

west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Tuesday, November 9, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / Re-Work

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit Modification Approval for MND 1 MHS

47-051-01839-00-00

Lateral Extension

HG ENERGY II APPALACHIA, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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 1 MHS

Farm Name: CONSOLIDATION COAL COMPANY/ MURRAY E

U.S. WELL NUMBER: 47-051-01839-00-00

Horizontal 6A Re-Work

Date Modification Issued: 11/9/2021

Promoting a healthy environment.



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101

(304) 420-1100 - Office

(304) 863-3172 - Fax

October 19, 2021

WV DEP Division of Oil & Gas Attn: Cragin Blevins 601 57th Street Charleston, West Virginia 25304 CK# 628714

RE:

MND1 MHS Request for Permit Revision – (47-051-01839)

Clay District, Marshall County, West Virginia

Request for Modification Due to Acquiring Additional Leases

Dear Mr. Blevins -

Per our discussions, enclosed are revised forms (survey plat, mylar, WW-6B, casing schematic, and WW6A-1) for the requested MND1 MHS well work permit revision. Also included is a check to cover the cost of requesting a modification for an existing permit. We ask the permit be modified to reflect additional leases acquired to lengthen the lateral.

Please let me know if you have any questions or require additional information. I can be reached at (304) 420-1119 or dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

OCT 29 2021

WV Department of Environmental Protection

Barry Stollings - DEP State Inspector cc:

API NO. 47-051	_ 01839	1	
OPERATOR W	ELL NO.	MND1 MHS	1
Well Pad Na			

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

								1
	HG En	eray II	Appalach	nia. L	494519932	Marshall	Clay	Powhatan Point
) Well Operat	or: IIG LIN	97 117		. [2]	Operator ID	County	District	Quadrangle
		MANID	1 MUS	-		ad Name: MNI	D1 /	
) Operator's V	Vell Number	: IVIND	I MH2					
i) Farm Name	Surface Own	ner: M	urray En	ergy (Corp Public R	oad Access: Co	ounty High	way 60/0
1) Elevation, c	urrent groun	d: 11	50'	E	levation, propose	ed post-construc	tion: 1150)' (pad constructe
5) Well Type		X	0)il	Ur	nderground Stor	rage	
) Woll Type	Other							
	(b)If Gas	Shallo	ow >	X	Deep	1		_
	(0)11 023	Horiz	** C. O. C.	X		MAN	· whel	151
6) Existing Pa	d. Ves or No	Yes					10/25/	
)) Existing I a	orget Format	tion(s)	Denth(s).	Antio	cipated Thicknes	s and Expected	Pressure(s):
/) Proposed 1	262' - 6309',	47' Thic	k. 4204 ps	si				
		-	62001	/				
8) Proposed T	otal Vertical	Depth:	6290	rcellu	10/			
8) Proposed T 9) Formation	otal Vertical at Total Vert	Depth:	pth: Ivia	rcenu				
9) Formation	at Total Vert	tical De	oth: 135	524'				RECEIVED GAS
9) Formation 10) Proposed	at Total Vert Total Measu	tical Dep red Dep	oth: 135	524'	/		1	RECEIVED Office of Oil and Ges
 Formation Proposed Proposed 	at Total Vert Total Measu Horizontal L	tical Dep tred Dep Leg Len	oth: 135	524' / 65'	/	01', 898', 947'	1	RECEIVED Office of Oil and Gas OCT 29 2021
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DI	NO	47-	051	01839	
41.1				 110	2

OPERATOR WELL NO. MND1 MHS
Well Pad Name: MND1

18)

CASING AND TUBING PROGRAM

10)						INTERVALS:	CEMENT:
TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	Left in Well (ft)	Fill-up (Cu. Ft.)/CTS
	2011		J-55	94	40" "Already grouted in"	40'	CTS
Conductor	20"	New	177	The second second	1100'	1100'	40% excess yield = 1.18, CTS
Fresh Water	13 3/8"	New	J-55 BTC	54.5	1100		
Coal					22001	2600' /	40% excess, yield = 1.2, CTS
Intermediate	9 5/8"	New	J-55 BTC	40	2600'		AND THE RESERVE TO TH
Production	5 1/2"	New	P-110 HP	20	13524'	13524' /	10% excess, yield ≈ 1.34, CT8
Tubing							
Liners							

MgK 10/25/2021

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"	26"	0.438	2110		Type 1. Class A	CTS
Fresh Water	13 3/8"	17.5"	0.380	2730		Type 1, Class A	40% excess, yield = 1.
Coal					1		
Intermediate	9 5/8"	12 1/4"	0.395	3950	/	Type 1, Class A	
Production	5 1/2"	8 1/2"	0.361	14360	10000	Type 1, Class A	10% excess, yield = 1
Tubing							
Liners							1

PACKERS

Kind:	Drive of Oil and Gas
Sizes:	QCT 2.9 2021
Depths Set:	Wy Department of Environmental Protection

WW-6B	
(10/14)	

API NO. 47-051	- 01839	
OPERATOR WE	LL NO.	MND1 MHS
Well Pad Nam	e: MND1	

9	Describe proposed	well work	. including	the drilling	and plugging	g back of	any pilot hole:
L / I	Describe brobesed	TYOM TYOM	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,290 feet. Drill horizontal leg to estimated 6,665' lateral length, 13,524' TMD. Hydraulically fracture and stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void 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 to exceed 10,000 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.0 (already built)
- 22) Area to be disturbed for well pad only, less access road (acres): 7.6 (already built)

23) Describe centralizer placement for each casing string:

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 Casting - 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:

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OCT 29 2021

WV Department of Environmental Protection

Surfaco Casing - "15.6 ppg Class A Nest 948/ax40% Excess/ricid=1.18 / CTS"

Intermediate Casing - "15.6 ppg Class A 948/bx1% Casism BWOC - 40% Excess/ricid=1.2 / CTS"

metrifice Carting - "Class A 14 8 poor/feld 1.340255 - 0.4% BWOB Fixed LossD193 - 0.55% BWOB RetarderD047 - 0.02 gal / sack Anti Foam0208 - 0.05% BWOB Viscosifier10% Excess"

25) Proposed borehole conditioning procedures:

Conductor - Once at casing setting depth, ensure hole is clean at TD

Surface Cassing - Circulate & condition @ TD will Air. Rith will cassing & SI will Frish Water prior to pumping coment.
Intermediate Cassing - Circulate & condition @ TD will Air. Rith will cassing & SI will Fresh Water. Circulate a minimum of 1 hole volume, plus 30 bibs of 6% bentonite Gel/50s of poly faile, then clear cassing will Fresh Water prior to pumping comen.

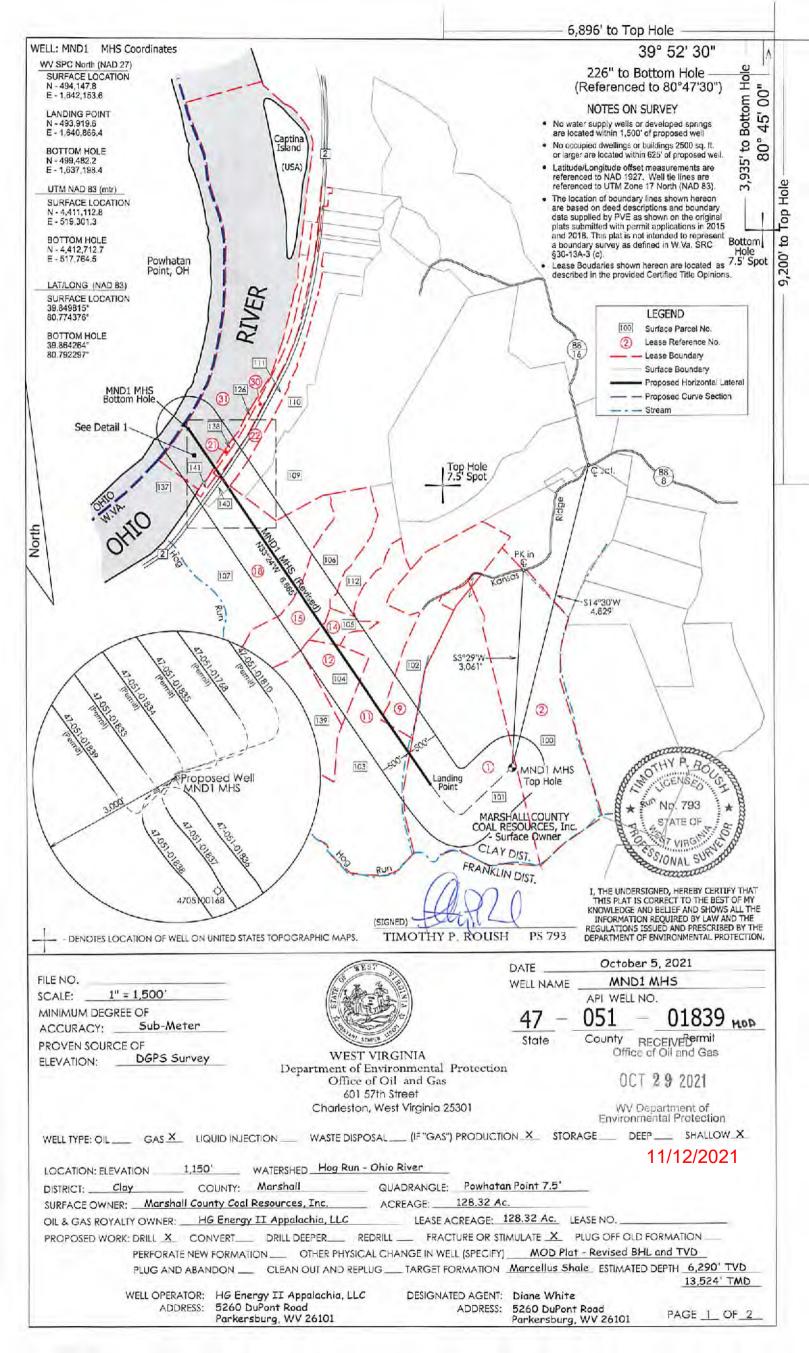
Production Classing - Once on bottom/TD with cassing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cemen

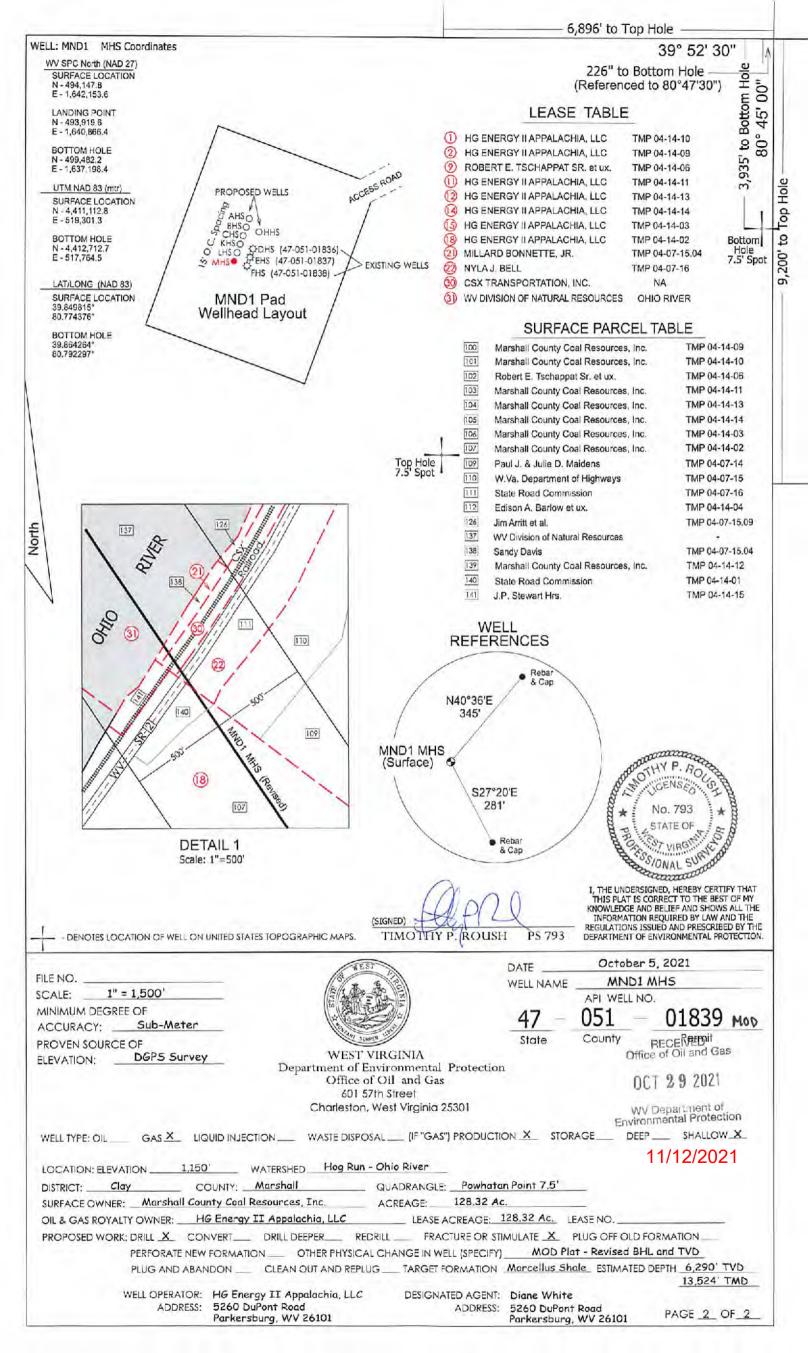
*Note: Attach additional sheets as needed.

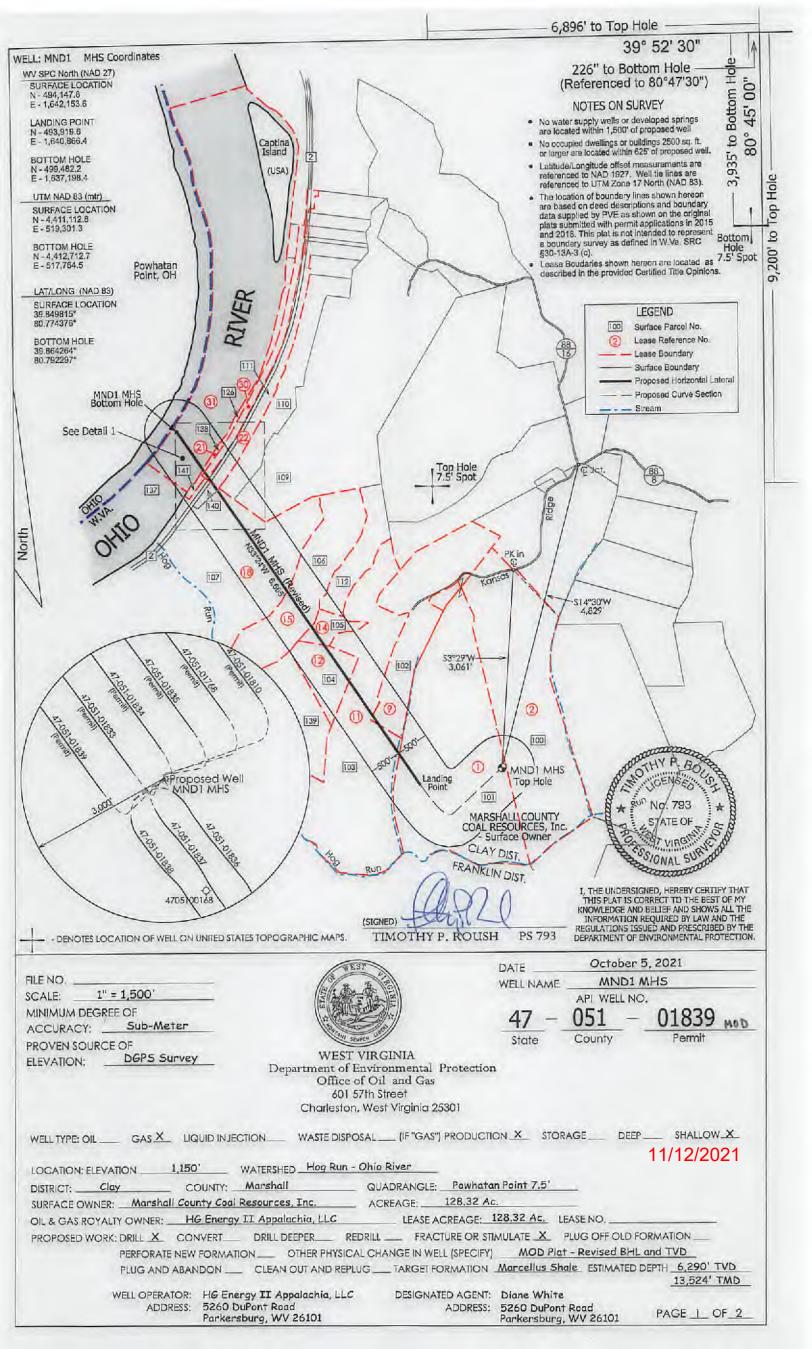
OCT 2.9 2021

MND1MHS Marcellus Shale Horizontal

		ENERGA					Office of COCT 2 wv Deparement	Marcellus Si	01MHS nale Horizontal County, WV	
					MN	D1MHS SHL			494147.77N 1642153.55E	
Ground Elevation		11	50'		MM	ID1MHS LP			493919.65N 1640866.41E	
Azm		326	.599°		MN	D1MHS BHL			499482.19N 1637198.39E	
VELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
ALLEBONE DIMOTORIN	HOLE	CASING	GLOCOGI	107	LANGE	mos	Julia 11	OLIVIO ILILATIO	Johanneline	13.47.00.00
			-1							
	26"	20"	Mary and	o	40	AIR	*Already Grouted In*	N/A	Once at casing setting depth, ensure hole is clean	Conductor casing = 0.43 wall thickness
	26	94# J-55	Conductor	0	40	- ~ ~ ~	Aucady Citalieu //	1979	at TD	Burst=2110 psi
X			*Conductor already set*							
			Fresh Water	538', 801	, 898', 947'		The Mark Town	David Cartains towns	Circulate & condition @ TD w/ Air. RIH w/ casing	Manager P.
		13-3/8" 54.5#	Surface Casing	0	1100	AIR		Bow Springs (over collars) on first 2 joints	& 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 cament.	Surface casing = 0.380° wa thickness Burst=2730 psi
×	17.5*	J-55 BTC	Coal(s)	704	'-709'	AIR.		then every third joint to 100' from surface		
x x			Big Lime / Big Injun	1742 / 1832	1832 / 1922	-		8.08.200.200	n every third 100' from 10	Burst=3950 psi Production casing = 0.361*
							15.6 ppg Class A. 94#/sk 1% Calcium BWOC - 40% Excess Yield=1.2 / CTS	collars) on first 12		
	12,25"	9-5/8" 40# J-55 BTC	Pocono / Price	1922	2075	AIR:				
x			5th Sand / Weir	2164	2177		11eta-1.2 / G13			
			Intermediate Casing	0	2500					
X X			Speechley	3369	3302	AIR and/or				
	8,75"		Java	4778	4889	9.0ppg				
	Vertical		Pipe Creek	5015	5102	SOBM				
			Angola	4976	5200					
			Rheinstreet	5719	6002		Class A 14.8 cpg			
		5-1/2"	Cashaqua	6002	6075		Yield 1.34			
X	8.75" / 8.5"	20#	Middlesex	6075	6104	Air then	D255 – 0.4% BWOB Fluid Loss D198 – 0.55% BWOB Retarder		allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole	Burst=14,360 psi
	Curve	P-110 HP CDC HTQ	West River	6104	8166	11.5ppg- 12,5ppg SOBM	D047 - 0.02 gal / sack Anti Feam	Run 1 spiral centralizer	is clean. Circulate a minimum of one hole volume	Note:Actual centralizer schedules may be chang
		500.00	Burkett	6168	6187		D208 - 0.05% BWOB Viscosifier 10% Excess	every 3 joints from the	prior to pumping cement.	due to hale conditions
			Tully	6187	5222	-		1st 5.5" long joint to the top of the curve.		
		1 1	Hamilton	6222	6262		(b)	- 1000000000000000000000000000000000000		
	8.5" Lateral	1	Marcellus TMD / TVD	6262 13524	6309 6290	11 5ppg-				
	a.5" Lateral		8240-30	2000	3290	12,5ppg SOBM				
X X		and white the same	Onondaga	6309		Si Sed del del del del del		Venues en en en en en en en) X	X
11	P @ 6290' TVD / 6859' MD	PANEL STATE	X	8.5" Hale - C	emented Long String P-110 HP CDC HTQ			A	+/-6665' ft Lateral	TD @ +/-6290' TVD / +/-13524' MO









WW-6A1
(3/13)

Operator's Well No.	·
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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	<u> </u>		D .44.	Daala/Daga
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

** See Attached Lease Chains **

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

PROTEVED Office of all and Gas

OCT 29 2021

WV Department of Environmental Protection

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.

HG Energy II Appalachia, LLC			
Diane White	Diane White		
Agent			
	Diane White	Diane White Diane White	

Page 1 of _____

HG Energy II Appalachia, LLC - MND1 MHS Lease Chain

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Gas	23	58
And and	20	101
RECEIV e of Oil	63	TO THE
REC	5	J De
Office	0	Nirch
-	1100	-

AT LEASE NO.	PLAT LEASE NAME	HG Lease Number	MPID	Original Lessor	Original Lessee	Royalty	Book	Pa
					HG ENERGY II			
1	HG Energy II Appalachia, LLC	1) 623175	04-0014-0010-0000-0000	Noble Energy, Inc.	APPALACHIA, LLC	Fee	39	1
					HG ENERGY II			
2	HG Energy II Appalachia, LLC	2) 623177	04-0014-0009-0000-0000	Noble Energy, Inc.	APPALACHIA, LLC	Fee	39	1
						Not less than		
ģ	Robert E. Tschappat Sr. et ux.	9) Q083948001	04-0014-0006-0000-0000	Robert E. Tschappat, Sr., et ux	AB Resources, LLC	1/8	692	463
							24	38
				AB Resources, LLC	Chief & Radler		24	49
				AB Resources, LLC	NPAR, LLC		25	48
				Anna Sant Anna Anna Anna	200 0000 0000		25	1
				Chief & Radler/NPAR, LLC	Chevron USA, Inc.		756	33
		7.0			Noble Energy, Inc./CNX			
				Chevron USA Inc.	Gas Company HG ENERGY II		31	59
		N. C.		NOBLE ENERGY INC	APPALACHIA, LLC		39	1
					HG ENERGY II			
11	HG Energy II Appalachia, LLC	11) 623176	04-0014-0011-0000-0000	Noble Energy, Inc.	APPALACHIA, LLC	Fee	39	1
					HG ENERGY II			
12	HG Energy II Appalachia, LLC	12) Q086987002	04-0014-0013-0000-0000	Noble Energy, Inc.	APPALACHIA, LLC	Fee	39	1
				The state of the s	HG ENERGY II			
14	HG Energy II Appalachia, LLC	14) 623217	04-0014-0014-0000-0000	Noble Energy, Inc.	APPALACHIA, LLC	Fee	39	1
				Control Charles Studies and	HG ENERGY II	0.75	14-6	
15	HG Energy II Appalachia, LLC	15) 623218	04-0014-0003-0000-0000	NOBLE ENERGY INC	APPALACHIA, LLC	Fee	39	1
				Succession and State of State	HG ENERGY II		13	
18	HG Energy II Appalachia, LLC	18) 623218	04-0014-0002-0000-0000	NOBLE ENERGY INC	APPALACHIA, LLC	Fee	39	1
						not less than		
21	Millard Bonnette Jr.	21) Q083340000	04-0007-0015-0004-0000	Millard Bonnette Jr.	Noble Energy, Inc.	1/8	794	49
				nara anaran a	HG ENERGY II		44	
				NOBLE ENERGY INC	APPALACHIA, LLC		39	1
						Not less than		
22	Nyla J. Bell	22) Q085360000	04-0007-0016-0000-0000	Nyla J. Bell, widow	Noble Energy, Inc.	1/8	839	56
	A. 60-4-1-1				HG ENERGY II			
				NOBLE ENERGY INC	APPALACHIA, LLC		39	1
-		Car you have been			HG ENERGY II	Not less than		
30	CSX Transportation INC.	18) HGII02050	Rail Road	CSX Transportation INC.	APPALACHIA, LLC	1/8	1123	25
		Market and the second		And a series of the series of	HG ENERGY II	Not less than		
31	Division of Natural Resources	31) HGII0559	Ohio River	Division of Natural Resources	APPALACHIA, LLC	1/8	1070	33



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Fwd: Expedited H6A Modification Well Work Permit (MND 1 Pad)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

To: "Knitowski, Gayne J" <e026012@wv.gov>, Eric Buzzard <ebuzzard@marshallcountywv.org>

Wed, Nov 10, 2021 at 9:46 AM

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

-- Forwarded message ------

From: Stansberry, Wade A <wade.a.stansberry@wv.gov>

Date: Wed, Nov 10, 2021 at 9:33 AM

Subject: Expedited H6A Modification Well Work Permit (MND 1 Pad)

To: Diane White dwhite@hgenergyllc.com, Taylor, Joseph D joseph.d.taylor@wv.gov, Emily Westfall ewestfall@wvassessor.com

I have attached a copy of the newly issued well permit numbers . This will serve as your copy.

If you have any questions, then please contact us here at the Office of Oil and Gas.

47-051-01768

47-051-01810

47-051-01833

47-051-01834

47-051-01835

47-051-01839

47-051-02416

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

11/12/2021

Wade.A.Stansberry@wv.gov

7 attachments

- **47-051-01768 mod.pdf** 1346K
- **47-051-01834** mod.pdf 1339K
- **47-051-01810** mod.pdf 1373K
- **47-051-01833 mod.pdf** 1350K
- **47-051-01835** mod.pdf 1352K
- **47-051-01839** mod.pdf 1327K
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