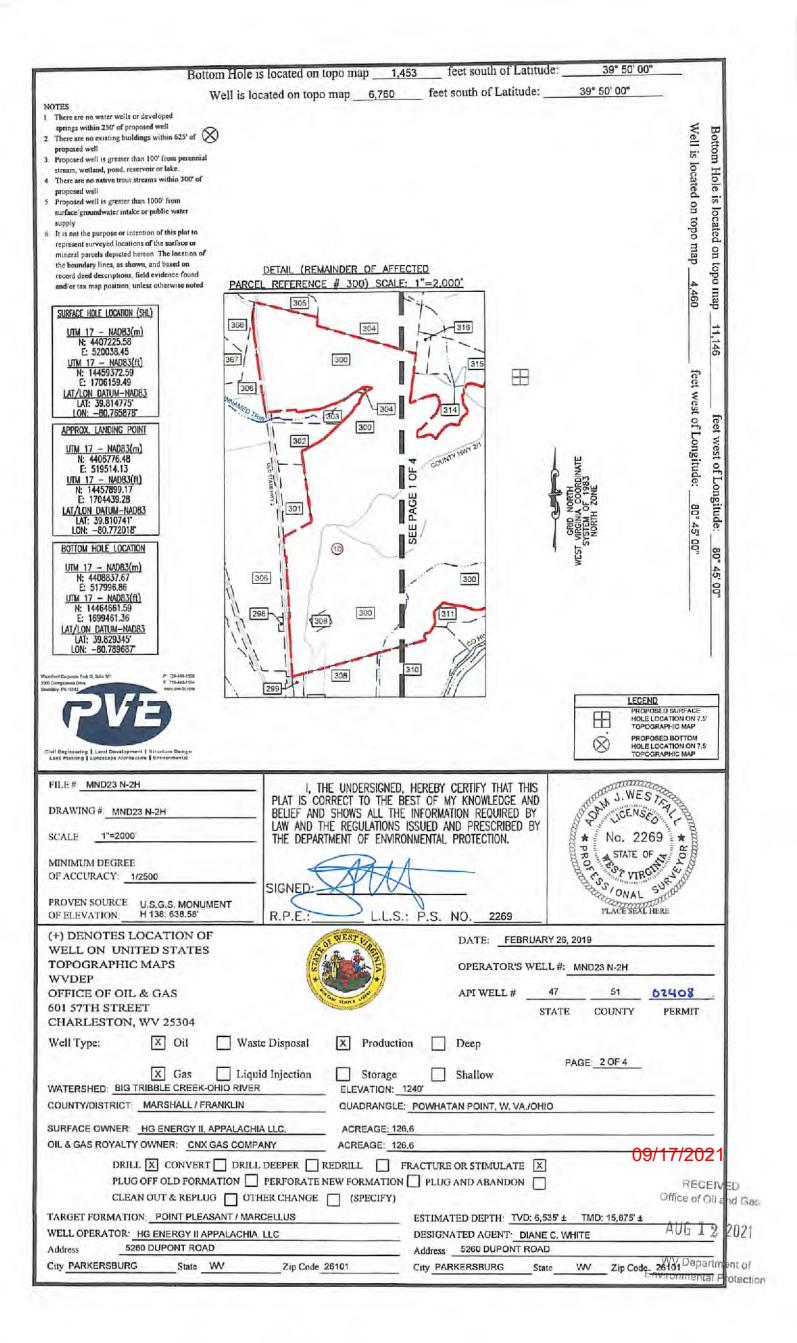
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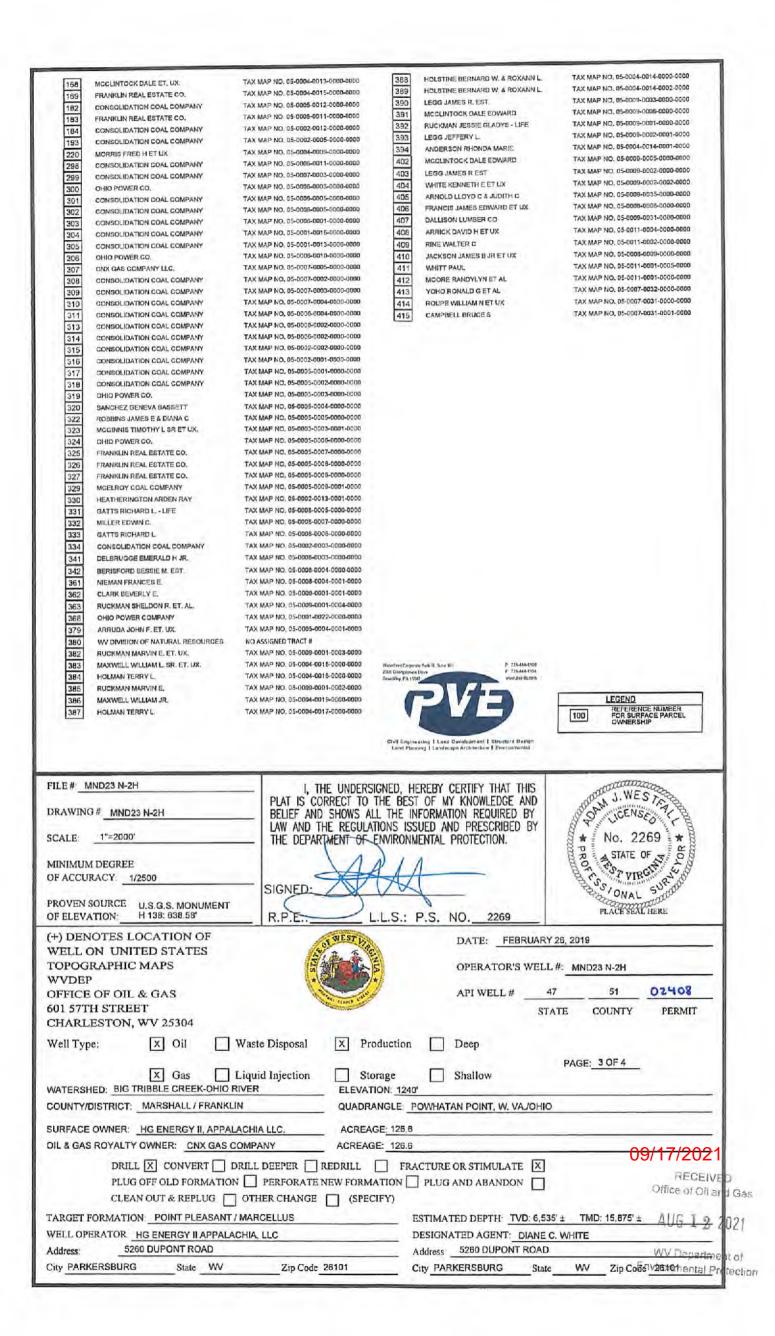
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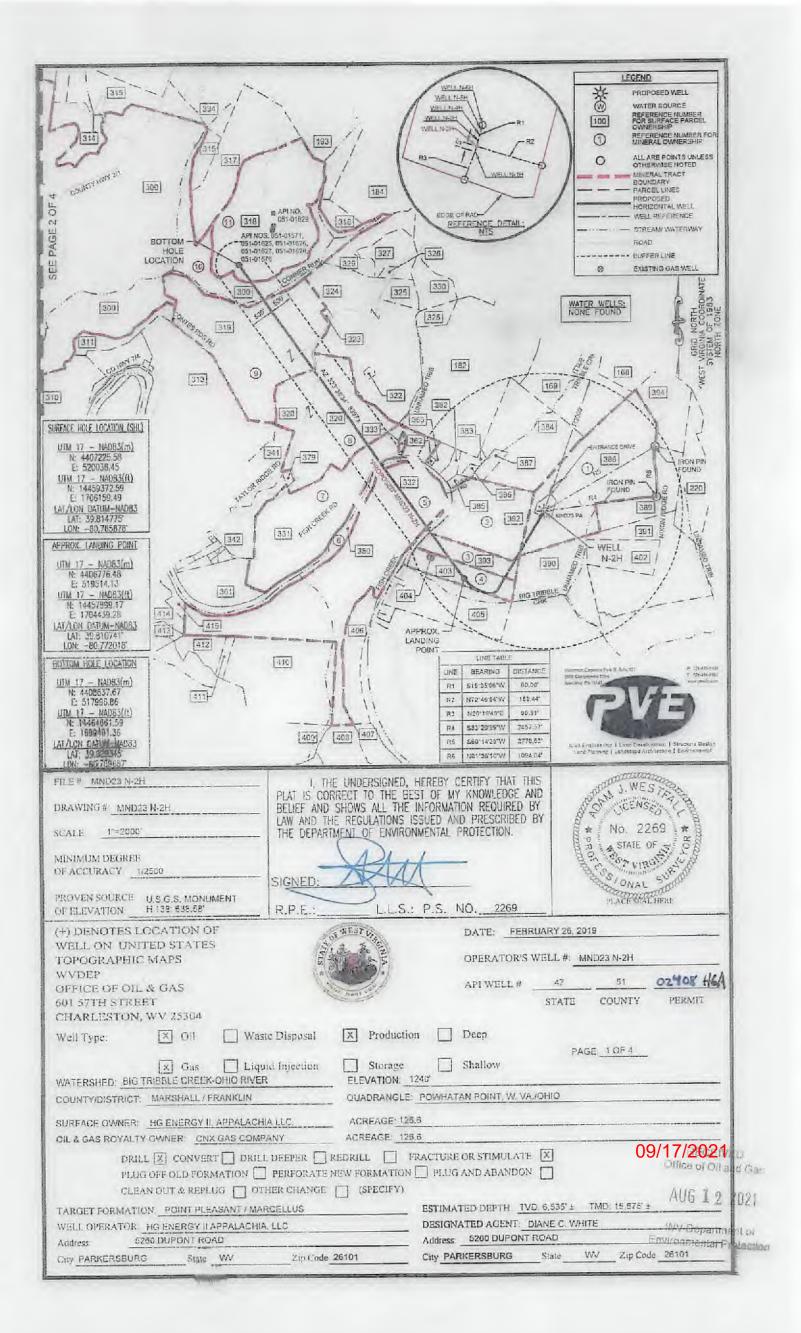


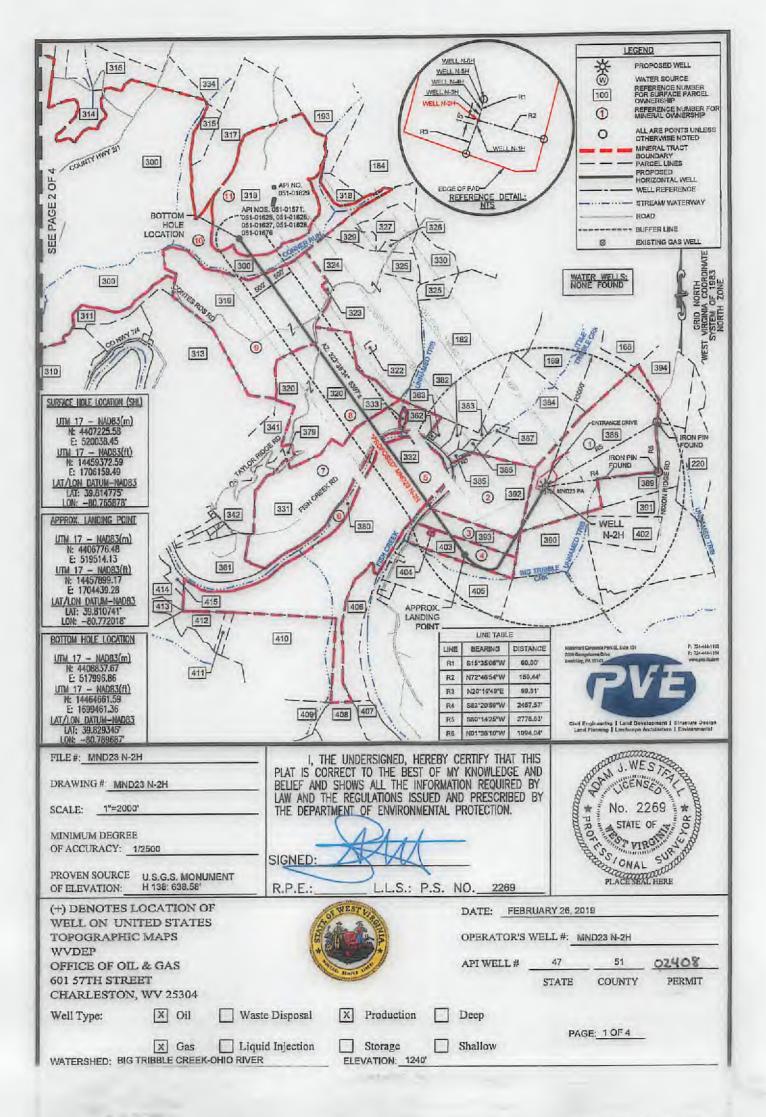


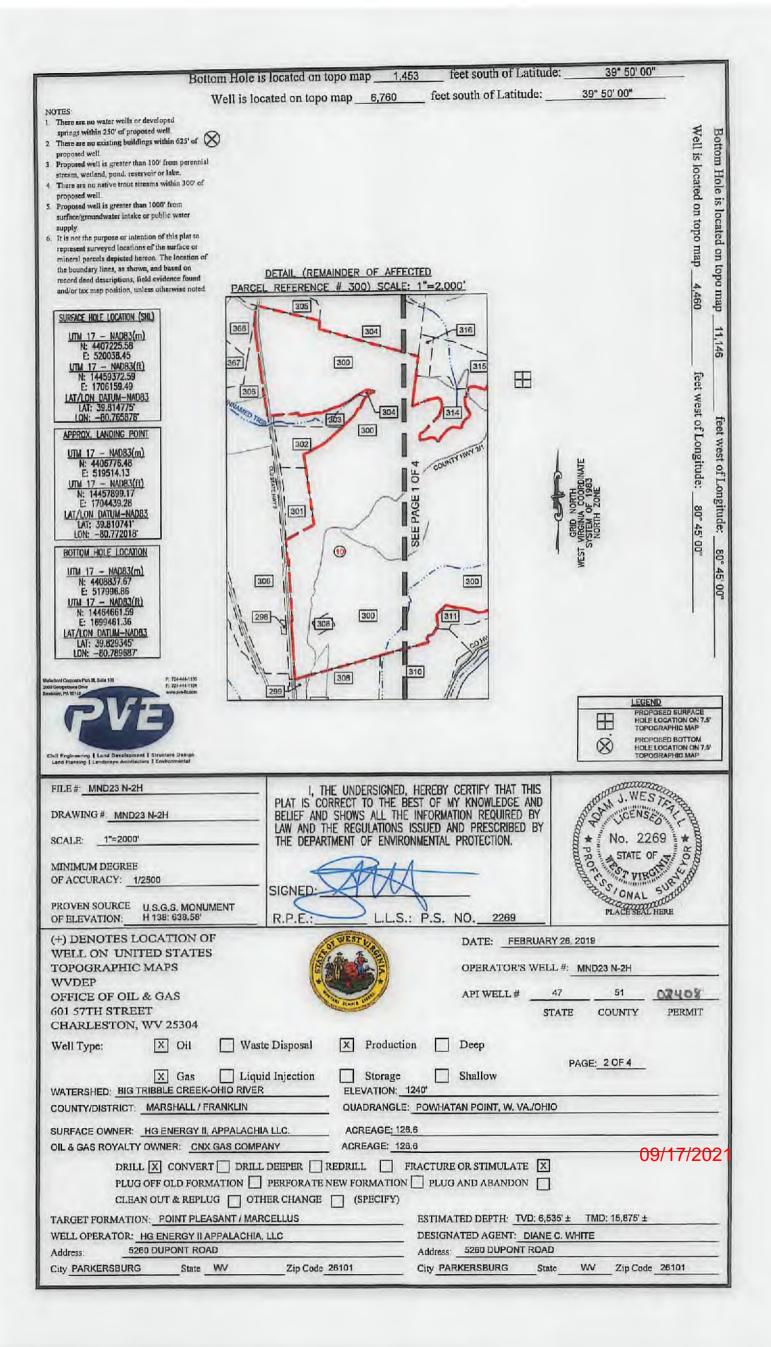


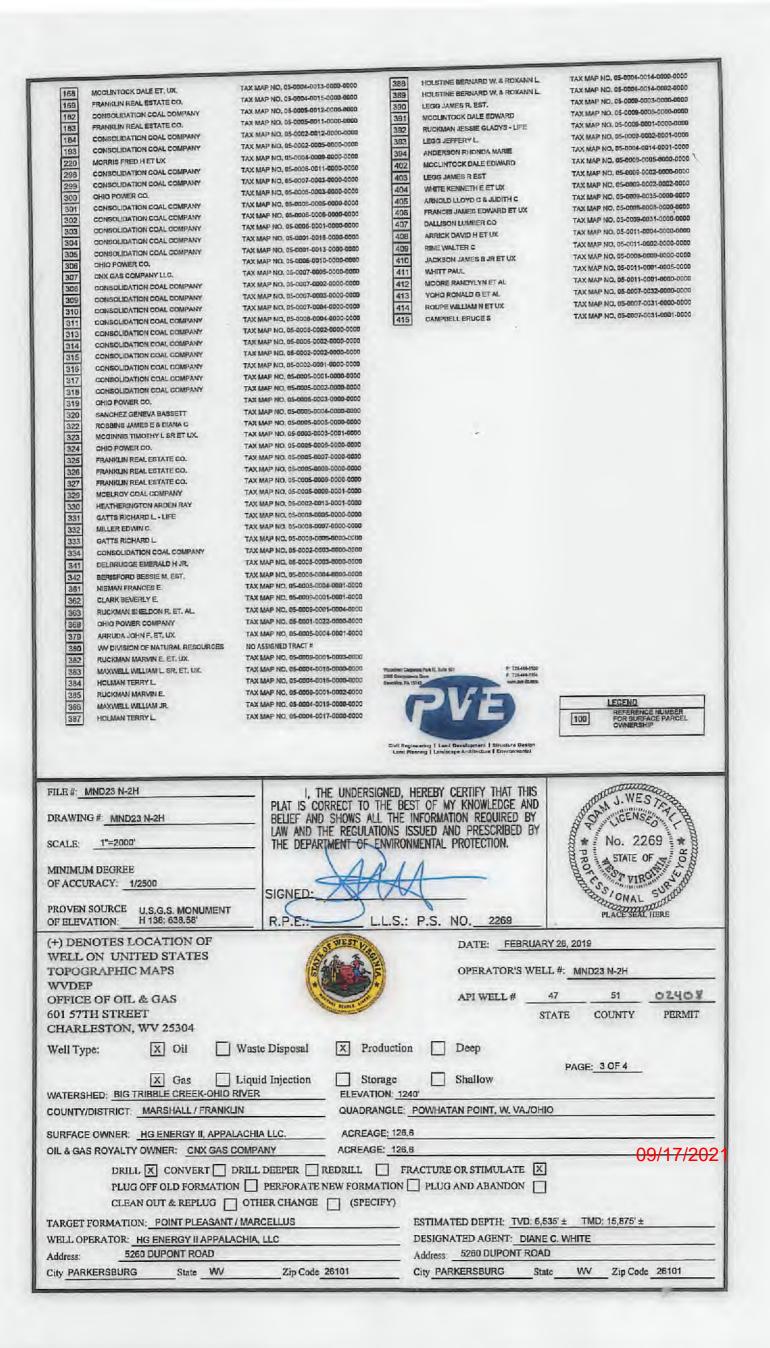


							Cynthia P. Hopkins, as	A TOTT OT A TAXA IN	
Plat objer	NP D	Origina) Lessor	Original Lessee	Sinface Parcel Gode			Trustee of the Cynthia P. Hopkins Revocable Trust	NOBLE ENERGY INC	
-	AF 0004 0014 0000 0000	MILLER CHARLES W	CHEVRON USA INC	388	-		Elizabeth A. Strusbaugh and James R. Strausbaugh	NOBLE ENERGY INC	
2	05-0004-0014-0000-0000	PARSONS PAUL ET UX	CHEVRON USA INC	500	-		Janet and John Blankenship	NOBLE ENERGY INC	
-		RUSSELL SHARDN LYN	CHEVRON USA INC				Jean C. Thomas	NOBLE ENERGY INC	-
-		HUFF TIMOTHY ET UX	CHEVRON USA INC				Mary E. Bassett	NOBLE ENERGY INC	
-		ARNOLD LLOYD C ET UX	CHEVRON USA INC		_		Robert B. and Violet Thomas	NOBLE ENERGY INC	
		CRONIN MARY JO	CHEVRON USA INC				Roger B. and Inken P. Rose	NOBLE ENERGY INC	
		KURPIL RICHARD ET UX	CHEVRON USA INC				Ruth Ann and Furman F. Wallace	NOBLE ENERGY INC	
		CLIFTON CLARA MAE	CHEVRON USA INC		1		Ruth E. Bassett Meadows	NOBLE ENERGY INC	
		EDWARDS GEORGE ET UX	CHEVRON USA INC				and O.W. Meadows Jr	HG ENERGY II	
		KYLE DONNA FAE	CHEVRON USA INC		1		NOBLE ENERGY INC	APPALACHIA, LLC	
		CONNER JUDITH MAY	CHEVRON USA INC		-		Geneva Bassett Sanchez	Chevron USA INC	
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC				Chevron USA INC.	HG ENERGY II APPALACHIA, LLC	
		AB RESOURCES LLC	NPAR LLC				AEP Generation Resources	All changes and the	
		NPARLLC	Chevron USA INC HG ENERGY II		0	05-0005-0003-0000-0000	Inc. and Kentucky Power	Noble Energy, Inc.	319
		Chevron USA INC	APPALACHIA, LLC		1.0		Company	HG ENERGY II	
	05-0009-0001-0000-0000,			392,		The second se	NOBLE ENERGY INC	APPALACHIA, LLC	
2	05-0009-0001-0001-0000, 05-0009-0001-0002-0000,	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	362, 385,	10	05-0006 0003 0000-0000	Consolidation Coal Company	CNX Gas Company,	300
-	05-0009-0001-0003-0000, 05-0009-0001-0004-0000	0.000		382. 363	-	Carl Scattering of the board	CNX Gas Company, LLC	Noble Energy, Inc.	
		NOBLE ENERGY INC	HG ENERGY II		-	-		HG ENERGY II	
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D	05-0009-0002-0001-0000	Jeffrey L. Legg	Noble Energy, Inc.	393		05-0009-0002-0000-0000	James Redman Legg II ET AL	Noble Energy, Inc.	318
		Noble Energy, Inc.	CNX Gas Company, LLC	1	1.00	1.00	Noble Energy, Inc.	CNX Gas Company,	12221
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	1		HG ENERGY II		-			HG ENERGY II	
_		NOBLE ENERGY INC	APPALACHIA, LLC				NOBLE ENERGY INC.	APPALACHIA, LLC	
)	05-0009-0002-0000-0000	James Redman Legg II ET AL	Noble Energy, Inc.	403	-				
		Noble Energy, Inc.	CNX Gas Company, LLC						
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-		NOBLE ENERGY INC.	HG ENERGY II						
			APPALACHIA, LLC						
5	05-0008-0007-0000-0000	Edwin C. Miller and Kiumberly Ann Miller	Noble Energy, Inc.	332					
		Noble Energy, Inc.	ENX Gas Company,						
			LLC	-					
		CNX Gas Company, LLC	Noble Energy, Inc.						
		Noble Energy, Inc.	HG ENERGY II APPALACHIA, LLC						
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		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC						
5	05-0008-0005-0000-0000	Richard J. Gatts	Chevron USA INC	331					
-			HG ENERGY II				P 724444-1109		
		Chevron USA INC	APPALACHIA, LLC		2000 Georgebown Semickley, PA 18		www.pre-fit.com		
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC						
-	A NAME OF A DESCRIPTION OF	Barbara Kay Ewing and						LECEND	_
	05-0005-0004-0000-0000	Wilber E. Ewing	NOBLE ENERGY INC	320				LEGEND	
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		and huby b. bassen			Land Pla	erning Landscape Architectury Sm	anonmental		_
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-				salkee			Cynthia P. Hookins, as Trustee of the Cynthia P.	NOBLE ENERGY INC	
es s () Noma	(e)=			Carto	-		Hopkins Revocable Trust Elizabeth A. Strusbaugh and	NOBLE ENERGY INC	-
		MILLER CHARLES W	CHEVRON USA INC	388			James R. Strausbaugh	toni se interestina a	
0	05-0004-0014-0000-0000	PARSONS PAUL ET UX	CHEVRON USA INC				Janet and John Blankenship	NOBLE ENERGY INC	
-		RUSSELL SHARON LYN	CHEVBON USA INC				Jean C. Thomas	NOBLE ENERGY INC	
-	1	HUFF TIMOTHY ET UX	CHEVRON USA INC		-		Mary E. Bassett Robert B. and Violet Thomas	NOBLE ENERGY INC	
		ARNOLD LLOYD C ET UX	CHEVRON USA INC				Roger B, and Inken P. Rose	NOBLE ENERGY INC	
		CRONIN MARY JO	CHEVRON USA INC		-		Ruth Ann and Furman F.	NOBLE ENERGY INC	
		KURPIL RICHARD ET UX	CHEVRON USA INC	-			Wallace	NOBLE ENCLUST INC	-
-		CLIFTON CLARA MAE	CHEVRON USA INC				Ruth E. Bassett Meadows and D.W. Meadows Jr	NOBLE ENERGY INC	
		EDWARDS GEORGE ET UX	CHEVRON USA INC	-	-			HG ENERGY II	
		KYLE DONNA FAE	CHEVRON USA INC				NOBLE ENERGY INC.	APPALACHIA, LLC	-
		CONNER JUDITH MAY	CHEVRON USA INC	-			Geneva Bassett Sanchez	Chevron USA INC	-
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC				Chevron USA INC	HG ENERGY II APPALACHIA, LLC	4
-		AB RESOURCES LLC	NPAR LLC		-		AEP Generation Resources		
		NPAR LLC	Chevron USA INC	-	1	05-0005-0003-0000-0000	Inc. and Kentucky Power Company	Noble Energy, Inc.	319
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC		-			HG ENERGY II	1
3	05-0009-0001-0000-0000, 05-0009-0001-0001-0000, 05-0009-0001-0002-0000, 05-0009-0001-0002-0000,	Jessi Gladys Ruckman Et Al	Noble Energy, Inc.	392, 362, 385, 382, 363	0	05-0005-0003-0000-0000	NOBLE ENERGY INC Consolidation Coal Company	APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc.	300
	05-0009-0001-0004-0000		HG ENERGY II		-		City Cas company, ceo	HG ENERGY II	-
		NOBLE ENERGY INC	APPALACHIA, LLC				NOBLE ENERGY INC	APPALACHIA, LLC	
1	05-0009-0002-0001-0000	Jeffrey L. Legg	Noble Energy, Inc.	393		05-0009-0002-0000-0000	James Redman Legg II ET AL	Nable Energy, Inc.	318
0		Noble Energy, Inc.	CNX Gas Company,				Noble Energy, Inc.	CNK Gas Company, LLC	
			LLC Noble Energy Inc	-	-		CNX Gas Company, LLC	Noble Energy, Inc.	-
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II					HG ENERGY II	
		NOBLE ENERGY INC	APPALACHIA, LLC				NOBLE ENERGY INC	APPALACHIA, LLC	
	05-0009-0002-0000-0000	James Redman Legg II ET AL	Noble Energy, Inc.	403	-				
~		Noble Energy, Inc.	CNX Gas Company,	1					
			LLC Noble Energy, Inc.	-					
	-	CNX Gas Company, LLC	HG ENERGY II	-					
		NOBLE ENERGY INC	APPALACHIA, LLC						
0	05-0008-0007-0000-0000	Edwin C. Miller and	Noble Energy, Inc.	332					
9	0.1100-000-0000-0000	Klumberly Ann Miller	CNX Gas Company,						
		Noble Energy, Inc.	LLC						
		CNX Gas Company, LLC	Noble Energy, Inc.						
-		Noble Energy, Inc.	HG ENERGY II						
			APPALACHIA, LLC	-					
6	NO ASSIGNED TRACT #	WV Division of Natural Resources	Noble Energy, Inc.	380	2				
-	-	NOBLE ENERGY INC.	HG ENERGY II		1				
		AUBLE ENERGY INC.	APPALACHIA, LLC						
0	05-0008-0005-0000-0000	Richard J. Gatts	Chevron USA INC	331			P 726464.1100		
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC		2000 Georgebru	neta Park SL Suite 101 In Drivo	P) 724-444-1128		
-			HG ENERGY II	-	Levitiery, PA 1		www.propeccom		
		NOBLE ENERGY INC	APPALACHIA, LLC	1	6				
۲	05-0005-0004-0000-0000	Barbara Kay Ewing and	NOBLE ENERGY INC	320	V			LEGEND	
0		Wilber E. Ewing Charles Howard Bassett JR		-			0	REFERENCE NUMBE MINERAL OWNERSH	ERFOR
		and Ruby D. Bassett	NOBLE ENERGY INC		Civil Engli	neing Land Development Strue ming Landscape Architecture Em	cture Dasign	MINERAL OWNERSP	tilb.
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Well	Туре:] Oil 🗌 Wast	e Disposal	X Pr	oduction	Deep	PAGE:	4 OF 4	
		E CREEK-OHIO RIVER	id Injection	ELEVAT	orage TON: <u>124</u> ANGLE:	Shallow CONTRACTOR			
SURF	ACE OWNER: HG E	NERGY II, APPALACHI		ACREA	GE <u>: 126.6</u> GE: 126.6			09/17 /	/202
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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 09/17/2021 AUG 1 2 2021

1407.5

HG Energy II Appalachia, LLC MND23 N-2H Lease Chains

HG Plat Number	MPID	Original Lessor	Original Lessee	Royally Not less than	Book	Page	
)	05-0004-0014-0000-0000	WILLER CHARLES W	CHEVRON USA INC	1/8	853	59	
		PARSONS PAUL ET UX	CHEVRON USA INC	Not less than 1/8	853	430	
		RUSSELL SHARON LYN	CHEVRON USA INC	Not less than	053	432	
		HUFF TIMOTHY ET UX	CHEVRON USA INC	1/8 Not less than	853	422	
				1/8 Not less than	846	47	
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	1/8	846	39	
		CRONIN MARY JO	CHEVRON USA INC	Not less than 1/8	846	43	
		KURPIL RICHARD ET UX	CHEVRON USA INC	Not less than			
		CLIFTON CLARA MAE	CHEVRON USA INC	1/8 Not less than	863	594	
				1/8 Not less than	853	426	
		EDWARDS GEORGE ET UX	CHEVRON USA INC	1/8	853	418	
		KYLE DONNA FAE	CHEVRON USA INC	Not less than 1/8	853	449	
		CONNER JUDITH MAY	CHEVRON USA INC	Not less than			
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	1/8 Not less than	853	445	
				1/8	695 25	629 484	
		AB RESOURCES LLC NPAR LLC	NPAR LLC Chevron USA INC		25 756	332	
			HG ENERGY II APPALACHIA, LLC		41	154	
	05-0009-0001-0000-0000,	Chevron USA INC	Arrabachia, acc				
	05-0009-0001-0001-0000,						
	05-0009-0001-0002-0000, 05-0009-0001-0003-0000,			Not less than			
2)	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	N	39	1	
3)	05-0009-0002-0001-0000	Jeffrey L. Legg	HG ENERGY II APPALACHIA, LLC	Not less than 1/8	1041	316	
			HG ENERGY II	Not less than			
1)	05-0009-0002-0000-0000	James Redman Legg II ET AL	APPALACHIA, LLC	1/8 Not less than	1041	313	
5)	05-0008-0007-0000-0000	Edwin C. Miller and Kiumberly Ann Miller	TH Exploration, LLC	Not less than 1/8	957	257	
		TH Exploration, LLC	HG ENERGY II APPALACHIA, LLC		44	63	
				Not less than			
5)	No tract # assigned	WV Division of Natural Resources	Noble Energy, Inc. HG ENERGY II	1/8	865	558	
		NOBLE ENERGY INC	APPALACHIA, LLC	BL-A P	39	1	
)	05-0008-0005-0000-0000	Richard J. Gatts	Chevron USA INC	Not less than 1/8	899	479	
			HG ENERGY II	Not less than	44	Ì	
		Chevron USA INC	APPALACHIA, LLC HG ENERGY II	1/8	41	154	
		NOBLE ENERGY INC	APPALACHIA, LLC	Fee Not less than	39	1	
3)	05-0005-0004-0000-0000	Barbara Kay Ewing and Wilber E. Ewing	NOBLE ENERGY INC	1/8	842	34	
		Charles Howard Bassett JR and Ruby D. Bassett	NOBLE ENERGY INC	Not less than 1/8	842	1	
		Cynthia P. Hopkins, as Trustee of the Cynthia		Not less than			
		P. Hopkins Revocable Trust Elizabeth A. Strusbaugh and James R.	NOBLE ENERGY INC	1/8 Not less than	841	366	
		Strausbaugh	NOBLE ENERGY INC	1/8	841	370	
		Janet and John Blankenship	NOBLE ENERGY INC	Not less than 1/8	841	368	
				Not less than	8/4		
		Jean C. Thomas	NOBLE ENERGY INC	1/8 Not less than	841	449	
		Mary E. Bassett	NOBLE ENERGY INC	1/8 Not less than	841	362	
		Robert B. and Violet Thomas	NOBLE ENERGY INC	1/8	842	28	
		Roger B. and Inken P. Rose	NOBLE ENERGY INC	Not less than 1/8	841	358	
		-		Not less than			
		Ruth Ann and Furman F. Wailace Ruth E. Bassett Meadows and O.W.	NOBLE ENERGY INC	1/8 Not less than	841	364	
		Meadows Jr	NOBLE ENERGY INC	1/8	842	38	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		39	1	
		Geneva Bassett Sanchez		Not less than	014		
			Chevron USA INC HG ENERGY II	1/8 Not less than	814	399 F~	e menanda da
		Chevron USA INC AEP Generation Resources Inc. and Kentucky	APPALACHIA, LLC	1/8 Not less than	41	154	
))	05-0005-0003-0000-0000	Power Company	Noble Energy, Inc.	1/8	829	157	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		39	1	
10}	05-0006-0003-0000-0000	Consolidation Coal Company	CNX Gas Company, LLC	Fee	646	493	
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II	Fee	752	0	9/17/202
		NOBLE ENERGY INC	APPALACHIA, LLC	Fee	39	1	
11)	05-0009-0002-0000-0000	James Redman Legg II ET AL	Noble Energy, Inc.	Not less than 1/8	879	580	
-		Noble Energy, Inc.	CNX Gas Company, LLC	-• -	36	395	
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II		37	169	RECEIVE

AUG 1 2 2021

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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

RE: Drilling Under Roads – MND23 N-2H (47-051-02230) 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 <u>dwhite@hgenergyllc.com</u> or 304-420-1119.

Very truly yours,

Diane white

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

AUG 1 2 2021



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 08/03/2021

API No. 47- 051	_ 02230
Operator's Well No	MND23 N-2H
Well Pad Name: M	IND23

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	520038.5
County:	Marshall	Northing:	4407225.6
District:	Franklin	Public Road Access:	Nixon Ridge Road (SLS 21/1)
Quadrangle:	Powhatan Point	Generally used farm name:	CONSOL
Watershed:	Big Tribble Creek - Ohio River		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	□ RECEIVED
□ 3. NOTICE OF INTENT TO DRILL or □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	
5. PUBLIC NOTICE	
6. NOTICE OF APPLICATION	

Required Attachments:

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

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Certification of Notice is hereby given:

THEREFORE, I Diane White ______, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A. I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	HG Energy II Appalachia, LLC			Address:	5260 Dupont Road	
By:	Diane White	Diane White	/		Parkersburg, WV 26101	
Its:	Agent			Facsimile:	304-863-3172	
Telephone:	304-420-1119			Email: scribed and swo	dwhite@hgenergyllc.com	
					vorn before me this 3rd day of August, 2021	

	Subscribed and sworn before me this 3rd day of August	., 2021
Notary Public, State of West Virginia Cory J Arnold 12905 Emerson Avenue Parkersburg, WV 26104 My commission expires February 15, 2023	My Commission Expires 2-15-2023	Notary Public

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 <u>depprivacyofficer@wv.gov</u>.

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WW-6A	
(5-12)	

API NO. 47- -

OPERATOR WELL NO. MND23 N-1H thra N-6H Well Pad Name: MND23

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 07/30/2021 Date Permit Application Filed: 08/06/2021

Notice of:

H.	PERMIT FOR ANY	CERTIFICATE
	WELL WORK	CONSTRUCTIO

CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE,	
Name: HG Energy II Appalachia, LLC	Name: Murray Energy Corporation	
Address: 5260 Dupont Road	Address: 46226 National Road	
Parkersburg, WV 26101	St Clairsville, OH 43950	
Name: Address:	COAL OPERATOR	
	Name:	
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:	
Name: HG Energy II Appelachia, LLC	- the standard standards	
Address: 5250 Dupont Road	□ WATER PURVEYOR(s)	
Parkersburg, WV 26101	Name:	
Name:Address:	Address:	RECEIVED Office of Oil and Gas
SURFACE OWNER(s) (Impoundments/Pits)	OPERATOR OF ANY NATURAL GAS STO FIELD	RAGEUG 1 2 2021
Name:	Name:	W/V Deserve
Address:	Address:	WV Department of Environmental Protection
	*Please attach additional forms if necessary	

WW-6A (5-12)

Notice is hereby given:

API NO. 47- 051 02408 OPERATOR WELL NO. MND23 N-TH INDU M-BH Well Pad Name: MND23

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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 bundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No wellpad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such

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factors, if necessary.

Written Comment:

API NO. 47-051 - 02408 OPERATOR WELL NO. MND23 N-1H that N-5H Well Pad Name: MND23

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 the another the rules promulgated hereunder, which time may not be unreasonable.

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WW-6A (5-12)

API NO. 47- 0	51.0	2408
OPERATOR WE		
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:	304-420-1119	Parkersburg, WV 26101	
Email:	dwhite@hgenergyllc.com	Facsimile: 304-863-2172	

Oil and Gas Privacy Notice:

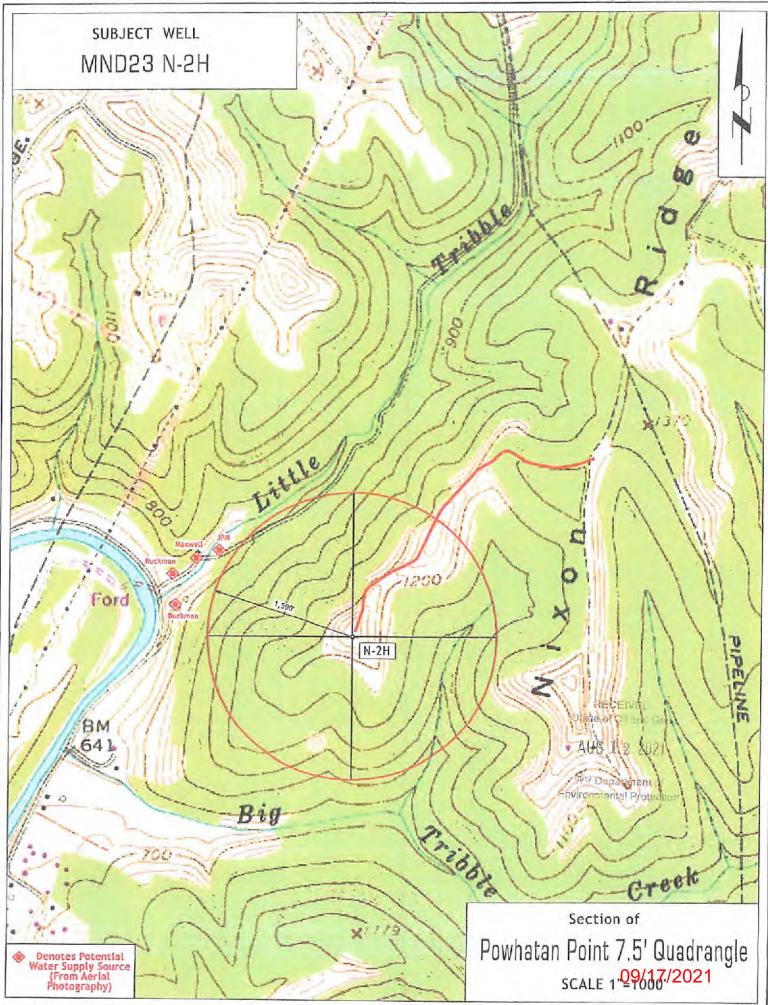
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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 <u>depprivacyofficer@wv.gov</u>.

OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A, BOARDMAN 5301 13th Ave Vienna, WV 26105	Subscribed and sworn before me this day of	 Notary Public
My Commission Expires July 31, 2022	My Commission Expires 7/31/2022	

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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 Appalaonia, 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:

	West Virginia	LITMANIAD 02	Easting:	520038.5
	Marshall 🖌	UTM NAD 83	Northing:	4407225.6
	Franklin	Public Road Ace	cess:	Nixon Ridge Road (SLS 21/1)
gle:	Powhatan Point	Generally used t	farm name:	CONSOL
ed:	Little Tribble Creek 4		\bigcap	00
Eric (Grayson, VP, HG Energy II Appalachia, LLC	Signature:	Lo	Jeane
5260	Dupont Road		C	
Parke	ersburg, WV 26101	Date: 07/30/	2021	
	d: Eric (5260	Marshall Franklin gle: Powhatan Point d: Little Tribble Creek f Eric Grayson, VP, HG Energy II Appalachia, LLC	Marshall UTM NAD 83 Franklin Public Road Accord gle: Powhatan Point Generally used to d: Little Tribble Creek Generally used to Eric Grayson, VP, HG Energy II Appalachia, LLC Signature: 5260 Dupont Road Signature:	Marshall Franklin Northing: Franklin Public Road Access: Generally used farm name: d: Little Tribble Creek Generally used farm name: Eric Grayson, VP, HG Energy II Appalachia, LLC Signature: Signature:

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

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 07/29/2021 Date Permit Application Filed: 08/05/2021

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

E	CERTIFIED MAIL	HAND
	RETURN RECEIPT REOUESTED	DELIV

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

VERY

Notice is hereby provided to the SURFACE OWNER(s) ** Owner not noticed as HG is also the Operator (at the address listed in the records of the sheriff at the time of notice):

Name:	
Address:	
C. Martin C. Mar	

Notice is hereby given:

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

State:	West Virginia	Easting:	520037 3
County:	Marshall	UTM NAD 83 Northing:	4407221.2 -
District:	Franklin	Public Road Access:	Nixon Ridge Road (SLS 21/1)
Quadrangle:	Powhatan Pcint 🖌	Generally used farm name:	CONSOL
Watershed:	Little Tribble Creek		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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.

 Well Operator:
 HG Energy II Appalachia, LLC
 Address:
 5280 Dupont Read

 Telephone:
 304-420-1119
 AUG I 2 2021

 Email:
 dwhite@hgenergyllc.com
 Facsimile:

 304-863-3172
 WV Department of

Environmental Protection

Oil and Gas Privacy Notice:

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



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-2H 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,

Dary K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

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WV Department of Environmental Protection

Cc: Diane White HG Energy II, LLC CH, OM, D-6 File



List of Frac Additives by Chemical Name and CAS

Chemical Name	CAS #	Multiple CAS #'s
		C0551 12 2
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
·		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
BIO CLEAR 2000	winxture	10222-01-2
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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

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