

west virginia department of environmental protection

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

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

Friday, June 29, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

# HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

## PARKERSBURG, WV 26101

Re: Permit approval for MND 20 DU 47-051-02014-00-00

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

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

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

James A. Martin Chief Operator's Well Number: MND 20 DU Farm Name: CONSOLIDATION COAL COM U.S. WELL NUMBER: 47-051-02014-00-00 Horizontal 6A New Drill Date Issued: 6/29/2018

Promoting a healthy environment.



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57<sup>th</sup> Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

June 25, 2018

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02014

COMPANY: HG Energy II Appalachia, LLC

FARM: HG Energy II Appalachia, LLC MND 20 DU

COUNTY: Marshall DISTRICT: Franklin QUAD: Powhatan Point 7 1/2"

The deep well review of the application for the above company is <u>Approved to drill to Point Pleasant</u> for completion.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? No.
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: none
- 4. Provided a plat showing that the proposed location is a distance of <u>400+</u> feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose

Administrator

Promoting a healthy environment.

# **PERMIT CONDITIONS**

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

# **CONDITIONS**

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

API Number: 51-02014

# **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, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-51 - DRDIY OPERATOR WELL NO. MND20 DU

Well Pad Name: MND20

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

1) Well Operat	or: HG En	ergy II Appal	achia, L	494519932	Marshall	Franklin	Powhatan Point
i) ii dii operin				Operator ID	County	District	Quadrangle
2) Operator's V	Well Number	. MND20 DU	J	Well P	ad Name: MN	ID20	
3) Farm Name	/Surface Ow	ner: Murray	Energy (	Corp Public Re	bad Access: S	LS 2/1	
4) Elevation, c	urrent groun	d: 1079'	El	evation, propose	d post-constru	ction: 1058'	
5) Well Type	(a) Gas Other	Х	Oil	Un	derground Sto	rage	
	(b)If Gas	Shallow		Deep	Х		
		Horizontal	Х				RECEIVED Office of Oil and Ga
6) Existing Pac	d: Yes or No	No			<u>-</u>		
	-			ipated Thickness	and Expected	Pressure(s):	MAY 21 2018
Point Pleasa	ant 10662' - 1	0782' / 120' Th	ick / 9668	3 psi			WV Department
8) Proposed To	otal Vertical						Environ Cental Prote
9) Formation a	t Total Verti	cal Depth: F	oint Plea	asant			ENVIL MAL OCEN
10) Proposed T	l'otal Measur	ed Depth: 2	7,990'				NOT 2 NED
11) Proposed H	Horizontal Le	eg Length: <u>1</u>	6,491'				Nonmenial protection
12) Approxima	ate Fresh Wa	ter Strata Dep	ths:	445, 708', 805	1		noted of
13) Method to	Determine F	resh Water D	epths: N	Nearest offset w	ell		tion
14) Approxima							
15) Approxima	ate Coal Sea	n Denths: 5	26' - 536	1			
					None anticir	nated drilling	n in pillar
16) Approxima	ate Depth to	Possible void	(coai mi	ine, karst, other):	None antici	Jacou, unimi	
17) Does Prope directly overly				ns Yes X	1	No	
(a) If Yes, pro	ovide Mine I	nfo: Name:	Wells	are located in	abandoned a	rea of McElr	oy Mine
(.,, F.	1	Depth:	526' ·	- 536'			
/	111	Seam:	Pittsb	ourgh #8			
CA	111	Owner	Cons	ol Mining Com	oany, LLC		
10	/	o mior		0 1			

APINO. 47-51-02014 OPERATOR WELL NO. MND20 DU Well Pad Name: MND20

WW-6B (04/15)

18)

# CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> <u>(lb/ft)</u>	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5#	60'	60'	NA
Fresh Water	20"	New	J-55	94#	950'	950'	CTS
Coal	13 3/8"	New	J-55	54.5#	2300'	2300'	CTS
Intermediate	9 5/8"	New	P-110	47#	9082'	9082'	CTS
Production	5 1/2"	New	P-110	23#	27990'	27990'	20% excess, yield = 1,7689, CTS
Tubing					CHARLES MANAGER DI ALCON		
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	0.5"			Class A	
Fresh Water	20"	26"	0.438"	2110 psi		Class A	40% Excess Yield = 1.1924, CTS
Coal	13 3/8"	17.5"	0.380"	2730 psi		Class A	30% Excess Yield = 1.18, CTS
Intermediate	9 5/8"	12.25"	0.472"	9440 psi		Stage 1, Class H, Stage 1	30% ExcessYield = 1.1744, CTS
Production	5 1/2"	8.5"	0.361"40	5 <sup>4</sup> 14520 psi	11,500	Class H	20% Excess Yield = 1.7669, CTS
Tubing							
Liners					1 .	2	

PACKERS


51-02014

USS	U. S. Steel Tubular Products Product Information 5 1/2 23 lb (0.415) P110 HC USS-CDC HTQ <sup>™</sup>		6/1/2012
MECHANICAL PROPERTIES	Yield Strength		
Pipe Body	Minimum	110	ksi
	Maximum	140	ksi
Coupling Mechanical Properties are	Tensile Strength		
the same as the API specified grade	. Minimum	125	ksi
PIPE PROPERTIES			
Dimensions, Nominal	Pipe Outside Diameter	5.500	in.
	Wall	0.415	in.
	Pipe Inside Diameter	4.670	in.
	Pipe Drift - API	4.545	in.
	Nominal Linear Weight, T&C	23.00	lbs/ft
	Pipe Cross Sectional Area	6.630	sq. in.
Performance Properties	Minimum Pipe Body Yield Strength	729	1,000 lbs
	Minimum Collapse Pressure	15,310	psi
	Minimum Internal Yield Pressure	14,520	psi
CONNECTION PROPERTIES			
Dimensions, Nominal	Connection Outside Diameter	6.300	in.
	Connection Inside Diameter	4.670	in.
	Connection Drift - API	4.545	in.
	Makeup Loss	4.63	in.
	Cuiting L Ange	0 000	the second second

	Minimum Internal Yield Pressu	ire 14,520	psi
CONNECTION PROPERTIES			
Dimensions, Nominal	Connection Outside Diameter	6.300	in.
	Connection Inside Diameter	4.670	in.
	Connection Drift - API	4.545	in.
	Makeup Loss	4.63	in.
	Critical Area	6.630	sq in.
	Joint Efficiency	100.0	%
erformance Properties	Joint Strength	759	1,000 lbs
	Compression Rating	455	1,000 lbs
	Minimum Collapse Pressure	15,310	psi
	Minimum Internal Yield Pressu	ure 14,520	psi
	Maximum Uniaxial Bend Ratin	ig 57.3	deg/100 ft
	Connection Yield Torque	27,800	ft - Ibs
Recommended Torque Values	Minimum Makeup Torque	15,000	ft - Ibs
	Maximum Makeup Torque	21,000	ft - Ibs
* Note: Verification of connection shou	lder is required. Typical shoulder range	5,000 - 7,500	ft - Ibs

USS-CDC HTQ (Casing Drilling Connection) is a modified API Buttress threaded and coupled connection designed for drilling with casing applications.

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U. S. Steel Tubular Products, Inc. - 600 Grant Street, Pittsburgh, PA 15219

www.uss.com

WW-6B (10/14)

API NO. 47- <u>51</u> -	02	2014
OPERATOR WELL		
Well Pad Name:	MND2	0

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

Drill the vertical depth to the Point Pleasant at an estimated total vertical depth of approximately 10,700 feet. Drill horizontal leg - stimulate and produce the Point Pleasant Formation. Should we encounter formation issues, set the 20" into next competent formation but not deeper than elevation. Should we encounter an unanticipated void 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. Maximum pressure not to exceed 10,000 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.39

22) Area to be disturbed for well pad only, less access road (acres): 3.8

23) Describe centralizer placement for each casing string:

Conductor - No centralizers used. Fresh Water/Surface - Centralizers every 3 joints to surface. 1st Intermediate - Bow spring on first 2 joints then every third joint to 100' from surface. Intermediate - Bow spring on first 8 joints then every third joint to 100' from surface. Production - 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. See Attached Schematic for more detail.

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

Doncholm - NiA. Casing to be called in wit Dual Rotary Fig. Surface/Figst Water - 55 (ftpg PNE-1) Lass A + 2.5% Brace CaCl, 40% Excess / Yeld + 1.1024 / CTB. Null Intermediate - Load : 100 ppg Class A - 2.5% Brace CACL, 30% Excess, Yeld + 1.50 ppg / Class A + 2.5% brace CaCl, 30% Excess / Yeld + 1.1024 / CTB. This Intermediate - Stage 1.152 ppg PNE-1.25% brace CACL, 30 & Coass A, 40% Excess, Yeld + 1.1024 / CTB. Proceeding - Log PNE-1.152 ppg PNE-1.25% brace CACL, 30 & Coass A, 30% Excess, Yeld + 1.1024 / CTB. Proceeding - Log PNE-1.152 ppg PNE-1.25% brace CACL, 30 & Coass A, 40% Excess, Yeld + 1.1024 / CTB. Proceeding - Log PNE-1.152 ppg PNE-1.25% brace CACL, 30 & Coass A, 40% Excess, Yeld + 1.1026 / CTB. Proceeding - Log PNE-1.152 ppg PNE-1.25% brace CACL, 30 & Coass A, 40% Excess, Yeld + 1.1026 / CTB. See Attached Casing Schematic for more detail.

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TO, Surface/Frish Water - Once casing is at setting depth, circulate intermediate - Once casing is at setting depth, circulate and condition at TD. Circulate a minimum of Circulate a minimum of one hole volume prior to pumping cement. Production - Once on bottom/TD with clean. Circulate a minimum of one hole volume prior to pumping cement. See Attached Schematic for more detail.	one hole volume prior to pumping cement. 2nd Intermediate - Once casing	is at setting depth, circulate and condition mud at TD.
	All	RECEIVED Office of Oil and Gas MAY 21 2018
*Note: Attach additional sheets as needed.	704	MAY 21

WV Department of PageBroir 9nmental Protection 06/29/2018

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51-02014

			HERGY						MND20 Utica Shale Marshall C	Horizontal ounty, WV	
						MN	D20DUH	IS SHL	4	194960.84N 163412	9.63E
Ground I	Elevation	1	1058			MND20DUHS LP 495999.35N 1635672.63		2.67E			
Az	m	1000	144.90	6°		MN	D20DUH	IS BHL		482506.47N 16451	53.5E
WELLBOR	DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	GENTRALIZERS	CONDITIONING	COMMENTS
		30"	30" 157.5# LS	Conductor	0	60	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" thickness
x x x	xxx		20"	Fresh Water		445, 708, 805		15.6 ppg Class A	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438"
	X	26*	94# J-55	Pittsburgh Coal	526	536	AIR	40% Excess Yield = 1.1924 / CTS	joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi
Y	×			Surface Casing	0	950	1.2			pumping cement.	
x	X X X	1		Big Lime	1625	1741		Lead: 15.0 ppg / Class A / 30% Excess / Yield=1,2863	Bow Spring on first 2	Once casing is at setting depth. Circulate and	Intermediate casing = 0.
x	×	17.5"	13-3/8" 54.5# J-55 BTC	Big Injun	1741	1854	AIR	Tall: 15.6 ppg / Class A	joints then every third joint to 100' form	condition at TD. Circulate a minimum of one hole	wall thickness Burst=2730 psi
			1.10	1st Intermediate	0	2300	1	/ 30% Excess / Yield=1.18	surface	volume prior to pumping cement.	Const-Free bar
		-	-	Casing	-	1.200		CTS			
X	X			5th Sand	2599	3156			1		
×	XXX			Speechley Warren	3156	3770 4707					
			1.1.1.1	Java	4707	4/0/					
				Pipe Creek	4802	4889		5			
				Angola	4889	5471		-			
				Rhinestreet	5471	5792	1				
×	x			Cashaqua	5792	5864	1				
×	x	12.25"		Middlesex	5864	5887	AIR / KCL Sait Polymer / 9.0ppg SOBM				
				West River	5887	5948					
				Burkett	5948	5973		1			
				Tully LS Hamilton	5973	5997		Excess / Yield=1.1313	Bow Spring on first 8 joints then every third joint to 100' form surface	Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0,472 wall thickness Burst=9440 psi
				Marcellus	5997 6032	6032 6087					
x	×		9-5/8" 47# P-110 BTC	Onondaga	6087	6095					
X	x		P-HOBIC	Huntersville	6095	6309					
				Oriskany	6309	6421	0001				
			1	Helderburg	6421	6681	1				
				Bass Island	6681	6760					
				Salina G	6760	6960					
				Salina F	6960	7759					RECEIVED
				Lockport	7759	8081					of Oil and Gas
×	×			Rochester Packer Shell	8081 8385	8385 8492					or oir anu Gas
				Clinton	8492	8575	2				0 1 000
X	X			Medina	8575	8874				IVI A	Y 21 2018
				Queenston	8874	9431					1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
				2nd Intermediate	0	9000 TVD 9082 MD				WV Environ	Department of mental Protection
				Reedsville	9431	10049	1				
				Utica Point Pleasant	10049	10662					
0000				Target	10700	10702		Lead: 15.0 ppg / 35:65	Run 1 spiral centralizer	Once on bottom/TD with	Sector Sector
×	x		5-1/2*		1		1000	Class H / 20% Excess / Yield=1.1475	every 5 joints from the	casing, circulate at max allowable pump rate for at	Production casing = 0.3
		8.5" Curve and 8.5"	23#				10.5ppg- 14.5ppg	Tall: 15.6 ppg / Class H Acid Soluble / 20%	top of the curve to surface. Run 1 spiral	least 2x bottoms up, or until returns and pump pressures	wall thickness Burst=12640 psi
		Lateral	F-110 HC CDC HTQ	S. Carrier		-	SOBM	Excess / Yield=1 7669	centralizer every 3 joints from the 1st 5.5"	indicate the hole is clean.	Note:Actual centralize schedules may be chang
					-	1		CTS	long joint to the top of the curve.	Circulate a minimum of one hole volume prior to	due to hole conditions
									the curve.	pumping cement.	
x	X	x		X	¥.		N. S.	X	V	x	x
Contraction of the local division of the loc		TVD / 11499'			_	nented Long					TD @ +/-10700' TVD
122		140711499				10 HC CDC			+/-1649	1' ft Lateral	+/-27990' MD

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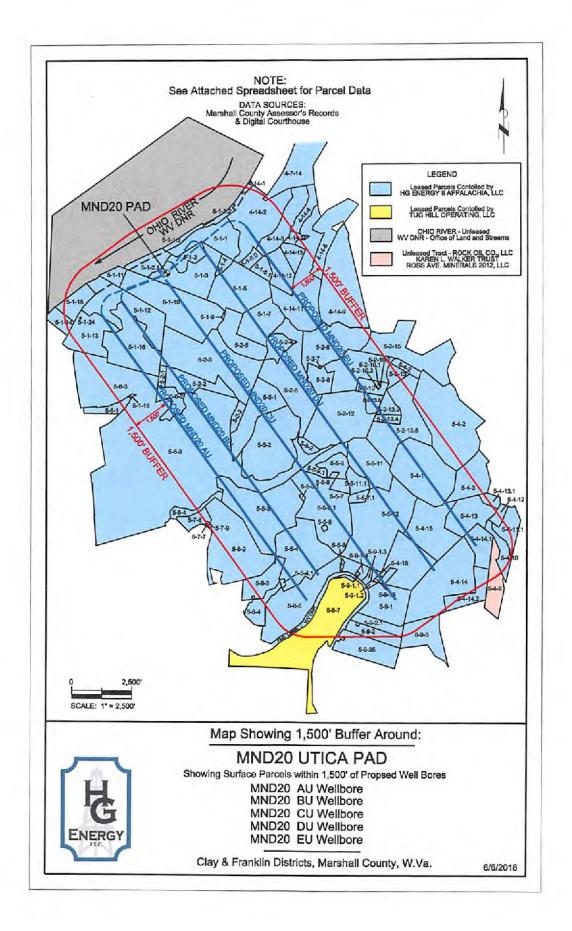
# 4705902014

### HG Energy II Appalachia, LLC MND20 Well Pad (AU,BU,CU,DU,EU) Cement Additives

Material Name	Material Type	Material Description Premium NE-1 is a	CAS #	%	CAS number
		portland cement with	Ingredient name Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8
		strength properties.	Magnesium oxide	1-5	1309-48-4 14808-60-7
Premium NE-1	Portland Cement	Carl Contractor Contractor	Crystalline silica: Quartz (SiO2)	0.1 - 1	14000-00-7
		Commonly called gel, it is			
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	Crystalline silica: Quartz (SiO2)	5-10	14008-00-7
entonite	Extender	water.			
		A powdered, flaked or pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
alcium Chloride	Accelerator	of strength development			
	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as a lost circulation material.	No hazardous ingredient		
ello Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Ingredient name	%	CAS number
		is very effective minimizing air	Tributyl phosphate	90 - 100	126-73-8
		entrapment and	Triently hunshingto	80-100	120-13-0
		preventing foaming			
		tendencies of latex			
	and the second second	systems.			
-13L	Foam Preventer				
		Used to retard cement	Ingredient name	%	CAS number
anulated Sugar	Retarder	returns at surface.	Sucrose	90 - 100	57-50-1
		A proprietary product			
		that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
C-1		son port that to a			
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss, rheology, and gas	No hazardous ingredient		
PA-170	Gas Migration	migration.	Real Provide Contraction Contraction		
		A synthetic pozzolan, (primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	Ingredient name	%	CAS number
		used to create	Crystalline silica: Quartz (SiO2)		
		lightweight cement	Crystalline silica: Quartz (StO2) Calcium oxide	5-10 1-5RECE	VED 14808-60-7
		slurries used as either a filler slurry or a sulfate		Office of Oi	VED 14808-60-7 Hand Gass-78-8
		resistant completion			2018
Int. a ch		cement.		FEB 1	6 2010
z (Fly Ash)	Base				tmont of
		A low temperature		WV Depa	artment of tal Protection
		retarder used in a wide	Ingredient name	Environmen	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend the slurry thickening time.	L		
	Retarder	are storry unckening time.			
			Ingredient name	%	CAS number
			2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trada pagent
		and the second second second	D-Glucopyrandse, oligomeric, C10-16-alkyl glycosides	5 - 10	Trade secret. 110615-47-9
		Used to water wet carine	o chicopyrenuse, orgoniteric, o ro- ro-anyr divousides	0 - 10	110010-41-21
		Used to water wet casing and formation to facilitate	Alkylarysufonate amine salt Polyoxyalkylenes	1-5	Trade secret. Trade secret.

HG Energy II Appalachia, LLC
List of Frac Additives by Chemical Name and CAS #
MND20 Well Pad (AU,BU,CU,DU,EU)

Chemical Name	CAS #	Multiple CAS #'s	
Pro Shale Slik 405	Mixture	68551-12-2	
		7647-14-5	
		12125-02-9	
		64742-47-8	
Pro Hib II	Mixture	68412-54-4	
		68607-28-3	
		107-21-1	
		111-76-2	
		67-56-1	
		107-19-7	
Silica Sand and Ground Sand	Mixture	14808-60-7	
		1344-28-1	
		1309-37-1	
		13463-67-7	
Hydrochloric Acid 22 DEG BE	7647-01-0		
PROGEL - 4.5	64742-96-7		
BIO CLEAR 2000	Mixture	25322-68-3	
		10222-01-2	
SCALE CLEAR SI 112	107-21-1		
		RECEIVED	Gas
PROBREAK 4	Mixture	57-50-1 01103 1 107-21-1 FEB 1 6 2	
		WV-Departme Environmental P	
Sulfamic Acid	5329-14-6	Environmental P	rotection
PRO - Flow - 102-N	Mixture	67-63-0	
		68439-45-2	
		2687-96-9	
PROGEL - 4	9000-30-0		



# 4705902014

My Commission Expires July 31, 2022

WW-9	
(4/16)	API Number 47
	Operator's Well No. MND20 DU
	WEST VIRGINIA IRONMENTAL PROTECTION
	OF OIL AND GAS
FLUIDS/ CUTTINGS DISP	OSAL & RECLAMATION PLAN
Operator Name HG Energy II Appalachia, LLC	OP Code _494519932
Watershed (HUC 10) Short Creek - Ohio River (HUC 10)	Quadrangle Powhatan Point
Do you anticipate using more than 5,000 bbls of water to comp Will a pit be used? Yes No	lete the proposed well work? Yes 🖌 No
If so, please describe anticipated pit waste:NA	
Will a synthetic liner be used in the pit? Yes	No 🖌 If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permi	t Number )
Reuse (at API Number_TBD - At next a	
Off Site Disposal (Supply form WW) Other (Explain	V-9 for disposal location)
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizont	al)? Air, freshwater, oil based, etc. Air and freshwater
-If oil based, what type? Synthetic, petroleum, etc. N	A
Additives to be used in drilling medium?Water, soap, KCI, barite	e
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. Approved landfill
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust)_NA
-Landfill or offsite name/permit number? See Attached	I List

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

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

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

Company Official Signature Diane White	RECEIVED Office of Cil and Gas
Company Official (Typed Name) Diane White	FEB 1 6 2018
Company Official Title Accountant	WV Department of Environmental Protection
Subscribed and sworn before me this 26th day of January	, 20 18
Carriedy A. Bordmen My commission expires 7 (31/2022	Notary Public OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSING 29420485

# 4705902014

# Operator's Well No. MND20 DU

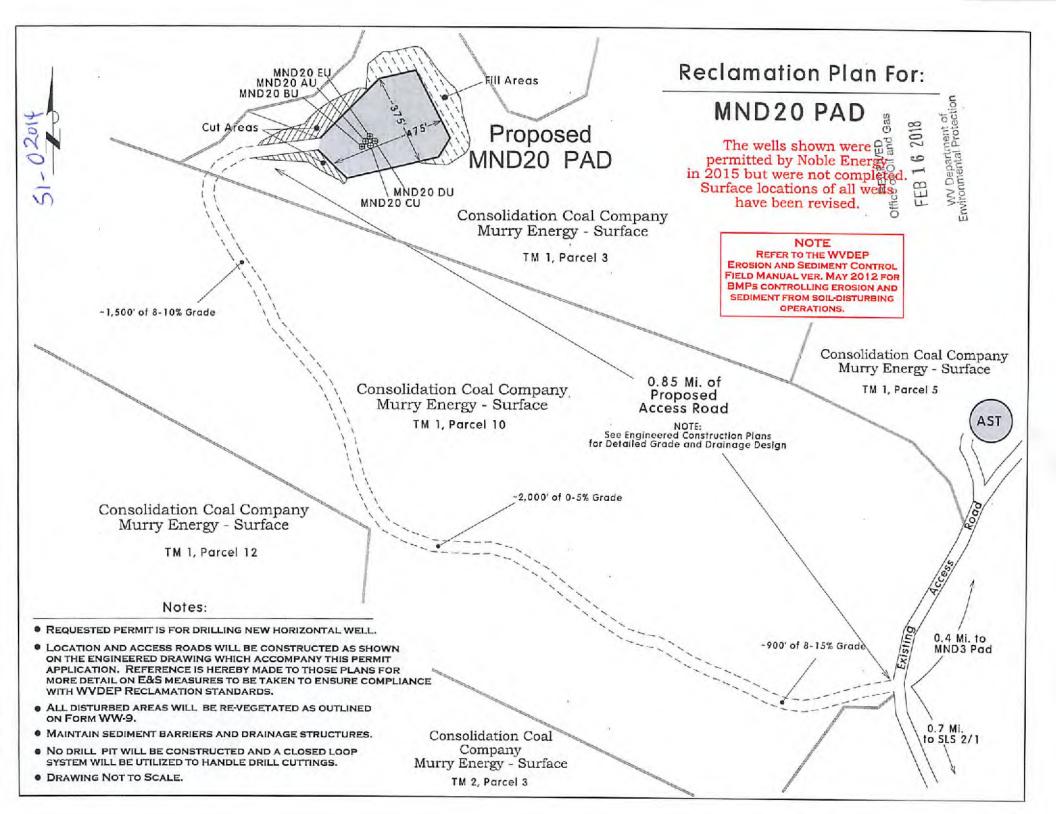
oposed Revegetation Treat	tment: Acres Disturbed	17.39	Prevegetation pH	I
Lime	<u>3</u> Tons/acre or to con	rrect to pH 6.5		
Fertilizer type <u>10-</u>	20-20	+		
Fertilizer amount		500 lbs/acre		
Mulch_ Hay	:	2 <sub>Tons/acre</sub>		
		Seed Mixtures		
Te	emporary	Seed Mixtures	Perma	nent
Te Seed Type	emporary Ibs/acre	<u>Seed Mixtures</u>	<b>Perm</b> a Seed Type	nent Ibs/acre
Seed Type	lbs/acre	Tall	Seed Type	lbs/acre
Seed Type all Fescue	lbs/acre 40	Tall	Seed Type Fescue	Ibs/acre 40

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Juic Timber		
Comments:		
		BECEIVED Office of Oil and Gas
Title: Oil & Car Jugor too	Date: 7/5/18	FEB 16 2018
Field Reviewed?	/ / ) No	WV Department of Environmental Protection



# **Cuttings Disposal/Site Water**

### Cuttings -Haul off Company:

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

Wáste 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

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

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

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

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

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

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

06/29/2018

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WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 804-455-3800

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

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

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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

**Disposal Locations:** 

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

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

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

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

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

Equipment Transport 1 Tyler Court Carlisie, PA 17015

Myers Well Service, ..... 2001 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 (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 713-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 RECEIVED Office of Oil and Gas

FEB 1 6 2018

WV Department of Environmental Protection

51-02014

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 Oilfield Services, Inc. 2939 Hubbard Road Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652<sup>,</sup> OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Con...;any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

· · · · . .....

Chapin #7 UIC (SWIW #7) Permit # 34-083-2-4137-00-00 Elkhead Gas& Oli Company 12163 Marne Rd. NE Newark, OH 43055 740-763-3966



# FEB 16 2018

WV Department of Environmental Protection WW-6A1 (5/13)

## 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 \*\*\*

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

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

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replace to the permits/approvals that may be necessary and further affirms that all provided mental Protection permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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

Page 1 of 6

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MAY 21 2018

# HG Energy II Appalachia, LLC MND20 DU Lease Chains

05-0001-0003-0000-0000       Belinda Eddy fka Belinda Page Hoover       CNX Gas Company, LLC         Dara Marner and Douglas D. Marner       CNX Gas Company, LLC         Jessica McNabb fka Jesica Faye Hoover       CNX Gas Company, LLC         Cheryl Sullivan, a single woman       CNX Gas Company, LLC         George H. Wells and Nancy Eklund Wells       CNX Gas Company, LLC         William C.M. Wilson and Hiram C. Wilson       CNX Gas Company, LLC         Wayland W. Bowser       CNX Gas Company, LLC         Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact       CNX Gas Company, LLC         CNX Gas Company, LLC       Noble Energy, Inc.         Moble Energy, Inc.       APPALACHIA, LLC         Moble Energy, Inc.       HG ENERGY II         APPALACHIA, LLC       HG ENERGY II         Noble Energy, Inc.       APPALACHIA, LLC         Moble Marcellus, LP       Anacapa Holdings, LLC         Noble Energy, Inc.       Noble Energy, Inc.	Not less than 1/8 Not less than 1/8 Fee Fee Fee Fee Not less than 1/8 Not less than	794 794 794 794 800 794 831 752 39 39 776 776 776 781	539
Dara Marner and Douglas D. Marner       CNX Gas Company, LLC         Jessica McNabb fka Jesica Faye Hoover       CNX Gas Company, LLC         Cheryl Sullivan, a single woman       CNX Gas Company, LLC         George H. Wells and Nancy Eklund Wells       CNX Gas Company, LLC         William C.M. Wilson and Hiram C. Wilson       CNX Gas Company, LLC         Wayland W. Bowser       CNX Gas Company, LLC         Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact       CNX Gas Company, LLC         Noble Energy, Inc.       APPALACHIA, LLC         Moble Energy, Inc.       APPALACHIA, LLC         J       05-0001-0002-0001-0000       Ruth Ann Ferris       CNX Gas Company, LLC         Noble Energy, Inc.       APPALACHIA, LLC       HG ENERGY II         APPALACHIA, LLC       Larry F. Jefferson       CNX Gas Company, LLC         Noble Marcellus, LP       Anacapa Holdings, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Fee Fee Fee Not less than 1/8 Not less than 1/8	794 794 794 800 794 831 752 39 39 776 776	43 49 46 58 626 52 148 66 1 1 1 535 539
Jessica McNabb fka Jesica Faye Hoover       CNX Gas Company, LLC         Cheryl Sullivan, a single woman       CNX Gas Company, LLC         George H. Wells and Nancy Eklund Wells       CNX Gas Company, LLC         William C.M. Wilson and Hiram C. Wilson       CNX Gas Company, LLC         Wayland W. Bowser       CNX Gas Company, LLC         Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact       CNX Gas Company, LLC         Noble Energy, Inc.       MSPALACHIA, LLC         Moble Energy, Inc.       HG ENERGY II         APPALACHIA, LLC       HG ENERGY II         O5-0001-0010-0000-0000       Ruth Ann Ferris       CNX Gas Company, LLC         Noble Marcellus, LP       Anacapa Holdings, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Fee Fee Fee Not less than 1/8 Not less than 1/8	794 794 800 794 831 752 39 39 776 776	49 46 58 626 52 148 66 1 1 535 539
Cheryl Sullivan, a single woman CNX Gas Company, LLC George H. Wells and Nancy Eklund Wells CNX Gas Company, LLC William C.M. Wilson and Hiram C. Wilson CNX Gas Company, LLC Wayland W. Bowser Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC Larry F. Jefferson Noble Marcellus, LP Anacapa Holdings, LLC	Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Fee Fee Fee Not less than 1/8 Not less than 1/8	794 794 800 794 831 752 39 39 776 776	46 58 626 52 148 66 1 1 535 539
George H. Wells and Nancy Eklund Wells       CNX Gas Company, LLC         William C.M. Wilson and Hiram C. Wilson       CNX Gas Company, LLC         Wayland W. Bowser       CNX Gas Company, LLC         Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact       CNX Gas Company, LLC         CNX Gas Company, LLC       Noble Energy, Inc.         Noble Energy, Inc.       APPALACHIA, LLC         HG ENERGY II       Noble Energy, Inc.         Noble Energy, Inc.       APPALACHIA, LLC         H)       O5-0001-0002-0001-0000         Ruth Ann Ferris       CNX Gas Company, LLC         Larry F. Jefferson       CNX Gas Company, LLC         Noble Marcellus, LP       Anacapa Holdings, LLC	1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Fee Fee Fee Fee Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	794 800 794 831 752 39 39 776 776	58 626 52 148 66 1 1 535 539
William C.M. Wilson and Hiram C. Wilson       CNX Gas Company, LLC         Wayland W. Bowser       CNX Gas Company, LLC         Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact       CNX Gas Company, LLC         Noble Energy, Inc.       Noble Energy, Inc.         HG ENERGY II       Noble Energy, Inc.         Noble Energy, Inc.       HG ENERGY II         O5-0001-0002-0001-0000       Noble Energy, Inc.         Noble Energy, Inc.       APPALACHIA, LLC         Image: CNX Gas Company, LLC       HG ENERGY II         Noble Energy, Inc.       APPALACHIA, LLC         Image: CNX Gas Company, LLC       HG ENERGY II         Image: CNX Gas Company, LLC       APPALACHIA, LLC         Image: CNX Gas Company, LLC       Larry F. Jefferson         Noble Marcellus, LP       Anacapa Holdings, LLC	1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8 Fee Fee Fee Not less than 1/8 Not less than 1/8 Not less than 1/8 Not less than 1/8	800 794 831 752 39 39 776 776	526 52 148 56 1 1 535 539
Wayland W. Bowser     CNX Gas Company, LLC       Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact     CNX Gas Company, LLC       CNX Gas Company, LLC     Noble Energy, Inc.       HG ENERGY II     Noble Energy, Inc.       Noble Energy, Inc.     HG ENERGY II       Noble Energy, Inc.     APPALACHIA, LLC       Noble Energy, Inc.     CNX Gas Company, LLC       I)     05-0001-0002-0001-0000     Noble Energy, Inc.       I)     05-0001-0010-0000-0000     Ruth Ann Ferris       CNX Gas Company, LLC     Larry F. Jefferson     CNX Gas Company, LLC       Noble Marcellus, LP     Anacapa Holdings, LLC	1/8 Not less than 1/8 Not less than 1/8 Fee Fee Fee Not less than 1/8 Not less than 1/8 Not less than 1/8	794 831 752 39 39 776 776	52 148 56 1 1 535 539
Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact     CNX Gas Company, LLC       CNX Gas Company, LLC     Noble Energy, Inc.       HG ENERGY II     Noble Energy, Inc.       Mobile Energy, Inc.     HG ENERGY II       HG ENERGY II     Noble Energy, Inc.       HG ENERGY II     APPALACHIA, LLC       Mobile Energy, Inc.     HG ENERGY II       Mobile Energy, Inc.     APPALACHIA, LLC       Mobile Energy, Inc.     CNX Gas Company, LLC       Mobile Energy, Inc.     CNX Gas Company, LLC       Mobile Energy, Inc.     APPALACHIA, LLC	1/8 Not less than 1/8 Fee Fee Not less than 1/8 Not less than 1/8 Not less than 1/8	831 752 39 39 776 776	148 66 1 1 535 539
Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact     CNX Gas Company, LLC       CNX Gas Company, LLC     Noble Energy, Inc.       HG ENERGY II     Noble Energy, Inc.       Mobile Energy, Inc.     HG ENERGY II       HG ENERGY II     Noble Energy, Inc.       HG ENERGY II     APPALACHIA, LLC       Mobile Energy, Inc.     HG ENERGY II       Mobile Energy, Inc.     APPALACHIA, LLC       Mobile Energy, Inc.     CNX Gas Company, LLC       Mobile Energy, Inc.     CNX Gas Company, LLC       Mobile Energy, Inc.     APPALACHIA, LLC	Not less than 1/8 Fee Fee Not less than 1/8 Not less than 1/8 Not less than 1/8	831 752 39 39 776 776	148 66 1 1 535 539
Her Attorney in Fact       CNX Gas Company, LLC         Noble Energy, Inc.       Noble Energy, Inc.         HG ENERGY II       Noble Energy, Inc.         HG ENERGY II       Noble Energy, Inc.         HG ENERGY II       APPALACHIA, LLC         J       D5-0001-0002-0001-0000       Noble Energy, Inc.         APPALACHIA, LLC       HG ENERGY II         Larry F. Jefferson       CNX Gas Company, LLC         Noble Marcellus, LP       Anacapa Holdings, LLC	1/8 Fee Fee Not less than 1/8 Not less than 1/8 Not less than 1/8	752 39 39 776 776	66 1 1 535 539
CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II Noble Energy, Inc. APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC O5-0001-0002-0001-0000 Noble Energy, Inc. APPALACHIA, LLC O5-0001-0010-0000-0000 Ruth Ann Ferris CNX Gas Company, LLC Larry F. Jefferson CNX Gas Company, LLC Noble Marcellus, LP Anacapa Holdings, LLC	Fee Fee Not less than 1/8 Not less than 1/8 Not less than 1/8	752 39 39 776 776	66 1 1 535 539
Noble Energy, Inc.     APPALACHIA, LLC       )     05-0001-0002-0001-0000     Noble Energy, Inc.     HG ENERGY II       )     05-0001-0010-0000-0000     Ruth Ann Ferris     CNX Gas Company, LLC       )     Larry F. Jefferson     CNX Gas Company, LLC       Noble Marcellus, LP     Anacapa Holdings, LLC	Fee Not less than 1/8 Not less than 1/8 Not less than 1/8	39 776 776	1 535 539
HG ENERGY II O5-0001-0002-0001-0000 Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC O5-0001-0010-0000-0000 Ruth Ann Ferris Larry F. Jefferson Noble Marcellus, LP Anacapa Holdings, LLC	Fee Not less than 1/8 Not less than 1/8 Not less than 1/8	39 776 776	1 535 539
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Larry F. Jefferson CNX Gas Company, LLC Noble Marcellus, LP Anacapa Holdings, LLC	1/8 Not less than 1/8 Not less than 1/8	776	539
Noble Marcellus, LP Anacapa Holdings, LLC	1/8 Not less than 1/8		1.5.5
	1/8	781	267
Anacana Holdings LLC Noble Energy Jac			20/
	1/8	28	275
Consolidation Coal Company CNX Gas Company, LLC	Fee	646	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CNX Gas Company, LLC Noble Energy, Inc.	Fee	752	66
Noble Energy, Inc. APPALACHIA, LLC	Fee	39	1
HG ENERGY II	ree	.35	- 1
	Fee	39	1
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NOBLE ENERGY INC APPALACHIA, LLC		39	1
) 05-0001-0002-0000-0000 CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II	Fee	752	66
Noble Energy, Inc. APPALACHIA, LLC	Fee	39	1
Noble Energy, Inc.         All BECINE, ECC           ()         05-0001-0004-0000-0000         CNX Gas Company, LLC         Noble Energy, Inc.           HG ENERGY II         HG ENERGY II         HG ENERGY II	Fee	752	
Noble Energy, Inc. APPALACHIA, LLC	Fee	39	1
	Not less than	44	-
) 🗸 05-0001-0005-0000-0000 Howard T. Conner CNX Gas Company, LLC	1/8 Not less than	790	0 32
Mary L. Whittington CNX Gas Company, LLC	1/8 Not less than	79;	2 398
RECEIVED Ruth Ann Ferris CNX Gas Company, LLC Office of Oil and Gas	1/8 Not less than	789	9 556
MAY 2.1 2010	1/8 Not less than	790	0 29
WV D-	1/8 Not less than	794	
	1/8 Not less than	793	1.1
Belinda Eddy fka Belinda Page Hoover CNX Gas Company, LLC	1/8 Not less than	794	1.00
Sarah Knabenshue, married CNX Gas Company, LLC	1/8	U	6/29/2

						51-
				Not less than		
		Dara Marner and Douglas D. Marner	CNX Gas Company, LLC	1/8 Not less than	794	43
		Jessica McNabb fka Jessica Faye Hoover	CNX Gas Company, LLC	1/8 Not less than	794	49
		George H. Wells and Nancy Eklund Wells	CNX Gas Company, LLC	1/8 Not less than	794	58
		William C.M. Wilson and Hiram C. Wilson	CNX Gas Company, LLC	1/8 Not less than	800	626
		Wayland W. Bowser	CNX Gas Company, LLC	1/8	794	52
		Consolidation Coal Company	CNX Gas Company, LLC		646	493
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II		752	66
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
)	. 05-0001-0006-0000-0000	Susan Kay Flowers & Robert L. Flowers	Noble Energy, Inc.	Not less than 1/8 Not less than	796	152
		Carol Lynn Gill	Noble Energy, Inc.	1/8 Not less than	7 <del>9</del> 6	150
		William Gary & Nancy L. Messner	Noble Energy, Inc.	1/8 Not less than	7 <del>9</del> 6	146
		George Michael & Pamela S. Messner	Noble Energy, Inc.	1/8 Not less than	796	449
		Ethel Marie Malson	Noble Energy, Inc.	1/8 Not less than	797	623
		Martha Jane Brown	Noble Energy, Inc.	1/8	796	148
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II		752	66
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
				Not less than		
.0)	05-0001-0006-0001-0000	Susan Kay Flowers & Robert L. Flowers	Noble Energy, Inc.	1/8 Not less than	796	152
		Carol Lynn Gill	Noble Energy, Inc.	1/8 Not less than	796	150
		William Gary & Nancy L. Messner	Noble Energy, Inc.	1/8 Not less than	796	146
		George Michael & Pamela S. Messner	Noble Energy, Inc.	1/8 Not less than	796	449
		Ethel Marie Malson	Noble Energy, Inc.	1/8 Not less than	797	623
		Martha Jane Brown	Noble Energy, Inc.	1/8	796	148
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II		752	66
		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
		Consolidation Coal Company, et al	CNX Gas Company, LLC	Not less than		
.1)	04-0014-0012-0000-0000			1/8	646	493
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II	Not less than	752	66
		NOBLE ENERGY INC	APPALACHIA, LLC	1/8	39	1
12)	05-0002-0003-0000-0000	NOBLE ENERGY INC	CNX Gas Company, LLC	Fee	646	493
· /			HG ENERGY II			
<u></u>	05-0002-0005-0000-0000,	NOBLE ENERGY INC	APPALACHIA, LLC HG ENERGY II	Fee	39	1
14) 🗸	05-0002-0004-0000-0000	NOBLE ENERGY INC	APPALACHIA, LLC	Fee	39	1
15)	04-0014-0011-0000-0000	NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	Fee	39	1
1		John Alfred Yutzey and Susan Yutzey, both		Not less than		
16) 🗸	05-0001-0007-0000-0000	individually and as husband and wife	Noble Energy, Inc.	1/8	781	19
1		Glen A. Yutzey aka Glen Albert Yutzey, and Mary L. Yutzey, both individually and as		Not less than		
	RECEIVED	husband and wife	Noble Energy, Inc.	1/8	778	264
	Office of Oil and Gas	Yolanda Katherine Anderson and Raymond H. Anderson, both individually and as wife	<b>U</b> , <b>P</b>	Not less than	_	- •
		II. Anderson, both individually and as wire				
	MAY <b>21</b> 2018	and husband	Noble Energy, Inc.	1/8 Not less than	778	268
	MAY <b>21</b> 2018 WV Department of		Noble Energy, Inc. Noble Energy, Inc.	1/8 Not less than 1/8		268 2 <b>69</b>

					51	- 07
				Not less than	752	66
		CNX Gas Company, LLC	Noble Energy, Inc. HG ENERGY II	1/8	39	1
		NOBLE ENERGY INC	APPALACHIA, LLC	Fee		
4 7 \	05-0006-0003-0000-0000, 05-0005-0001-0000-0000	Consolidation Coal Company	CNX Gas Company, LLC	Fee	646	493
17)	03-0003-0001-0000-0000	CNX Gas Company, LLC	Noble Energy, Inc.	Fee	752	66
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	Fee	39	1
	05-0002-0006-0000-0000,		,	Not less than		
L8)	05-0002-0007-0000-0000,	Robert W. Gray, Jr., et al	Chevron U.S.A. Inc.	1/8	772	9
.07		Chevron U.S.A. Inc.	Noble Energy, Inc. HG ENERGY II		34	502
		Noble Energy, Inc.	APPALACHIA, LLC		39	1
	05-0002-0008-0000-0000,			Not less than		
.9)	05-0002-0008-0001-0000	Thomas K. Barnhart	TriEnergy Holdings	1/8	705	490
		TriEnergy Holdings	Chevron USA INC		28	239
			HG ENERGY II		41	154
		Chevron USA INC	APPALACHIA, LLC	Not less than	41	154
201	05 0003 0000 0000 0000	Andrew M. Fasouletos, et ux	Noble Energy Inc.	1/8	802	283
20)	05-0002-0009-0000-0000		Noble Energy, Inc.	Not less than	002	203
		Michael Andrew Fasouletos	Noble Energy, Inc.	1/8	802	280
		Tena Marie Sticklin		Not less than		
			Noble Energy, Inc.	1/8 Not less than	802	277
		All the above leases from NOBLE ENERGY INC		NOT less than 1/8	39	1
,			APPALACHIA, LLC	1/8 Not less than	22	
	05-0002-00012-0000-0000	Wesbanco Bank, Trustee John T. Gallaher EST	Noble Energy, Inc.	Not less than 1/8	831	58
<sup>(1)</sup> ~	~J-~U~Z~~UUUIZ~UUUU~UUUU		TODIC FIELDY, IIIC.	Not less than	552	~
		James D. Potts and Nancy C. Potts	Noble Energy Inc.	1/8	845	164
		NOBLE ENERGY INC	CNX Gas Company, LLC	-	31	59
		CNX Gas Company, LLC	Noble Energy INC		37	169
			HG ENERGY II			
-	·····	NOBLE ENERGY INC	APPALACHIA, LLC		39	1
-1				Not less than		
2)	05-0005-0002-0000-0000	Margaret Games	CNX Gas Company, LLC	1/8 Not less than	763	441
		Elizabeth Patterson	CNX Gas Company, LLC	1/8	763	437
				Not less than		
		Charles J. Wiesner	CNX Gas Company, LLC	1/8	763	429
				Not less than		
	RECEIVED Office of Oil and Gas	John Wiesner	CNX Gas Company, LLC	1/8	763	433
				Not less than		
	21 2018	Kenneth Schmitt	CNX Gas Company, LLC	1/8 Not loss than	763	421
	MAY 21 2018	Mary Ellen Sedon	CNX Gas Company, LLC	Not less than 1/8	763	417
		Alfred Kaczorowski, Jr., & Sharon M.	Civin Gas Company, LLC	1/0 Not less than	105	***
	WV Department of WV Departmental Protection	Kaczorowski, his wife	CNX Gas Company, LLC	1/8	763	425
	WV Department of Environmental Protection	CNX Gas Company, LLC	Noble Energy, Inc.	-	752	66
	Em.		HG ENERGY II			
i.		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
23)	05-0005-0009-0001-0000	Consolidation Coal Company	CNX Gas Company, LLC	Fee	646	493
•		CNX Gas Company, LLC	Noble Energy, Inc.	Fee	752	66
		NOBLE ENERGY INC		Fee	39	1
		AEP Generation Resources Inc. and Kentucky	APPALACHIA, LLC	Not less than	33	
4)	05-0005-0011-0000-0000	Power Company	Noble Energy, Inc.	Not less than 1/8	829	157
		·	HG ENERGY II	-, -	023	-5'
, <b>"</b> , √		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
·**				Not less than		
, <b>,,</b> , √		AEP Generation Resources Inc. and Kentucky				
.1	05-0002-0013-0001-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	1/8	829	157
	05-0002-0013-0001-0000	Power Company	HG ENERGY II	1/8	829	157
	05-0002-0013-0001-0000	Power Company NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		829 39	157 1
25)		Power Company NOBLE ENERGY INC AEP Generation Resources Inc. and Kentucky	HG ENERGY II APPALACHIA, LLC	Not less than	39	1
	05-0002-0013-0001-0000 05-0005-0009-0000-0000	Power Company NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC		39 829	157 1 157 /29/2

51-02014 Not less than AEP Generation Resources Inc. and Kentucky 157 1/8 829 Power Company Noble Energy, Inc. 05-0005-0006-0001-0000 HG ENERGY II 39 APPALACHIA, LLC NOBLE ENERGY INC Not less than AEP Generation Resources Inc. and Kentucky 1/8 829 157 Noble Energy, Inc. Power Company 05-0005-0008-0000-0000 HG ENERGY II 39 APPALACHIA, LLC NOBLE ENERGY INC Not less than AEP Generation Resources Inc. and 157 1/8 829 Noble Energy, Inc. Kentucky Power Company 05-0002-0013-0005-0000 HG ENERGY II APPALACHIA, LLC 39 1 Noble Energy, Inc. Not less than AEP Generation Resources Inc. and Kentucky 829 157 1/8 Noble Energy, Inc. 05-0005-0007-0000-0000 Power Company HG ENERGY II 39 APPALACHIA, LLC NOBLE ENERGY INC AEP Generation Resources Inc. and Kentucky Not less than 829 157 Noble Energy, Inc. 1/8 05-0005-0011-0001-0000 **Power Company** HG ENERGY II 39 APPALACHIA, LLC NOBLE ENERGY INC

1/8

Not less than 1/8

Not less than

CHEVRON USA INC

CHEVRON USA INC

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			NODEL ENERGY INC	AIT ALACITIA, LLC			
1			AEP Generation Resources Inc. and Kentucky		Not less than		
32)		05-0005-0006-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	157
			NOBLE ENERGY INC	APPALACHIA, LLC		39	1
	1	The second second second	AEP Generation Resources Inc. and Kentucky		Not less than		
33)	1	05-0005-0012-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	157
			NOBLE ENERGY INC	APPALACHIA, LLC		39	1
			AEP Generation Resources Inc. and Kentucky		Not less than		
34)		05-0004-0001-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	157
			NOBLE ENERGY INC	APPALACHIA, LLC		39	1
	1		AEP Generation Resources Inc. and Kentucky	0	Not less than		
35)	~	05-0004-0015-0000-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	157
			NOBLE ENERGY INC	APPALACHIA, LLC		39	1
					Not less than		1
36)		05-0004-0017-0000-0000	Terry Holman	TriEnergy Holdings	1/8	721	557
			TriEnergy Holdings	Chevron USA INC HG ENERGY II		28	239
1			Chevron USA INC	APPALACHIA, LLC		41	154
1					Not less than		
37)		05-0009-0001-0000-0000	Jessi Gladys Ruckman Et Al	Noble Energy, Inc. HG ENERGY II	1/8	730	646
	1		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
	/	I want the rest of the rest			Not less than	1.5	
38)	V	05-0004-0016-0000-0000	Terry Holman	TriEnergy Holdings	1/8	721	557
			TriEnergy Holdings	Chevron USA INC HG ENERGY II		28	239
			Chevron USA INC	APPALACHIA, LLC		41	154
1	~~~~~	1			Not less than	1000	
39)		05-0004-0013-0000-0000	MCCLINTOCK DALE ET UX	CHEVRON USA INC HG ENERGY II	1/8	773	615
			CHEVRON USA INC	APPALACHIA, LLC		41	154
		and the second second second second	MILLER CHARLES W	CHEVRON USA INC	Not less than		
40)	V	05-0004-0014-0000-0000			1/8	853	59
			PARSONS PAUL ET UX	CHEVRON USA INC	Not less than		1.5
					1/8	853	430
			RUSSELL SHARON LYN	CHEVRON USA INC	Not less than		
		RECEIVED			1/8	853	422
		Office of Oil and Gas	HUFF TIMOTHY ET UX	CHEVRON USA INC	Not less than		
		- not of on and das			1/8	846	47
		MAY 21 2018	ARNOLD LLOYD C ET UX	CHEVRON USA INC	Not less than		20
		MAI AI ZUIO		And the second state	1/8	846	39

**CRONIN MARY JO** WV Department of KURPIL RICHARD ET UX Environmental Protection

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#### 51-02014 Not less than CHEVRON USA INC CLIFTON CLARA MAE 853 426 1/8 Not less than EDWARDS GEORGE ET UX CHEVRON USA INC 418 853 1/8 **KYLE DONNA FAE** CHEVRON USA INC Not less than 449 853 1/8 CHEVRON USA INC Not less than CONNER JUDITH MAY 1/8 853 445 Not less than AB RESOURCES LLC SCHEIBELHOOD PAUL ET AL 695 629 1/8 484 NPAR LLC 25 AB RESOURCES LLC 756 332 **Chevron USA INC** NPAR LLC HG ENERGY II 41 154 **Chevron USA INC** APPALACHIA, LLC Not less than AB RESOURCES LLC SLOUGH ANITA L ET AL 696 7 1/8 25 484 AB RESOURCES LLC NPAR LLC Chevron USA INC 756 332 NPAR LLC HG ENERGY II APPALACHIA, LLC 154 41 **Chevron USA INC** HG ENERGY II

APPALACHIA, LLC

**NOBLE ENERGY INC** 

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RECEIVED Office of Oil and Gas MAY 21 2018 WV Department of Environmental Protection

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west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57<sup>th</sup> Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

June 25, 2018

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit - API #47-051-02014

COMPANY: HG Energy II Appalachia, LLC

FARM: HG Energy II Appalachia, LLC MND 20 DU

COUNTY: Marshall DISTRICT: Franklin QUAD: Powhatan Point 7 1/2'

The deep well review of the application for the above company is <u>Approved to drill to Point Pleasant</u> for completion.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

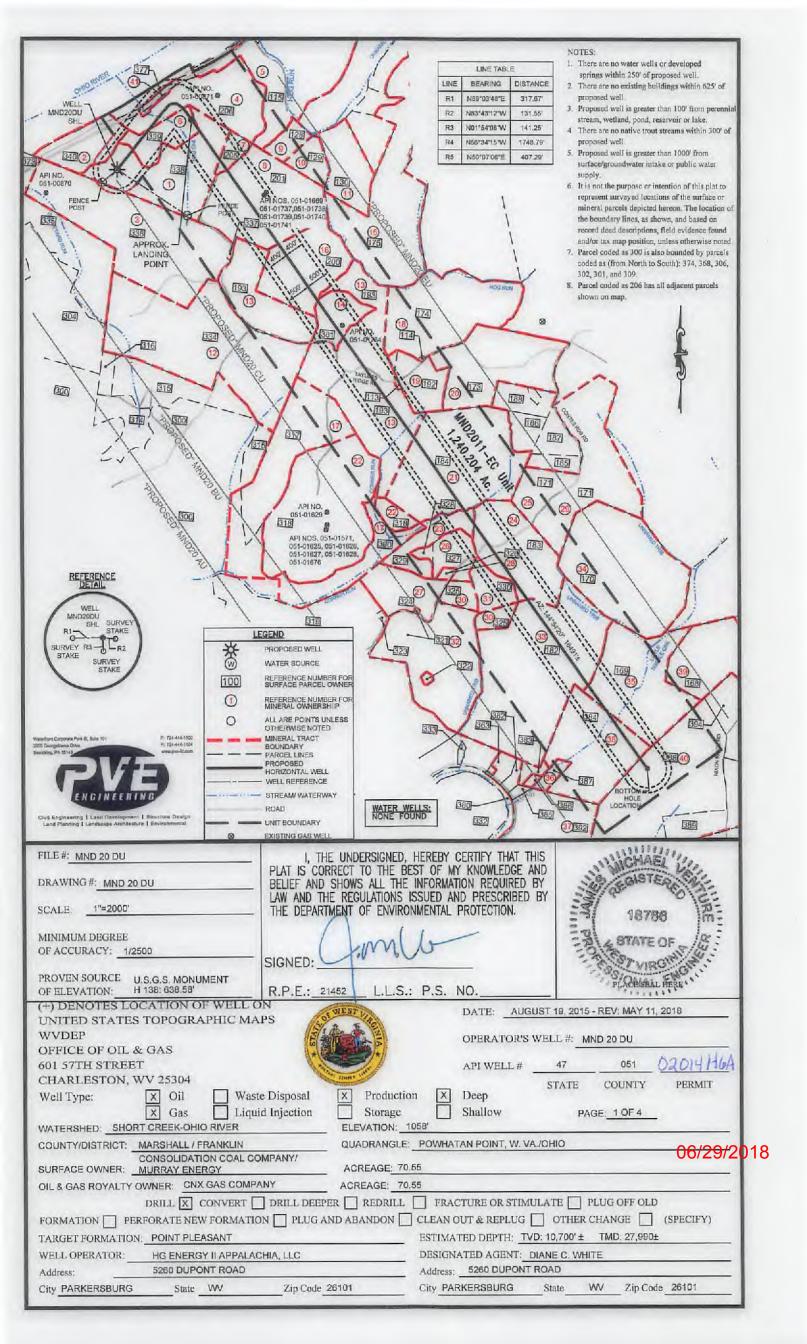
- 1. Comments to Notice of Deviation filed? No.
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: none
- 4. Provided a plat showing that the proposed location is a distance of <u>400+</u> feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

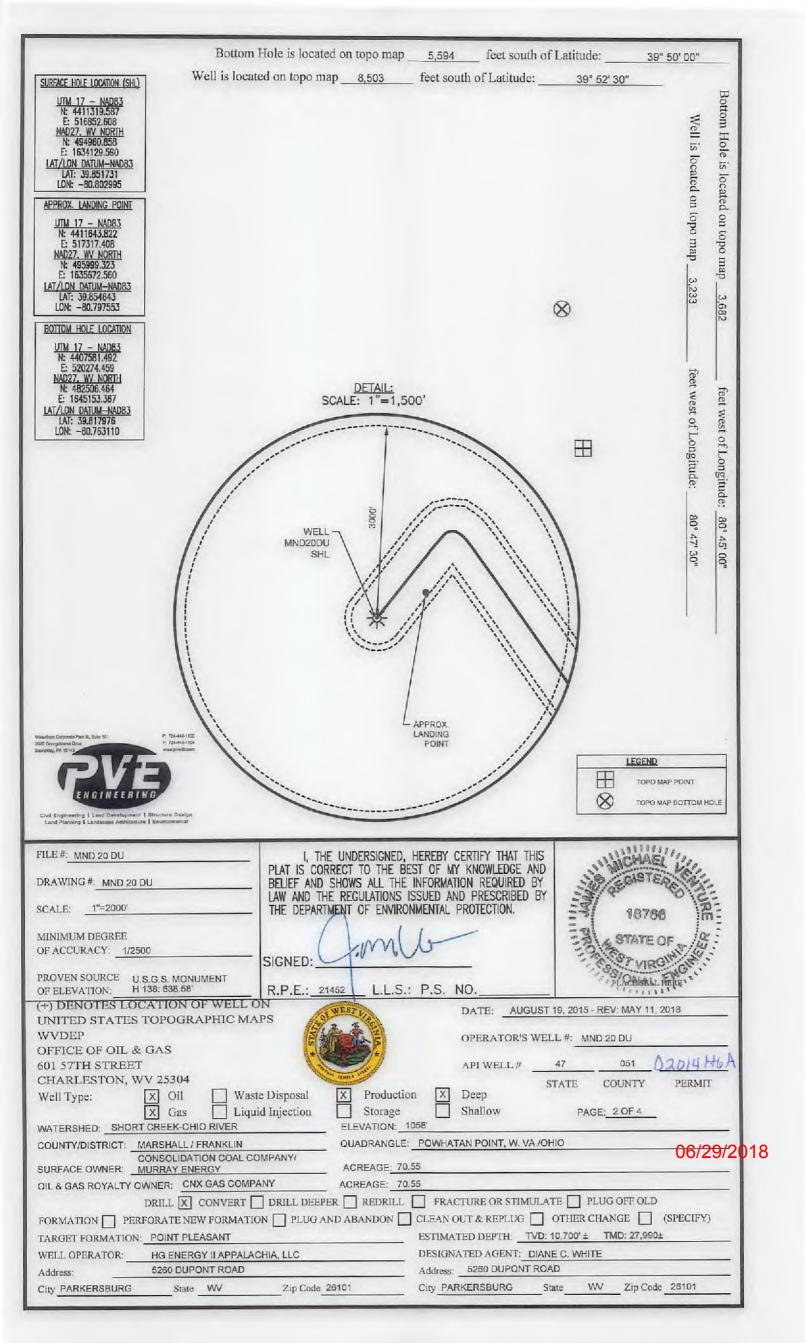
Sincerely,

Susan Rose

Administrator

Promoting a healthy environment.





169       AEP GENERATION RESOURCES, INC.         170       AEP GENERATION RESOURCES, INC.         173       FASOULETOS ANDREW M. ET, AL.         174       GRAY ROBERT WILLIAM - LIFE         175       CONSOLIDATION COAL COMPANY, ET AL.         184       AEP GENERATION RESOURCES, INC.         185       AEP GENERATION RESOURCES, INC.         186       AEP GENERATION RESOURCES, INC.         187       CONSOLIDATION COAL COMPANY, ET AL.         188       POTTS JAMES D. ET, UX.         189       POTTS JAMES D. ET, UX.         180       POTTS JAMES D. ET, UX.         181       POTTS JAMES D. ET, UX.         182       BARNHART THOMAS K. ET UX.         183       CONSOLIDATION COAL COMPANY         2001       CONSOLIDATION COAL COMPANY         2010       CONSOLIDATION COAL COMPANY         2021       CONSOLIDATION COAL COMPANY         2032       CONSOLIDATION COAL COMPANY         2035	TAX MAP NO. 05-001-0006-0001-0000 TAX MAP NO. 05-0014-0012-0000-0000 TAX MAP NO. 05-0004-0013-0000-0000 TAX MAP NO. 05-002-0013-0000-0000 TAX MAP NO. 05-002-0013-0000-0000 TAX MAP NO. 05-002-0013-0000-0000 TAX MAP NO. 05-002-0000-0000 TAX MAP NO. 05-002-0001-0000-0000 TAX MAP NO. 05-002-0011-0000-0000 TAX MAP NO. 05-002-0011-0000-0000 TAX MAP NO. 05-002-0011-0000-0000 TAX MAP NO. 05-002-0011-0000-0000 TAX MAP NO. 05-002-0013-0000-0000 TAX MAP NO. 05-001-0007-0000-0000 TAX MAP NO. 05-0001-0000-0000 TAX MAP NO. 05-0007-0002-0000-0000 TAX MAP NO. 05-0002-0000-0000 TAX MAP N	327       AEP GENERATION RESOURCES INC.         328       CONSOLIDATION COAL COMPANY LLC.         329       CONSOLIMINING COMPANY LLC.         330       AEP GENERATION RESOURCES INC.         331       GATTS RICHARD L LIFE         332       GATTS RICHARD L LIFE         333       GATTS RICHARD L LIFE         334       MULER EDWIN C.         335       CONSOLIDATION COAL COMPANY         336       CONSOLIDATION COAL COMPANY         337       CONSOLIDATION COAL COMPANY         338       CONSOLIDATION COAL COMPANY         339       CONSOLIDATION COAL COMPANY         330       CONSOLIDATION COAL COMPANY         331       CONSOLIDATION COAL COMPANY         335       CONSOLIDATION COAL COMPANY         340       CONSOLIDATION COAL COMPANY         341       OHIO POWER COMPANY         342       CONSOLIDATION COAL COMPANY         345       CONSOLIDATION COAL COMPANY         347       CONSOLIDATION COAL COMPANY         348       OHIO POWER COMPANY         347       CONSOLIDATION COAL COMPANY         348       OHIO POWER COMPANY         347       CONSOLIDATION COAL COMPANY         348       CONSOLIDATION COAL COMPANY <th>TAX MAP NO. 05-0005-0009-0000-0000 TAX MAP NO. 05-0005-0011-0001 TAX MAP NO. 05-0005-0011-0001 TAX MAP NO. 05-0005-0005-0000-0000 TAX MAP NO. 05-0005-0005-0000-0000 TAX MAP NO. 05-0001-0012-0000-0000 TAX MAP NO. 05-0001-0012-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000 TAX MAP NO. 05-0001-001-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-0000 T</th>	TAX MAP NO. 05-0005-0009-0000-0000 TAX MAP NO. 05-0005-0011-0001 TAX MAP NO. 05-0005-0011-0001 TAX MAP NO. 05-0005-0005-0000-0000 TAX MAP NO. 05-0005-0005-0000-0000 TAX MAP NO. 05-0001-0012-0000-0000 TAX MAP NO. 05-0001-0012-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000-0000 TAX MAP NO. 05-0001-0002-0000 TAX MAP NO. 05-0001-001-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-001 TAX MAP NO. 05-0000-0000 TAX MAP NO. 05-0000-0000 T
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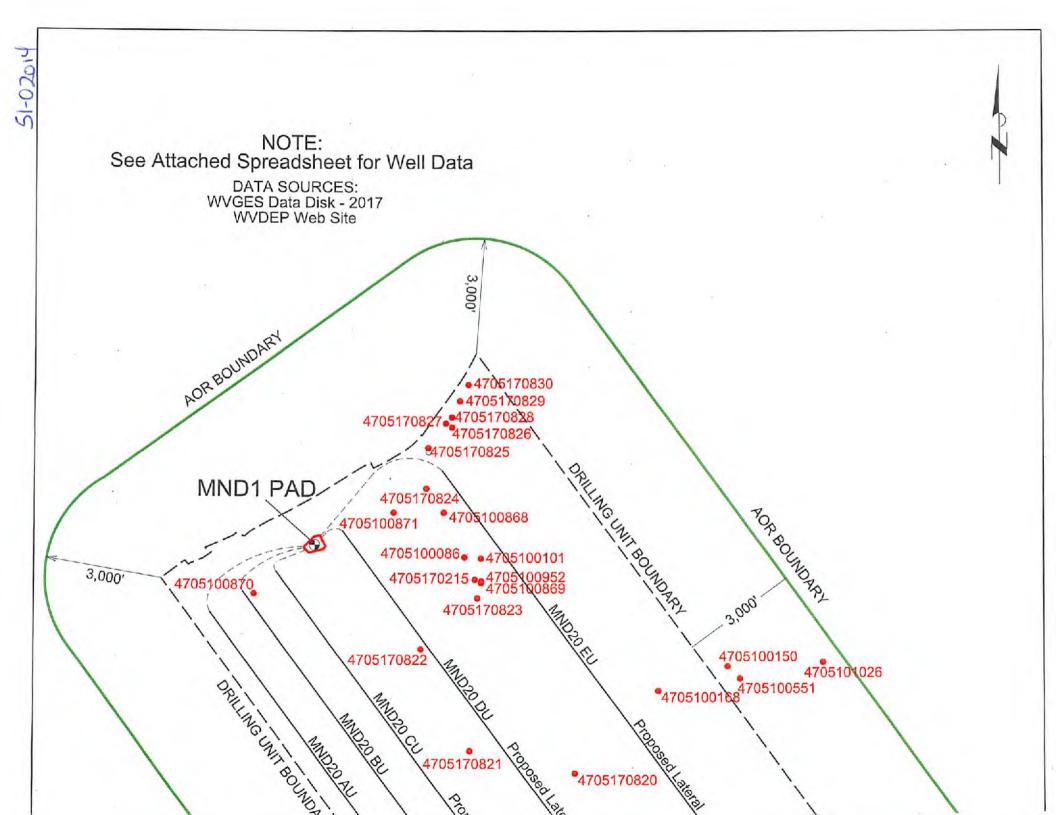
City PARKERSBURG

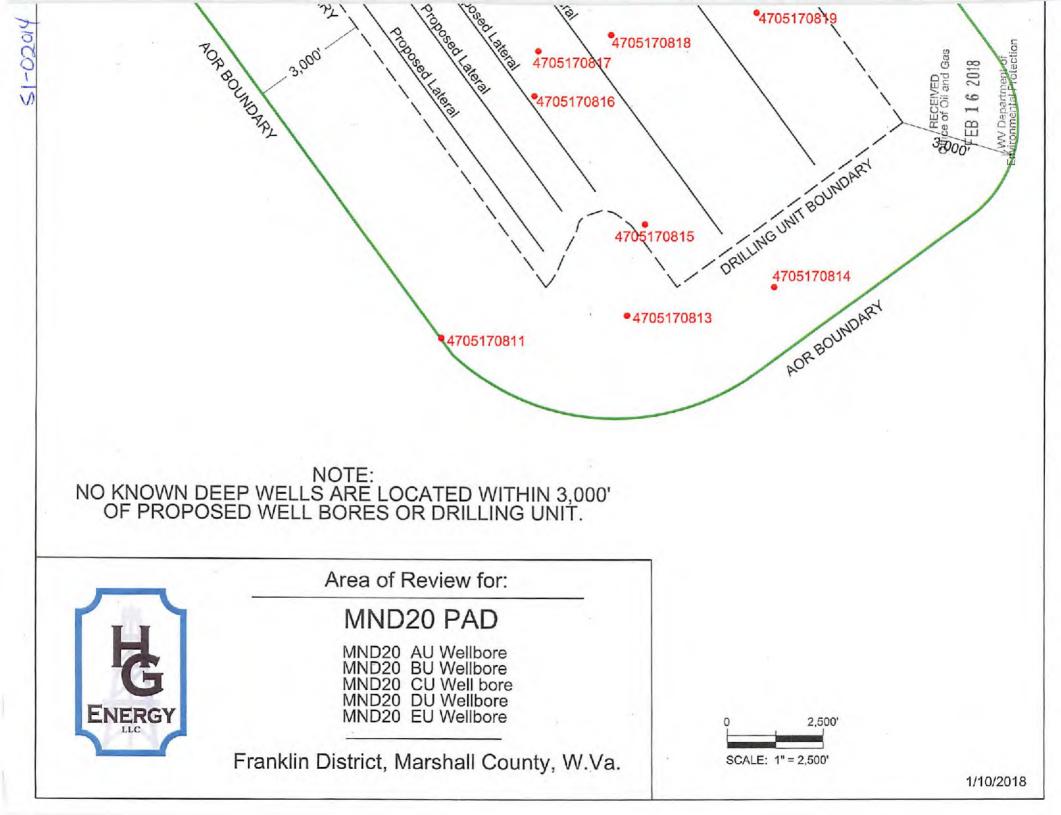
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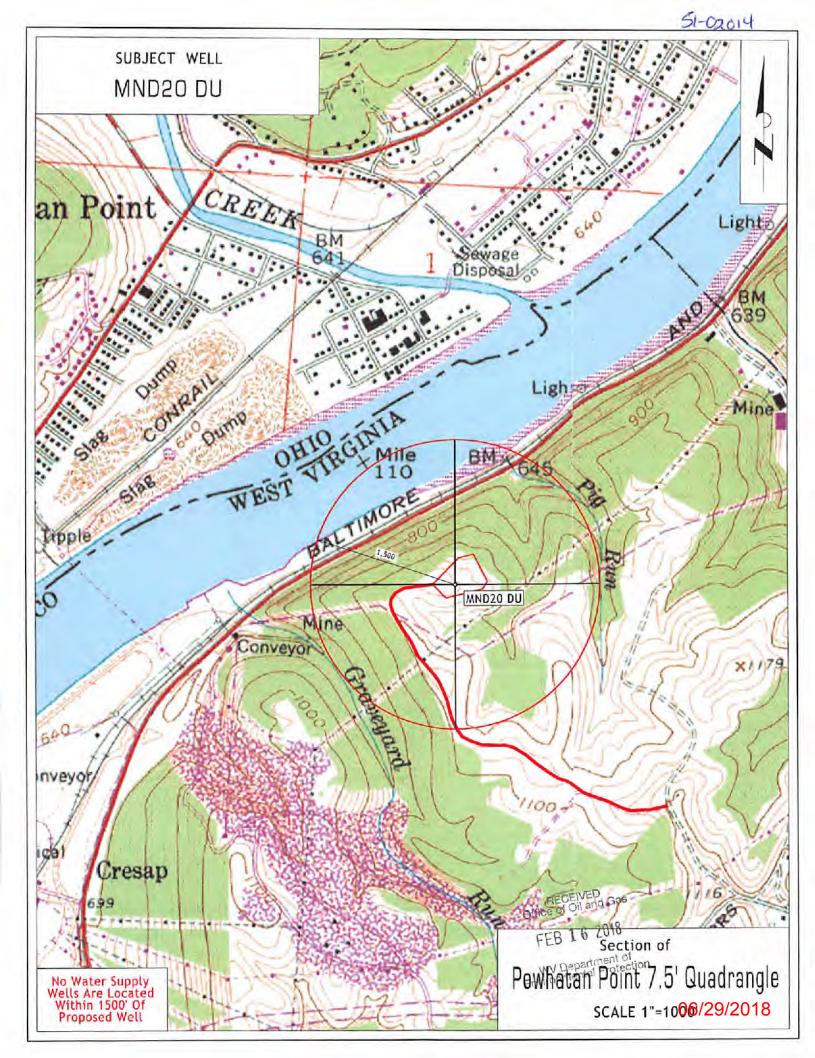
Zip Code 26101

City PARKERSBURG

			Surface	60		Andrew M. Fasoulatos, et ux	173
Plat MPID	Royalty Owne	er	Ref.	(e)	05-0002-0009-0000-0000	Michael Andrew Fasouletos	112
0	Belinda Eddy fka Belinda Page Hoover,	a married woman	Num.	60		Tena Marie Sticklin	
05-0001-0003-0000-0000	dealing in her sole and separate prope Dara Marner and Douglas D. Marner, b		338	(21)	05-0002-00012-0000-0000	Weshanco llank, Trustee John T. Gallaher EST James D. Potts and Nancy C. Potts	184
	wife and husband Jessica McNabb fka Jesica Faye Hoover			(22)	05-0005-0002-0000-0000	Margaret Games	318
	dealing in her sole and separate prope Cheryl Sullivan, a single woman	ιŧγ				Elizabeth Patterson	
	George H. Wells and Nancy Eklund We and as husband and wife	lis, both individually		-		Charles J. Wiesner John Wiesner	
	William C.M. Wilson and Hiram C. Wils Nancy L. Wilson Revocable Trust	ion, as Trustees of The				Kenneth Schmitt	
	Wayland W. Bowser, a married man de	ealing in his sole and				Mary Ellen Sedon	
	Barbara G. Mathews, by Gay L. Mathew	ws, Her Attorney in		(23)	05-0005-0009-0001-0000	Alfred Kaczorowski, Jr., & Sharon M. Kaczorowski HG Energy, LLC	l, his wife 329
	Fact HG Energy, LLC		-	2		AEP Generation Resources Inc. and Kentucky Pow	
2) 05-0001-0002-0001-0000	HG Energy, LLC		340	23	05-0005-0011-0000-0000	Company AEP Generation Resources Inc. and Kentucky Pow	ver
3) 05-0001-0010-0000-0000	Ruth Ann Ferris		335	20	05-0002-0013-0001-0000	Company AEP Generation Resources Inc. and Kentucky Pow	171 ver 227
	Larry F. Jefferson Noble Marcellus, LP			2	05-0005-0009-0000-0000	Company AEP Generation Resources Inc. and Kentucky Pow	327
	Anacapa Holdings, LLC				05-0005-0006-0001-0000	Company AEP Generation Resources Inc. and Kentucky Pow	324 ver
	HG Energy, LLC		225	2	05-0005-0008-0000-0000	Company AEP Generation Resources Inc. and Kentucky Pow	326
4) 05-0001-00001-0000-0000 5) 04-0014-0002-0000-0000	HG Energy, LLC HG Energy, LLC		335	29	05-0002-0013-0005-0000	Company AEP Generation Resources Inc. and Kentucky Pow	171
05-0001-0002-0000-0000	HG Energy, LLC		339	00	05-0005-0007-0000-0000	Company AEP Generation Resources Inc. and Kentucky Pow	325
05-0001-0004-0000-0000	HG Energy, LLC		205	31	05-0005-0011-0001-0000	Company AEP Generation Resources Inc. and Kentucky Pow	330
05-0001-0005-0000-0000	Howard T. Conner Mary L. Whittington		201	32	05-0005-0006-0000-0000	Company	321
	Ruth Ann Ferris			33	05-0005-0012-0000-0000	AEP Generation Resources Inc. and Kentucky Pow Company	182
	Larry F. Jefferson			3	05-0004-0001-0000-0000	AEP Generation Resources Inc. and Kentucky Pov Company	170
	Cheryl Sullivan Barbara G. Mathews, by Gay L. Mathew	WS.		35	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Pow Company	war 169
	Barbara G. Mathews, by Gay L. Mathew Belinda Eddy fka Belinda Page Hoover			(36)	05-0004-0017-0000-0000	Terry Holman	387
	Sarah Knabenshue, married			(37)	05-0009-0001-0000-0000 05-0004-0015-0000-0000	Jessi Gladys Ruckman Et Al Turry Holman	392
	Dere Marner and Douglas D. Marner Jessica McNabb fka Jessica Faye Hoove	er.		39	05-0004-0018-0000-0000	MCCLINTOCK DALE ET UX	168
	George H. Wells and Nancy Eklund We	-		(40)	05-0004-0014-0000-0000	MILLER CHARLES W	388
	William C.M. Wilson and Hiram C. Wils					PARSONS PAUL ET LIX RUSSELL SHARON LYN	
	Waylanti W. Bowser		128			HUFF TIMOTHY ET UX	
05-0001-0006-0000-0000	Susan Kay Flowers & Robert L. Flowers Carol Lynn Gill		120			ARNOLD LLOYD C FT UX	
	William Gary & Nancy L. Metsner					CRONIN MARY JO KURPIL RICHARD ET UX	
	George Michael & Pamela 5. Messner					CLIFTON CLARA MAC	
	Ethel Marie Malson Martha Jane Brown					EDWARDS GEORGE ET UX	
0 05-0001-0006-0001-0000	Susan Kay Flowers & Robert L. Flower	1	129		-	KYLE DONNA FAE CONNER JUDITH MAY	
	Carol Lynn Gill					SCHEIBELHOOD PAUL ET AL	
	William Gary & Nancy L. Messner George Michael & Pamela 5, Messner					SLOUGH ANITA L ET AL	
				(41)	05-0001-0001-0003-0000	HG Energy, LLC	377
	Ethel Maria Malson			(e)	03-0004-0004-0000		
2	Martha Jáne Brown				01-0001-0001-0003-0000		
	Martha Jáne Brown Consolidation Coal Company, et al		130 334		193-9907-9907-9903-9909		
2 05-0002-0003-0000-0000	Martha Jáne Brown		130 334 193		0.001-001-002-003		
05-0002-0003-0000-0000     05-0002-0005-0000-0000	Martha Jéne Brown Consolidation Coal Company, et al HG Energy, LLC		334 193 381		Transfer controls and		
05-0002-0003-0000-0000           3         05-0002-0005-0000-0000           4         05-0002-0004-0000-0000           5         04-0014-0011-0000-0000	Martha Jáne Brown Consolidation Coal Company, et al HIS Energy, LLC HIS Energy, LLC HIS Energy, LLC HIS Energy, LLC	both individually and se	334 193 381 175		Transfer concernance		
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# 51-0-2014

### FORM

THIS EASEMENT AGREEMENT (this "<u>Agreement</u>") dated as of the <u>157</u> day of <u>OECEMCEP</u> 2017 (the "<u>Effective Date</u>"), by and between McElroy Coal Company, a Delaware corporation and The Marshall County Coal Company, a Delaware corporation whose address is c/o Murray American Energy, 46226 National Road, St. Clairsville, Ohio 43950 ("<u>Grantor</u>"), and HG ENERGY II APPALACHIA, LLC., a Delaware limited liability company, whose address is 5260 Dupont Road, Parkersburg, WV 26101 ("<u>Grantee</u>") (each a "<u>Party</u>," and collectively the "<u>Parties</u>").

### WITNESSETH:

WHEREAS, pursuant to the following agreements: Memorandum of Surface Use Agreement dated effective as of September 30, 2011, and recorded in the County Clerk's office of Marshall County, West Virginia; Memorandum of First and Second Amendments to Surface Use Agreement dated effective as of November 15, 2013 and recorded in the County Clerk's office of Marshall County, West Virginia; and the Corrective Addendum to Second Amendment to Surface Use Agreement dated effective November 15, 2013 (to be recorded in the County Clerk's office of Marshall County, West Virginia), CNX Gas Company LLC, *et al.* ("CONSOL Granting Entities") made certain surface rights owned or controlled by the CONSOL Granting Entities available for use by Grantee, as successor in title to Noble Energy, Inc., in connection with the exploration, production and development of certain oil and gas rights (all of the foregoing being hereinafter collectively referred to as the "<u>SUA</u>"); and

WHEREAS, by way of a series of mergers, referenced by State of Delaware Certificate of Merger dated November 19, 2013, and recorded in the County Clerk's office of Marshall County, West Virginia; and State of Delaware Certificate of Merger dated November 25, 2013, and recorded in the County Clerk's office of Marshall County, West Virginia, certain of the CONSOL Granting Entities were merged with and into Grantor or affiliates or subsidiaries of Grantor, and, as a result thereof, (a) Grantor owns or controls surface rights in and to the Premises described in Section 1(B), and (b) Grantor is a successor party to said certain CONSOL Granting Entities under the SUA (Grantor and/or one or more Grantor affiliates being a "Coal Party" and/or "Coal Parties" thereunder); and

WHEREAS, Grantee (being a "Gas Party" under the SUA) desires to obtain an exclusive, limited easement to use the Premises for certain purposes provided for under the SUA, and Grantor is willing to grant Grantee such easement, under the terms and subject to the conditions of this Agreement.

NOW, THEREFORE, for good and valuable consideration, the sufficiency and adequacy of which are acknowledged, and intending to be legally bound, the Parties agree as follows:

- 1. **EASEMENT GRANT.** Grantor grants to Grantee, subject to the terms and conditions herein:
  - A. <u>TYPE</u>: an exclusive easement (the "Easement").
  - B. <u>BURDENED PREMISES</u>: located on, under and through a portion of those lands situate in Franklin District, Marshall County, West Virginia, being the same land conveyed to Grantor by Quitclaim Deed, Assignment and Bill of Sale, dated November 25, 2013, of record in the Office of the Recorder of the aforesaid County in Deed Book 811, Page 0001,

containing 245.40 acres, more or less, being Tax Maps 05-0001-0003-0000-0500, 05-0001-0010-0000-0500 and 05-0002-0005-0000-0500, as more particularly described on **Exhibit "A"** attached hereto and made a part hereof (the "<u>Premises</u>").

C. <u>RIGHTS</u>: to construct, reconstruct, install, lay, use, repair, maintain, improve, alter, replace, operate, inspect, service, and remove roads, pad sites, drilling locations and other surface facilities, and water pipelines reasonably necessary for such Grantee to develop the Oil and Gas Rights with respect to certain subsurface strata underlying the Premises or lands of others (collectively, the "Facilities").

## D. DESCRIPTION OF FACILITIES:1

ACCESS ROAD(S)

- 1. Number: one (1).
- 2. Width: 75 feet.
- 3. Length: 4,500 feet.

## WELL PAD(S)

- 1. Number: one (1).
- 2. Width: 500 feet.
- 3. Length: 600 feet.
- E. USES: for ingress and egress, and construction of a well pad, and for no other purposes.
- F. <u>EASEMENT ACCESS RIGHTS</u>: with the right to access the Facilities from neighboring, coterminous or adjacent lands through and across such areas of the Premises as may be approved by Grantor from time to time.
- G. <u>LOCATION</u>: The location, width and other bounds of the Easement and the Facilities are shown on **Exhibit A**, and the Easement consists of a strip of land containing up-to seventyfive (75') feet (thirty-seven and one half (37.5') feet on each side) in width for the access road, as well as 300,000 square feet for the well pad as shown on **Exhibit A** (the "<u>Easement Area</u>").

## 2. EASEMENT REQUIREMENTS.

A. <u>SURVEX PLAT OF FACILITIES</u>. Grantee shall, at Grantee's expense, deliver an as-built/asdrilled plat/survey depicting the location(s) of the Facilities to Grantor promptly upon completion of construction of the Facilities. Grantee shall promptly furnish to Grantor, upon Grantor's request, at Grantee's expense, any existing or future information, other surveys and other data and information with respect to the Premises, the Easement, the Facilities, or Grantee's Operations that Grantee, now or in the future, has in its possession or control that is needed or useful in order for Grantor to obtain or to comply with any permits or approvals for Grantor's operations on the Premises or any neighboring, coterminous or adjacent lands or to comply with any Applicable Laws.

- B. <u>TAXES</u>. Grantee shall pay all taxes and any increases assessed by any governmental authorities that are directly attributable to the Easement, the Facilities, or any Grantee Operations or related improvements of Grantee.
- C. <u>ACCESS</u>. In addition to those rights which are inherent with the ownership of the Premises, Grantor shall have access to the Easement from time to time for any purpose.
- D. <u>DIG NOTICE</u>. Grantee agrees to give Grantor written notice not less than three (3) days prior to the commencement of the initial construction and prior to any digging on the Premises.
- E. <u>MARKERS</u>. Readily visible markers of the Facilities shall be installed and maintained by Grantee, and to the extent that the Facilities constitute pipelines, such markers shall be at intervals not to exceed fifty (50) feet along the length of such pipeline(s).
- F. <u>REIMBURSEMENT OF CERTAIN COSTS</u>. Grantee shall reimburse Grantor for any costs associated with the maintenance of that portion of the Premises forming the Easement Area (on the basis of usage or other allocation methodology reasonably calculated to reflect Grantor's use of the Easement Area in proportion to the total use of the Premises by the Parties) and/or any direct or third party costs payable under permits and any third party agreements burdening the Premises.
- 3. **EASEMENT PAYMENT.** This Easement grant shall be royalty-free.
- 4. <u>TERM</u>. This Agreement and all rights granted herein shall terminate automatically (except those provisions that expressly survive expiration or termination), and the Easement shall automatically revert to Grantor, upon the earlier to occur of the following events: (a) thirtysix (36) months after the Effective Date if Grantee has not commenced the installation of the Facilities on the Premises by such date; (b) termination of Grantor's surface rights in and to the Premises; (c) termination of Grantee's operations with respect to the Easement and the Facilities; (d) any breach by Grantee under this Agreement that remains uncured after the applicable cure period; or (e) if any creditor or lender of Grantee exercises any rights against the Facilities or the Easement grant.

Upon Grantor's request, Grantee shall execute any instruments terminating the Easement, transferring the Easement to Grantor, or its designee, or waiving or releasing any rights of Grantee herein consistent with the foregoing. All obligations of Grantee in this Section 4 shall survive expiration or termination of this Agreement.

- 5. <u>GENERAL TERMS AND CONDITIONS</u>. All rights and benefits conveyed or created pursuant to this Agreement shall be subject to the following general terms, provisions and conditions:
  - A. <u>Joint Use</u>. Grantor shall have the right to fully use and enjoy the Premises for Grantor Operations, subject only to the terms and conditions of this Agreement. Grantor reserves the right to limit any Grantee Operations that would unreasonably interfere with Grantor

Operations. Subject to the terms of this Agreement, all Grantee Operations shall be performed in such a manner as not to unreasonably interfere with any Grantor Operations, and all Grantor Operations shall be performed in such a manner as not to unreasonably interfere with any Grantee Operations.

- B. <u>Coordination</u>. Grantee shall coordinate all Grantee Operations with Grantor Operations. The Parties acknowledge that as part of a coordination process specified in Section 5(b) of the SUA, (i) the Grantor will work with Grantee to locate any Grantee wells on the Premises in pillars and barriers to minimize conflicts with Grantor's mining operations, and (ii) Grantor will work with Grantee to locate the Facilities in locations reasonably likely to minimize the likelihood of any required relocation. Each Party, promptly upon becoming aware of any potential operational conflict relative to the Premises, shall provide written notice to the other Party whose Operations will be or are likely to be impacted by such notifying Party's planned operations in, on or under the Premises.
- C. <u>Use Requirements</u>. Grantee, in conducting Grantee Operations, shall comply with the reasonable requirements (as the same may be amended from time to time) of Grantor, including safety plans and programs, operating hours and other relevant regulations and procedures. Notwithstanding the foregoing requirements, each Party shall be solely responsible for initiating, maintaining, implementing, controlling and supervising all health, safety and environmental precautions, rules and programs in connection with their respective Operations.
- D. <u>Permits</u>. Each Party shall be responsible for obtaining all necessary permits, title reports, licenses and bonds related to their respective Operations. Each Party, to the extent practicable, shall cooperate and support the other Party's permitting and regulatory approval activities pertaining to the Premises and, in connection therewith, but subject to the provisions of Section 11, the Parties agree to cooperate in the resolution of all regulatory proceedings and litigation where the rights or obligations of the Parties may be implicated.
- E. <u>Compliance with Permits and Agreements: Maintenance</u>. Grantee shall comply with all applicable permits and agreements burdening the interests of Grantor in the Premises of which Grantee has been notified, and Grantee shall maintain and repair its roads, rights of way, drill sites and other surface facilities, in each case, located on the Premises, in accordance with the terms of all such permits and agreements.
- F. <u>Grantee Activities: Grantor Property</u>. Grantee shall: (i) perform all Grantee Operations in a good and workmanlike manner, in accordance with good and safe construction methods, standards and practices and in compliance with Applicable Laws; (ii) promptly (a) repair any damage to the Premises or any other property of Grantor (collectively, the "<u>Grantor Property</u>") affected by Grantee Operations, or (b) if such repairs are impossible or impracticable, replace any such Grantor Property that is personal property or a fixture, in each case, in order that the physical condition of the Grantor Property is approximately the same following such Grantee Operations as it was prior thereto; (iii) keep the Grantor Property free and clear of any mechanics', materialman's or other construction liens or, if

any such lien is placed on the Grantor Property, cause any such lien to be released or transferred to security bond within twenty (20) days following the filing thereof against any of the Grantor Property; and (iv) pay for all costs of such Grantee Operations at its sole cost and expense. Notwithstanding anything in this Agreement to the contrary, Grantor shall not have any liability for any damage, alteration, change or modification of any Facilities or other property of Grantee caused by any subsidence relating to mining operations in, on or under the Premises. For the avoidance of doubt, the obligations contained in this Section 5(F) shall survive the expiration or termination of this Agreement.

- G. <u>Relocation</u>. If at any time the location of any Facilities (or wells associated therewith) or Grantee Operations is reasonably expected by Grantor to interfere with its present or planned Grantor Operations (whether such operations or uses relate to Grantor's coal, surface, oil, gas or otherwise), then upon the written request of Grantor, Grantee shall, in coordination with Grantor, (i) subject to Sections 5(H) and 5(I) with respect to wells, relocate such interfering Facility and/or Grantee Operation to another location within the Premises (which location may be within a Coal Area or within a Non-Coal Area), and (ii) Grantor shall deliver to Grantee an easement with respect to such new location that is materially consistent with the Easement and on substantially the same terms and conditions. Grantor's right to cause Grantee to relocate the Easement (or the Facilities or Grantee Operations permitted hereunder), but excluding in all cases any well, may not be exercised more than once with respect to this Agreement and/or the Facilities or Grantee Operations permitted hereunder unless the costs of relocation is borne by Grantor. Except to the extent provided in the preceding sentence and in Section 5(I), all costs and expenses of Grantee associated with any such relocation shall be borne 100% by Grantee. For the avoidance of doubt, the relocation obligations contained in this Section 5(G) shall survive the expiration or termination of this Agreement.
- H. <u>Coal Areas</u>. Subject to the terms hereof, Grantee shall have the right to locate and drill oil and gas wells attributable to the Oil and Gas Rights in the Coal Areas of the Premises.
  - Prior to drilling any such well in a Coal Area of the Premises, Grantee shall obtain the written consent of Grantor to drill such well in such Coal Area. Upon the receipt of a written request from Grantee (which request shall include the proposed drilling location for such well), Grantor shall elect one of the following options with respect to such well: (a) consent to such well and approve the proposed location, and thereafter such well shall be considered a "Protected Well" for purposes of Section 5(I)(2); (b) consent to such well but not approve the proposed location of such well (a "Non-Protected Well"), in which case Grantee shall be entitled to drill such Non-Protected Well on such proposed location, but the provisions of Section 5(H)(2) shall apply to such Non-Protected Well, its associated reserves and any related Facilities; or (c) not consent to such well and not approve the proposed location; provided that if Grantor elects the option set forth in subsection (c) of this Section 5(H)(1), Grantor shall meet with Grantee in order to attempt to locate a mutually acceptable location for such proposed well (which location, for the

avoidance of doubt, may or may not result in such well, when drilled, being a "Protected Well" for purposes of Section 5(1)(2)).

- 2. If Grantor requests that a Non-Protected Well be relocated pursuant to Section 5(G), Grantee shall properly plug and abandon, at its sole cost and expense and without compensation from Grantor, such Non-Protected Well for mine through in accordance with Applicable Law. For the avoidance of doubt, if Grantor mines through Grantee's Non-Protected Well, Grantee will bear 100% of the loss of the value of such Non-Protected Well without any compensation from such Grantor.
- 3. For the avoidance of doubt, the obligations contained in this Section 5(H) shall survive the expiration or termination of this Agreement.
- I. <u>Non-Coal Areas</u>. Subject to the terms hereof, Grantee shall have the right to locate and drill oil and gas wells attributable to the Oil and Gas Rights in the Non-Coal Areas of the Premises.
  - 1. Any well that is drilled by Grantee on a location that was in a Non-Coal Area at the time such well was drilled is referred to herein as a "<u>Protected Well</u>".
  - 2. If Grantor requests that a Protected Well be relocated pursuant to Section 5(G), the following provisions will apply: (a) Grantee shall properly plug and abandon such Protected Well for mine through in accordance with Applicable Law, (b) Grantor shall reimburse Grantee for 100% of the reasonable and documented costs and expenses associated with such plugging and abandonment operations, (c) Grantor shall compensate Grantee for the value of such plugged and abandoned Protected Well and the proved developed producing oil and gas reserves lost due to such Coal Party's mining operations which caused the relocation of such Protected Well, and (d) subject to the provisions of Schedule 5(i) of the SUA, Grantor shall compensate Grantee for the value of such plugged and abandoned Protected Well. The value of such Protected Well, the proved developed producing oil and gas reserves and the underlying lease(s), in each case, for which the Gas Party is entitled to compensation pursuant to this Section 5(I) shall be determined pursuant to the procedures set forth on Schedule 5(i) of the SUA.
  - 3. For the avoidance of doubt, the obligations contained in this Section 5(I) shall survive the expiration or termination of this Agreement.
- 6. <u>INDEPENDENT CONTRACTORS</u>. This Agreement does not make either Party an employee, contractor, partner, joint venturer, agent or representative of the other Party.
- 7. <u>SECURITY</u>. Grantee shall be responsible for Grantee Parties' security, including the security of all Grantee Parties' property brought onto, located at, or constructed in or upon the Premises.
- 8. <u>PROHIBITED ACTIVITIES</u>. Grantee shall not permit animals, alcohol, drugs, firearms, hunting or any unlawful activity of any kind at the Premises. Grantee shall not dump or dispose of any waste or refuse in, on or under any portion of the Premises. Grantee shall not permit any

operation or activity to be conducted at the Premises except as otherwise specifically permitted or otherwise required in this Agreement.

# 9. NO CONVEYANCE: NO WARRANTIES OF TITLE; DISCLAIMERS.

- A. No warranty of title is made by Grantor with respect to the Premises, whether express implied or statutory, and Grantee acknowledges that the Facilities will be constructed, and Grantee Operations undertaken, at Grantee's sole risk.
- B. GRANTOR MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, AND EXPRESSLY DISCLAIMS ALL LIABILITY AND RESPONSIBILITY FOR ANY REPRESENTATION, WARRANTY, STATEMENT OR INFORMATION MADE OR COMMUNICATED (ORALLY OR IN WRITING) TO GRANTEE OR ANY OF ITS AFFILIATES, EMPLOYEES, AGENTS. CONSULTANTS OR REPRESENTATIVES (INCLUDING ANY OPINION. INFORMATION, PROJECTION OR ADVICE THAT MAY HAVE BEEN PROVIDED TO GRANTEE BY A MEMBER OR AFFILIATE OF GRANTOR). GRANTOR HAS NOT AND WILL NOT MAKE ANY REPRESENTATION OR WARRANTY REGARDING ANY MATTER OR CIRCUMSTANCE RELATING TO (I) THE QUALITY OF, OR SUITABILITY FOR ANY PURPOSE OF, THE PREMISES, (II) THE CONTINUED AVAILABILITY OF THE PREMISES, OR (III) ANY CONDITION, ENVIRONMENTAL OR OTHERWISE, RELATING TO THE PREMISES, AND NOTHING IN THIS AGREEMENT OR OTHERWISE SHALL BE CONSTRUED AS SUCH A REPRESENTATION OR WARRANTY. GRANTEE SHALL BE DEEMED TO BE USING THE PREMISES "AS IS" AND "WHERE IS" WITH ALL FAULTS FOR PURPOSES OF ITS CONDITION, ENVIRONMENTAL OR OTHERWISE, AND GRANTEE HAS MADE OR CAUSED TO BE MADE SUCH INSPECTIONS AS GRANTEE DEEMS APPROPRIATE. THE PARTIES AGREE THAT. TO THE EXTENT REOUIRED BY APPLICABLE LAW TO BE EFFECTIVE. THE DISCLAIMERS OF CERTAIN REPRESENTATIONS AND WARRANTIES CONTAINED IN THIS SECTION 9 ARE "CONSPICUOUS" DISCLAIMERS FOR THE PURPOSE OF ANY APPLICABLE LAW.
- 10. <u>Remedies</u>. In the event either Party fails to comply with any of the terms, covenants or conditions of this Agreement, the other Party suffering such default shall be entitled to seek damages, injunctive relief and any other remedies available under Applicable Law or in equity. If it becomes necessary for Grantor or Grantee to file a suit to enforce this Agreement or any provisions contained herein, the Party prevailing in such action shall be entitled to recover, in addition to all other remedies or damages, reasonable attorneys' fees and court costs incurred by such prevailing Party.
- 11. Release: Indemnity: Waiver of Certain Damages.
  - A. Grantee shall be responsible for, shall pay on a current basis, and hereby releases, defends, indemnifies and holds harmless the Grantor Parties from and against any and all liabilities, whether or not relating to third party Claims or incurred in the investigation or defense of any of the same, arising from, based upon, related to or associated with Claims for bodily

injury, illness or death arising out of or related to the Facilities or Grantee Operations, including the use of the Easement.

- B. IN NO EVENT SHALL EITHER PARTY BE LIABLE HEREUNDER FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFITS OR DAMAGES FOR BUSINESS INTERRUPTION ARISING FROM OR CAUSED BY THE ACTION OR INACTION OR COMPARATIVE OR SOLE NEGLIGENCE OF SUCH PARTY UNDER THIS AGREEMENT. EACH PARTY RELEASES THE OTHER PARTY AND SUCH PARTY'S OFFICERS, DIRECTORS, EMPLOYEES, AGENTS AND AFFILIATES FROM, AND COVENANTS NOT TO SUE ANY OF THEM FOR, ANY SUCH SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR BUSINESS INTERRUPTION.
- C. The provisions of this Section 11 shall not restrict any Party's right to seek injunctive relief or specific performance. Each Party shall be entitled to enforce specifically the terms and provisions of this Agreement in addition to any other remedy to which such holder may be entitled at Applicable Law, in equity or otherwise.
- 12. <u>PRIOR ENCUMBRANCES</u>. This Agreement shall be subject and subordinate to any and all encumbrances, easements, licenses, rights-of-way, servitudes, permits, encroachments, gores, strips, roadways, estates, covenants, conditions, exceptions, reservations, restrictions, disputes, closure errors, prior grants, including, without limitation, grants or reservations of coal, oil, gas or other minerals and mining rights and restrictions, now or hereafter granted or reserved by Grantor or any predecessor in title, apparent with a physical inspection of the Premises, implied by law or shown, or referred to, by grants or instruments, unrecorded or of record. Grantor shall be under no obligation hereunder to preserve the Premises or its rights thereto by payment of fee or other obligation to incur costs or expenses.
- 13. <u>SURRENDER</u>. Upon the expiration or termination of this Agreement, the Facilities or any portion thereof shall either (a) be removed by Grantee, at Grantee's sole cost and expense, or (b) if acceptable to Grantor, be surrendered and remain in place on the Premises and become the property of Grantor, at no cost to Grantor or any payment to Grantee. Grantee shall, at its sole cost and expense, restore the Premises to substantially the same condition as existed prior to the installation of the Facilities, except as Grantor may otherwise agree. In the event that the Facilities or any portion thereof shall be surrendered and remain in place on the Premises and become the property of Grantor, then upon request of Grantor, Grantee shall execute a Bill of Sale or other transfer documents transferring the Facilities to Grantor, or its designee, consistent with the foregoing. All obligations of Grantee in this Section 13 shall survive the expiration or termination of this Agreement.
- 14. <u>RECLAMATION</u>. Grantee shall promptly commence and diligently pursue reclamation of all disturbed areas of the Premises related to the Facilities or to Grantee Operations in accordance with Applicable Laws. Upon completion of reclamation, Grantee Parties shall remove all equipment and personal property placed upon the Premises. The obligations of Grantee in this Section 14 shall survive the expiration or termination of this Agreement.

- 15. <u>ASSUMPTION OF RISK</u>. Grantee knowingly and voluntarily accepts and assumes all risks and hazards associated with the Premises and Grantee Operations, including, but not limited to, possible injury, damage or loss of life and any resulting Claims. Grantee accepts all risk of damage from the condition of the Premises or any past, present or future subsidence of the surface thereof, and Grantee hereby accepts all risk of damage to the Facilities, the Easement Area, Grantee Parties or any property of Grantee from the condition of the Premises or such subsidence in, on or under the Premises.
- 16. <u>ASSIGNMENT</u>. Grantee agrees not to transfer, assign, sublet, pledge or encumber, in whole or in part, this Agreement, the Easement, the Facilities or the rights granted herein without Grantor's prior written consent which consent shall not be unreasonably withheld, conditioned or delayed. Any attempted transfer in violation of the provisions above shall be void and of no force or effect.
- 17. <u>BINDING EFFECT</u>. This Agreement shall be binding upon and inure to the benefit of the Parties and their respective permitted transferees, successors and assigns and is for their sole benefit.
- 18. <u>THIRD PARTY BENEFICIARIES</u>. Nothing herein, express or implied, is intended to or shall confer upon any other person or entity any legal or equitable right, benefit, or remedy of any nature whatsoever under or by reason of this Agreement.
- 19. <u>ENTIRE AGREEMENT</u>. This Agreement includes all the agreements and stipulations between the Parties pertaining to the subject matter hereof, and no representations, oral or written, have been made, modifying, adding to, or changing the terms hereof.
- 20. <u>COMPLIANCE WITH LAWS</u>. Grantee shall comply in all material respects with all Applicable Laws which at any time now or in the future may apply to the Facilities, the Easement Area, the Premises or the Grantee Operations.
- 21. <u>GOVERNING LAW</u>. This Agreement shall be governed by the law of the state in which the Premises is situated, without regard to such state's conflicts of law provisions; provided, however, that if the Premises straddles multiple states, the applicable law shall be that in which the largest portion of the Premises is situated.
- 22. <u>DEFAULT</u>. Grantee agrees to materially abide by and perform all terms, covenants and conditions of this Agreement, and if any default thereof exists, and Grantee fails to correct said default within fifteen (15) days after written notification of such default, then Grantor shall have the option to either (a) terminate this Agreement, and all rights and privileges hereunder shall absolutely terminate except those provisions that expressly survive expiration or termination hereof, or (b) cure any such default, and Grantee shall promptly pay to Grantor all amounts expended, or advanced by Grantor in connection with such curative measures.
- 23. <u>RESERVATIONS</u>. Grantor excepts from the Easement, and reserves unto Grantor and Grantor's successors and assigns, any rights not expressly granted to Grantee under this Agreement. Grantor shall have the right to enter upon the surface of the Premises to make all surveys necessary to Grantor Operations as well as its operations in neighboring, coterminous or adjacent lands. The rights herein reserved are in addition to those which are inherent with the ownership of coal, oil, gas and other minerals.

- 24. <u>INSURANCE REOUIREMENTS</u>. Grantee agrees to keep and maintain at all times during the term of this Agreement, and to cause its Grantee Parties who enter the Premises to keep and maintain, insurance coverages and amounts reasonably acceptable to Grantor, including without limitation, the insurance requirements set forth on <u>Exhibit "B"</u>.
- 25. <u>AMENDMENTS</u>. No modification, amendment, or change of this Agreement shall be valid or binding unless the same is in writing and signed by both Parties.
- 26. <u>DEFINITIONS</u>. Capitalized terms used herein, and not otherwise defined, shall have the following meanings:
  - A. "<u>Affiliates</u>" shall mean any individual, corporation, partnership, limited liability company or other entity that, now or in the future, directly or indirectly through one or more intermediaries, controls, is controlled by, or is under common control with the given entity. For this purpose, "<u>control</u>" means possession, directly or indirectly, of power to direct or cause the direction of management or policies (whether through ownership of securities or other ownership interest, by contract, or otherwise).
  - B. "<u>Applicable Laws</u>" shall mean all federal, state, local, municipal, laws, statutes, codes, acts, constitutions, ordinances, judgments, decrees, injunctions, advisories, circulars, orders, resolutions, rules, regulations, permits, licenses, authorizations, administrative orders, standards, directives, and other requirements of any governmental entity, whether now or hereafter enacted, created or promulgated, of any kind or nature, including, without limitation, all zoning, land use, building, health, security and environmental laws.
  - C. "<u>Claims</u>" shall mean any and all losses, suits, proceedings, actions, or causes of action, in law or at equity, demands, penalties, fees, charges, assessments, liabilities (including, without limitation, environmental or natural resources liability or damages), damages, claims, judgments, and executions, costs and expenses of any kind, fines taxes, interest, including, without limitation, attorney's fees, expert's fees, court costs and other out-of-pocket fees) and disbursements, whether existing or incurred or asserted in the future, in connection with: (i) any such claim or the defense thereof, (ii) amounts paid in settlement, orders, liens, or decrees, or (iii) any injury of any kind and nature to persons (including sickness, illness and death), mines, wells, or property claims or to the Premises, natural resources, and (iv) consequential, punitive damages, contribution or indemnity, and with respect to any of the foregoing, whether known or unknown, foreseen or unforeseen, contingent or otherwise, whether threatened or actual, direct or indirect, and whether sustained or brought by or against any Grantee Parties, any Grantor Parties or any other persons or entities.
  - D. "<u>Coal Area</u>" means, at any time, that portion of the Premises (i) where mining operations are being conducted by Grantor at such time or (b) which is included in Grantor's ten year mining plan as of such time.
  - E. "<u>Grantor Operations</u>" shall mean Grantor Parties' use and occupancy of the Premises and all activities and operations of any Grantor Parties conducted on, from or underlying the Premises.

- F. "<u>Grantee Operations</u>" shall mean any Grantee Parties' use and occupancy of the Premises and all activities and operations of any Grantee Parties conducted on, from or underlying the Premises, including all activities in connection with the Easement and the rights granted herein.
- G. "<u>Grantee Parties</u>" shall mean Grantee and its Affiliates and each of their respective shareholders, partners, directors, officers, members, employees, consultants, contractors, subcontractors, agents, visitors, licensees, invitees, successors and assigns.
- H. "<u>Grantor Parties</u>" shall mean Grantor and its Affiliates and each of their respective shareholders, partners, directors, officers, members, employees, consultants, contractors, subcontractors, agents, visitors, licensees, invitees, successors and assigns.
- I. "<u>Non-Coal Area</u>" means, at any time, that portion of the Premises that is not a Coal Area at such time.
- J. "Oil and Gas Rights" shall have the meaning ascribed thereto in the SUA.
- K. "Section" shall mean a Section of this Agreement, and "Exhibit" shall mean an Exhibit to this Agreement, except as otherwise expressly indicated.
- 27. <u>CONFLICT</u>. Grantor and Grantee acknowledge and agree that this Agreement is subject to the terms and conditions set forth in the SUA as each of their respective interests appear of record with respect to the subject matter hereof and thereof. In the event of a conflict between the terms and provisions of this Agreement and any Exhibit hereto and the terms and provisions of the SUA, the terms and provisions of the SUA shall govern and control; *provided, however*, that the inclusion of any term or provision in this Agreement or the Exhibits hereto not addressed in the SUA shall not be deemed a conflict, and all such additional terms and provisions shall be given full force and effect, subject to this Section 27.

# [SIGNATURES ON FOLLOWING PAGE]

51-02014

WITNESS the due execution, Grantor and Grantee execute this Agreement as of the Effective Date.

WITNESS/ATTEST:

WITNESS/ATTEST:

GRANTOR:

McElroy Coal Company

By: ۵ JITT 1 . Sanorany

The Marshall County Coal Company

n By: Sanermay

GRANTEE:

HG ENERGY II APPALACHIA, LLC.

B AREN PRESIDENT

Cars

Exhibits:

Exhibit A: Premises and Easement Description/Map Exhibit B: Insurance

PREPARED BY/RETURN TO: HG Energy II Appalachia, LLC Attention: Land Department 5260 Dupont Road Parkersburg, WV 26101

# ACKNOWLEDGEMENTS

STATE OHIO	4
COUNTY OF BELMONT	; SS.
On this, the 1 <sup>st</sup> day of Decemb	2017 before me the undersigned officer,
personally appeared Jason D W.H	, who acknowledged himself/herself to be the
Secretary of McElroy C	oal Company, a Delaware corporation, and that
	to so, executed the foregoing instrument for the
purposes therein contained by signing the nan	
such officer.	
RIAL SCALE THOMAS DE SAUTH	e contractor de la cont
NOTARY PUBLIC	and and official seal.
FOR THE STATE OF OHIO	1
My Commission Expires	at suit
October 24, 2022	Notary Public
STATE OHIO	
	: SS.
COUNTY OF BELMONT	:
On this, the 1 <sup>st</sup> day of Decen	2017 before me the undersigned officer,
personally appeared	, who acknowledged himself/herself to be the
Sec setary of The Marsha	ll County Coal Company, a Delaware corporation,
and that he/she as such officer, being authoriz	ed to do so, executed the foregoing instrument for
the purposes therein contained by signing the	name of the Secretary by himself/herself
as such officer.	
In witness whereof, I hereunto set my h	and and official seal.
ARIAL SS	
JUSTIN R. SMITH	Aul-1
NOTARY PUBLIC	Jath Smith
STATE OF OHIO	Notary Public
Ortober 24, 2022	

13

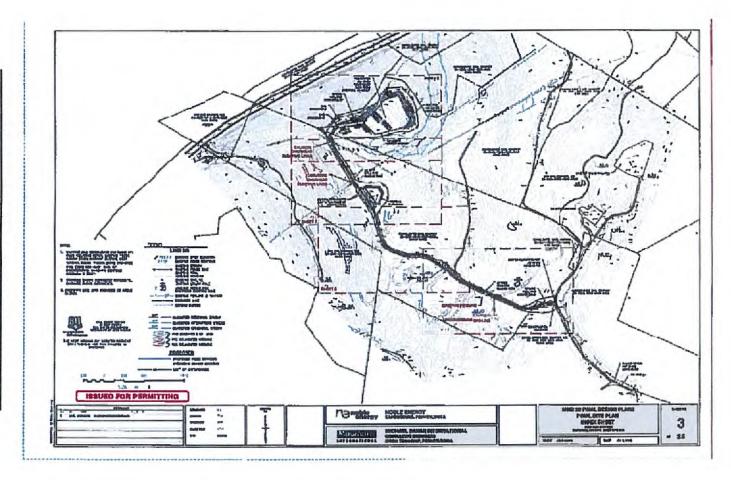
STATE OF WEST VIRGINIA	:	<b>9</b> 5.	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2022
COUNTY OF WOOD	:		INV CONTRIBUCITE ADAY DI, 2022
On this 1ST day of DE	CEMBER		, 2017, before me, the
undersigned officer, personally appeared _	JARED	HALL	, as
PRESIDENT OF HG Ener	rgy II Appala	chia, LLC	, a Delaware limited liability
company, and acknowledges that, being at	uthorized to do	o so, the al	ove-referenced individual and
officer of said entity executed the foregoin	g instrument f	or the purp	oses and consideration therein
contained.			

In witness whereof, I hereunto set my hand and official seal.

Cassidy A. Bon duen Notary Public

**Exhibit A** 

PREMISES AND EASEMENT DESCRIPTION/MAP



# Exhibit B

# **INSURANCE REOUIREMENTS**

For bodily injury and property damage, including, without limitation,
Products/Completed Operations, Independent Contractors, Contractual
Liability, and Premises Operations,
\$1,000,000 combined single limit per occurrence
With a deductible acceptable to Grantor
During any construction on the Premises, Products/Completed Operations coverage for two (2) years following the final payment to any contractor or subcontractor performing the construction work and if any demolition work is to be performed, general liability coverage must be increased to \$5,000,000 combined single limit per occurrence
Statutory Limits, or
Evidence that Grantee is a "Qualified Self Insurer"
\$1,000,000 each bodily injury by accident
\$1,000,000 policy limit for bodily injury by disease
\$1,000,000 each employee bodily injury by disease
For bodily Injury and property damage covering owned, non-owned and hired automobiles with at least
\$1,000,000 combined single limit per occurrence
For (bodily injury and property damage) with contractual liability insurance to cover liability assumed under this Agreement, with at least
\$9,000,000 combined single limit per occurrence
Which must extend over and above the required Comprehensive or Commercial General Liability, Employer's Liability, and Automobile Bodily Injury and Property Damage Liability limits

# ADDITIONAL INSURED(S)

Grantor and any Grantor Parties specified by Grantor must be named as additional insureds on all Liability Insurance specified above.

# POLICY REQUIREMENTS

All insurance policies shall be: (i) primary, and non-contributory; (ii) written on an occurrence basis. except as permitted below; (iii) include a waiver of subrogation against Grantor and Grantor Parties, where permitted by law; (iv) maintained without interruption from the date of commencement of any Grantee Operations until Grantee and all equipment, machinery, materials and other property of Grantee have been removed from the Premises; and (v) issued by insurance companies having an A.M. Best rating of at least A-VII or better and authorized to do business in the state where the Premises is located. All policies of insurance shall include a written undertaking from the insurer to notify all insureds and additional insureds at least ten (10) days' prior to cancellation for nonpayment of premiums, and at least thirty (30) days' prior to cancellation, expiration or modification of coverage for any other reason. Grantee does not have the right to self-insure any and all coverages required above other than Worker's Compensation Insurance. Insurance may be written on a claims made basis by Grantee (but not by any of its contractors, sub-contractors or agents), if and only if any and all claims made policies expressly include a retroactive coverage date that is on or before the Effective Date, and that any replacement policies issued during any time that this Agreement is effective also include a retroactive coverage date that is on or before the Effective Date. With respect to any and all Claims against Grantor or any Grantor Parties by any employee of Grantee or Grantee Parties, the indemnification obligations under this Agreement shall not be reduced in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for Grantee or any Grantee Party under workers' or workmen's compensation acts, disability acts or other employee benefit acts.

# CERTIFICATE OF INSURANCE

Prior to the commencement of any Grantee Operations on the Premises, Grantee will issue certificates of insurance or evidence of self-insurance satisfying the foregoing insurance requirements, disclosing deductibles and any self-insurance. The certificates of insurance, both current and renewals, will be provided to Grantor prior to Grantee performing any Grantee Operations and from time to time upon request of Grantor, addressed as follows:

	AY ENTITY]	
Attn:		

# CONTRACTORS, SUBCONTRACTORS AND AGENTS

Grantee shall require each of its contractors, subcontractors and agents who enter the Premises to obtain and maintain all of the foregoing coverages under the terms and conditions set forth above, and Grantor and Grantor Parties specified by Grantor shall be named as additional insureds thereon.



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

January 23, 2018

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

RE: Drilling Under Roads – MND20 DU Franklin District, Marshall County West Virginia

Dear Ms. Adkins:

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

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

Very truly yours,

Diane White

Diane C. White

Enclosures

CC: Jim Nicholson - Inspector

Office of Oil and Gas

WV Department of Environmental Protection

# 4705102014

# Legal Advertisement for the Intelligencer Newspaper

PUBLIC NOTICE OFAPPLICATION FOR NATURAL GAS HORIZONTAL WELL DRILLING PERMIT, pursuant to West Virginia Code Section 22-6A-10(e).

HG Energy II Appalachia, LLC, 5260 Dupont Road, Parkersburg, WV 26101, is applying for a permit for a natural gas horizontal well, MND20 DU, located at approximately UTM NAD 83 Easting 516852.6, UTM NAD 83 Northing 4411319.6 in Short Creek Watershed, Powhatan Point Quadrangle, Clay District, Marshall County, WV which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilities and uses more than two hundred ten thousand gallons of water in any thirty day period.

Any interested person may submit written comments or request a copy of the proposed permit application by emailing dep.oogcomments@wv.gov, sending a letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE, Charleston, WV 25304, or calling 304-926-0450. Emailed or written comments must reference the county, well number and operator and must be received within 30 days of the date of the last publication (expected to be January 22, 2018). Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304, (304-926-0450). Full copies or scans of the proposed permit application will cost \$15.00, whether mailed or obtained at DEP headquarters. For information relating to horizontal drilling, and all horizontal well applications filed in this state, visit: www.dep.wv.gov/oil-and-gas-/Horizontal -

Permits/Pages/default.aspx

HG Energy II Appalachia, LLC 01/08/18

RECEIVED Office of Oil and Gas

FEB 1 6 2018

WV Department of Environmental Protection

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

Date of Notice Certification: 01/23/2018

API No. 47-	-
<b>Operator's Well No.</b>	MND20 DU
Well Pad Name: M	ND20

Notice has been given:

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

State:	West Virginia	11TM NIAD 92	Easting:	516847.5
County:	Marshall	UTM NAD 83	Northing:	4411324.4
District:	Franklin	Public Road Ac	cess:	SLS 2/1
Quadrangle:	Powhatan Point	Generally used	farm name:	CONSOL
Watershed:	Short Creek - Ohio River (HUC 10)			

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

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

## **Required Attachments:**

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

FEB 1 6 2018

We Beperment of o Environmental Protection

WW-6AC (1/12)

## Certification of Notice is hereby given:

#### THEREFORE, I Diane White

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

Well Operator:	HG Energy II Appalachia, LLC	Address:	5260 Dupont Road	
By:	Diane White Diane White		Parkersburg, WV 26101	
Its:	Agent	Facsimile:	304-863-3172	
Telephone:	304-420-1119	Email:	dwhite@hgenergyllc.com	
	OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINIA MARK J SCHALL H G Energy LLC PO Box 5519, Vienna, WV 28105	ubscribed and swo	orn before methis 23rd day of January Notary Public	

# **Oil and Gas Privacy Notice:**

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

RECEIVED Office of Oil and Gas

FEB 1 6 2018

WV Department of E06/29/2018

WW-6A (9-13)

# **4705902014**

OPERATOR WELL NO. MND20 DU Well Pad Name: MND20

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 1/29/2018 Date Permit Application Filed: 2/06/2018

Notice of:

 PERMIT FOR ANY
 CERTIFICATE OF APPROVAL FOR THE

 WELL WORK
 CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

PERSONAL	REGISTERED	$\checkmark$	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL		RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	/	COAL OWNER OR LESSEE	
Name: Murray Energy Corporation - A	Alex O'Neill	Name: Same as Surface Owner	
Address: 46226 National Road	•	Address:	_
Saint Clairsville, OH 43950			
Name:		COAL OPERATOR	
Address:		Name:	_
		Address:	
USURFACE OWNER(s) (Road	and/or Other Disturbance)		<u> </u>
Name:		□ SURFACE OWNER OF WATER WELL	
Address:		AND/OR WATER PURVEYOR(s)	
		Name:	_
Name:	·	Address:	
Address:			
		OPERATOR OF ANY NATURAL GAS STO	RAGE FIELD
SURFACE OWNER(s) (Impou	undments or Pits)	Name:	
Name:		Address:	
Address:			
		*Please attach additional forms if necessary	RECEIVED Office of Oil and Gas

FEB 1 6 2018

WY Department of Environ Department of
-------------------------------------------

WW-6A (8-13) API NO. 47-\_\_\_\_\_ OPERATOR WELL NO. MND20 DU Well Pad Name: MND20

#### 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 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.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

#### 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 well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (c) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they there is they 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 1948

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 factors, if necessary.

# 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. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

# 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. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

# Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

# 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 57<sup>th</sup> 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 available to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

FEB 16 2018

06/29/20 and of Environmental Protection

WW-6A (8-13) API NO. 47-OPERATOR WELL NO. MND20 DU Well Pad Name: MND20

# 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-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

## Permit Denial or Condition

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

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

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

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.

RECEIVED Office of Oil and Gas

FEB 1 6 2018

Environmen

WW-6A (8-13)

# Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	Diane White	Address: 5260 Dupont Road	
Telephone:	304-420-1119		Parkersburg, WV 26101	
Email:	dwhite@hgenergyllc.com		Facsimile: 304-863-3172	

# Oil and Gas Privacy Notice:

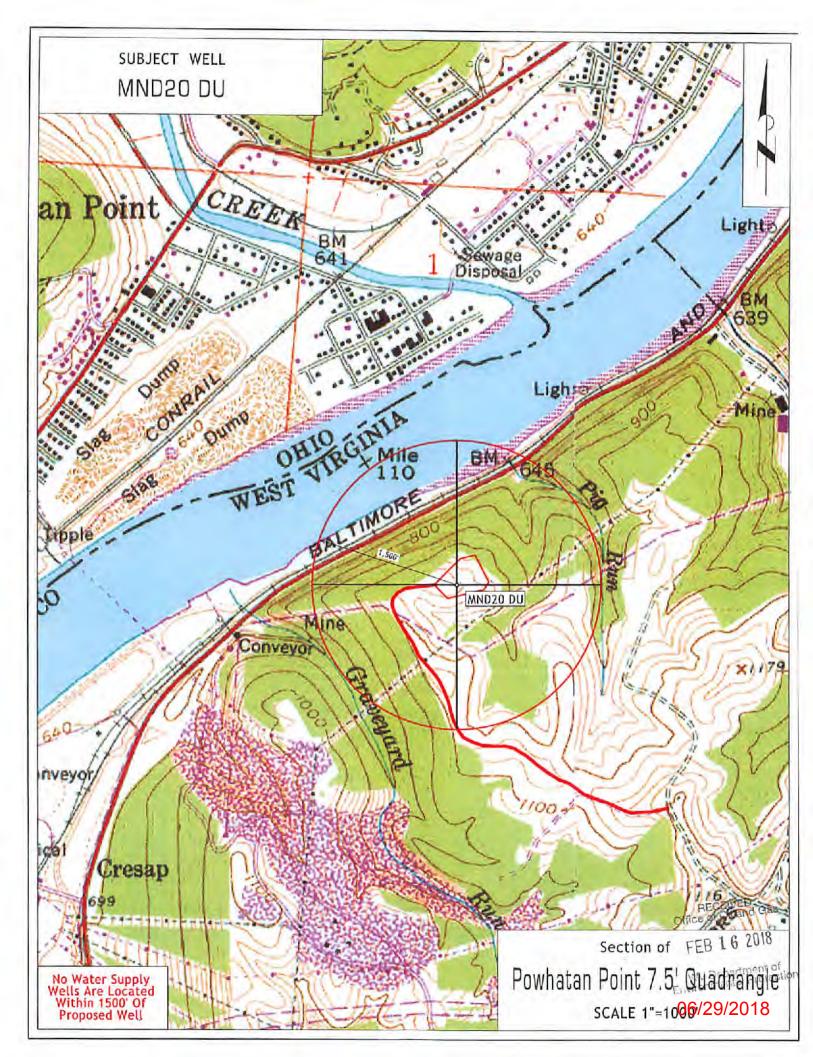
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINIA MARK J SCHALL H G Energy LLC PO Box 5519, Vienna, WV 28105 My Commission Explore Novembar 2, 2021	Subscribed and sworn before me this 29th day of January , 2018 Notary Public My Commission Expires 11/2/2021
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FEB 1 6 2018

WV Department of Environmental Protection



# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 01/23/2018 Date Permit Application Filed: 02/06/2018

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

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.

# Notice is hereby provided to the SURFACE OWNER(s):

Name:	Murray Energy Corporation - Alex O'Neill	Name:
Address:	46226 National Road	Address:
	Saint Clairsville, OH 43950	

#### Notice is hereby given:

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

State:	West Virginia		Easting:	516852.6	
County:	Marshall	UTM NAD 83	Northing:	4411319.6	
District:	Franklin	Public Road Acces	s:	SLS 2/1	
Quadrangle:	Powhatan Point	Generally used far	m name:	Consol	
Watershed:	Short Creek - Ohio River (HUC 10)				

## This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice 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. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

## Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	Authorized Representative:	Diane White	Diane White
Address:	5260 Dupont Road	Address:	5260 Dupont Ro	ad
	Parkersburg, WV 26101		Parkersburg, WV 26101	
Telephone:	304-420-1119	Telephone:	304-420-1119	
Email:	dwhite@hgenergyllc.com	Email:	dwhite@hgenerg	yllc.com
Facsimile:	304-863-3172	Facsimile:	304-863-3172	

# **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business for GEIVED needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office of State agencies about our use or your personal information, please contact of 2018 DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WV Department of Environmental Protection

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 01/24/2018 Date Permit Application Filed: 02/06/2018

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the a	ddress listed in the records of the sheriff a	t the time of notice):
NTaman	Murray Energy Competition - Alex O'Neill	Nama

Name:	Murray Energy Corporation - Alex O'Neill	/	Name:
Address:	46226 National Road		Address:
	Saint Clairsville, OH 43950		

## Notice is hereby given:

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

State:	West Virginia	LITMANADA 02	Easting:	516852.6	
County:	Marshall	UTM NAD 83	Northing:	4411319.6	
District:	Franklin	Public Road Acc	ess:	SLS 2/1	
Quadrangle:	Powhatan Point	Generally used fa	arm name:	CONSOL	
Watershed:	Short Creek - Ohio River (HUC 10)				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	HG Energy II Appalachia, LLC		Address:	5260 Dupont Road	
Telephone:	304-420-1119			Parkersburg, WV 26101	
Email:	dwhite@hgenergyllc.com	Diane White	Facsimile:	304-863-3172	

## **Oil and Gas Privacy Notice:**

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

FEB 1 6 2018 WV Department of Environmental Protection 06/29/2018



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

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

July 28, 2017

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

Subject: DOH Permit for the MND-20 Well Pad, Marshall County

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2012-0609 for the subject site to HG Energy, LLC. for access to the State Road for the well sites located off of Marshall County Route 2/1 SLS.

The operator has signed an 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 January 3, 2012.

Very Truly Yours,

Dacy K. Claytons

Gary K. Clayton P.E. Regional Maintenance Engineer Central Office Oil &Gas Coordinator

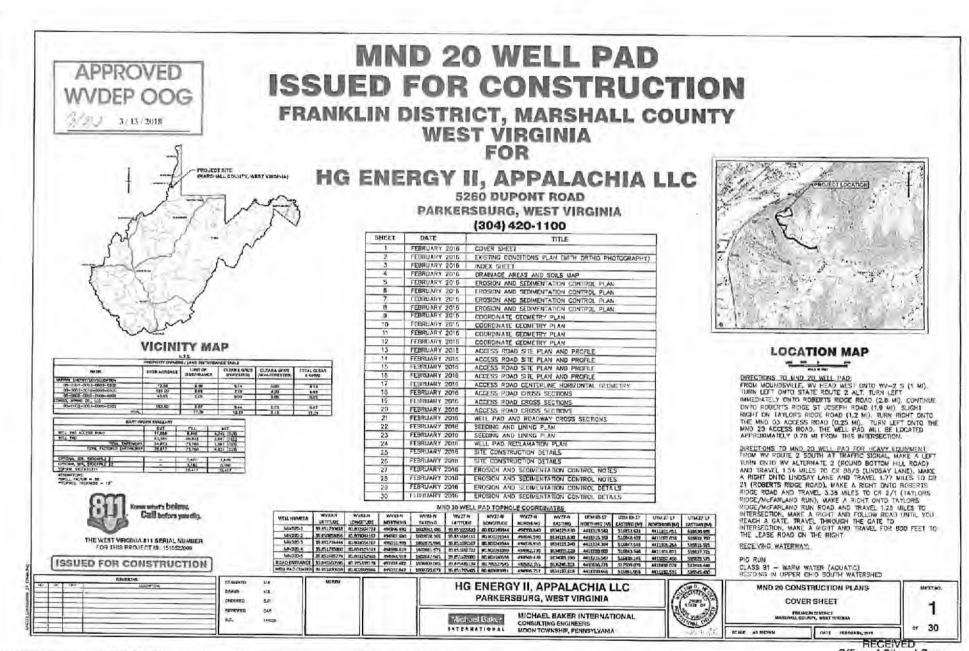


Cc: Diane White H G Energy, LLC CH, OM, D-6 File

# HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # MND20 Well Pad (AU,BU,CU,DU,EU)

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

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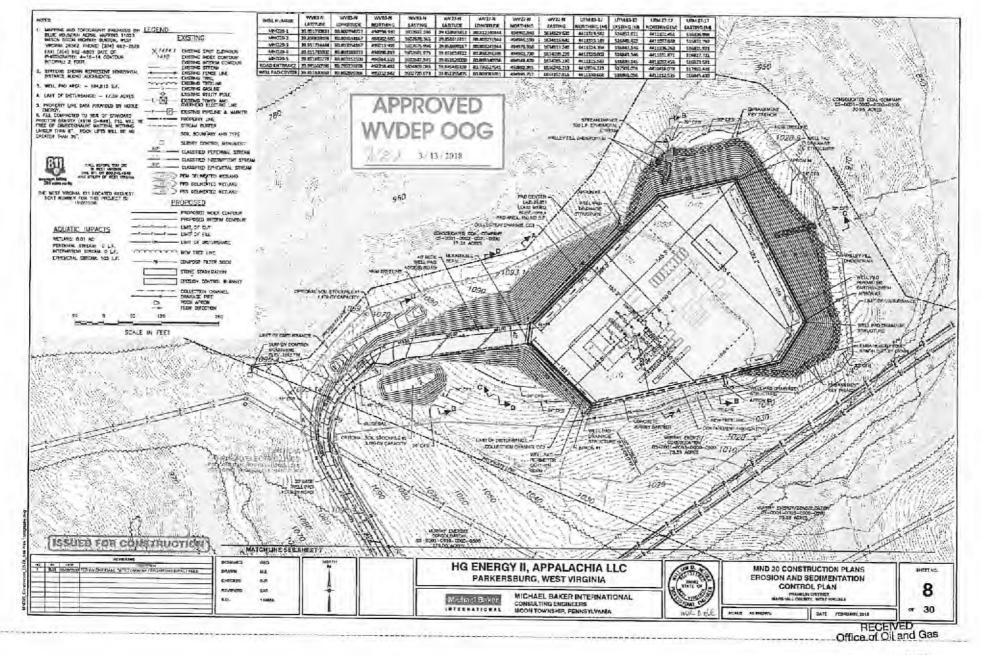
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Office of Oil and Gas

MAR 8 2018

WV Department of Environmental Protection 51-02014



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