

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

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

Re: Permit approval for MND11 N-3H 47-051-02405-00-00

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: MND11N-3H

Farm Name: HG ENERGY II APPALACHL

U.S. WELL NUMBER: 47-051-02405-00-00

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

API Number:	· <u></u>
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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.

4705102405

API NO. 47
OPERATOR WELL NO. MND11 N-3H

Well Pad Name: MND11

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

1) Well Operator: HG Energy I	I Appalachia,	49451	9932	Marshall	Franklin	Powhatan Point
			tor ID	County	District	Quadrangle
2) Operator's Well Number: MN	D11 N-3H		Well Pa	d Name: MN	ND11	
3) Farm Name/Surface Owner:	CONSOL/HG Energy II App	palachia, LLE	Public Roa	ad Access: N	lixon Ridge	Road (SLS 21/1)
4) Elevation, current ground: 1	1252'	Elevation,	proposed	post-constru	iction: 1234	. /
5) Well Type (a) Gasx Other	Oil _			erground Sto		
(b)If Gas Shal	low x		Deep	_		_
Hori	zontal					
6) Existing Pad: Yes or No No				_		
 Proposed Target Formation(s), Marcellus, 6474' - 6540', 66' Thi 		icipated T	hickness a	Baus	Pressure(s):	8-2-21
8) Proposed Total Vertical Depth	: 6535'			0	, ,	
9) Formation at Total Vertical De	epth: Marcell	lus				
10) Proposed Total Measured De	pth: 15,294	•				
11) Proposed Horizontal Leg Len	ngth: 7,943'				Of	RECEIVED fice of Oil and Gan
12) Approximate Fresh Water Str	rata Depths:	538', 8	801', 898',	, 947'	Δ	AUG 1 2 202)
13) Method to Determine Fresh V	Water Depths:	Nearest	offset we	ells	V	/V Department of
14) Approximate Saltwater Depth	ns: None				Envir	onmental Protection
15) Approximate Coal Seam Dep	oths: 840' - 84	45'				
16) Approximate Depth to Possib	ole Void (coal r	nine, kars	t, other):	None antici	pated	
17) Does Proposed well location directly overlying or adjacent to a			es x		No	
(a) If Yes, provide Mine Info:	Name: Mai	rshall Cou	unty Mine			
	Depth: 890)' to seam	base			
	Seam: Pitts	sburgh #8	3			
	Owner: Mui	rray Ener	gy Corpo	ration		

WW-6B (04/15) API NO. 47-651 - 02405

OPERATOR WELL NO. MND11 N-3H
Well Pad Name: MND11

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94	40'	40' /	Drilled In
Fresh Water	13 3/8"	New	J-55	54.5	1150'	1150' /	CTS
Coal							
Intermediate	9 5/8"	New	J-55	40	3150'	3150'	CTS
Production	5 1/2"	New	P-110	23	15294'	15294' /	стѕ
Tubing							
Liners							

JeB 8/18/21

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

PACKERS

Kind:		:
Sizes:		
Depths Set:		

WW-6B
(10/14)

API NO. 47- 051 - 0240 OPERATOR WELL NO. MND11 N-3H Well Pad Name: MND11

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,535 feet. Drill horizontal leg to estimated 7,943' lateral length, 15,294' TMD. Hydraulically fracture and stimulate and be capable of producing from the Marcellus Formation. Should an unanticipated void be encountered in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water and chemicals. See attached list. Maximum pressure not expected to exceed 11,500 psi. 4

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.603 acres
- 10.00 acres 22) Area to be disturbed for well pad only, less access road (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

Office of Oil and Gar.

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.

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WV Department of Environmental Protection

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

Conductor - Drilled in via Dual Rotary (no annular space) Surface Casing - "15.6 ppg PNE-1 + 3% bwoc CaCl 40% ExcessYield =1.20 / CTS Intermediate Casing - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS

Production Casing - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020 ExcessLead Yield=1.19Tail Yield=1.94CTS"

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 prior to pumping cement. Production Casing - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

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

	Material Type		CAS # Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8 1309-48-4
		strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	0.1-1	14808-60-7
mium NE-1	Portland Cement				
		Commonly called gel, it is	Francisco Control	%	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.			
tonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		of strength development			
um Chloride	Accelerator	of strength development			
	4.17.17.17.17.17.1				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as a lost circulation material.	No hazardous ingredient		
Flake	Lost Circulation	A series and a series in the series			
		ena appropria altri de conde			
		FP-13L is a clear liquid organic phosphate			
		antifoaming agent used in			
		cementing operations. It	To the Automotive Control of the Con		
		is very effective	Ingredient name	%	CAS number
		minimizing air	Tributyl phosphate	90 - 100	126-73-8
		entrapment and preventing foaming			
		tendencies of latex			
1.0	41.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	systems.			
13L	Foam Preventer				
		med in the contract	Ingredient name	%	CAS number
ulated Sugar	Retarder	Used to retard cement returns at surface.	Sucrose	90 - 100	57-50-1
names a sugar	navarust	A proprietary product			
		that provides expansive			
		properties and improves		The state of the s	12,
		bonding at low to moderate	Ingredient name	%	CAS number
		temperatures.	Calcium magnesium oxide	90 - 100 REGE	37247-91-9
1		Toron and the second		Office of O	il and Gae
		Multi-purpose polymer			1988
		- A Mad			
		additive used to control free fluid, fluid loss.	Ingredient name		O CAS number
		additive used to control free fluid, fluid loss, rheology, and gas	Ingredient name No hazardous ingredient	%AUG 1	2 2021 number
A 170	Gas Migration	free fluid, fluid loss,			4 2021
A 170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.		WV Denas	7 2021
A 170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan,			7 2021
A 170	Gas Migration	free fluid, fluid loss, rheology, and gas migration.		WV Denas	7 2021
A 170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be	No hazardous ingredient	WV Depar Environmental	tment of
A 170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create		WV Denas	7 2021
A 170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Fozzolan can be used to create lightweight cement	No hazardous ingredient Ingredient name	WV Depar Environmental	trient of Protection
170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2)	WV Depar Environmental	tment of Protection CAS number 14808-60-7
A 170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion.	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2)	WV Depar Environmental	tment of Protection CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2)	WV Depar Environmental	tment of Protection CAS number 14808-60-7
	Gas Migration Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion.	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2)	WV Depar Environmental	tment of Protection CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2)	WV Depar Environmental	tment of Protection CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2)	WV Depar Environmental	tment of Protection CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2) Calcium oxide	WV Depar Environmental	CAS number 14808-80-7 1305-78-8
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	WV Depar Environmental	CAS number 14808-80-7 1305-78-8
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide	WV Depar Environmental	CAS number 14808-80-7 1305-78-8
	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt	WV Depar Environmental	CAS number 14808-80-7 1305-78-8 CAS number Trade secret.
	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiQ2) Calcium oxide Ingredient name Organic acid salt Ingredient name	WV Depar Environmental % 5 - 10 1 - 5	CAS number 14808-80-7 1305-78-8 CAS number Trade secret.
A 170 (Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanol Propretary surfactant	WV Depar Environmental % 5 - 10 1 - 5	CAS number 14808-80-7 1305-78-8 CAS number Trade secret.
(Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanel	WV Depar Environmental % 5 - 10 1 - 5	CAS number 14808-80-7 1305-78-8 CAS number Trade secret.



MND11 N-3H

		5	NERGY				1000		Marshall	County, WV	
						MNI	011 N-3H SH	IL		14460248.73N 1706992.52E	
Ground Elevation 1234' (RKB) 25'					MN	D11 N-3H L	P		14460983.11N 1708688.16E		
Azı	n		323.	643°		MNI	011 N-3H BH	łL .		14467380.16N 1703979.2E	
WELLBORE	DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
C		20"	20° - 94# J-55	Conductor	C	40	AIR	Drilled in via Dual Rotary (no annular space) "sanded in"	NIA	Once at casing setting depth, ensure hole is clean at TD	Conductor casing = 0.438 wall thickness Burst=2110 psi
	X			Fresh Water	538', 80"	898', 947'				- 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12	Surface casing = 0.380" wall thickness Burst=2730 psi
			13-3/8" 54.5#	Surface Casing	0	1150		15.6 ppg Class A Neal 94#/sk	Bow Springs (over collers) on first 2 joints	Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimum of 1	
	×	17.5"	J-55 BTC	Coal(s)	911	'-916'	AIR		then every third joint to 100' from surface	hole volume, plus 30 obls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement	
×	X			Big Lime / Big Injun	2165 / 2269	2258 / 2300	200	15.6 ppg Class A 94#/sk	Bow Springs (over collars) on first 12	Circulate & condition @ TD w/ Air. RIH w/ casing	Intermediate casing = 0.395° well thickness Burst=3950 psi
			9-5/8" 40#	Pocono	2474					& fill w/ Fresh Water. Circulate a minimum of 1	
		12.25"	J-55 BTC	5th Sand	2635		AIR	1% Calcium BWOC - 40% Excess Yield=1.2 / CTS	joints, then every third joint to 100' from		
X	×			Gordon	3047			Yield=1.2 / C15	surface		
				Intermediate Casing	0	3150					
×	×	8,75" Vertical					AIR and/or 9.0ppg SOBM		Run 1 spiral centralizer every 5 joints from the top of the curve to surface.		
				Rhinestreet	5956	6248					
				Cashaqua	6248	6312		Class A 14.8 ppg Yield 134	11	Once on bottom/TD with casing, circulate at max	Production casing = 0.38
×	×	8.75" / 8.5"	5-1/2" 20#	Middlesex	6312	6335	Air then	D255 - 0.4% BWOB Fluid Loss	N	allowable pump rate for at least 2x bottoms up, or	wall thickness Burst=12840 psi Note:Actual centralizer
		Curve	P-110 HP	West River	5335	6402	11.5ppg-	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	
			SDCHTQ	Burkett :	8402	6420	12.5ppg SOBM	D208 - 0.05% BWCB Viscosifier	Run 1 spiral centralizer every 3 joints from the	prior to pumping cement	schedules may be chang due to hole conditions
				Tully	3 8426	6449		10% Excess	1st 5.5" long joint to the		100000000000000000000000000000000000000
				Hamilton	6449	6484			top of the curve.		
			-	Marcellus	5484	6540	Tropices in				
		8.5" Lateral		LP TMD / TVD	15298	6535	11.5ppg- 12.5ppg SOBM				
X	X			Onendaga C							
			X	X		1					
	LP @	6535' TVD /		9		emented Long String				+/-7946* ft Lateral	TD @ +/-6535' TVD +/-15293' MD

Operator's Well No. MND11 N-3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) Short Creek - Ohio River	Quadrangle Powhatan Point 7.5'
Do you anticipate using more than 5,000 bbls of water to co	omplete the proposed well work? Yes V No
Will a pit be used? Yes No V	
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	ц.
Land Application	
Underground Injection (UIC Per	
Reuse (at API Number TBD - Atra	
Off Site Disposal (Supply form V	ww-9 for disposal location)
Will closed been queton be used? If as describe. Yes cutions	and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
	zontal)? Air, freshwater, oil based, etc. Vertical - Air, WBM, SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? Water, Soap, KCI, I	Barite, Base Oil, Wetting Agents Office of Oil and Gas
Drill cuttings disposal method? Leave in pit, landfill, remove	ved offsite, etc. Approved Landfill AUG 1 2 2021
-If left in pit and plan to solidify what medium will	I be used? (cement, lime, sawdust) NA WV Dapartment of
-Landfill or offsite name/permit number? See Attac	
Permittee shall provide written notice to the Office of Oil an West Virginia solid waste facility. The notice shall be provid where it was properly disposed.	nd Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have personapplication form and all attachments thereto and that, but	Marie and the second se
Company Official (Typed Name) Diane White	
Company Official Title Agent	
Company Official Title	
Subscribed and sworn before me this 27th day of	
My commission expires 7/31/2022	Notary Public OFFICIAL SEAL STATE OF WEST VIRGIN NOTARY PUBLIC CASSIDY A. BOARDM

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

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

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

Disposal Locations:

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

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

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

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

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

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED
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09/17/2021

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Clairsville, OH 48950

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

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 830-536-6825

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

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

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

Solo Construction P.O. Box 544 St. Mary's, WV 26170 Office of Oil and Gas AUG 1 2 2021

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Equipment Transport 1 Tyler Court Carllsle, PA 17015

WV_Department of Environmental Protection

Myers Well Service, 2001 Balipark Court Export, PA 15632

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

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

Groselle (5WIW #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 740-786-6495

09/17/2021

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

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

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

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor 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 keya UIC Barnesville 1 & 2 CNX Gas Con...any, LLC 1000 Consol Energy Driva Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

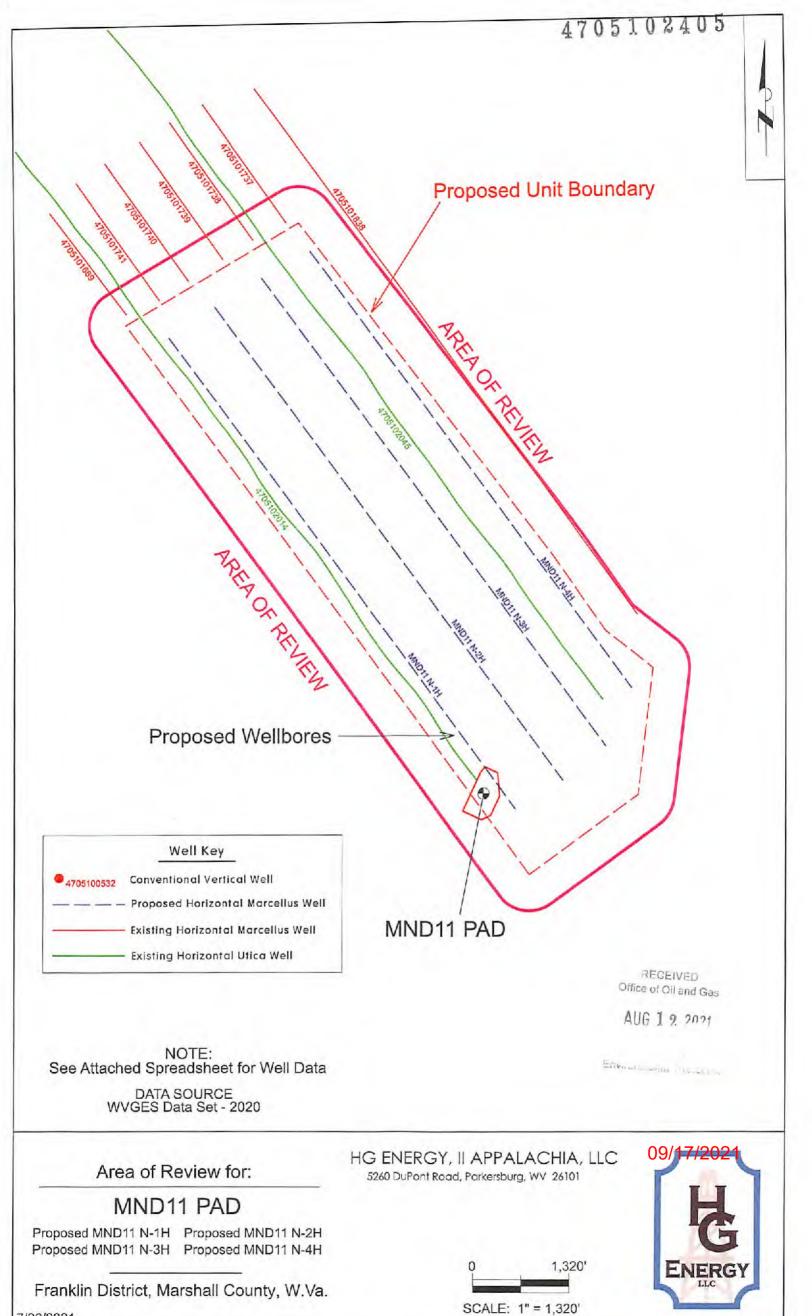
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

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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7/26/2021

				EXISTING WELLS L	OCATED WITHIN THE A	REA OF REVIEW FOR:				
	MND11 PAD AND PROPOSED WELLS N-1H, N-2H, N-3H & N-4H									
CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4705101669	MARSHALL	MND3 FHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,299	ACTIVE	39.850397	-80.792052
2	4705101737	MARSHALL	MND3 AHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,288	ACTIVE	39.850553	-80.791912
3	4705101738	MARSHALL	MND3 BHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,261	ACTIVE	39.850519	-80.791942
4	4705101739	MARSHALL	MND3 CHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,282	ACTIVE	39.850485	-80.791973
5	4705101740	MARSHALL	MND3 DHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,276	ACTIVE	39.850451	-80.792003

MARCELLUS SHALE

MARCELLUS SHALE

UTICA SHALE

UTICA SHALE

6,271

6,175

10,700

10,700

Horizontal Gas Production

Horizontal Gas Production

Horizontal Gas Production

Horizontal Gas Production

ACTIVE

ACTIVE

DRILLED - NOT COMPLETED

DRILLED - NOT COMPLETED

HG ENERGY II APPALACHIA

HG ENERGY II APPALACHIA

HG ENERGY II APPALACHIA

HG ENERGY II APPALACHIA

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

MARSHALL

MARSHALL

MARSHALL

MARSHALL

6

8

9

4705101741

4705101838

4705102014

4705102045

MND3 EHS

MND1 FHS

MND20 DU

MND20 EU

RECEIVED Office of Oil and Gas

39.850417

39.849794

39.851731

39.851774

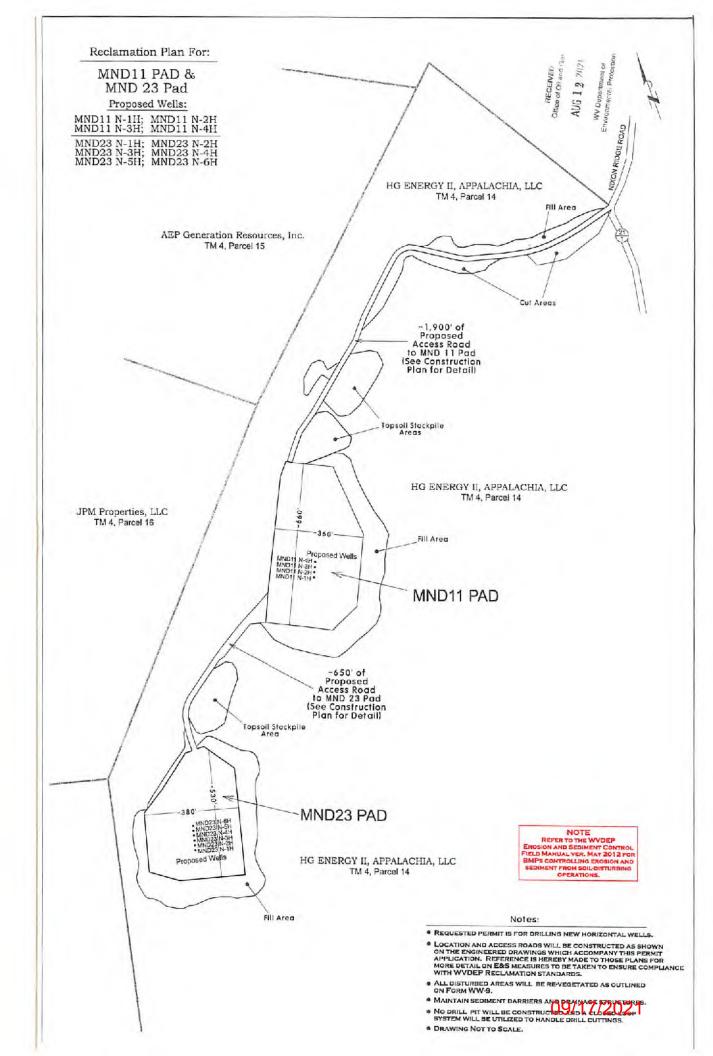
-80.792034

-80.774299

-80.802995

-80.803054

HG Energy II Appala	achia, LLC		
Proposed Revegetation Treatm	nent: Acres Disturbed 17.603 a	cres Prevegetation pl	H
Lime	3 Tons/acre or to correct to pH	6.5	
Fertilizer type 10-	20-20		
Fertilizer amount	500 lbs	acre/	
Mulch_ Hay	2 Tons/ac	rre	
	Seed	Mixtures	
Ten	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Photocopied section of involve	ed 7.5' topographic sheet.		RECEIVED Office of Oil and
Plan Approved by: Rau	y Stilly		AUG 1 2 20
Comments: Pre-seed/r	mulch as soon as rea	sonably possible per	regulation WV Department
Upgrade E&S if ne	eeded per WV DEP E	&S manual.	Environmental Prote
Title: Oil & Gas Insp	ector	Date: 8-2-2	l'
Field Reviewed? (/ Nas) No	



HG Energy II Appalachia, LLC

Site Safety Plan

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

July 2021: Version 1

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For Submission to

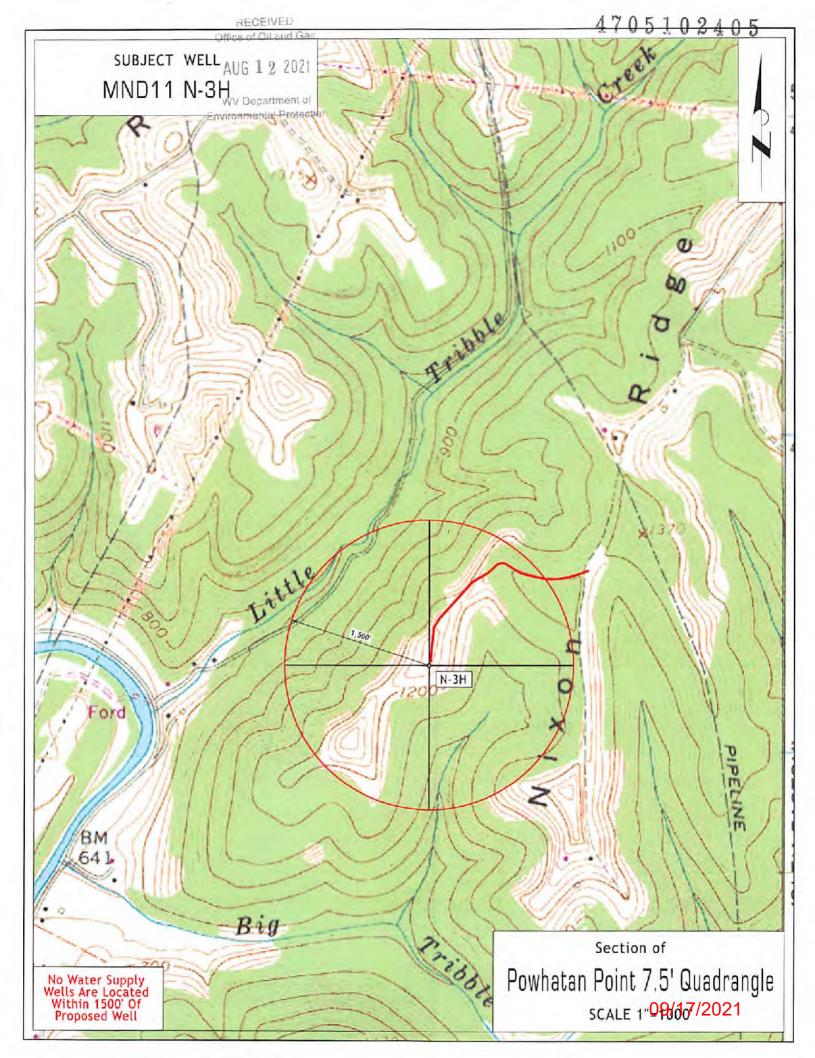
West Virginia Department of Environmental Protection,

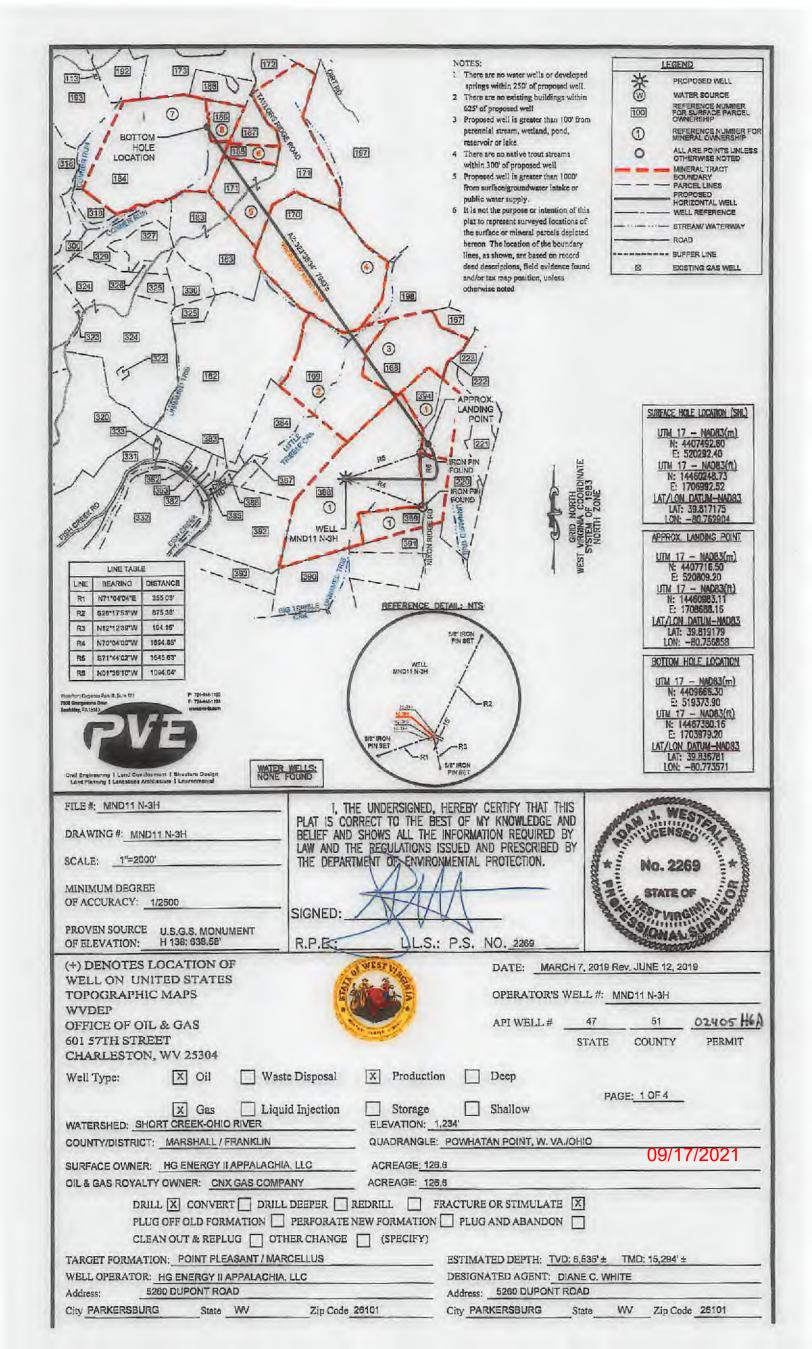
Office of Oil and Gas

HG Energy II Appalachia, LLC.

5260 Dupont Road

Parkersburg, WV 26101





	Bottom Hole is located on top		feet south of Latitud		_
There are no water wells or developed springs within 250' of proposed well	Well is located on topo n	nap <u>5,887</u> fee	et south of Latitude:	· 39° 50' 00"	
There are no existing buildings within 625' of proposed well					
Proposed well is greater than 100' from perennial stream, wetland, pond,					Well is located on topo map
reservoir or lake. There are no native trout streams					55
within 300' of proposed well Proposed well is greater than 1000'					ocat
from surface/groundwater intake or public water supply					ed c
It is not the purpose or intention of this plat to represent surveyed locations of					in to
the surface or mineral parcels depicted hereon. The location of the boundary					po
lines, as shown, are based on record dead descriptions, field evidence found					map
and/or tax map position, unless otherwise noted.				Λ.	6.5
					3,628
UTM 17 - NADB3(m)					
N: 4407492.60 E: 520292.40				田	
UTM 17 - NADB3(fi)					1
N: 14460248.73 E: 1706992.52					1931
LAT/LON DATUM-NAD83 LAT: 39,817175.			100		W.S.
APPROX, LANDING POINT					10.2
UTM 17 - NAD83(m)					teet west of roughtness
N: 4407716.50 E: 520809.20				*	Bill
UTM 17 - MADE3(ft) N: 14460983.11					de.
E: 1706688.16 LAT/LON DATUM—NAD83					0
LAT: 39.819179 LON: -80.756858	*				4
BOTTOM HOLE LOCATION					45 90
UTM 17 - NAD83(m)					
N: 4409666.30 E: 519373.90					1
UTM 17 - NAD83(ft) N: 14467380.16					
E: 1703979.20 LAT/LON DATUM—NADR3					-
LAT: 39.836781					
LON: -80.773571					
LON: -80.773571	2	181			
LON: -80.773571	DE	181	9		
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CONSOLIDATION COAL COMPANY, ET. AL. TAX MAP NO 05-0005-0011-0000-0000 TAX MAP NO. 05-0002-0013-0001-0000
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FOTTS JAMES D.ET. UX.
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CONSOLIDATION COAL COMPANY
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CLARK BEVERLY E.
RUCKMAN SHELDON R. ET. AL.
RUCKMAN MARVIN E. ET. UX.
MAXWELL WILLIAM L. SR. ET. UX.
HOLMAN TERRY L. RUCKMAN MARVIN E MAXWELL WILLIAM JR. MAXWELL WILLIAM JR.
HOLMAN TERRY L.
HOLSTINE BERNARD W. & ROXANN L.
HOLSTINE BERNARD W. & ROXANN L.
LEGG JAMES R. EST.
MCCLINTOCK DALE EDWARD
RUCKMAN JESSIE GLADYS - LIFE
LEGG JEFFERY L.
ANDERSON RHONDA MARIE TAX MAP NO. 05-0009-0002-0001-0000 TAX MAP NO. 05-0004-0014-0001-0000



LEGEND.

REFERENCE NUMBER
FOR SURFACE PARCEL
OWNERSHIP

DRAWING#: MND11 N-SH BELIE		No. 2269 STATE OF
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	OPERATOR'S WELL API WELL#	2019 Rev. JUNE 12, 2019 L#: MND11 N-3H 47 51 02.405 TATE COUNTY PERMIT
Well Type: X Oil Waste Dispo X Gas Liquid Inject WATERSHED: SHORT CREEK-OHIO RIVER COUNTY/DISTRICT: MARSHALL/FRANKLIN		PAGE: 3 OF 4
SURFACE OWNER: HIG ENERGY II APPALACHIA, LLC	ACREAGE: 126.6	09/17/2021
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY	ACREAGE: 126.6	
	☐ REDRILL ☐ FRACTURE OR STIMULATE [X] ATE NEW FORMATION ☐ PLUG AND ABANDON ☐	35'± TMD: 15,294'± C. WHITE
City PARKERSBURG State WV Zip	Code 26101 City PARKERSBURG Stat	

				7/30
1	05-0004-0014-0000-0000 05-0004-0014-0001-0000 05-0004-0014-0002-0000	MILLER CHARLES W	CHEVRON USA INC	388, 389, 394
		PARSONS PAUL ET UX	CHEVRON USA INC	
		RUSSELL SHARON LYN	CHEVRON USA INC	
		HUFF TIMOTHY ET UX	CHEVRON USA INC	
		ARNOLD LLOYD C ET	CHEVRON USA INC	
		CRONIN MARY JO	CHEVRON USA INC	
		KURPIL RICHARD ET	CHEVRON USA INC	
		CLIFTON CLARA MAE	CHEVRON USA INC	
		EDWARDS GEORGE ET UX	CHEVRON USA INC	
		KYLE DONNA PAE	CHEVRON USA INC	
		CONNER JUDITH MAY	CHEVRON USA INC	
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	
		AS RESOURCES LLC	NPAR LLC	
		NPARILLC	Chevron USA INC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
@	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc	169
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
3	05-0004-0013-0000-0000	MCCLINTOCK DALE ET UX	CHEVRON USA INC	168
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
(4)	05-0004-0001-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Nable Energy, Inc.	170
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
(3)	05-0002-0013-0005-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	171
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
6	05-0002-0013-0004-0000	Peggy 5. Hartley	CNX Gas Company, LLC and Noble Energy	185

		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑦ 05-0002-0012-0000-0000	WesBanco Trust & Investment Services, a Division of WesBanco, Inc Trustee of the John T Gallagher Scholarship Trust	NOBLE ENERGY INC	184	
		Consolidation Coal Company	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Nable Energy, Inc	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
B	05-0002-0011-0000-0000	WesBanco Trust & Investment Services, a Division of WesBanco, Inc. Irrustee of the John T. Gallagher Scholarship Trust	NOBLE ENERGY INC	186
		Consolidation Coal Company	CNX Gas Company, LLC	
		CNX Gas Company,	Noble Energy, Inc	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	

Address: 5260 DUPONT ROAD

City PARKERSBURG

LEGEND REFERENCE NUMBER FOR MINERAL OWNERSHIP

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. FILE #: MND11 N-3H DRAWING #: MND11 N-3H SCALE: 1"=2000" MINIMUM DEGREE OF ACCURACY: 1/2500 SIGNED: (+) DENOTES LOCATION OF

5260 DUPONT ROAD

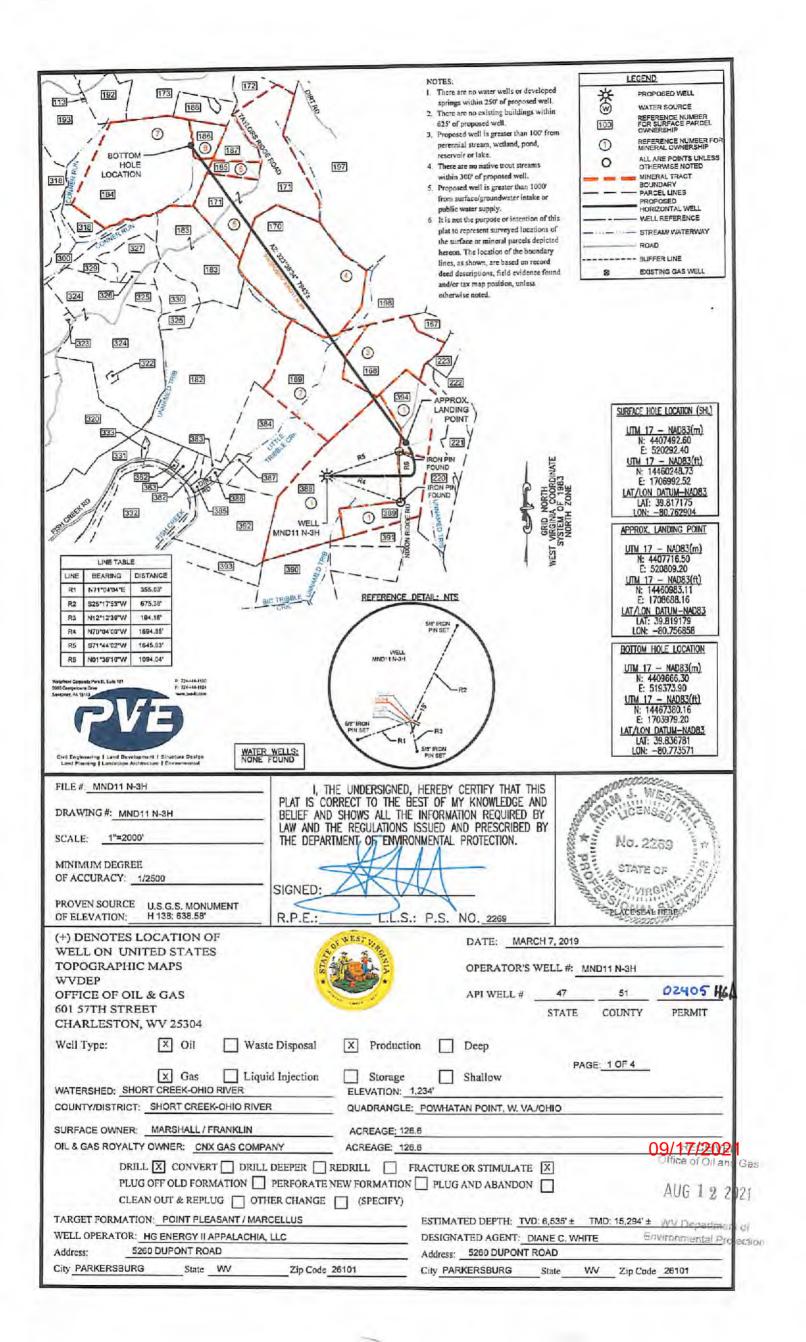
City PARKERSBURG



Zip Code 26101

PROVEN SOURCE U.S.G.S. MONUMENT H 138: 638,58' L.U.S.: P.S. NO. 2269 DATE: MARCH 7, 2019 Rev. JUNE 12, 2019 WELL ON UNITED STATES TOPOGRAPHIC MAPS OPERATOR'S WELL. #: MND11 N-3H WVDEP 47 OFFICE OF OIL & GAS API WELL# 51 02405 601 57TH STREET STATE COUNTY PERMIT CHARLESTON, WV 25304 X Oil X Production Well Type: Waste Disposal Deep PAGE: 4 OF 4 X Gas Liquid Injection Shallow Storage WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1,234' COUNTY/DISTRICT: SHORT CREEK-OHIO RIVER QUADRANGLE: POWHATAN POINT, W. VAJOHIO 09/17/2021 SURFACE OWNER: MARSHALL / FRANKLIN ACREAGE: 126.6 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6 DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± DESIGNATED AGENT: DIANE C. WHITE WELL OPERATOR: HG ENERGY II APPALACHIA, LLC

Zip Code 26101



11.45	tom Hole is located on topo r	nap5,899	feet south of Latitud		39° 50' 00"	
There are no water wells or developed springs within 250° of proposed well.	Well is located on topo map	14,315	feet south of Latitude:	39°	52' 30"	- 1
There are no existing buildings within 625' of proposed well.						
Proposed well is greater than 100' from perennial stream, wetland, pond,					2	Bottom Hole
reservoir or lake. There are no native trout streams					5	ië i
within 300' of proposed well. Proposed well is greater than 1000'						Hole
from surface/groundwater intake or public water supply.						Si S
It is not the purpose or intention of this						Bottom Hole is located on t
plat to represent surveyed locations of the surface or mineral partiels depicted					3	ted
hereon. The location of the boundary lines, as shown, are based on record					4	on t
deed descriptions, field evidence found and/or tax map position, unless						opo
otherwise noted.					3	is located on topo map
SURFACE HOLE LOCATION (SHL)						1
UTM 17 - NAD83(m) N: 4407492.60				\blacksquare		3,631
E: 520292.40 UTM 17 - NADB3(ft)					9	
N: 14460248.73 E: 1705992.52						feet west of Longitude:
LAT/LON DATUM-NAD83 LAT: 39.817175						wes
LON: -80.762904						fee
APPROX. LANDING POINT						Lon
UTM 17 - NA083(m) N: 4407716.50					0	feet west of Longitude: of Longitude: 80° 45
E: 520809.20 UTM 17 — NAD83(ff)						fLo de:
N: 14460983.11 E: 1708688.16						ngitt
LAT: 39.819179 LON: -80.756858						ide:
BOTTOM HOLE LOCATION						itude: 8 80° 45' 00"
LITM 17 - NADB3(m)						80° 45' 00"
N: 4409666.30 E: 519373.90						00
UTM 17 - NAD83(ft) N: 14467380.16						
E: 1703979.20 LAT/LON DATUM—NAD83						
LAT: 39.836781 LON: -80.773571						
						100
front Corporate Park II. Suite 101 Pt. 724-444-1100 Pt. 724-444-1104						
					PROPOSED SURFA	CE
		\otimes			HIGHE LOCATION O TOPOGRAPHIC MA	P
Il Engineering Land Development Structure Design					HOLE LOCATION O	N 7.5'
				200	OUGGER THE THE	
FILE#: MND11 N-3H	I, THE UN	NDERSIGNED, H	EREBY CERTIFY THAT THIS T OF MY KNOWLEDGE AND	00000	N. CENSEL ST.	
DRAWING #: MND11 N-3H	BELIEF AND SHO)WS ALL THE IN	NFORMATION REQUIRED BY	200	Cloures Sile	0000
CALE: 1"=2000"	LAW AND THE RI	EGULATIONS ISS TOE ENVIRONM	SUED AND PRESCRIBED BY MENTAL PROTECTION.	3×=	No. 2289	2000
	THE DEFINITION	1771	1	3 3	STATE OF _ SO	12
MINIMUM DEGREE OF ACCURACY: 1/2500		W/J	1	30	Drung To	in the
PROVEN SOURCE LISGS MON	SIGNED:	NA		50	TOWN STORY	
PROVEN SOURCE U.S.G.S. MON					DEACTOR PARTER	
OF ELEVATION: H 138: 638.58	R.P.E.:	_L.Z.S.:	P.S. NO. 2269		PENEDADAE TENS	
	R.P.E.:	L.Z.S.:	P.S. NO. 2269 DATE: MARCH	7, 2019	PLINE PROJECT HAND	
+) DENOTES LOCATION (WELL ON UNITED STATE	OF R.P.E.:	E.L.S.:	DATE: MARCH		A N. 2H	
(+) DENOTES LOCATION (WELL ON UNITED STATE TOPOGRAPHIC MAPS	OF R.P.E.:	ST SURGENIA		LL#: MND		
+) DENOTES LOCATION (WELL ON UNITED STATE TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS	OF R.P.E.:	E.C.S.:	DATE: MARCH OPERATOR'S WE API WELL#	LL#: MND	51 02405	W
CHARLESTON, H 138. 638.58' (+) DENOTES LOCATION (WELL ON UNITED STATE TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 501 57TH STREET CHARLESTON, WV 25304	OF R.P.E.:	L.L.S.:	DATE: MARCH OPERATOR'S WE API WELL#	LL#: MND		W
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+) DENOTES LOCATION OF WELL ON UNITED STATE TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS SOI 57TH STREET CHARLESTON, WV 25304 Well Type: X OIL X Gas WATERSHED: SHORT CREEK-OHL COUNTY/DISTRICT: SHORT CREEK-OHL COUNTY/DISTRICT: SHORT CREEK-OHL AGAS ROYALTY OWNER: CN DRILL X CONVE	Waste Disposal Liquid Injection O RIVER EK-OHIO RIVER O FRANKLIN IX GAS COMPANY R.P.E.:	Production Storage LEVATION: 1,23 UADRANGLE: F ACREAGE: 126.6 CREAGE: 126.8 KILL FRA	DATE: MARCH OPERATOR'S WE API WELL # Deep Shallow 34' POWHATAN POINT, W. VA./OF	A7 STATE PAGE:	51 02405 COUNTY PERM 2 0F 4 09/17	7/202
+) DENOTES LOCATION OF MELL ON UNITED STATE TOPOGRAPHIC MAPS WYDEP OFFICE OF OIL & GAS 101 57TH STREET CHARLESTON, WV 25304 Well Type: X Gas X Gas Gas	R.P.E.: OF SS Waste Disposal Liquid Injection O RIVER EK-OHIO RIVER O FRANKLIN AX GAS COMPANY AX GAS COMPANY AX GAS COMPANY RT DRILL DEEPER REDR RMATION PERFORATE NEW LUG OTHER CHANGE	Production Storage LEVATION: 1,23 UADRANGLE: F ACREAGE: 126.6 CREAGE: 126.8 KILL FRA	DATE: MARCH OPERATOR'S WE API WELL # Deep Shallow 34' POWHATAN POINT, W. VA./OF	A7 STATE PAGE:	51 02405 COUNTY PERM 2 0F 4 09/17 RE Offlice o	7/202
H) DENOTES LOCATION OF WELL ON UNITED STATE TOPOGRAPHIC MAPS WYDEP OFFICE OF OIL & GAS OIL 57TH STREET CHARLESTON, WV 25304 Well Type: X OIL X Gas WATERSHED: SHORT CREEK-OHL COUNTY/DISTRICT: SHORT CREEK-OHL & GAS ROYALTY OWNER: CM DRILL X CONVERLUG OFF OLD FOR CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC COUNTY PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC COUNTY PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC COUNTY PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC COUNTY PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & PLICE OF TOPOGRAPHIC CLEAN OUT & REPICARGET FORMATION: POINT PLICE OF TOPOGRAPHIC CLEAN OUT & PLICE O	R.P.E.: OF SS Waste Disposal Liquid Injection O RIVER EK-OHIO RIVER OF FRANKLIN IX GAS COMPANY RT DRILL DEEPER REDRATION PERFORATE NEW LUG OTHER CHANGE EASANT / MARCELLUS	Production Storage LEVATION: 1,23 UADRANGLE: F ACREAGE: 126.6 CREAGE: 126.6 RILL FRA FORMATION (SPECIFY)	DATE: MARCH OPERATOR'S WE API WELL# Deep Shallow 34' POWHATAN POINT, W. VA./OF ACTURE OR STIMULATE PLUG AND ABANDON ESTIMATED DEPTH: TVD: 6	A7 STATE PAGE:	51 02405 COUNTY PERM 2 0F 4 09/17	7/202
+) DENOTES LOCATION OF WELL ON UNITED STATE TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS SOIL 57TH STREET CHARLESTON, WV 25304 Well Type: X OIL X GAS WATERSHED: SHORT CREEK-OHL COUNTY/DISTRICT: SHORT CREEK-OHL X CONVERNACE OWNER: MARSHALL/OIL & GAS ROYALTY OWNER: CN DRILL X CONVERLUG OFF OLD FOR CLEAN OUT & REPORT CREEK ON THE COUNTY OF OLD FOR CLEAN OUT & REPORT CARGET FORMATION: POINT PLANT COUNTY OF THE CARGET FORMATION: HIGHERERY IN WELL OPERATOR: HIGHERERY IN WELL OPERAT	R.P.E.: OF SS Waste Disposal Liquid Injection O RIVER EK-OHIO RIVER OF FRANKLIN AND GAS COMPANY RT DRILL DEEPER REDRANTION PERFORATE NEW LUG OTHER CHANGE EASANT / MARCELLUS APPALACHIA, LLC	Production Storage LEVATION: 1,23 UADRANGLE: F ACREAGE: 126.6 CREAGE: 126.6 RILL FRA FORMATION (SPECIFY)	DATE: MARCH OPERATOR'S WE API WELL# Deep Shallow 34' POWHATAN POINT, W. VA./OF ACTURE OR STIMULATE DESTIMATED DEPTH: TVD: 6 DESIGNATED AGENT: DIAN	A7 STATE PAGE: 10 1536'± TM E C. WHITE	51 02405 COUNTY PERM 2 OF 4 09/17 RE Office o	7/202
DENOTES LOCATION OF VELL ON UNITED STATE OPOGRAPHIC MAPS OVOEP OFFICE OF OIL & GAS OIL 57TH STREET CHARLESTON, WV 25304 OFFICE OF OIL & GAS OIL Type: X OIL X GAS OUNTY/DISTRICT: SHORT CREEK-OHLOUNTY/DISTRICT: CM	R.P.E.: OF SS Waste Disposal Liquid Injection O RIVER EK-OHIO RIVER ORIVER FRANKLIN IX GAS COMPANY RT DRILL DEEPER REDR RMATION PERFORATE NEW LUG OTHER CHANGE EASANT / MARCELLUS APPALACHIA, LLC DAD	Production Storage LEVATION: 1,2: BUADRANGLE: F ACREAGE: 126.6 CREAGE: 126.6 CREAGE: 126.6 CREAGE: 126.7 CREAGE:	DATE: MARCH OPERATOR'S WE API WELL# Deep Shallow 34' POWHATAN POINT, W. VA./OF ACTURE OR STIMULATE PLUG AND ABANDON ESTIMATED DEPTH: TVD: 6 DESIGNATED AGENT: DIAN Address; 5260 DUPONT ROA	A7 STATE PAGE: 10 1536'± TM E C. WHITE	51 02405 COUNTY PERM 2 0F 4 09/17 RE Offlice o	7/202 CEIVE Oil and

WEST WAYNE L. JR. ET. UX.
MCOLINTOCK DALE ET. UX.
FRANKLIN REAL ESTATE CO.
FRANKLIN REAL ESTATE CO.
AEP GENERATION RESOURCES INC.
TEXAS EASTERN TRANSMISSION
FASCULETOS ANDREW M. ET. AL.
FRANKLIN REAL ESTATE CO.
FRANKLIN REAL ESTATE CO.
CONSOLIDATION COAL COMPANY, ET. AL.
HARTLEY PEGGY S. 167 168 169 170 171 172 173 183 184 185 186 187 188 192 193 197 198 220 221 222 223 300 318 320 323 323 323 HARTLEY PEGGY S. POTTS JAMES D. ET. UX. HEATHERINGTON ARDEN RAY POTTS JAMES D. ET. UX. BARNHART THOMAS K. ET. UX. CONSOLIDATION COAL COMPANY, ET AL.
AEP GENERATION RESCURCES INC. SOUTHERN COUNTRY FARMS INC.
MORRIS FRED H. ET. UX.
DIMITRO JAMES D.
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OHIO POWER CO.
CONSOLIDATION COAL COMPANY
SANCHEZ GENEVA BASSETT
ROBBINS JAMES E & DIANA C
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OHIO POWER CO.
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MCGUROY COAL COMPANY SOUTHERN COUNTRY FARMS INC. 625 627 629 630 637 632 633 662 663 MCELROY COAL COMPANY HEATHERINGTON ARDEN RAY GATTS RICHARD L. MILLER EDWIN C. GATTS RICHARD L CLARK BEVERLY E. RUCKWAN SHELDON R. ET. AL. RUCKWAN SHELDON R. ET. AL.
RUCKWAN MARWIN E. ET. UX.
MAXWELL WILLIAM L. SR. ET. UX.
HOLMAN TERRY L.
RUCKWAN MARWIN E.
MAXWELL WILLIAM JR.
HOLMAN TERRY L.
HOLSTINE BERNARD W. & ROXANN L.
HOLSTINE BERNARD W. & ROXANN L.
LEGG JAMES R. EST.
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LEGG JEFFERY L. 383 384 385 386 387 388 389 390 391 LEGG JEFFERY L. ANDERSON RHONDA MARIE

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LEGEND

REFERENCE NUMBER
FOR SURFACE PARCEL
OWNERSHIP

FILE#: MND11 N-3H DRAWING#: MND11 N-3H	I, THE UNDERSIGNED, PLAT IS CORRECT TO THE B BELIEF AND SHOWS ALL THE	INFORMATION REQUIRED I	BY .	00000000000000000000000000000000000000	WEST ALS
SCALE: 1"=2000" MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE U.S.G.S. MONUMENT	LAW AND THE REGULATIONS THE DEPARTMENT OF ENVIRO SIGNED:	INMENTAL PROTECTION.	ET CERCOGOOD	- E	2259 ***********************************
OF ELEVATION: H 138: 638.58'	R.P.E.: L.L.S.	: P.S. NO. 2269		PRACE-SEA	2000000000000
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET	NEST UNION	OPERATOR'S API WELL #	WELL#: M	22 8 20 10 10 10	62405 PERMIT
CHARLESTON, WV 25304			SINIE	CODINT	PERMIT
X Gas Liqu	id Injection Storage ELEVATION: 1	Shallow	PAG	SE: 3 OF 4	
COUNTY/DISTRICT: SHORT CREEK-OHIO RIVE	QUADRANGLE	POWHATAN POINT, W. VA.	/OHIO		
SURFACE OWNER: MARSHALL / FRANKLIN OIL & GAS ROYALTY OWNER: CNX GAS COME	ACREAGE: 126 PANY ACREAGE: 126	V			09/17/202
	L DEEPER REDRILL I PERFORATE NEW FORMATION HER CHANGE (SPECIFY)				AUG 12
TARGET FORMATION: POINT PLEASANT / MA		ESTIMATED DEPTH	0: 6,535' ±	TMD: 15,294' ±	WV Danagara
WELL OPERATOR: HG ENERGY II APPALACHIA Address: 5260 DUPONT ROAD	, LLC	DESIGNATED AGENT: D Address: 5260 DUPONT F	IANE C. WHIT	TE E	nvironmental Pri
City PARKERSBURG State WV	Zin Code 26101	City PARKERSBURG		W Zip Cod	e 26101

Plat		200	au a	Surface Parcel			NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
mber	MPID	Original Lessor	Original Lessee	388,		7	WesBanco Trust & Investment Services,		
D	05-0004-0014-0000-0000 05-0004-0014-0001-0000 05-0004-0014-0002-0000	MILLER CHARLES W	CHEVRON USA INC	389, 394	0	05-0002-0012-0000-0000	a Division of WesBanco, Inc Trustee of the John T. Gallagher Scholarship	NOBLE ENERGY INC	184
		PARSONS PAUL ET UX	CHEVRON USA INC				Trust Consolidation Coal	CNX Gas Company,	-
		RUSSELL SHARON LYN	CHEVRON USA INC				Company	LIC LIC	300
		HUFF TIMOTHY ET UX	CHEVRON USA INC				CNX Gas Company, LLC	Noble Energy, Inc.	
		ARNOLD LLOYD C ET	CHEVRON USA INC				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		CRONIN MARY JO	CHEVRON USA INC				WesBanco Trust &		
		KURPIL RICHARD ET UX	CHEVRON USA INC				a Division of WesBanco, Inc	NOBLE ENERGY	186
13		CLIFTON CLARA MAE	CHEVRON USA INC		8	05-0302-0011-0000-0000	Trustee of the John T. Gallagher Scholarship	INC	200
70		EDWARDS GEORGE ET UX	CHEVRON USA INC				Consolidation Coal	CNX Gas Company,	
		KYLE DONNA FAE	CHEVRON USA INC	1-2			Company	LIC LIC	188
		CONNER JUDITH MAY	CHEVRON USA INC	-			CNX Gas Company, LLC	Noble Energy, Inc.	300
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC				NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
		AS RESOURCES LLC	NPARILC		-			N. S.	
		NPARILIC	Chevron USA INC						
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC						
3	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Power	Noble Energy, Inc.	169					
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC						
1	05-0004-0013-0000-0000	MCCLINTOCK DALE	CHEVRON USA INC	168					
9	05-0004-0013-0000-0000	ETUX	HG ENERGY II	100					
		Chevron USA INC	APPALACHIA, LLC						
4)	05-0004-0001-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	170					
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC						
9	05-0002-0013-0005-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	171					
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		Waterhort Corporate 2000 Georgeowne (
©	05-0002-0013-0004-0000	Peggy 5, Hartley	CNX Gas Company, LLC and Noble Energy	185	Sewelley, PA 1914	DVE		LEGEND	
©	05-0002-0013-0004-0000	Peggy 5. Hartley	LLC and Noble	185	Seweller, PA 1514	PVE		LEGEND REFERENCE NUMB MINERAL OWNERS	ER FOR HIP
③	05-0002-0013-0004-0000	Peggy S. Hartley	LLC and Noble	1.85	Sewelley, PA 1544	Hing I Lans Devolopment Structure De	Align		ER FOR
		Peggy S. Hartley	LLC and Noble Energy		Swedier PA 1944	PUE SHIP I Land Davidopment I Structure Dei ag I Landscape Archiecture I Environment	(1)		ER FOR HIP
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#:_M WIN CCU VEN LLC DEN LLC OG DEI FICE 57T ARL	MND11 N-3H G#: MND11 N-3H 1"=2000' M DEGREE JRACY: 1/2500 SOURCE U.S.G.S. MO ATION: H 138: 638.5! NOTES LOCATION ON UNITED STATE BRAPHIC MAPS P E OF OIL & GAS TH STREET LESTON, WV 25304	NUMENT B' OF TES	I, THE PLAT IS CORR BELIEF AND SLAW AND THE THE DEPARTM	UNDERS ECT TO HOWS AI REGULA ENT-OF	Civil Engineer Land Plane IGNED, H THE BES' L THE INTONS ISSENVIRONN	EREBY CERTIFY THAT TO F MY KNOWLEDGE OF MY KNOWLEDGE OF THE SUED AND PRESCRIBED MENTAL PROTECTION. P.S. NO. 2269 DATE: MAR OPERATOR'S	HIS AND BY BY RCH 7, 2019 WELL #: MND1	REFERENCE NUMERS MINERAL OWNERS OCCUPANION NO. 2269 STATE OF FURGINALISHESE OCCUPANION 1 N-3H	HO5
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W	W-	6A	1
(5/	13)	

Operator's Well No.	MND11 N-3H	
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

- See Attached Lease Chain -

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

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

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

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

Well Operator:	HG Energy II Appalachia, LLC				
Ву:	Diane White	Diane White			
Its:	Agent				
Its:		Courte octor			

Page 1 of __3__

HG Energy II Appalachia, LLC MND11 N-3H Lease Chains

HG Flat Number	MPID	Original Lessor	Original Lessee	Royalty	Book	Page
TIO FIGURE		MILLER CHARLES W	CHEVRON USA INC			
	05-0004-0014-0000-0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AMERICAN MARKET	3.4		
	05-0004-0014-0001-0000			Not less	333	-50
1)	05-0004-0014-0002-0000			than 1/8	853	59
		PARSONS PAUL ET UX	CHEVRON USA INC	Not less		A.V.
				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	864	47
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	Not less		
				than 1/8	864	39
		CRONIN MARY IO	CHEVRON USA INC	Not less		
				than 1/8	864	43
		KURPIL RICHARD ET UX	CHEVRON USA INC	Not less		
		and the second section		than 1/8	863	594
		CLIFTON CLARA MAE	CHEVRON USA INC	Not less		
			200000000000000000000000000000000000000	than 1/8	853	426
		EDWARDS GEORGE ET UX	CHEVRON USA INC	Not less		
		2211111112 2112(1212) 231	and the second control of	than 1/8	853	418
		KYLE DONNA FAE	CHEVRON USA INC	Not less		CONST
		KIEL BOITH THE	CHE MIDIT DUNING	than 1/8	853	449
		CONNER JUDITH MAY	CHEVRON USA INC	Not less	000	3.00
		CONNER IDDITE WAY	CHEVION ODA IIVO	than 1/8	853	445
	SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	Not less	033	112	
		SCHEIBELHOOD FAUELT AL	AD KESODIKEES DEG	than 1/8	695	629
		AB RESOURCES LLC	NPAR LLC	man 1/L	25	484
			Chevron USA INC		756	332
		NPAR LLC	HG ENERGY II APPALACHIA,		7.30	364
		Chevron USA INC	LLC		41	154
		AEP Generation Resources Inc. and		Not less		
2)	05-0004-0015-0000-0000	Kentucky Power Company	Noble Energy, Inc.	than 1/8	829	15
-			HG ENERGY II APPALACHIA,	44.		
		NOBLE ENERGY INC	LLC		39	
				Not less		
3)	05-0004-0013-0000-0000	MCCLINTOCK DALE ET LIX	CHEVRON USA INC	than 1/8	773	615
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC		41	15
-		Chevron USA INC	uic .		41	- 13
				160	EIVEL.	
				. Jiffice niti	Tioni on	
				Not less		
4)	05-0004-0003-0000-0000	Southern Country Farms, Inc.	Noble Energy, Inc.	than/1/8	801	79
					201	
			HG ENERGY II APPALACHIA,		mount	
		Noble Energy, Inc.	uc F	With Minney	39	1
	Electric and a second	AEP Generation Resources Inc. and		Not less		
5)	05-0004-0001-0000-0000	Kentucky Power Company	Noble Energy, Inc.	than 1/8	829	1.5
			HG ENERGY II APPALACHIA,			
		NOBLE ENERGY INC	LLC		39	
			w and a constitution	Not less		
2			MALES SERVICES A LINE VALO	di alo	- Charles	
3)	05-0004-0013-0000-0000	MCCLINTOCK DALE ET UX	CHEVRON USA INC	than 1/8	773	61
3)	05-0004-0013-0000-0000	MCCLINTOCK DALE ET UX Chievron USA INC	HG ENERGY II APPALACIIIA, LLC	than 1/8	1/3	15

6)	05-0002-0013-0005-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	Not less than 1/8	829	157
			HG ENERGY II APPALACHIA,			
		NOBLE ENERGY INC	LLC		39	1
7)	05-0002-0013-0004-0000	Peggy S. Hartley	CNX Gas Company, LLC and Noble Energy HG ENERGY II APPALACHIA,		873	547
		NOBLE ENERGY INC	LLC		39	1
		WesBanco Trust & Investment Services, a Division of WesBanco, Inc Trustee of the John T. Gallagher		Not less		
8)	05-0002-0012-0000-0000	Scholarship Trust	NOBLE ENERGY INC	than 1/8	803	350
	or agos agos agos agos	Consolidation Coal Company	CNV Gas Company LLC	Fee	646	493
	05-0006-0003-0000-0000	Consolidation Coal Company CNX Gas Company, LLC	CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA,	Fee	752	66
		NOBLE ENERGY INC	LLC	Fee	39	1
7)	05-0002-0011-0000-0000	WesBanco Trust & Investment Services, a Division of WesBanco, Inc Trustee of the John T. Gallagher Scholarship Trust Noble Energy	NOBLE ENERGY INC CNX Gas Company, LLC	Not less than 1/8	803 36	350 503
		CNX Gas Company, LLC	Noble Energy HG ENERGY II APPALACHIA,		37	169
		NOBLE ENERGY INC	LLC		39	1
		WesBanco Trust & Investment Services, a Division of WesBanco,				
		Inc Trustee of the John T. Gallagher		Not less		
8)	05-0002-0012-0000-0000	Scholarship Trust	NOBLE ENERGY INC	than 1/8	803	350
	05-0006-0003-0000-0000	Consolidation Coal Company	CNX Gas Company, LLC	Fee	646 752	493 66
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II APPALACHIA,	Fee	752	66
		NOBLE ENERGY INC	LLC	Fee	39	1

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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 27, 2021

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

02405

RE:

Drilling Under Roads - MND11 N-3H (47-051-02217)

Franklin District, Marshall County

West Virginia

Dear Ms. Kees -

HG Energy II Appalachia, LLC, has the right to drill, stimulate and produce wells that are drilled under the County and State Roads as designated on the plats.

Should you have any questions or desire further information, please contact me at dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

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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	ce Certification: 07/27/2021		API No. 47	_ 051 _ - 02	217
			Operator's	Well No. MND	11 N-3H
		•	Well Pad N	lame: MND11	
Notice has b	oeen given:				
Pursuant to th	ne provisions in West Virginia Code §	22-6A, the Operator has prov	ided the req	uired parties v	vith the Notice Forms listed
	tract of land as follows:			_	
State:	West Virginia	IIIM NAIN 3	Easting:	520292.4	
County:	Marshall		Northing:	4407492.6	
District:	Franklin	Public Road Acce		Nixon Ridge Roa	d (SLS 21/1)
Quadrangle:	Powhatan Point	Generally used far	rm name:	CONSOL	
Watershed:	Short Creek - Ohio River				
information r of giving the requirements Virginia Cod	ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applican	ction sixteen of this article; (ii rvey pursuant to subsection (if this article were waived in ender proof of and certify to the) that the real a), section to writing by	quirement was ten of this art the surface ov	deemed satisfied as a resulticle six-a; or (iii) the notice wner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY	erator has attached proof to the distance of the distance of the following:	is Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVE	EY WAS C	ONDUCTED	RECEIVED
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIR NOTICE OF ENTRY FOR IT WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER I (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PU	BLIC NOTICE				RECEIVED
■ 6. NO	TICE OF APPLICATION				TRECEIVED

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.

> WV Department of Environmental Protection

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

By: Diane White Diane White

Its: Agent

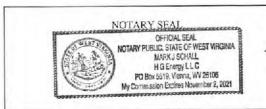
Telephone: 304-420-1119

 Address:
 5260 Dupont Road

 Parkersburg, WV 26101

 Facsimile:
 304-863-3172

 Email:
 dwhite@hgenergyllc.com



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

My Commission Expires 11/2/2021

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 deprivacyofficer@wv.gov.

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WV Department of Environmental Probables WW-6A (5-12) API NO. 47-___OPERATOR WELL NO. MND11 N-1H-N-4H
Well Pad Name: MND11

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

Notice Time Requirement: notice shall be provided no later that Date of Notice: 07/29/2021 Date Permit Application Filed: 09/05		
Notice of:		
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10	O(b)	
	OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION	
for a certificate of approval for the construction of an impoundm or by registered mail or by any method of delivery that requires a erosion and sediment control plan required by section seven of the owners of record of the surface of the tract on which the well is of tract or tracts overlying the oil and gas leasehold being develope roads or other land disturbance as described in the crosion and se seven of this article; (3) The coal owner, operator or lessee, in the located [sic] is known to be underlain by one or more coal seams oil and gas leasehold being developed by the proposed well work enlargement, alteration, repair, removal or abandonment of any it. Any surface owner or water purveyor who is known to the application one thousand five hundred feet of the center of the well prodomestic animals; and (6) The operator of any natural gas storage (c)(1) If more than three tenants in common or other co-owners of the lands, the applicant may serve the documents required upon a maintained pursuant to section eight, article one, chapter eleven- contrary, notice to a lien holder is not notice to a landowner, unla Notice is hereby provided to:	a receipt or signature confirmation, copies of the app his article, and the well plat to each of the following or is proposed to be located; (2) The owners of record by the proposed well work, if the surface tract is to ediment control plan submitted pursuant to subsection he event the tract of land on which the well proposed s; (4) The owners of record of the surface tract or track, if the surface tract is to be used for the placement, impoundment or pit as described in section nine of the ican to have a water well, spring or water supply sour and which is used to provide water for consumption by the field within which the proposed well work activity of interests described in subsection (b) of this section the person described in the records of the sheriff requal of this code. (2) Notwithstanding any provision of	persons: (1) The d of the surface be used for in (c), section to be drilled is cts overlying the construction, his article; (5) arce located by humans or is to take place. In hold interests in uired to be
SURFACE OWNER(s) Name: HG Energy II Appalachia, LLC Address: 5260 Dupont Road Parkersburg, WV 28101	Name: Murray Energy Corporation Address: 46226 National Road St Clairsville, OH 43950	
Name:	☐ COAL OPERATOR	
Address: SURFACE OWNER(s) (Road and/or Other Disturbance)	Name: Address:	RECEIVED
Name: HG Energy II Appalachia, LLC Address: 5260 Dupont Road		AUG 1 2 2021
Parkersburg, WV 26101 Name: Address:	Name: Address: Env	AVV Department in Fronmental Protection
SURFACE OWNER(s) (Impoundments/Pits) Name: Address:	OPERATOR OF ANY NATURAL GAS STOFIELD Name: Address:	DRAGE
	*Please attach additional forms if necessary	

API NO. 47- 05 - 02405
OPERATOR WELL NO. MNOTENAME-NAME
Well Pad Name: MND11

Notice is hereby given:

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

This Notice Shall Include:

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.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 willfin any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article (c) If the secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such WW-6A (5-12)

factors, if necessary.

API NO. 47-051 - 62405 OPERATOR WELL NO. MND11 N-1H - N-4H Well Pad Name: MND11

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

(1) The proposed well work will constitute a hazard to the safety of persons;

(2) The plan for soil erosion and sediment control is not adequate or effective;

(3) Damage would occur to publicly owned lands or resources; or

(4) The proposed well work fails to protect fresh water sources or supplies.

WV Department (). Environmental Protection

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

API NO. 47-051 - 02405 ·
OPERATOR WELL NO. MND11 N-1H - N-4H
Well Pad Name: MND11

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

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

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 depprivacyofficer@wv.gov.

Diane White

OFFICIAL SEAL

NOTARY PUBLIC. STATE OF WEST VIRGINIA

MARK J SCHALL

H G Energy LL C

PO Box 5519, Visnna, WV 26105

My Commission Expires November 2, 2021

Subscribed and sworn before me this 29^{+h} day of July, 2021

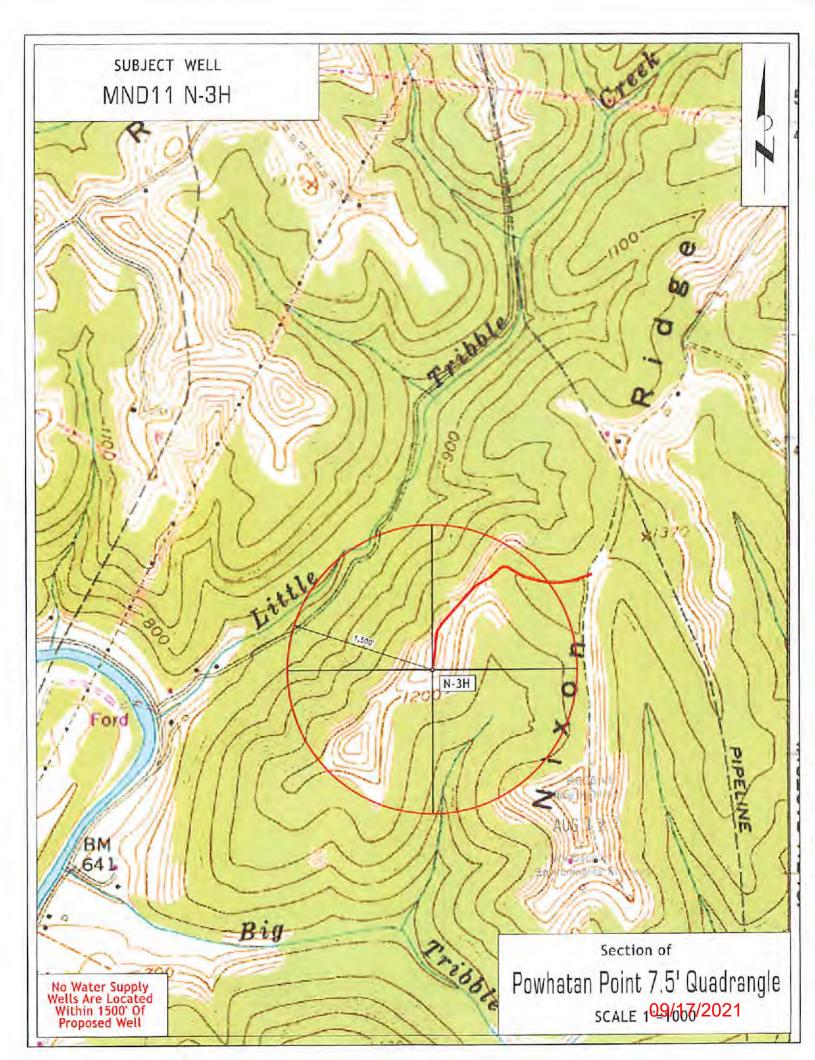
Notary Public

My Commission Expires 11/2/202

RECEIVED

AUG 1 2 2

WV Departmental Regregion



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, Enc Grayson, for HG Energy II Appellachia, 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	TITMANAD 02	Easting:	520292.4	
County:	Marshall	UTM NAD 83	Northing:	4407492.6	
District:	Franklin C	Public Road Acc	cess:	Nixon Ridge Road (SLS 21/1)	
Quadrangl	e: Powhatan Point	Generally used f	arm name:	CONSOL	
Watershed				01	
Name:	ric Grayson, VP, HG Energy II Appalachia, LLC	Signature:	(w)	hayre	
Address: 5	260 Dupont Road				
F	Parkersburg, WV 26101	Date: 07/27/	2021		

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

AUG 1 2 2021

WV Départment or environmental Protection WW-6A5 (1/12)

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

Notice T Date of i		quirement: notice shall be pro 07/29/2021 Date P		o later than the filing opplication Filed: 08/00		application	n.
Delivery	metho	d pursuant to West Virginia	Code §	22-6A-16(c)			
■ CE	DTILLE	D MAIL	П	HAND			
		RECEIPT REQUESTED		DELIVERY			
return re- the plant required drilling of damages (d) The ro- of notice	ceipt red ned ope to be pr of a hor to the s notices r	quested or hand delivery, give ration. The notice required by subsection (b), sect izontal well; and (3) A propourface affected by oil and gas equired by this section shall by provided to the SURFACE	the surface of this satisfactory this satisfactory that satisface operation operation of the given to the surface of the surfa	the owner whose land absection shall include this article to a surface use and compens as to the extent the date to the surface owner a R(s) * Surface	will be used for the compact owner whose the address list	r the drilling of this code land will to containing the containing	operator shall, by certified many of a horizontal well notice of the section; (2) The information be used in conjunction with the gan offer of compensation for article six-b of this chapter seconds of the sheriff at the times as is the same
(at the ac	ddress li	sted in the records of the sher	iff at the	time of notice): Name:	the Op	perator	
Name: _ Address:		gy II Appalachia, LLC		Address			
Address		urg, WV 26101		Address	-		
operation State:	n on the	t Virginia Code § 22-6A-16(c e surface owner's land for the lest Virginia	purpose (of drilling a horizonta UTM NAD 8	I well on the tra	520292.4 4407492.6	s follows:
County: District:		arshell ranklin		Public Road			Road (SLS 21/1)
Quadran		owhatan Point (d farm name:	CONSOL	, 1000 (010 111)
Watersh	_	nort Creek - Ohio River			a min mine.	3500	
Pursuant to be pr horizont surface a informat	t to Wes rovided al well; affected tion rela	by W. Va. Code § 22-6A-10 and (3) A proposed surface u by oil and gas operations to ted to horizontal drilling ma- cated at 601 57 th Street, SE	(b) to a se and co the exter y be obta	surface owner whose impensation agreement the damages are co- tined from the Secret	land will be un the containing and empensable und ary, at the WV	ised in con offer of co ler article s Departme	on; (2) The information required injunction with the drilling of compensation for damages to the six-b of this chapter. Addition not of Environmental Protection www.dep.wv.gov/oil-and RECEIVED Office of Off and Gase
Well Op	erator:	HG Energy II Appalachia, LLC		Address:	5260 Dupont Road		The state of the s
Telepho		304-420-1119			Parkersburg, WV 26	101	AUG 1 2 2021
Email:	Z.E.	dwhite@hgenergyllc.com		Facsimile:	304-863-3172		
							WV Department of
Oil and	Gas Pr	ivacy Notice:					Environmental Protection

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.

09/17/2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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-11 Pad, Marshall County
MND-11 N-3H Well Site

Dear Mr. Martin,

Byrd E. White, III

Secretary of Transportation/

Commissioner of Highways

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,

RECEIVED
Office of Oil and Gar

AUG 1 2 2021

WV Department of

Gary K. Clayton, P.E.

Environmental Protection

Regional Maintenance Engineer

Jary K. Clayton

Central Office O&G Coordinator

Cc:

Diane White

HG Energy II, LLC

CH, OM, D-6

File

List of Frac Additives by Chemical Name and CAS

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

Chemical Name	CAS#	Multiple CAS #'s	
Pro Shale Slik 405	Mixture	68551-12-2	
		7647-14-5	1
		12125-02-9	1
		64742-47-8]
Pro Hib II	Mixture	68412-54-4	-
		68607-28-3	7
		107-21-1	7
		111-76-2	7
		67-56-1	1
		107-19-7]
Silica Sand and Ground Sand	Mixture	14808-60-7	-
		1344-28-1	7
		1309-37-1	7
		13463-67-7	
Hydrochloric Acid 22 DEG BE	7647-01-0		RECEIVED Office of Oil and Gas AUG 1 2 2021
PROGEL - 4.5	64742-96-7		1
		E	WV Department of ronmental Protection
BIO CLEAR 2000	Mixture		- Totection
		10222-01-2	\dashv
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	4
	-	2687-96-9	
PROGEL - 4	9000-30-0]

CONSTRUCTION IMPROVEMENT PLANS FOR



MND11 PAD

MOUNDSVILLE

MARSHALL COUNTY WEST VIRGINIA

CENTER OF PAD

N 39.8171447125

W 80.7628825079°

ENTRANCE

N 39.8198953841

W 80.757249552"

WV Department o.

Final Development - Gravel Option 5000 p/c 109.300 103,500 Rhad & Primn Strilling 12.097 3.55 9.542 CLIT Simpled lippsoil (Lentis of Earlinwork) Est. Swell Factor at Toosof Stockole Vol. me if oose CVS t. Topcoil To Be Respread on Qut/Fill Slopes Material balance for est, grase parthwork quantities only.

Topsoil est, volume based on 6 inches average depth.

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

3.942

9542

13,540

3 445

19.737

Felimotes do not reflect contractor pay volumes

Streeted Grave Durables			
	Access Road	Prid	ATOR
B' Soll Cement (Placed SY)	4.595	27,335	31,980
3 Cruster Run (Torn)	**	2,987	2,957
top Coat Chip & Scal (Habbo SY)	4.595		
Estimated Compast Filter Sack Length (LF)	2.224	1,449	3,673
Estimated Limit of Disturbance (Acres)	E-v-		17.603
Weil Rad and Staging Alvid Peak Pre Condition	con Election (F1)	1270.00
Well Pad Subbase Dievation Too of Sel Com	sort) (Ft)		1233 80.
Well Pod Surface Envision (Fr)			1234.05
Well Plad Surface: Elevation (Fit)			1234.0

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

WELL #	LAT.	LONG,
1	N 39.51710022	W 80.75294549
2	N 39.51713758	W 50.75292503
3	N 39.51717493	W 80.75290357
4	N 39.81721229	W 80.76288111
TIUE	N 39.517(8920	W 80.75281651

NADRS UTN 70NF 17 CONTROL POINTS

CP I	NORTHING	EASTING	ELEV.	DESCRIPTION
1	14450938	1707298	1218.758	CP ADJ OPUS
2	14461135	1707568	1253,137	CP IP
3	14459433	1708597	1282.618	CP IP
4	14450128	1706559	1230.318	CP
5	14450972	1707398	1220.048	CP SNS
6	14450859	1707281	1216.504	CP IP REP
7	14461089	1707564	1234,724	CP IP REP

RECORD UWNER	CROSSH	RECORD AREA OF LUT	MITHIN LOD
HG ENERGY PROPERTY	TM 4 PARCEL 14	121.531 AC	17.577 AC
RHUNDA WARE ANDERSON	25 05 4 0014 0001	32 8/28 AC,	0.026 40.
TOTAL LIK	HT OF DISTURBANCE		17.803 AC

CONSTRUCTION SEQUENCE:

- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITY, INCLUDING CLEARING AND GRUBBING, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF WEST VIRGINIA (811) A MINIMUM OF 3 DAYS PRIOR TO EXCAVATION WORK. THE CONTRACTOR ALSO SHALL CLEARLY DELINEATE SENSITIVE AREAS RIPARIAN FOREST BUFFER BOUNDARIES. THE LIMITS OF CLEARING, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE, AND SHALL INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY
- SITE ACCESS THIS IS THE FIRST LAND-DISTURBANCE ACTIVITY TO TAKE PLACE AT THE SITE AND CONTRACTOR SHALL PROVIDE BMPS TO MINIMIZE ACCELERATED EROSION AND SEDIMENTATION FROM CONSTRUCTION ROUTES AND AREAS DESIGNATED FOR EQUIPMENT OR OTHER USE AT THE SITE INCLUDING PARKING AND STOCKPILES.
- SEDIMENT BARRIERS INSTALL PERIMETER BMPS AFTER THE CONSTRUCTION SITE IS ACCESSED, KEEPING ASSOCIATED CLEARING AND GRUBBING LIMITED TO CNLY THAT AMOUNT REQUIRED FOR INSTALLING PERIMETER BMPS.
- LAND CLEARING AND GRADING IMPLEMENT CLEARING AND GRADING ONLY AFTER ALL DOWNSLOPE E&S BMPS HAVE BEEN CONSTRUCTED AND STABILIZED.
- SURFACE STABILIZATION APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS REACHED FINAL GRADE, HAS BEEN DELAYED OR OTHERWISE TEMPORARILY SUSPENDED.
- 6. UPON COMPLETION OF PAD GRADING, COMPACT THE PAD TO GRADE AND BEGIN PLACEMENT OF PAD WORKING SURFACE.

PREPARED FOR HG ENERGY II APPALACHIA, LLC

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

PENN ENVIRONMENTAL & REMEDIATION, INC.

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

CALL BEFORE YOU DIG!

SPRINGE L'OUTY UNES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL RE-RESPONDIBLE FOR LOCATING, MARTINING, MIC SER, ACRE AS RELESSANT TO ENGLISH.

TITLE SHEET

HG MND11 MARSHALL COUNTY WEST VIRGINIA PREPARED FOR

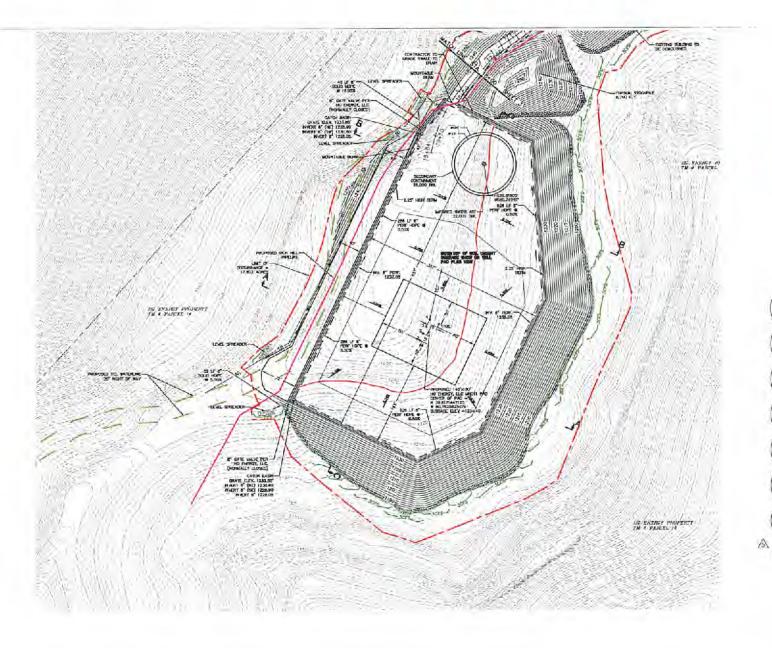
HG ENERGY II APPALACHIA, LLC. PARKERSBURG, WEST VIRGINIA

PROVED MEP 04/11/2018 DIAMN BJA 04/05/2018 PROJECT No. 4000-PA007665 DRAWING NUMBER PA007665-01

COORDINATES WY STATE PLANE, NORTH ZONE, NAD 83

WEST VIRGINIA [1]

Penn E&R



Estimated Gloss Mater	al Ballyres (C	1	
Tired Development - Ge	ave Uppen		
	Cut	E0.	9,ocxole
Pari	108 100	1501,500	00000
Road & Pump Dates	12 493	8.554	0.942
Torals.	101 593	112,751	9.542
To all S in Balanca			9,542 CUT
Stripped Tupsort (Lorids)	e Estrace)		11.357
Fact Swon Factor	(2)	(%)	2.273
Es., Tupsoi Stocky & Vo	rune Loose C	24.	13,640
I'm Topped to Lie Freepi	teat on Capital	5008	3,445
Mirwam Test Stocker	Charles Rev	and Was	19,737

Toponi cet volume baged on 6 monos avivage ought

4. Entirentes do not milest consuctor pay clumbs.

promoted Grovel Ocardates

WELL #	LAT.	LONG
-10-	N 39.81710022	W 80.76294849
2	N 39,81713758	W 80,76292603
3	N 39.81717493	W 80.76290357
- A-	N 39.81721229	W 80.76288111
11UE	N 39.81718920	W 80.76281651

WELL ELEVATIONS 1234.85



Estimated Gloss Mater	al Ballince (C	1	
First Development - Go	ave Uption		
	Cut	E0.	9,ourple
Place	108 100	100,500	0.000
Road & Pump Date:	12 493	8.551	1942
Torals.	121 593	112,751	9.542
To all Si al Batanesa	9,542 CU		
Stripped Tursof (Links of Eastmann)			11.357
Her Swin Facto (20%)			2.223
Es., Tupsoi Stocky is Verante Looks CVI			13,640

Material bala sur for est, gross earthweek quantities only

3. Millers palarite and appropriation spanishs based on a sales and may not be more septative of water many dos.

Allen Seal	2166	TOTAL
1595	27,383	21 990
	2,367	2.967
4 595		
1,382	160,5	7.016
		7.600
CITY LEVELOT	11	15/0785
mr, (F))		: SEE !
We CutS. digree Financia (F)*		
	3 595 1,342 011 1 = EVOID11	1595 27,383 2,367 3,595 1,382 2,095

21 10 10 HEART	IN NOTES IN THE COMMIT.	
5/29/19	PEVENONS PER WYDEP	
5/17/18	TOTAL PROPERTY AND IN THE PARTY AND INC.	
5/13/18	REVISIONS PER WIDER	
1/09/10	REVISE WILL LANGUTS PER CLENT, UPDATE LOD	
6/19/18	EXPANDED PAD AND ADDED ADDITIONAL STOCKPILL	
5/17/15	ADDED NO. NATURENE RIGHT OF MAY	
CATE	DESCRIPTION	
	29458 29458 20458 20458	
	5/17/18 5/15/18 1/09/19 6/17/18 5/17/18	

20450 STATE OF SCALE - FEET

SITE DEVELOPMENT PLAN WITH EROSIDN AND SEDIMENTATION CONTROLS

FIG MINDII MARSHALL COUNTY WEST VIRGINIA PREPARED FOR

LEGENO POTER CHEEK ZAW HIPPAP APROV

HERE HORDAND DHANE. COMPANY (THE SHEET IN COLLEGE IN HERMAL) - STACKED COMPOST FEETER SOCK 8" DUSTRIC HODE CONTROL PRINCIPLE INTERNEDIAL CONTOLE PROFOSED SUBBASE MICH CONTOURS

> PROPOSED SUBBASI, INTERMEDIATE CONTOUR ENSTING MARSHALL WINE WORKINGS

MUSICAL EMERGY INCHUSES REDIGIES IN DISIGNAL INVESTIGATION OF THE PROPERTY OF

ATTROPING E PROVETTY SCUNDARY

TOE SEACH (SEE FILL BONCH DETAL) FROSON DONTROL SLAWART

EM

WHIT WHITH MINER HOESE

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

PROJECT No. 4000-FR007865 Dial 811 or 800,245,4848

Penn E&R

COORDINATES WY STATE PLANE, NORTH ZONE, NAD 83.

WEST VIRGINIA CALL BEFORE YOU DIG!

THE SERVICE CHAIN LINES ARE NOT SERVING IN THE PLANS, THE CONTRACTOR CHAIL BE REPORTED TO THE CONTRACTOR CHAIN CONTRACTOR OF THE PLANS AS MICE CHAIN TO THE CONTRACTOR OF THE PLANS AS MICE CHAIN CONTRACTOR OF THE PLANS AS

PA007665-01 SHEET 4