

west virginia department of environmental protection

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

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

Thursday, June 27, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for MND23 N-6H

47-051-02214-00-00

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: MND23 N-6H

Farm Name: HG ENERGY II, APPALACHI

U.S. WELL NUMBER: 47-051-02214-00-00

Horizontal 6A New Drill Date Issued: 6/27/2019

API Number: 4705 02214

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 47.05102214

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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47	-	
OPERATOR WE	LL NO.	MND23 N-6 H
Well Pad Nam	e: MND2	3

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

1) Well Operator: HG Energy	II Appalachia,	494519932	Marshall	Franklin	Powhatan Point
24 WHENE \$ 40 PM C.		Operator ID	County	District	Quadrangle
2) Operator's Well Number: MN	ID23 N-6	Well Pa	d Name: MND	23	
3) Farm Name/Surface Owner:	CONSOL/HG Energy II Appala	chia, LLC Public Ros	ad Access: Nix	on Ridge F	Road (SLS 21/1)
4) Elevation, current ground:	1273' El	evation, proposed	post-constructi	on: 1240'	
5) Well Type (a) Gas X Other	Oil	Und	erground Stora	ge	
(b)If Gas Sha	llow X	Deep			
6) Existing Pad: Yes or No No	izontal X		Jn.	4/17/19	
 Proposed Target Formation(s) Marcellus, 6474' - 6540', 66' Th 		ipated Thickness a	and Expected P	ressure(s):	
8) Proposed Total Vertical Deptl	n: 6535'				
9) Formation at Total Vertical D	epth: Marcellus	S			
10) Proposed Total Measured De	epth: 15465'				
11) Proposed Horizontal Leg Le	ngth: 8422'				
12) Approximate Fresh Water St	rata Depths:	538', 801', 898',	947'		
13) Method to Determine Fresh	Water Depths: N	learest offset we	lls		
14) Approximate Saltwater Dept	hs: None				
15) Approximate Coal Seam Dep	oths: 847' - 852	ı.			
16) Approximate Depth to Possi	ble Void (coal mi	ne, karst, other):	None anticipa	ted	BEOL
17) Does Proposed well location directly overlying or adjacent to	contain coal sear	ns	No.		Office of Oil and Gas MAY 7 2019
(a) If Yes, provide Mine Info:	Name: Marsl	hall County Mine		En	WV Department of vironmental Protection
	Depth: 890' t	to seam base			rotection
	Scalli.	ourgh #8			
	Owner: Murra	ay Energy Corpo	ration		

WW-6B (04/15)

API NO. 47	
OPERATOR WELL NO.	MND23 N-6H
Well Pad Name: MND	23

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94	100'	100'	Drilled In
Fresh Water	13 3/8"	New	J-55	54.5	1075'	1075'	CTS
Coal							
Intermediate	9 5/8"	New	J-55	40	3150'	3150'	CTS
Production	5 1/2"	New	P-110	23	15465'	15465'	CTS
Tubing							
Liners							

JA 4/17/19

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

PACKERS

Kind:			
Sizes:		Office of Oil	VED and Gas
Depths Set:			2019

WV Department of Environmental Protection WW-6B (10/14)

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

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,535 feet. Drill to estimated 15,464 TMD, stimulate and be capable of producing the Marcellus Formation. Should an unanticipated void be encountered in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 10.557 acres
- 8.498 acres 22) Area to be disturbed for well pad only, less access road (acres):
- 23) Describe centralizer placement for each casing string:

Conductor - N/A

Surface Casing - Bow Springs (over collars) on first 2 joints then every third joint to 100' from surface Intermediate Casing - Bow Springs (over collars) on first 12 joints, then every third joint to 100' from surface

Production Casing - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor - Drilled in via Dual Rotary (no annular space) Surface Casing - "15.6 ppg PNE-1 + 3% bwoc CaCl 40% ExcessYield =1.20 / CTS Intermediate Casing - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc GaCl 2510 // Lead: 14.8 ppg PNE-1 + 0.35% Production Casing - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA1707ail: 14.8 ppg PNE-1 + 0.35% Production Casing - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA1707ail: 14.8 ppg PNE-1 + 0.35% Production Casing - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA1707ail: 14.8 ppg PNE-1 + 0.35% P Office of Oil and Gas

25) Proposed borehole conditioning procedures:

WV Department of Conductor - Once at casing setting depth, ensure hole is clean at TD Surface Casing - Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimum of 1 hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement. Intermediate Casing - Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimum of 1 hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement. Production Casing - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

WW-6B (10/14)

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

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

Office of Oil and Gas

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*Note: Attach additional sheets as needed.

Total Table Tabl	14459430,65N 1706174,63E
HOLE CASHO CREATION TOP BASE HUD CERIENT CENTRALLERS	MUD CEMENT CENTRALIZERS 14466457.67N 1701864.39E
HOLE CASMO GEOLOGY TOP BARE NLD CENENT CENTRALZERS	AIR EACH EHL AIR Drilled in via Dual Rolary (no annular space) AIR Each: 14.5 ppg PNE-1 + 3.5% bwoc CaCl AIR Each: 14.5 ppg POZ-PNE-1 + 0.3% bwoc EC + 0.75 galfak EP 31. 4.5% bwoc EC + 0.3% bwoc EC + 0.
CASING GEOLOGY TOP BASE NUD CENTRALIZERS	AIR CEMENT AIR Drilled in via Dual Rotary (no annudar space) AIR Drilled in via Dual Rotary (no annudar space) AIR AIR A pag PNE-1 + 35% bwoc Cacl AIR AIR A pag PNE-1 + 2.5% bwoc Cacl AIR andor SOBM Lead: 145 pag POZ-PNE-1 + 0.3% bwoc RS-1 + 1% bwoc RS-1 + 1,50% bwoc RS-1 +
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1.25F 1.25	AIR andor AIR andor Schwe Cacl Sc
Big Line / Big Injun 2164/2256 2258/2300 AIR Lead: 154 ppg PNE-1 + 2.6% bwo Carciners on first 12	AIR and or So Bow Springs (over Circulate & condition @ TO w/ Air. RIH w/ casing cover Circulate & condition @ TO w/ Air. RIH w/ casing collers) on first 12 & fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a minimum of 1 a fill w/ Freeh Water. Circulate a fill w/ Free
Pecono 2464 Pecono 2464 Pecono 2464 Pecono 2464 Pecono 2464 Pecono 2464 Pecono 2624 Pecono 262	A0% Excess / Tall; 16.8 ppg PNE-1 + joints, then every third hole volume, plus 30 bbis of 9% bankonile Gel/60# ploint to 100' from a poly flake, then every third hole volume, plus 30 bbis of 9% bankonile Gel/60# ploint to 100' from a poly flake, then clear casing w/ Fresh Water a surface a flux w/ surface a flux w/ surface a flux w/ surface. Run 1 spiral centralizer every 5 clints from the top of the curve to aurface. Ladd: 14.5 ppg POZ:PNE-1 + 0.3% bwoc MPA170 Tall: 14.5 ppg POZ:PNE-1 + 0.3% bwoc MPA170 Ta
1-65 BTC Gordon 3038 AIR A	40% Excess I set pag PNE-1 + joints, then every third hote volume, plus 30 bbts of 6% bentornite Gel/50# 2.5% byoc CaCl joint to 100' from a pot flake, then clear casing with Fresh Water zero% Excess. CTS Example 10 of 10 of from a point in part of the curve to author 20 of 10 of
Condon 3036 Condon 2066 Condon Condo	Tends Excess. Surface point to 100 from of poly flake, then clear casing w/ Fresh Waster surface. Run 1 spiral centralizer svery 5 joints from the top of the curve to bwoce R3 + 1% bwoe EC1 + 0.3% Byour R3 + 1% bwoe EC1 + 0.7% Balle 1.4 B ppg POZ:PNE-1 + 0.3% Balle 1.4 B ppg POZ:PNE-1 + 6.3% Conce on bottom/TD with casing, circulate at max R3 + 0.75 callsk FP131 + 50% bwoc Sallowshie numo rale for at least 22 horitons an or
Intermediate Casing	Ead: 145 ppg POZ:PNE-1 + 0.3% bwoe EC1 + 0.7% bwoe R3 + 1% bwoe R3 + 1% bwoe M2 + 10.3% bwoe M3 + 1% bwoe M2 + 10.3% bwoe M3 + 10.3% bwoe M2 + 10.3% bwoe M3 + 0.7% allowable at max silowable at max
Rhinestreet 5946 6238 5089 5080 11,5999 14,5 pog POZ:PNE-1+0.3% 11,5999 11,599	Run 1 spiral centralizer every 5 joins from the top of the curve to surface. Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.7% galfak FP13L + 0.3% bwoc MPA170 Tall: 14.8 ppg PNE-1 + 0.3% bwoc R3 + 0.7% allow FP13L + 50.9% bwoc R3 + 0.7% allow FP13L + 50.9% bwoc sillowable numo rale for at least 22 horitoms an or
Rhinestreet 5846 6238 Poct Pinal From the surface. SOBM Poct R3 + 1% base ECj + 0.78 Poct R3 + 1% base ECj + 0	Solution the Solution the Solution the Solution the Solution the Solution the Solution to Solution
Rhinestreet 5846 6238	1845 ppg POZ-PNE-1 + 0.3%
Cachegue 6946 6236 Legit 15 pg Leg	Once on bollom/TD with casting, circulate at max silowaths ourmorate for at least 24 bolloms un or
Cachaqua G236 G302 G302 Tall 14 D396 PNE-1 to 35% byoc	Once on botton/TD with casing, circulate at max sitowable numn rate for at least 2x britoms un or
Sample S	allowable numb rate for at least 2x bottoms up or
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CDC HTQ Burkett 6392 6410 1.2.Ppg 20.001 1.2.	ASCA1 + 0.5% bwoc MPA170
Tully 6410 6439 6474 6540 6439 6474 6540 6439 6474 6540 6540 6540 6540 6540 6540 6540 6540 6550 6540 6550 6540 6550	20% Excess Run 1 spiral centralizer is dean. Circuiste a minimum of one note volume so lead Yelder 1.19
Hamilton 6439 6474 6540	every 3 joints from the 1st 5.5" lone toint to the
Marcellus Marc	top of the curve.
Charles Char	17
Onondaga 6540 S. C.	
Signature of the control of the cont	
8.5" Hole - Cemented Long String	
	1

RECEIVED of Oil and Gas
7 2019
Partment of tal Protection

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

Material Name	Material Type	Material Description Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5	1305-78-8
	24,04,21	strength properties.	Magnesium oxide Crystalline silica; Quartz (SiO2)	1-5	1309-48-4 14808-60-7
remium NE-1	Portland Cement			14144	
		Commonly called gel, it is	Toward to the second	%	CAS number
		a clay material used as a	Ingredient name bentonite	90 - 100	1302-78-9
		cement extender and to control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
ntonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate of strength development			
ium Chloride	Accelerator				
		out a late a state of		Ta.	loss
		Graded (3/8 to 3/4 inch) cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
lo Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in	Ingredient name	%	CAS number
		cementing operations. It is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air		47.101	
		entrapment and			
		preventing foaming			
		tendencies of latex systems.			
-13L	Foam Preventer	o position .			
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.	200	75.00	
		A proprietary product that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.			
-1		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient	/-	ene number
04.170	Cae Milmanhia	rheology, and gas			
PA-170	Gas Migration	migration.			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with cement, Pozzolan can be			40.5
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2) Calcium oxide	5 - 10 1 - 5	14808-60-7 1303-78-87-FC-1
		slurries used as either a	- Januari Wilde	1,39	of Oil
		filler slurry or a sulfate resistant completion			14808-60-7 1393-729-8/7-ECEIV
		cement.			mal 7
z (Fly Ash)	Base				Ma.
		A low tomografica			WW Departmental Pro
		A low temperature retarder used in a wide	Ingradient name	%	CAS mental Pro
		range of slurry	Ingredient name Organic acid salt	40 - 50	Trade secret.
		formulations to extend	The state of the s	40 - 50	ridde secret.
	Data side s	the slurry thickening time.			
	Retarder				
			Ingredient name	%	CAS number
				20 - 30	
			2-Butoxyethanol		111-76-2
		12.001	Proprietary surfactant	10 - 20	Trade secret.
		Used to water wet casing and formation to facilitate	Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkylaryksulfonate amine salt		

List of Frac Additives by Chemical Name and CAS

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

Chemical Name	CAS#	Multiple CAS #'s
Chemical Name	CAS II	Waterpie ene ii 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
4-2		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	

Office of Cil and Gas
MAY 7 2019

WV Department of Environmental Protection

WW-9	
(4/16)	

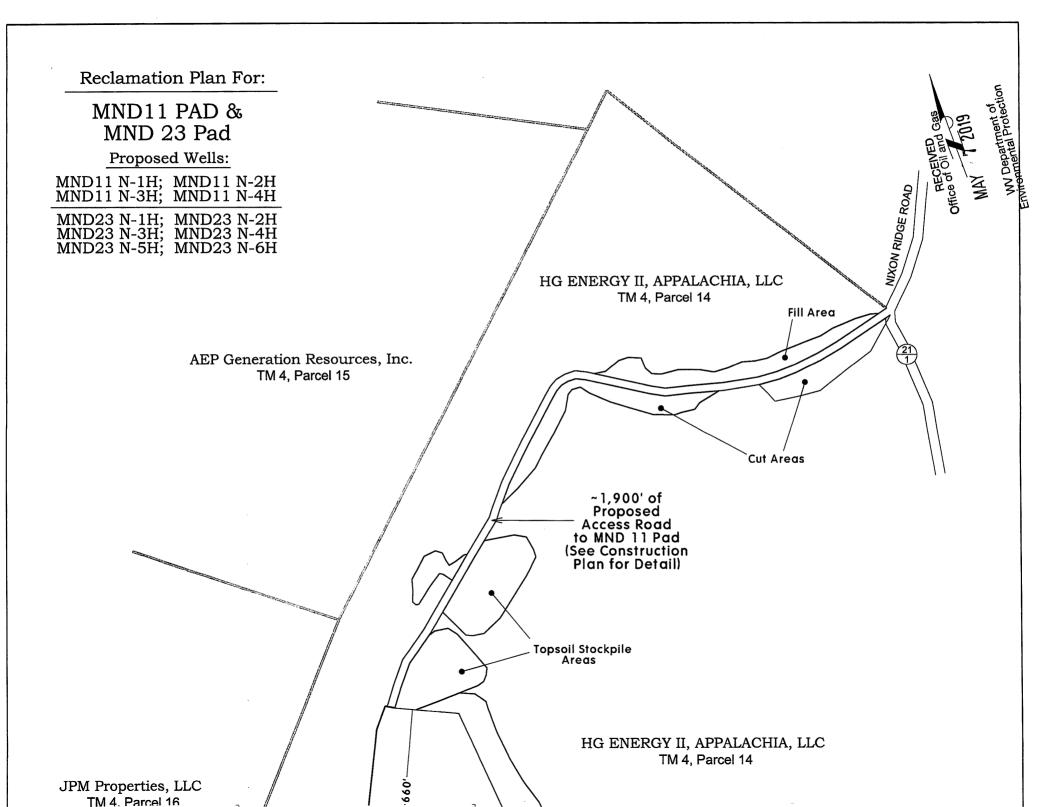
API Number	47 -		
One	rator'e	Well No MND23 N-6H	

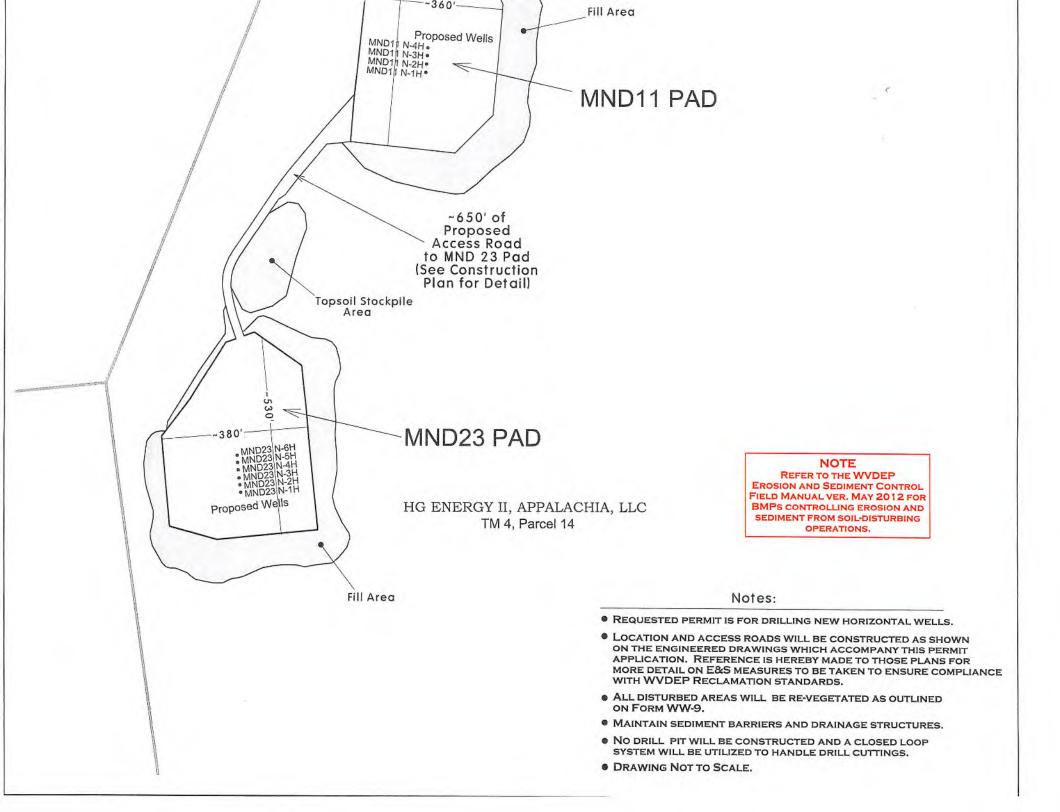
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLOIDS/ COTTINGS	DIGI OUAL & RECEASIANTION I BAIL
Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) Short Creek - Ohio River	Quadrangle Powhatan Point 7.5'
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No V	complete the proposed well work? Yes No
If so, please describe anticipated pit waste: N	
Will a synthetic liner be used in the pit? Yes	No / If so, what ml.?
Proposed Disposal Method For Treated Pit Was	es:
Land Application	
Underground Injection (UIC	
Reuse (at API Number TBD -	
Off Site Disposal (Supply for Other (Explain	n WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes, cutti	igs and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and ho	rizontal)? Air, freshwater, oil based, etc. Vertical - Air, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, e	tc. Synthetic
Additives to be used in drilling medium? Water, Soap, Ko	Cl, Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, ren	noved offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium v	vill be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See A	ttached
	1.C C 1 1 C.1. III Hi
West Virginia solid waste facility. The notice shall be prowhere it was properly disposed.	and Gas of any load of drill cuttings or associated waste rejected at any ovided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violat law or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that	est Virginia Department of Environmental Protection. I understand that the ions of any term or condition of the general permit and/or other applicable conally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for is true, accurate, and complete. I am aware that there are significant possibility of fine or imprisonment.
Company Official Signature Diane White	SECT.
Company Official (Typed Name) Diane White	Office of Oil and Gas
Company Official Title Agent	MAY 7 2019
Subscribed and sworn before me this 17th day	of April , 20 19
- Carl	Notary Public OFFICIAL SEAL NOTARY PUBLIC, STATE OF WEST VIRGE
My commission expires $11/2/202/$	MARK J SCHALL H G Energy LL C PO Box 5519, Vienna, WY 26105 Wy Conumission Explores November 2, 20

Proposed Revegetation Treatm	nent: Acres Disturbed _1	10.5 Acres Prevegetation pl	·
Lime	3 Tons/acre or to corre		
Fertilizer type 10-			
Fertilizer amount	-	lbs/acre	
Mulch_ Hay		2_Tons/acre	
		E	
		Seed Mixtures	
	nporary	Perma	
Seed Type Tall Fescue	lbs/acre 40	Seed Type Tall Fescue	lbs/acre 40
Ladino Clover	5	Ladino Clover	5
Maps(s) of road, location, pit rovided). If water from the p creage, of the land application	it will be land applied, in n area.	and application (unless engineered plans include clude dimensions (L \times W \times D) of the pit, and	
provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by:	it will be land applied, in n area. ed 7.5' topographic sheet	clude dimensions (L x W x D) of the pit, and	l dimensions (L x W), an
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/I	it will be land applied, in n area. ed 7.5' topographic sheet ulch as soon a	clude dimensions (L x W x D) of the pit, and	l dimensions (L x W), an
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/I	it will be land applied, in n area. ed 7.5' topographic sheet ulch as soon a	as reasonably possible per	l dimensions (L x W), an
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/I	it will be land applied, in n area. ed 7.5' topographic sheet ulch as soon a	as reasonably possible per	l dimensions (L x W), an
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/I	it will be land applied, in n area. ed 7.5' topographic sheet ulch as soon a	as reasonably possible per	l dimensions (L x W), an
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/I	it will be land applied, in n area. ed 7.5' topographic sheet ulch as soon a	as reasonably possible per	l dimensions (L x W), an
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/I	it will be land applied, in n area. ed 7.5' topographic sheet ulch as soon a	as reasonably possible per	regulation.
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Plan Approved by: Pre-seed/I	it will be land applied, in a rea. ed 7.5' topographic sheet Tulch as soon a reded per WV I	as reasonably possible per	l dimensions (L x W), an





Cuttings Disposal/Site Water

Cuttings -Haul off Company:

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

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

Environmental Coordination Services & Recycling (ECS&R) 8237 US Highway 19 Cochranton, PA 16314 814-425-7773

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 48903 740-543-4889

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 RECEIVED Office of Oil and Gas

MAY 7 2019

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 2800249 423 West 800 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 8947 US 181 North, PO Box 1030 Kalkaska, MI 49646 281-258-9961

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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

Disposal Locations:

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20758 6065 Arrel-Smith Road Lowelville, OH 44486 930-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 28986 Airport Road Coshocton, OH 48812 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 Carlisle, PA 17015

Myers Well Service, 2001 Ballpark Court Export, PA 15682

Burns Drilling & Excavating 618 Crabapple Road P.O. Box Wind Ridge, PA 15380 RECEIVED
Office of Oil and Gas
MAY 7 2019
WV Department of Environmental Protection

Nichlos 1-A (SWIW #13) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-796-6495 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 #84-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mazena #1 Well (SWIW # 18)
Permit # 34-157-2-5511-00-00
5867 E. State Street
Newcomerstown, OH 48832
740-768-3966

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Sulte 200 Coraopolis, PA 15108 412-829-7275

SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Olifield Services, Inc.
2939 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Com. any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

Chapin #7 UIC (SWIW #7)
Permit # 84-083-2-4187-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

HG Energy II Appalachia, LLC

Site Safety Plan

MND 23 Well Pad 1931 Nixon Ridge Lane Moundsville, Marshall County, WV 26041

March 2019: Version 1

Jul 1/19

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

HG Energy II Appalachia, LLC.

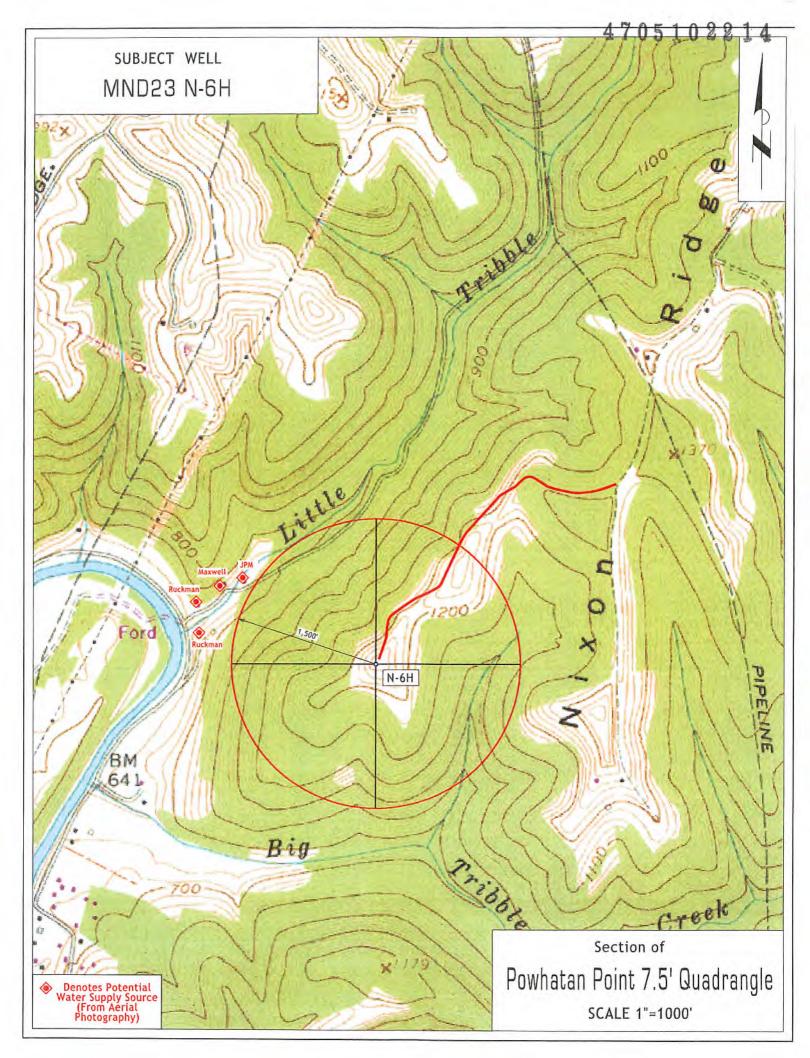
5260 Dupont Road

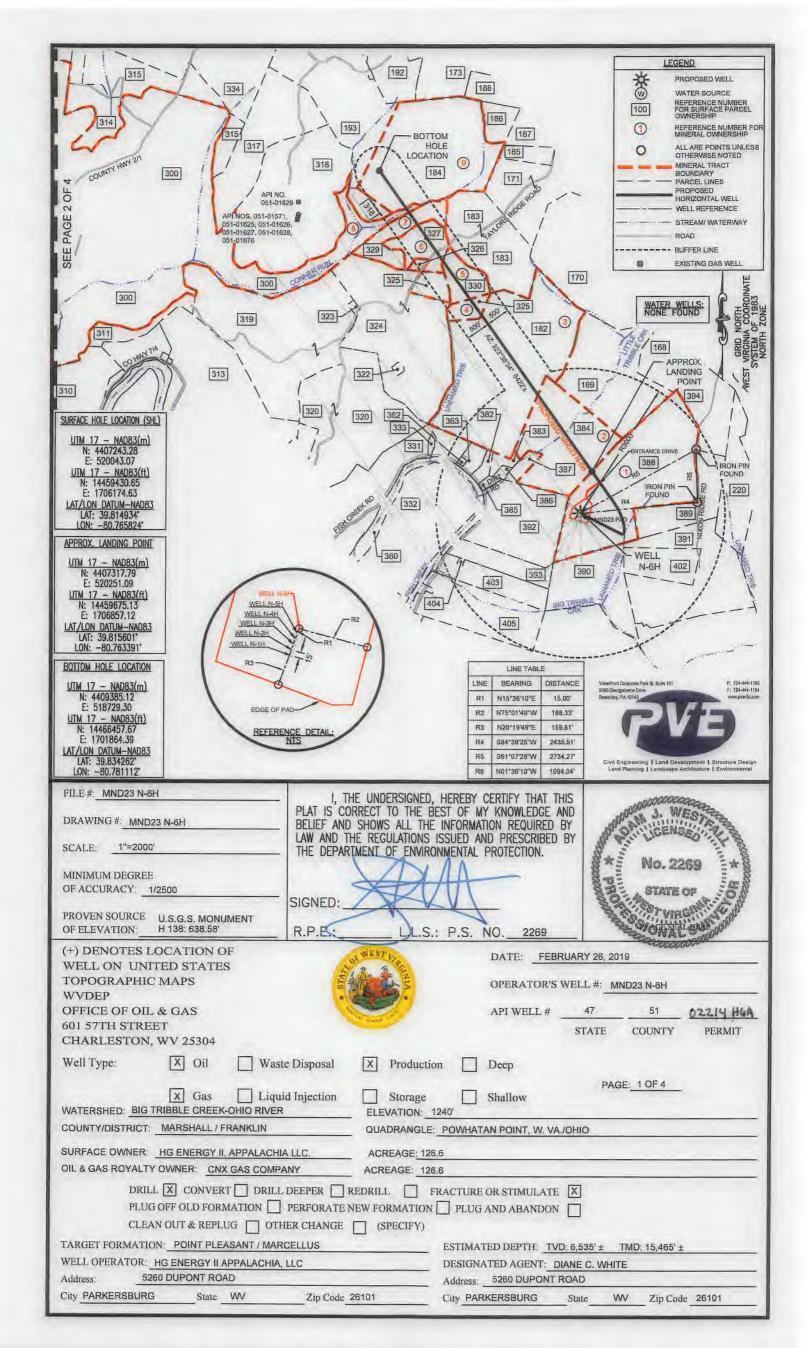
Parkersburg, WV 26101

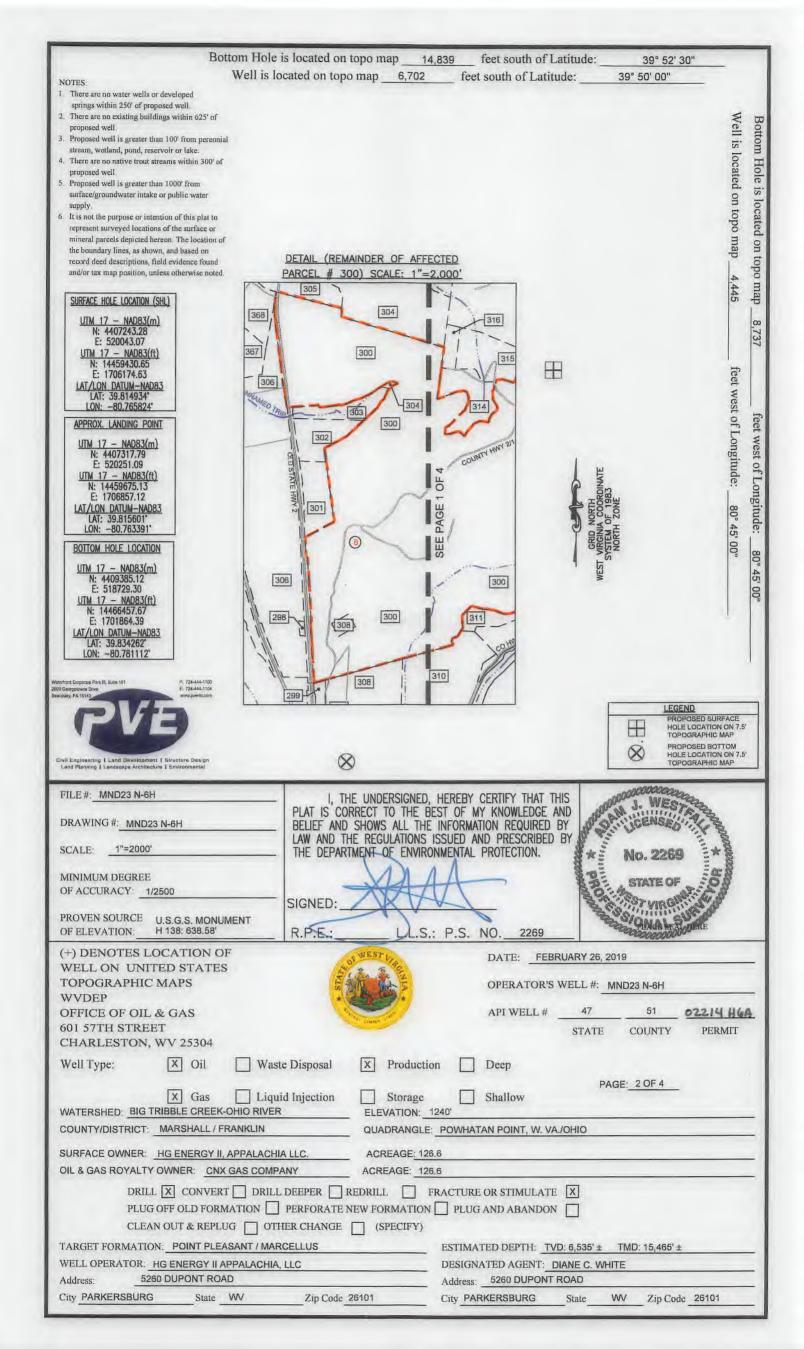
Office of Oil and Gas

MAY 7 2019

Environmental Protection







MCCLINTOCK DALE ET. UX. FRANKLIN REAL ESTATE CO. 170 FRANKLIN REAL ESTATE CO. FASOULETOS ANDREW M. ET. AL 182 CONSOLIDATION COAL COMPANY 183 FRANKLIN REAL ESTATE CO. 184 CONSOLIDATION COAL COMPANY 185 HARTLEY PEGGY S. POTTS JAMES D. ET. UX 186 187 HEATHERINGTON ARDEN RAY 188 POTTS JAMES D. ET. UX. BARNHART THOMAS K. ET. UX. 193 CONSOLIDATION COAL COMPANY MORRIS FRED HET UX CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY 300 OHIO POWER CO. CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY 302 303 CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY 305 306 OHIO POWER CO. 307 CNX GAS COMPANY LLC. CONSOLIDATION COAL COMPANY 308 CONSOLIDATION COAL COMPANY 310 CONSOLIDATION COAL COMPANY 311 CONSOLIDATION COAL COMPANY 313 CONSOLIDATION COAL COMPANY 314 CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY 315 316 CONSOLIDATION COAL COMPANY 317 CONSOLIDATION COAL COMPANY 318 CONSOLIDATION COAL COMPANY 319 OHIO POWER CO SANCHEZ GENEVA BASSETT ROBBINS JAMES E & DIANA C 322 MCGINNIS TIMOTHY L SR ET UX. OHIO POWER CO. FRANKLIN REAL ESTATE CO. FRANKLIN REAL ESTATE CO. FRANKLIN REAL ESTATE CO. MCELROY COAL COMPANY HEATHERINGTON ARDEN RAY MILLER EDWIN C. GATTS RICHARD L CONSOLIDATION COAL COMPANY CLARK BEVERLY E. RUCKMAN SHELDON R. ET. AL. OHIO POWER COMPANY WV DIVISION OF NATURAL RESOURCES RUCKMAN MARVIN E. ET. UX. MAXWELL WILLIAM L. SR. ET. UX. HOLMAN TERRY L MAXWELL WILLIAM JR. HOLMAN TERRY L.

TAX MAP NO. 05-0004-0013-0000-0000 TAX MAP NO. 05-0004-0015-0000-0000 TAX MAP NO. 05-0004-0001-0000-0000 TAX MAP NO. 05-0005-0012-0000-0000 TAX MAP NO. 05-0005-0011-0000-0000 TAX MAP NO. 05-0002-0012-0000-0000 TAX MAP NO. 05-0002-0013-0004-0000 TAX MAP NO. 05-0002-0011-0000-0000 TAX MAP NO. 05-0002-0013-0002-0000 TAX MAP NO. 05-0002-0010-0000-0000 TAX MAP NO. 05-0002-0013-0004-0000 TAX MAP NO. 05-0002-0005-0000-0000 TAX MAP NO. 05-0004-0009-0000-0000 TAX MAP NO. 05-0006-0011-0000-0000 TAX MAP NO. 05-0007-0003-0000-0000 TAX MAP NO. 05-0006-0003-0000-0000 TAX MAP NO. 05-0006-0005-0000-0000 TAX MAP NO. 05-0006-0006-0000-0000 TAX MAP NO. 05-0006-0001-0000-0000 TAX MAP NO. 05-0001-0016-0000-0000 TAX MAP NO. 05-0001-0013-0000-0000 TAX MAP NO. 05-0006-0010-0000-0000 TAX MAP NO. 05-0007-0005-0000-0000 TAX MAP NO. 05-0007-0002-0000-0000 TAX MAP NO. 05-0007-0003-0000-0000 TAX MAP NO. 05-0007-0004-0000-0000 TAX MAP NO. 05-0006-0004-0000-0000 TAX MAP NO. 05-0008-0002-0000-0000 TAX MAP NO. 05-0808-0802-0000-0000 TAX MAP NO. 05-0002-0002-0000-0000 TAX MAP NO. 05-0002-0001-0000-0000 TAX MAP NO. 05-0005-0002-0000-0000 TAX MAP NO. 05-0005-0003-0000-0000 TAX MAP NO. 05-0005-0005-0000-0000 TAX MAP NO. 05-0003-0003-0001-0000 TAX MAP NO. 05-0005-0007-0000-0000 TAX MAP NO. 05-0005-0008-0000-0000 TAX MAP NO. 05-0005-0009-0001-0000 TAX MAP NO. 05-0002-0013-0001-0000 TAX MAP NO. 05-0008-0007-0000-0000 TAX MAP NO. 05-0008-0006-0000-0000 TAX MAP NO. 05-0002-0003-0000-0000 TAX MAP NO. 05-0009-0001-0001-0000 TAX MAP NO. 05-0009-0001-0004-0000 TAX MAP NO. 05-0001-0022-0000-0000 REFERENCE NO. Q-091960000 TAX MAP NO. 05-0004-0018-0000-0000 TAX MAP NO. 05-0004-0016-0000-0000

TAX MAP NO. 05-0009-0001-0002-0000

TAX MAP NO. 05-0004-0019-0000-0000

TAX MAP NO. 05-0004-0017-0000-0000

HOLSTINE BERNARD W. & ROXANN L.
HOLSTINE BERNARD W. & ROXANN L.
LEGG JAMES R. EST.
MCCLINTOCK DALE EDWARD
RUCKMAN JESSIE GLADYS - LIFE
LEGG JEFFERY L.
ANDERSON RHONDA MARIE
MCCLINTOCK DALE EDWARD
LEGG JAMES R EST
WHITE KENNETH E ET UX
ARNOLD LLOYD C & JUDITH C

TAX MAP NO. 05-0004-0014-0000-0000
TAX MAP NO. 05-0004-0014-0002-0000
TAX MAP NO. 05-0009-0003-0000-0000
TAX MAP NO. 05-0009-0001-0000-0000
TAX MAP NO. 05-0009-0001-0000-0000
TAX MAP NO. 05-0009-0002-0001-0000
TAX MAP NO. 05-0009-0002-0000-0000
TAX MAP NO. 05-0009-0002-0000



LEGEND

REFERENCE NUMBER
FOR SURFACE PARGEL
OWNERSHIP

FILE#: MND23 N-6H THE UNDERSIGNED, HEREBY CERTIFY THAT THIS WEST PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND DRAWING#: MND23 N-6H BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY SCALE: 1"=2000" THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. MINIMUM DEGREE OF ACCURACY: 1/2500 SIGNED: PROVEN SOURCE U.S.G.S. MONUMENT OF ELEVATION: H 138: 638.58' Quality P.S. NO. 2269 (+) DENOTES LOCATION OF DATE: FEBRUARY 26, 2019 WELL ON UNITED STATES TOPOGRAPHIC MAPS OPERATOR'S WELL #: MND23 N-6H OFFICE OF OIL & GAS 47 API WELL# 02214 HGB 601 57TH STREET COUNTY STATE PERMIT CHARLESTON, WV 25304 Well Type: X Oil Waste Disposal X Production Deep PAGE: 3 OF 4 X Gas Liquid Injection Storage Shallow WATERSHED: BIG TRIBBLE CREEK-OHIO RIVER ELEVATION: 1240' COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO SURFACE OWNER: HG ENERGY II, APPALACHIA LLC. ACREAGE: 126.6 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6 DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: _TVD: 6,535' ± __TMD: 15,465' ± WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE 5260 DUPONT ROAD Address: 5260 DUPONT ROAD City PARKERSBURG State WV City PARKERSBURG Zip Code 26101 State Zip Code 26101

HG Ptal Number	MPID	Original Lessor	Original Lessee.	Surface Parcel Code
1	05-0004-0014-0000-0000	MILLER CHARLES W	CHEVRON USA INC	388
		PARSONS PAUL ET UX	CHEVRON USA INC	
		RUSSELL SHARON LYN	CHEVRON USA INC	
		HUFF TIMOTHY ET UX	CHEVRON USA INC	
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	
		CRONIN MARY JO	CHEVRON USA INC	
		KURPIL RICHARD ET UX	CHEVRON USA INC	
		CLIFTON CLARA MAE	CHEVRON USA INC	
		EDWARDS GEORGE ET	CHEVRON USA INC	
		KYLE DONNA FAE	CHEVRON USA INC	
		CONNER JUDITH MAY	CHEVRON USA INC	
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	
		AB RESOURCES LLC	NPAR LLC	
		NPAR LLC	Chevron USA INC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
2	05-0004-0016-0000-0000	Terry Holman	TriEnergy Holdings	384
		TriEnergy Holdings	Chevron USA INC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
3	05-0005-0012-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	182
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
1	05-0005-0007-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	325
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
5	05-0002-0013-0001-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	330
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	

6	05-0005-0009-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	327
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
7	05-0005-0009-0001-0000	Consolidation Coal Company	CNX Gas Company, LLC	329
		CNX Gas Company, LLC	Noble Energy, Inc.	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
(8)	05-0006-0003-0000-0000, 05-0005-0001-0000-0000	Consolidation Coal Company	CNX Gas Company, LLC	300
		CNX Gas Company, LLC	Noble Energy, Inc.	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
9	05-0002-00012-0000-0000	Wesbanco Bank, Trustee John T. Gallaher EST	Noble Energy, Inc.	184
		James D. Potts and Nancy C. Potts	Noble Energy Inc.	
		NOBLE ENERGY INC	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Noble Energy INC	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	

Alleicheat Copysus Park II, Siles 101
P - 724-44-1700
P - 724-

LEGEND

REFERENCE NUMBER FOR MINERAL OWNERSHIP

FILE #: MND23 N-6H DRAWING #: MND23 N-6H SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE U.S.G.S. MONUMENT OF ELEVATION: H 138: 638.58'	I, THE UNDERSIGNED, IPLAT IS CORRECT TO THE BEST BELIEF AND SHOWS ALL THE ILAW AND THE REGULATIONS IS THE DEPARTMENT OF ENVIRON SIGNED: R.P.E.: L.L.S.:	NFORMATION REQUIRED BY SUED AND PRESCRIBED BY	No. 2269 * STATE OF 5
	e Disposal X Production	DATE: FEBRUAR OPERATOR'S WEL API WELL# S' Deep Shallow	.L.#:_MND23 N-6H
COUNTY/DISTRICT: MARSHALL / FRANKLIN	QUADRANGLE:	POWHATAN POINT, W. VA./OHI	0
SURFACE OWNER: HG ENERGY II, APPALACHIA	P. C. A. C.		
OIL & GAS ROYALTY OWNER: CNX GAS COMPA "DRILL X CONVERT DRILL: PLUG OFF OLD FORMATION CLEAN OUT & REPLUG OTH TARGET FORMATION: POINT PLEASANT / MARC	DEEPER REDRILL FR PERFORATE NEW FORMATION [ER CHANGE (SPECIFY)	ACTURE OR STIMULATE X	
WELL OPERATOR: HG ENERGY II APPALACHIA,		DESIGNATED AGENT: DIANE	C. WHITE
Address: 5260 DUPONT ROAD		Address: 5260 DUPONT ROAL	D-
City PARKERSBURG State WV	Zip Code 26101	City PARKERSBURG Sta	ite WV Zip Code 26101

WW-6A	1
(3/13)	

Operator's Well N	0
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

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

** See Attached Lease Chain **

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

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

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

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

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

HG Energy II Appalachia, LLC MND23 N-6H Lease Chains

HG Plat Number	MPID	Original Lessor	Original Lassee	Royalty	Book	Page
ng Plat Number	WI ID	MILLER CHARLES W	CHEVRON USA INC	Not less than		
1)	05-0004-0014-0000-0000		2000	1/8	853	5
		PARSONS PAUL ET UX	CHEVRON USA INC	Not less than	000	43
		DUDGELL ENABONIUM	CHEVRON USA INC	1/8 Not less than	853	43
		RUSSELL SHARON LYN	CHEVRON USA INC	1/8	853	42
		HUFF TIMOTHY ET UX	CHEVRON USA INC	Not less than	1855	
		()2() ()()()()()		1/8	846	4
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	Not less than		
				1/8	846	3
		CRONIN MARY JO	CHEVRON USA INC	Not less than	3.70	
		SAVER CONTACT BOOKS	Sustantialities	1/8	846	4
		KURPIL RICHARD ET UX	CHEVRON USA INC	Not less than 1/8	863	59
		CLIFTON CLARA MAE	CHEVRON USA INC	Not less than	1003	33
		CEIT TOTY CENTATIVIAL	CILVION CONTINC	1/8	853	42
		EDWARDS GEORGE ET UX	CHEVRON USA INC.	Not less than	. 62.5	
			***************************************	1/8	853	41
		KYLE DONNA FAE	CHEVRON USA INC	Not less than		
				1/8	853	44
		CONNER JUDITH MAY	CHEVRON USA INC	Not less than	bed	
		WALES THE SAME SAME TO A	An prominerous	1/8 Not less than	853	445
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	1/8	695	529
		AB RESOURCES LLC	NPAR LLC	2/0.	25	484
		NPAR LLC	Chevron USA INC		756	337
			HG ENERGY II			
		Chevron USA INC	APPALACHIA, LLC		41	154
				Not less than	1000	
2)	05-0004-0016-0000-0000	Terry Holman	TriEnergy Holdings	1/8	721	55
		TriEnergy Holdings	Chevron USA INC		28	23
		at war trak inte	HG ENERGY II		9.5	ME.
		Chevron USA INC AEP Generation Resources Inc. and Kentucky	APPALACHIA, LLC	Not less than	41	15
3)	05-0005-0012-0000-0000	Power Company	Noble Energy, Inc.	1/8	829	15
12)	03-0003-0012-0000-0000	Pawer company	HG ENERGY II	1/0	023	1.5
		NOBLE ENERGY INC	APPALACHIA, LLC		39	
		AEP Generation Resources Inc. and Kentucky		Not less than		
4)	05-0005-0007-0000-0000	Power Company	Noble Energy, Inc.	1/8	829	15
		Constitution and A	HG ENERGY II		- 72	
		NOBLE ENERGY INC	APPALACHIA, LLC	Transaction and	39	- 3
66	SE 2002 0741 0004 0000	AEP Generation Resources Inc. and Kentucky	wasta espain isa	Not less than	220	100
5)	05-0002-0013-0001-0000	Power Company	Noble Energy, Inc. HG ENERGY II	1/8	829	15
		NOBLE ENERGY INC	APPALACHIA, LLC		39	
				Not less than		
6)	05-0005-0009-0000-0000	AEP Generation Resources Inc. and Kentucky	Noble Energy, Inc.	Not less than 1/8	829	15
6)	05-0005-0009-0000-0000		Noble Energy, Inc. HG ENERGY II		829	15
6)	05-0005-0009-0000-0000	AEP Generation Resources Inc. and Kentucky			829 39	15
5)	05-0005-0009-0000-0000 05-0005-0009-0001-0000	AEP Generation Resources Inc. and Kentucky Power Company	HG ENERGY II			15
7).		AEP Generation Resources Inc. and Kentucky Power Company NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc.	1/8	39	
7)		AEP Generation Resources Inc. and Kentucky Power Company NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II	1/8 Fee Fee	39 646 752	493
7)	05-0005-0009-0001-0000	AEP Generation Resources Inc. and Kentucky Power Company NOBLE ENERGY INC Consolidation Coal Company	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc.	1/8 Fee	39 646	493
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7)	05-0005-0009-0001-0000	AEP Generation Resources Inc. and Kentucky Power Company NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Consolidation Coal Company	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC	1/8 Fee Fee Fee	39 646 752 39	49:
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7),	05-0005-0009-0001-0000 05-0006-0003-0000-0000, 05-0005-0001-0000-0000	AEP Generation Resources Inc., and Kentucky Power Company NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Wesbanco Bank, Trustee John T. Gallaher EST	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC	Fee Fee Fee Fee Fee Not less than 1/8 Not less than	39 646 752 39 646 752 39	49: 6
7) S)	05-0005-0009-0001-0000 05-0006-0003-0000-0000, 05-0005-0001-0000-0000	AEP Generation Resources Inc., and Kentucky Power Company NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Wesbanco Bank, Trustee John T. Gallaher EST James D. Potts and Nancy C. Potts	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC	Fee Fee Fee Fee Fee Not less than 1/8 Not less than	39 646 752 39 646 752 39	493 66 493 66 58
7) 8)	05-0005-0009-0001-0000 05-0006-0003-0000-0000, 05-0005-0001-0000-0000	AEP Generation Resources Inc., and Kentucky Power Company NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Wesbaneo Bank, Trustee John T. Gallaher EST James D. Potts and Nancy C. Potts NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC	Fee Fee Fee Fee Fee Not less than 1/8 Not less than	39 646 752 39 646 752 39	493 66 493 66 58 164 59
6) 7). 8) 9)	05-0005-0009-0001-0000 05-0006-0003-0000-0000, 05-0005-0001-0000-0000	AEP Generation Resources Inc., and Kentucky Power Company NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Consolidation Coal Company CNX Gas Company, LLC NOBLE ENERGY INC Wesbanco Bank, Trustee John T. Gallaher EST James D. Potts and Nancy C. Potts	HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC CNX Gas Company, LLC Noble Energy, Inc. HG ENERGY II APPALACHIA, LLC Noble Energy, Inc. Noble Energy Inc. CNX Gas Company, LLC Noble Energy Inc. Noble Energy Inc.	Fee Fee Fee Fee Fee Not less than 1/8 Not less than	39 646 752 39 646 752 39	493 66 493 66 58

WV Department of Environmental Protection



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

April 9, 2019

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

RE: Drilling Under Roads - MND23 N-6H

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 dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

Office of Oil and Gas
MAY 7 2019

WW Department of Environmental Protection

Date of Notice Certification: 04/09/2019

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

API No. 47-____-

			•	Well No. MND	
		`	Well Pad N	ame: MND23	
Notice has be	een given:				
Pursuant to the	provisions in West Virginia Code	§ 22-6A, the Operator has provi	ided the req	uired parties v	with the Notice Forms listed
	ract of land as follows:	_	n		
_	West Virginia		Easting:	520043.1	
	Marshall		Northing:	4407243.3	4 (01 0 04/4)
	Franklin	Public Road Acce		Nixon Ridge Roa	(SLS 21/1)
6 mmm. mD	Powhatan Point	Generally used far	m name:	CONSOL	
Watershed:	Little Tribble Creek			•	
it has provided information red of giving the s requirements o Virginia Code	he secretary, shall be verified and solution the owners of the surface described in the owners of the surface described in the owner of the surface owner notice of entry to surface owner of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall the applicant owner	bed in subdivisions (1), (2) an ection sixteen of this article; (ii) urvey pursuant to subsection (a of this article were waived in va- tender proof of and certify to the	d (4), subs that the red a), section the writing by	ection (b), sec quirement was en of this arti- the surface ow	etion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice mer; and Pursuant to West
	Vest Virginia Code § 22-6A, the Optotor has properly served the require		is Notice Co	ertification	
*PLEASE CHEC	CK ALL THAT APPLY				OOG OFFICE USE ONLY
☐ 1. NOTI	CE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE	ED BECAU	JSE NO	□ RECEIVED/
		SEISMIC ACTIVITY WAS			NOT REQUIRED
		DEISHIE HEHRITT WIS	0011200		NOT KEQUIKED
■ 2. NOT	ICE OF ENTRY FOR PLAT SURV	/EY or ☐ NO PLAT SURVE	Y WAS CO	ONDUCTED	RECEIVED
☐ 3. NOT	ICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR POWAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFAC	CE OWNER	
■ 4. NOT	ICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUBI	LIC NOTICE				☐ RECEIVED
■ 6. NOT	ICE OF APPLICATION				☐ RECEIVED

Required Attachments:

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

Office of Oil and Gas

MAY 7 2019

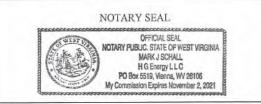
Certification of Notice is hereby given:

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

 By:
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 9th day of April, 2019

Notary Public

My Commission Expires 11/2/202

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

MAY 7 2019

WV Department of Environmental Protection

WW-6A (5-12)

API NO. 47	м	
OPERATOR WE	LL NO.	MND23 N-6H
Well Pad Name:	MND23	

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

Notice Time Requirement: notice shall be provided no later the Date of Notice: 04/17/2019 Date Permit Application Filed: 04/17/2019	han the filing date of permit application. /23/2019	
Notice of:		
PERMIT FOR ANY CONSTRUCTION OF	PPROVAL FOR THE F AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-3	10(b)	
	HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION	
or by registered mail or by any method of delivery that requires erosion and sediment control plan required by section seven of owners of record of the surface of the tract on which the well is tract or tracts overlying the oil and gas leasehold being develop roads or other land disturbance as described in the erosion and seven of this article; (3) The coal owner, operator or lessee, in located [sic] is known to be underlain by one or more coal sear oil and gas leasehold being developed by the proposed well we enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the app within one thousand five hundred feet of the center of the well domestic animals; and (6) The operator of any natural gas store (c)(1) If more than three tenants in common or other co-owner the lands, the applicant may serve the documents required upon	Iment or pit as required by this article shall deliver, by personal sers a receipt or signature confirmation, copies of the application, the f this article, and the well plat to each of the following persons: (1) is or is proposed to be located; (2) The owners of record of the surfaced by the proposed well work, if the surface tract is to be used for a sediment control plan submitted pursuant to subsection (c), section the event the tract of land on which the well proposed to be drilled ms; (4) The owners of record of the surface tract or tracts overlying ork, if the surface tract is to be used for the placement, construction y impoundment or pit as described in section nine of this article; (5) colicant to have a water well, spring or water supply source located a pad which is used to provide water for consumption by humans or age field within which the proposed well work activity is to take person described in subsection (b) of this section hold interest to the person described in the records of the sheriff required to be on-a of this code. (2) Notwithstanding any provision of this article to the subsection holder is the landowner. COAL OWNER OR LESSEE	the face report of the face repo
Name: HG Energy II Appalachia, LLC	Name: Murray Energy Corporation	
Address: 5260 Dupont Road	Address: 46226 National Road	
Parkersburg, WV 26101 Name:	St Clairsville, OH 43950	
Address:	☐ COAL OPERATOR	
	Name:	
■ SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:	
Name: HG Energy II Appalachia, LLC		
Address 5260 Dupont Road	☐ WATER PURVEYOR(s)	
Parkersburg, WV 26101	Name:	
Name:Address:	Address:	
Audioss.		
SURFACE OWNER(s) (Impoundments/Pits)	\square OPERATOR OF ANY NATURAL GAS STORAGE FIELD	
Name:	Name: Office of	CEIVED Oil and Gas
Address:	Address:	Oil and Gas
	*Please attach additional forms if necessary MAY	7 2010
	WV Depa Environmenta	rtment of al Protection

WW-6A	
(5-12)	

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

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No wellpad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable means of mitigating such and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such

MAY 7 2019

WW-6A	
(5-12)	

factors, if necessary.

API NO. 47-		
OPERATOR WE	LL NO.	MND23 N-6H
Well Pad Name:	MND23	

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

API NO. 47	
OPERATOR WELL N	O. MND23 N-6H
Well Pad Name: MND2	3

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

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC Dione White Telephone: 304-420-1119

Email: ______dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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

NOTARY PUBLIC. STATE OF WEST VIRGINIA
MARK J SCHALL
H G Energy L L C
PO Box 5519, Vienna, WV 28105
My Commission Expires November 2, 2021

Subscribed and sworn before me this _

9 day of ARRIL 2019

Notary Public

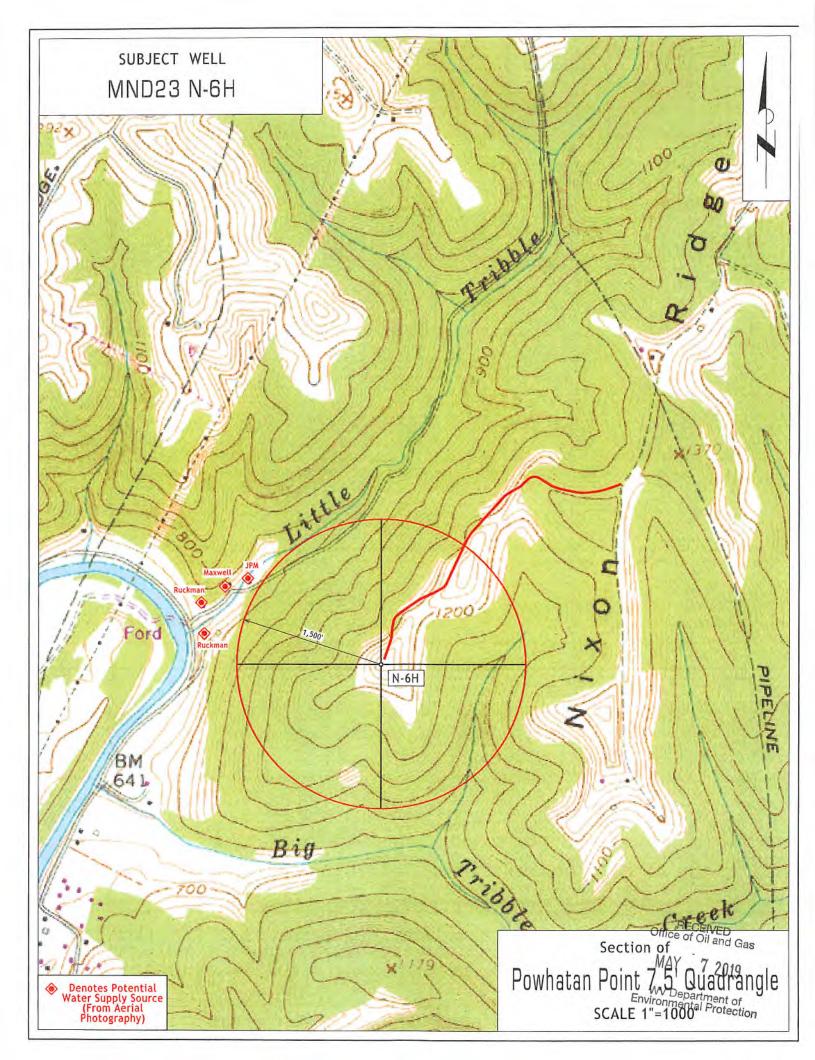
My Commission Expires_

12/2021

Office of Oil and Gas

MAY 7 2019

WV Department of Environmental Protection



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

CHILV	1,000	rouse shan se pro	raca at roast DE 1 1211 (1) de	lys but no more than	n FORTY-FIVE (45) days prior to
entry Date of Notice:	2/25/19	Date of Pla	med Entry: 3/6/19		
Delivery metho	od pursuant t	to West Virginia C	ode § 22-6A-10a		
☐ PERSONA	AL 🗆	REGISTERED	■ METHOD OF DE	LIVERY THAT RE	EQUIRES A
SERVICE		MAIL	RECEIPT OR SIG	NATURE CONFIR	MATION
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, which enable the surfa	e tract to cond in forty-five d act that has fil als underlying control Manua h statement slace owner to o	duct any plat survey ays prior to such en ed a declaration put such tract in the coll and the statutes are all include contact obtain copies from the	required pursuant to this a ry to: (1) The surface owns suant to section thirty-six, a unty tax records. The notion of rules related to oil and ga information, including the a	rticle. Such notice ser of such tract; (2) that it is such tract; (2) that it is said to said the said track as the said track as exploration and provided that is exploration and provided that is exploration and provided tracks.	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to
Notice is hereb		0;	□		
■ SURFACE	2.4	2		L OWNER OR LE	
. 10011101	ergy II Appalachia,	LLC	Name:	Murray Energy Corporation	n
Address: 5260 Do	sburg, WV 26101		Address:	46226 National Road St. Clairsville, OH 43950	
				St. Glalisville, OTT 40300	
Address:			■ MIN	ERAL OWNER(s)	
			Name:	- See Attached List -	
Name:			Address:		
Address:					
			*please atta	ch additional forms if ne	cessary
Notice is here	hy given				
		ode 8 22-6A-10(a), r	otice is hereby given that t	he undersigned well	l operator is planning entry to conduct
a plat survey on			2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		Abreme in branching sons, in second
	West Virginia		Approx. Lati	tude & Longitude:	39.814934 / 80.765824
County: N	Marshall		Public Road	Access:	Nixon Ridge Road - SLS 21/1
District:	ranklin		Watershed:		Short Creek - Ohio River
Quadrangle: P	Powhatan Point 7.5'		Generally us	ed farm name:	Consol
may be obtained Charleston, WV	d from the Sec 25304 (304)	cretary, at the WV I -926-0450). Copies	epartment of Environment	al Protection headqı tional information r	il and gas exploration and production uarters, located at 601 57 th Street, SE, elated to horizontal drilling may be
Notice is here	by airon be				
Notice is here Well Operator:			Address:	5000 D 1 D 1	OFFICERED
" on Operator.		paracrita, LLO	Address:	5260 Dupont Road Parkersburg, WV 26101	Office of Oil and Gas
	204 420 4440				
Telephone: Email:	304-420-1119 dwhite@hgenerg	ulle com	Facsimile:	304-863-3172	MAY 7 2010

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory on 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.

MND 23N 6H

<u>WW-6A3</u> (1-12)

Page 1 Continued

Mineral Owners

MILLER, CHARLES W 436 Limerick Drive Lynchburg, OH 45142

RUSSELL, SHARON LYN 100 North Wabash Wheeling, WV 26003

ARNOLD, LLOYD C ET UX 53661 Arman Hill Road Powhatan Point, OH 43942

KURPIL, RICHARD ET UX 20 Sandy Drive Benwood, WV 26031

EDWARDS, GEORGE ET UX 334 North Front Street Wheeling, WV 26003

CONNER, JUDITH MAY P.O. Box 611 Moon Township, PA 15108

Terry Holman 8563 Township Road Alvada, OH 44802

Consolidation Coal Company 1000 Consol Energy Drive Canonsburg, PA 15317 PARSONS, PAUL ET UX 780 Fairmont Pike Wheeling, WV 26003

HUFF, TIMOTHY ET UX 32 Huff Lane Glendale, WV, 26038

CRONIN, MARY JO 67564 North Ray Road St. Clairsville, OH 43950

CLIFTON, CLARA MAE 24 Tear Drop Drive Valley Grove, WV 26060

KYLE, DONNA FAE 1082 Cherry Hill Road Wheeling, WV 26003

SCHEIBELHOOD, PAUL ET AL RR 1 Box 216 Proctor, WV 26055

AEP Generation Resources Inc. and Kentucky Power Company P.O BOX 16428

Columbus OH 43215

Wesbanco Bank, Trustee Of John T. Gallaher EST 1 Bank Plaza Wheeling, WV 26003

Office of Oil and Gas
MAY 7 2019

WV Department of Environmental Protection

HG Energy II Appalachia, LLC

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

February 25, 2019

RE: MND

MND23 Well Pad (N-1H thru N-6H) Franklin District, Marshall County West Virginia

Dear

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Your rights as a royalty owner can be obtained from the Secretary at the WVDEP at 304-926-0450.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

Office of Oil and Gas
MAY 7 2019

WW Department of Environmental Protection

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

WAIVER

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

Surface Owner Waiver:

I, Eric Grayson, for HG Energy II Appalachia, LLC, hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:		West Virginia	LITMANAD 02	Easting:	520043.1
County:		Marshall	UTM NAD 83	Northing:	4407243.3
District:		Franklin	Public Road Acc	cess:	Nixon Ridge Road (SLS 21/1)
Quadrang	le:	Powhatan Point	Generally used t	farm name:	CONSOL
Watershee	d:	Little Tribble Creek			
	F.1. (Occupan VR UG Forest II Assessable U.C.	01	5	91
Titalite.		Grayson, VP, HG Energy II Appalachia, LLC	Signature:	(10)	says of
Address:	5260	Dupont Road			
	Parke	ersburg, WV 26101	Date: 04/03/	2019	

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

MAY 7 2019

WV Department of Environmental Protection

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

Date of Notice	Requirement: notice shall be procee: 04/11/2019 Date Po		pplication Filed: 04/1		аррисацоп.		
Delivery met	hod pursuant to West Virginia	Code §	22-6A-16(c)				
■ CERTI	FIED MAIL	П	HAND				
	RN RECEIPT REQUESTED	_	DELIVERY				
KLIOI	CV RECEIL I REQUESTED		DEBIVERT				
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	V. Va. Code § 22-6A-16(c), no la requested or hand delivery, give operation. The notice required be provided by subsection (b), section proposed in the surface affected by oil and gas described by this section shall be be provided to the SURFACE	the surfa y this so on ten o sed surfa operation e given t	ace owner whose land ubsection shall inclu- f this article to a surf- ace use and compen- ns to the extent the da- to the surface owner a	I will be used for de: (1) A copy ace owner whost action agreement amages are compate the address list	or the drilling of this code he land will be to t containing pensable under sted in the rec	of a horizon section; (2 se used in contain an offer of er article size	ntal well notice of) The information injunction with the compensation for k-b of this chapter.
Notice is her	eby provided to the SURFACE s listed in the records of the sherif	f at the	time of notice):	Not ber	5		
	nergy II Appalachia, LLC	r at the	Name:				
Address: 5260		_	Address	3:			
	ersburg, WV 26101						
State: County:	the surface owner's land for the p West Virginia Marshall	***************************************	UTM NAD 8	Easting: Northing:	520037.3 4407221.2		
District:	Franklin Point		Public Road		Nixon Ridge Ros	ad (SLS 21/1)	
Quadrangle: Watershed:	Powhatan Point		Generally use	ed farm name:	CONSOL	_	
watersned:	Little Tribble Creek		_				
Pursuant to V to be provide horizontal we surface affect information r	Shall Include: Vest Virginia Code § 22-6A-16(c) And by W. Va. Code § 22-6A-10(l) All; and (3) A proposed surface us and by oil and gas operations to the celated to horizontal drilling may allocated at 601 57th Street, SE, ault.aspx.	b) to a see and conhe externion be obta	surface owner whose empensation agreement the damages are co- tined from the Secret	e land will be unt containing an ompensable und ary, at the WV	ised in conju offer of com er article six- Department	nction with pensation : -b of this c of Environ	n the drilling of a for damages to the hapter. Additional mental Protection
Well Operato	r: HG Energy II Appalachia, LLC		Address:	5260 Dupont Road		Office	CEIVED
Telephone:	304-420-1119			Parkersburg, WV 26	101	-111CO C	Oil and Gas
Email:	dwhite@hgenergyllc.com		Facsimile:	304-863-3172		MAY	7 2010
Oil and Gas The Office of	Privacy Notice: Oil and Gas processes your perso	onal info	rmation, such as nam	e, address and t	elephone nun	WV Dep Environmen nber, as par	artment of

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

March 18, 2019

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

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the MND-23 Well Pad, Marshall County MND-23 N-6H Well Site

Dear Mr. Martin,

This well site will be accessed from Permit #06-2019-0284 issued to HG Energy II Appalachia for access to the State Road for a well site located off of Marshall County 21/1 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Gay K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy II, LLC

CH, OM, D-6

File

Office of Oil and Gas

MAY 7 2019

WV Department of Environmental Protection

List of Frac Additives by Chemical Name and CAS

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

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

Office of Oil and Gas

MAY 7 2019

WV Department of Environmental Protection



MOUNDSVILLE MARSHALL COUNTY WEST VIRGINIA

CONSTRUCTION SEQUENCE

1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.

2. Site access - This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking stockpiles.

3. Sediment Barriers - Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.

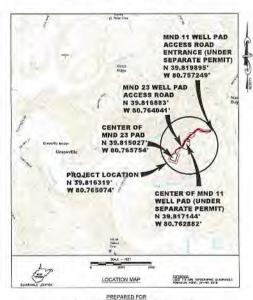
4. Land Clearing and Grading - Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.

5. Surface Stabilization - Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.

8. Construction of Buildings, Utilities, and Paving - During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may

7. Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.

8. Final Stabilization, Topsoiling, Trees and Shrubs - After construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the RMP



HG ENERGY II APPALACHIA, LLC

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

PREPARED BY PENN ENVIRONMENTAL & REMEDIATION, INC.

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

Final Development				
-	Cut		Fit	Stockpile 930
MND 23 Pac	69.450	85	470	1000
Acons Bord	100		99C	-490
Total	80,550	. 69	0.050	490
Total Ste 9 Januar	_		_	499 Cut
Stroped Toosof (Li	mit of Earthwork			6.167
Est. Seed Factor		(50%)		1,733
Est. Topsoil Stockpi				7,400
Est. Topsoil To Be				1,850
Minimum Total Shoo	kple Capacity	legured.	(C.Y.)	6,040
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SHT. NO.	SHEET TITLE
1	TITLE SHEET
2A-2E	SITE DEVELOPMENT PLANS
3	PAD & STOCKPILE SECTIONS
4A-4B	ACCESS ROAD SECTIONS
5A-5F	CONSTRUCTION NOTES & DETAILS
6A-6C	RESTORATION PLAN
7	PROPERTY MAP

WELL #	LAT.	LONG.
1	N 39,814735	W 80.765892
2	N 39.814774	W 80.765878
3	N 39.814814	W 80.765865
4	N 39.814854	W 80.765851
5	N 39.814894	W 80.765838
5	N 39.814934	W 80.765824

								LATITUDE	LONGITUDE
MND	23	WELL	PAD	ACCESS	ROAD	ENTRANCE	N	39.816883	W 80.764041
MND	11	WELL	PAD	ACCESS	ROAD	ENTRANCE	N	39.819895	W 80.757249

RECORD OWNER	RECORD- LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
HG ENERGY PROPERTY	TM 4 PARCEL 14	121.531 AC.	18.979 AC.
NIXON RIDGE LN ROW	N/A	N/A	0.025 AC
TOTAL LIMIT	OF DISTURBANCE		19.004 AC.

RECEIVER FO as PENCONT CONFESTOR THERE FARTS	A HIS PERSONAL US ON, NO., T MUST NO E WOR WASH ASSESSED.	NEW DRAWNING OF A TRACE SOCIATION ONLY DETRIBUTED TO THE C. WITHOUT THE SOURCE WITHOUT COMMENT OF THOSE SEMICIONALISMS. IT BY COMMENT AND WARRAND TO THEMP PROFILES, INCLUDING MIRE TO SEMICH PROFILES, AND INCLUDE LOSS OF THE PERCENTER OF SCHOOLSTOP CAN CONSTRUCT A CAMER TOR LEDAR, ACTION, THESE SECURIORS OF THE COMMENT.
REVISION	STAG	DESCRIPTION
- 1	01/24/2019	REVISED WELL PAD DIVENSIONS
2	02/01/2019	REVISED WELL PAD DIVIDUSIONS
3	02/05/2019	MEVISED CELLAR DETAIL
4	04/29/2019	REVISED TO INCLUDE ACCESS TO PUBLIC ROAD
- 5	05/17/2019	POTEGO AC ULAMBRIA A MIGETA TO SEM SHAAF.
5	05/29/2019	REVISED PER WIDEP CONVENTS
_		



TITLE SHEET HG MND 23 MARSHALL COUNTY WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

WEST VIRGINIA

YOU DIG!

Dial 811 or 800.245.4848



SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE ARRAPANISHLE FOR LOCATING MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTRACAL SERVICE.

