

#### 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

Wednesday, November 13, 2019 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

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

Permit Modification Approval for 1208 N-4H Re:

47-033-05954-00-00

Lateral Spacing: shorten lateral from 20352' to 19247', updated leases.

#### 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.

Operator's Well Number: 1208 N-4H

Farm Name: LINDA & WILLIAM W. BRODWATER III

Chief

James A. Martin

U.S. WELL NUMBER: 47-033-05954-00-00

Horizontal 6A New Drill

Date Modification Issued: 11/13/2019

Promoting a healthy environment.

WW-6B (04/15) API NO. 47- 033 - 05954 - MoD
OPERATOR WELL NO. Nutter 1208 N-4H
Well Pad Name: Nutter 1208

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

1) Well Operat	or: HG Ene	ergy II Appa	lachia, 📙	494519932	Harrison	Union	West Milford 7.5'
., »p				Operator ID	County	District	Quadrangle
2) Operator's V	Well Number	: Nutter 120	8 N-4H	Well l	Pad Name: Nu	tter 1208	
3) Farm Name	Surface Own	ner: Nutter		Public R	load Access:	SR 19	
4) Elevation, c	urrent ground	i: 1162'	Ele	evation, propos	ed post-constru	ction: 1147'	
5) Well Type	(a) Gas Other	X	_ Oil	Ui	nderground Sto	rage	
	(b)If Gas	Shallow		Deep			~ DW
6) Existing Pac	l: Yes or No	Horizontal No	x	-			Sou
7) Proposed Ta	arget Formati	on(s), Depth		ipated Thicknes ticipated pressu		l Pressure(s):	
8) Proposed To	otal Vertical I	Depth: 705	0'				
9) Formation a			Varcellus				
10) Proposed 7	Total Measure	ed Depth:	19,247' 🗸				
11) Proposed I			11,549' '	/			
12) Approxima			pths:	135', 500'			
13) Method to				Nearest offset	well data		11-1
14) Approxima				1			
15) Approxima	ate Coal Sear	n Depths: 8	10' to 81	5'			
				ine, karst, other	): None		
17) Does Prop directly overly	osed well loc	ation contain	coal sear			No X	
(a) If Yes, pr	ovide Mine I	nfo: Name	:				
		Depth	:				
		Seam					
		Owne	r:				

WW-6B
(04/15)

API NO. 47		
OPERATOR WELL	NO.	Nutter 1208 N-4H
Well Pad Name:	Nutter	1208

#### 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	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1000'	1000'	40% excess,yield =1.20,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	1890'	1890' 🗸	40% excess yield = 1.20,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	2700'	2700' 🗸	40% excess yield Lead/ 0% Excess T
Production	5 1/2"	NEW	P-110	23	19247'	19247'	20% excess yield = 1.19, tall yield = 1.04
Tubing							
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water	20"	24"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Coal/Storage	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tall 0% Excess Lead
Production	5 1/2"	8 1/2"	.415	14520	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94.0
Tubing							
Liners							

PACKERS	
	 <del></del>

PACKERS REC				
Kind:		SEP 27 2019		
Sizes:		WV Department of Environmental Protection		
Depths Set:				

WW-6B
(10/14)

API NO. 47		
<b>OPERATOR WEL</b>	L NO.	Nutter 1208 N-4H
Well Pad Name:	Nutter	1208

19)	Describe pro	oposed well	l work, ind	luding the	drilling and	plugging b	back of any	pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7050 feet. Drill horizontal leg to estimated 11549' lateral length, 19,247', TMD. Hydraulically fracture 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. We plan to run an ECP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

The stimulation will be completed with 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 12,500 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.420 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 15.399 acres
- 23) Describe centralizer placement for each casing string:

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

fuctor -N/A, Casing to be drilled in w/ Dual Rotary Rig. h Water - 15.6 ppg PNE-1 + 3% bwoc CeCl, 40% Excess Yield - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CeCl, 40% Excess / Tal

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25) Proposed borehole conditioning procedures:

- WV Department of Environmental Protection

<sup>\*</sup>Note: Attach additional sheets as needed.



### 1208 N-4H 1208 N-4H Marcellus Shale Horizontal Harrison County, WV Harrison County, WV

1208 N-4H SHI

1/210013 06N 1803616 0/E

					1208 1	N-4H SH	SE SE	0 14	219013.96N 18036	16.94E
Ground Elevation		1147	•		1208 N-4H LP O			14219743.87N 1804753.57E		
Azm	340.538°			1208 N-4H BHL				14230629.44N 1800907.01E		
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	30"	30" 157.5# LS	Conductor	0	120 /	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness
			Fresh Water	0	135		15.6 ppg PNE-1 + 3%	2	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wall
x X	28"	20" 94# J-55	Kittaning Coal	810	815	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with	thickness
x x			Coal/Fresh Water	0	1000		Yield=1.20 / CTS	1,000	Fresh Water prior to pumping cement.	Burst=2110 ps
		13-3/8" 68#	Little/Big Lime	1276 / 1317	1301 / 1393	AIR / KCL	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9	Bow Spring on every joint	Once casing is at setting depth, Circulate and	Intermediate casing = 0,480° wall thickness Burst=3450 psi
x       x	17.5"	J-55 BTC	Injun / Gantz (Storage)	1393 / 1680	1499 / 1740	Salt Polymer	ppg PNE-1 + 2.5% bwoc CaCl zero% Excess, CTS		condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	
			Intermediate 1	0	1890 √	Polymor				
x		9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	1800 / 1880	1847 / 1892		Lead: 15,4 ppg PNE-1 +	Bow Spring on first 2 joints then every third	Once casing is at setting depth. Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=3950 psi
			Gordon Stray / Gordon	1935 / 2000	2000 / 2090	AIR / KCL	2.5% bwoc CaCl 40% Excess / Tail; 15.9			
	12.25"		5th Sand	2185	2220	Salt				
x x			Bayard Sand	2275	2310	Polymer				
			Intermediate 2	0	2700 √	J				
x x			Speechley	2895	2913	9,0ppg		Run 1 spiral centralizer every 5 joints from the	the	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions
	8.5" Vertical		Balltown	3115	3155					
	0.5 Vertical		Benson	4200	4233	SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to		
			West Falls	4770	6015		bwoc R3 + 1% bwoc	surface.		
			Rhinestreet	6015	6290		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc		Once on bottom/TD with casing, circulate at max	
		E-war	Cashaqua	6290	6491		MPA170		allowable pump rate for at	
X X		5-1/2" 23#	Middlesex	6491	6571	11.5ppg-	Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		least 2x bottoms up, or until	
	8.5" Curve	P-110 HP	West River	6571	6664	12.5ppg	gal/sk FP13L + 50%	Sec. 15.35.3	pressures indicate the hole	
		CDC HTQ	Burkett	6664	6690	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the		
			Tully Limestone	6690	6794		20% Excess	1st 5.5" long joint to the	volume prior to pumping	
		1	Hamilton	6794	7013		Lead Yield=1.19 Tail Yield=1.94	top of the curve.	cement.	
			Marcellus	7013	7064	11.5ppg-	CTS			
	8.5" Lateral		TMD / TVD (Production)	19247	7050 1	12.5ppg SOBM	0			
X X			Onondaga	7064			L- 1			
	X 60' TVD / 7698'	X	λ	.5" Hale - Cemente		X	Α	X.	<b>A</b>	X TD @ +/-7050' TVD

#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

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

\*\*See Attached\*\*

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

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

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

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SEP 27 2019

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.

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

HG Energy II Appalachia, LLC	
1208 N-4H LEASE CHAIN	

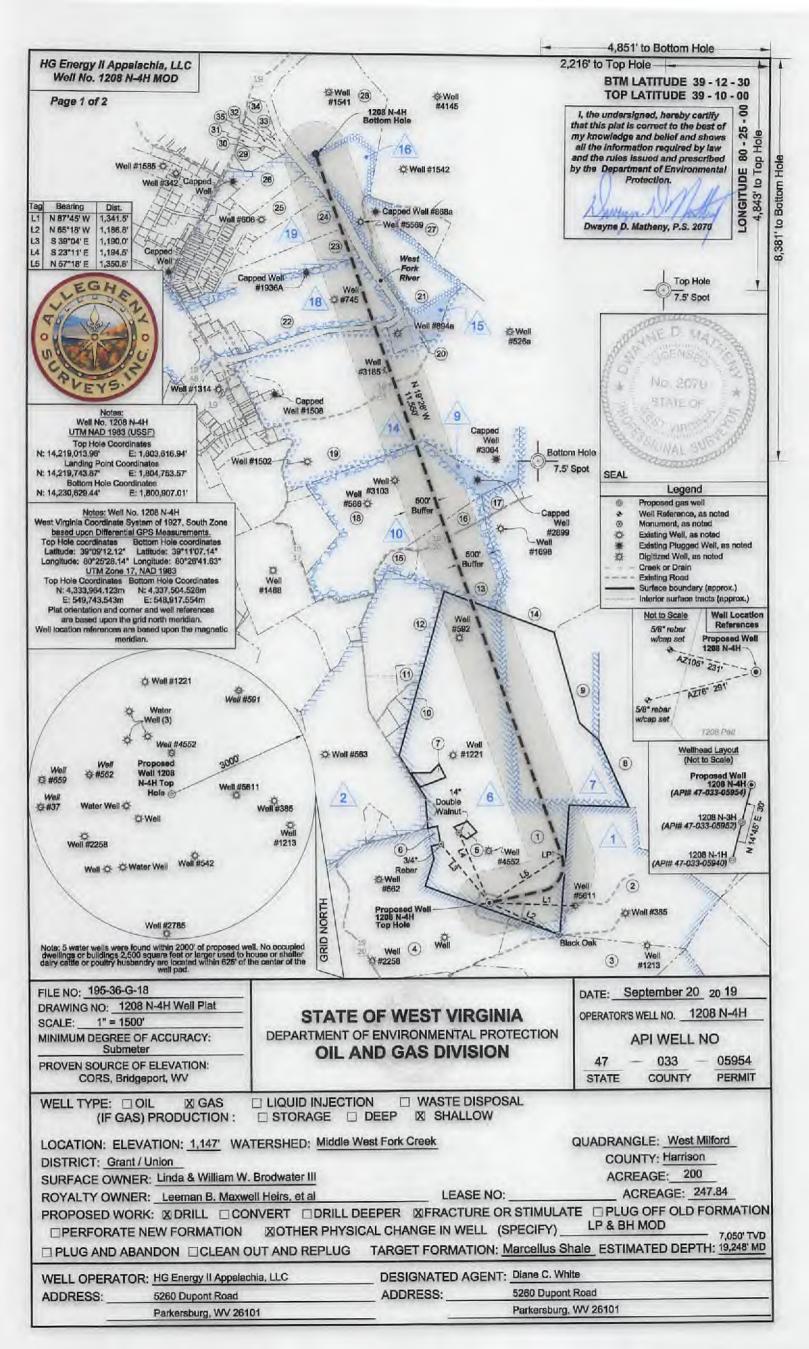
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				1208 N-4H LEA	<del></del>			
TRACT#	LEGACY LEASE	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
				J.B. GUSMAN AND ADALINE GUSMAN	TREAT AND CRAWFORD	NOT LESS THAN 1/8	158	
			ļ.	TREAT AND CRAWFORD	UNITED FUEL GAS COMPANY	ASSIGNMENT	226	359
	1				FAYETTE COUNTY GAS COMPANY	ASSIGNMENT	UNRECORDED	
			]	UNITED FUEL GAS COMPANY			201	
			1	FAYETTE COUNTY GAS COMPANY	HOPE NATURAL GAS	ASSIGNMENT		
		17-20-0444-0011-0000,		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY COMPANY	MERGER/NAME CHANGE	903	179
		17-20-0444-0011-0001, 17-20-0444-0011-0002,	ļ	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
		17-20-0444-0011-0002,		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		17-20-0444-0012-0000,		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		17-12-0444-0013-0000,		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1409	680
		17-12-0444-0014-0000,	Q100370000	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1442	356
1	FK020606	17-12-0444-0021-0000,	4200070000	DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	978
		17-12-0444-0021-0001, 17-12-0444-0022-0600,		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
	1	17-12-0445-0001-0000, 17-12-0445-0002-0000,				LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
		17-12-0445-0002-0000,		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.			125
	i	17-12-0445-0010-0000, 17-12-0445-0011-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMENTON ENERGY TRANSPASSION INC	UC ENERGY II ARRAI ACUIA 11C	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	179	412
	i	4207 17-12-0425-0031-0003 17-12-425-0031-0000		NATHAN POST ET AL	RESERVE GAS COMPANY	MERGER/NAME CHANGE	508	57
				RESERVE GAS COMPANY HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	17
	ſ			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
	l			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
			I 0101051000	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	MERGER/NAME CHANGE	1325	87
_				DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1427	82
6	LC014207			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	123
l				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	12
I				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	66
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	<del></del>
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
7				NATHAN POST ET AL	RESERVE GAS COMPANY	NOT LESS THAN 1/8	179	41
1	Į.			RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	508	57
	i			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	17
j				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
ľ				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
- 1	j			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
ļ				DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	MERGER/NAME CHANGE	1325	87
1			I	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1427	84

ı	ı	17-12-0425-0025-0002		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	2
7	LC014206	17-12-0425-0025-0004	Q101050000-	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	<u> </u>
	i			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
	i			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
	ŀ			NODIC ENERGY INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
				NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	1600	
		•		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	wvsos	<del> </del>
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
<del>+</del>				LEEMAN MAXWELL AND MARY C. MAXWELL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	176	
	1			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	- :
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
	10044300	p/o 12-0425-0025-0000	Q101116000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	12
8	LC014208	p/o 12-0425-0025-0002	Q101110000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
.	1			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
<del></del>				REBECCA F. REED ET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	822	
1		17-12-0425-0002-0000 17-12-0425-0002-0002 17-12-0425-0002-0001 17-12-0425-0001-0000						
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	
ľ				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	2
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	7
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
10	FK068583		Q100571000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	12
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	1
		27 22 0120 0002 0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	9
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	6
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	6
	·			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	
<del></del>				L. BASSELL MAXWELL AND BLONDA MAXWELL, HIS WIFE; AND, JANE				
		17-12-0424-0052-0000		M. HENDERSON, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	745	
		17-12-0424-0052-0001		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	1
		17-12-0424-0052-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		17-12-0424-0052-0003		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	7
]		17-12-0424-0052-0004		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	3
		p/o 17-12-0425-0031-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
<sub>2</sub>	FK065462	p/o 17-12-0425-0031-0003	Q101063000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	12
- I		17-12-0425-0032-0000	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	1
		p/o 17-12-0425-0033-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	9
1		17-12-0425-0033-0001		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	6
ŀ		17-12-0425-0033-0002		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	6
		17-12-0425-0033-0003 p/o 17-12-0425-0033-0004		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
			_	•	1	SECOND AMENDMENT TO MEMORANDUM OF		

		<del></del>		REBECCA F. REED ET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		al .
1 1	I	- 1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	82 90	
"			1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	113	
1 1	l	j l		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		
i I				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	5:	
1 1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	152	
	ENVENENT	p/o 17-12-0405-0075-0000	Q100734000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	152.	
9	FK068582	p/0 17-12-0403-00/3-0000	Q100/34000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (30%)	154	
	l	į l		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (32%)	1584	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		
1 1	1	1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
1		<u> </u>		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
1 1		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF	1601	
<b></b>	<del>                                     </del>	<del>                                     </del>		JOSEPH CHEUVRONT ET AL	P. H. GAFFNEY	NOT LESS THAN 1/8	184	
		1		F.E. WILLIAMSON AND P.H GAFFNEY, DBA F.E. WILLIAMSON & CO.	J.F. DONALDSON	ASSIGNMENT		
				J. F. DONALDSON	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	222	
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPNAY	ASSIGNMENT	236	
, I		Į l		PITTSBURGH AND WEST VIRGINA GAS COMPNAY, PHILADELPHIA OIL	HOPE NATURAL GAS COMPANY	ASSIGNMENT/BENSON SAND AND ABOVE		
1	1			PITTSBURGH AND WEST VIRGINA GAS COMPNAY, PHILADELPHIA OIL	EQUIATABLE GAS COMPANY	ASSIGNMENT ASSIGNMENT	504 714	
	1	[		EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT/BELOW BENSON SAND	714	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	
		Į i		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	1136	
14	LC052212	17-12-0405-0075	Q100524000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	51 58	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	36 3
	1			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1522	
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (30%)	1543	124
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	15/6	12
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	94:
			Ī	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	69.
			[			SECOND AMENDMENT TO MEMORANDUM OF	******	
	1		ŀ	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58:
		<del> </del>		HOWARD W. VANSCOY AND RESSIE C. VANSCOY ET AL	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	999	286
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
ŀ	i		I	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79:
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	367
			l	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	124
15	LC072201	17-12-404-0056-0000	Q100712000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	1243
	100/2201	p/o 17-12-404-0038-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1576	942
1	1	]	l	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
1	1	1	I	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
1	1		I	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	092
ļ '			1			SECOND AMENDMENT TO MEMORANDUM OF		
<b>l</b> '			l	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
	<del> </del>	<del>                                     </del>	<del></del>	GEO W WASHBURN ET AL	RESERVE GAS COMPANY	NOT LESS THAN 1/8	179	404
· '	1		l	RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	508	573
1	1	1	l .	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	179
'				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
· '			1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			1	CNG TRANSMISSION CORPORATION	EMAX OIL COMPANY	WELLBORE ASSIGNMENT	1261	1021
! !	1			EMAX OIL COMPANY	CABOT OI AND GAS CORPORATION	COUNTERPART ASSIGNMENT	1261	1021 755
	LCGE2000	17-20-0404-0055-0000 17-	0101130000					
18	1,0052500	20-0404-0055-0001	<b>Q101130000</b>					1012
1	1	1						362
18	LC052900		Q101130000	CABOT OIL AND GS CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	ENERVEST APPALACHIA L.P.  DOMINION TRANSMISSION, INC.  DOMINION ENERGY TRANSMISSION, INC.	CONVEYANCE MERGER/NAME CHANGE MERGER/NAME CHANGE		1314 58 WVSOS

					<del></del>	ISSOUR ANSWERSET TO MEMORY TO THE	1	
			1		INC CANCOCA II ADDALACINA IIIC	SECOND AMENDMENT TO MEMORANDUM OF		1
			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
				LARA BETH RAMSBURG	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1615	5 67
			İ	CAROLYN S.J. HOOVER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1615	
				JOE LAW	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1606	77
				HOWARD W. VANSCOY AND RESSIE C. VANSCOY ET AL	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	999	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
			1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3
	LC052808	17-12-0404-0038-0000;		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	124
16	(LC07220)	p/o 12-0404-0022-0000	Q1004040000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	12
	(LC0/220)	p/0 12-0404-0022-0000	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	66
	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
				LLOYD WASHBURN ET AL	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	1443	0975
				SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	215	
	•	17-20-0404-0034-0000,	17-20-0404-0036-0000 17-20-0404-0035-0000 Q101019000	RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	wvsos	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
19	FK052855			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
		17-20-2901-0100-000 ET AL		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	092
						SECOND AMENDMENT TO MEMORANDUM OF	111303	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				CHARLES H. WASHBURN, SINGLE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	179	484
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	508	573
		.C052812 12-0405-0059-0000 12-0405-0067-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	5/3 179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	51	795
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	362 33
17	LC052812		1 0100958000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (30%)	1543	1245
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (52%)		125
			1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1584	942
			1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	1600	692
			1	DOMINION TRANSPISSION, INC.	DOMINION ENERGY TRANSPIRISION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	wvsos	
				•	•	IDECOMO AMENDAMENT TO MEMORANDOM OF		



Page 2 of 2

No.	TM / Par	Owner	Bk/Pg	Ac.
35	404 / 17.1	Dameon Tyler Hall	1556 / 320	0.75
34	404 / 19	Terry Weldon & Regina T. Tallman	1357 / 569	3.56
33	404/18	Russell A. Suder	1113/88	2.02
32	404 / 17	Many la Chart	808 / 456	0.83
31	404 / 16.1	Mary Jo Short	761 / 822	1.82
30	404 / 16.2	Richard Vance Short	1262 / 155	80.0
29	404/16	Jeffrey & Victoria J. Roark	1518 / 173	3.06
28	404/22	John L. & Mary Beth Stenger	1280 / 455	70.90
27	405/59	Terence L. Washburn	1294 / 433	43,40
26	404/34	Callwell J. & Patricia F. Hutson	1209 / 163	11.00
25	404/35	Bruce W. & Luella R. Cayton	1029 / 339	12.80
24	404/38	Dennis J. Bunside	1326 / 149	16.30
23	404 / 37	Larry & Rebecca Myers	WB146 /	18.10
22	404 / 55	Larry or Resecta Myers	1089	54.74
21	404/38	Rebecca D. Arther	1504 / 1251	34.48
20	404 / 56	Jacob Walter & Karen A. Post	1350 / 1078	5.50
19	405 / 75	William Michael McDonald	1377 / 99	202.18
18	425/1	Joel B. Shuman, et al	WB166/472	89.00
17	425 / 25.4	Ronald L. & Mary Jo Hitt	1193 / 304	4.55
16	425 / 2.1	Del Marie Brenn	1339 / 100	7.40
15	425/2	Lonzo A. & Erica Martin	1569 / 1076	5.035
14	425 / 25.2	Laurinda R. Beckstead	1420 / 941	83.199
13	425 / 2,2	Jennifer Irene McWhorter	1422 / 1117	26.66
12	425/33	David A. & Julie Keesucker	1262 / 81	34.70
11	425/33.4	David J. & Angeena K. Keesucker	1439 / 457	3.01
10	425 / 33.3	Earl Milton Jenkins	1285 / 521	2.00
9	425/24	Linda J. Maxwell Revocable Trust	1302 / 793	19.60
8	425/25	And the state of t		212.80
7	425/31.3	Gary S. & Melinda M. Brodwater	1354 / 175	2.00
6	425/31.1	Dona R. & David R. Scarff	1360 / 652	1.00
5	425 / 31.2	Linda & William W. Brodwater III	1343 / 1279	1.16
4	445/1		-1-	87.78
3	445/10	Lisa M. Nutter	WB 687 /	66.87
2	445/2		445	84.57
1	425/31	Linda & William W. Brodwater III	1410 / 1045	247.84

ID	Lesso
1	Jerome B. Gusman
2	Leeman B. Maxwell Helm
6	Leaman B. Maxwell Heirs
7	Leeman Maxwell, et ux
9	Rebecca F. Reed, at al
10	Rebecca D. Reed, et al
14	Joseph Chauvront, et al
15	Howard W. Vanscoy, et al
16	Howard W. Vanscoy, et al
18	Georga W. Washburn, et al
19	Lloyd Washburn, et al

FILE NO: 195-36-G-18

DRAWING NO: 1208 N-4H Well Plat

SCALE: 1" = 1500'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE: September 20 20 19

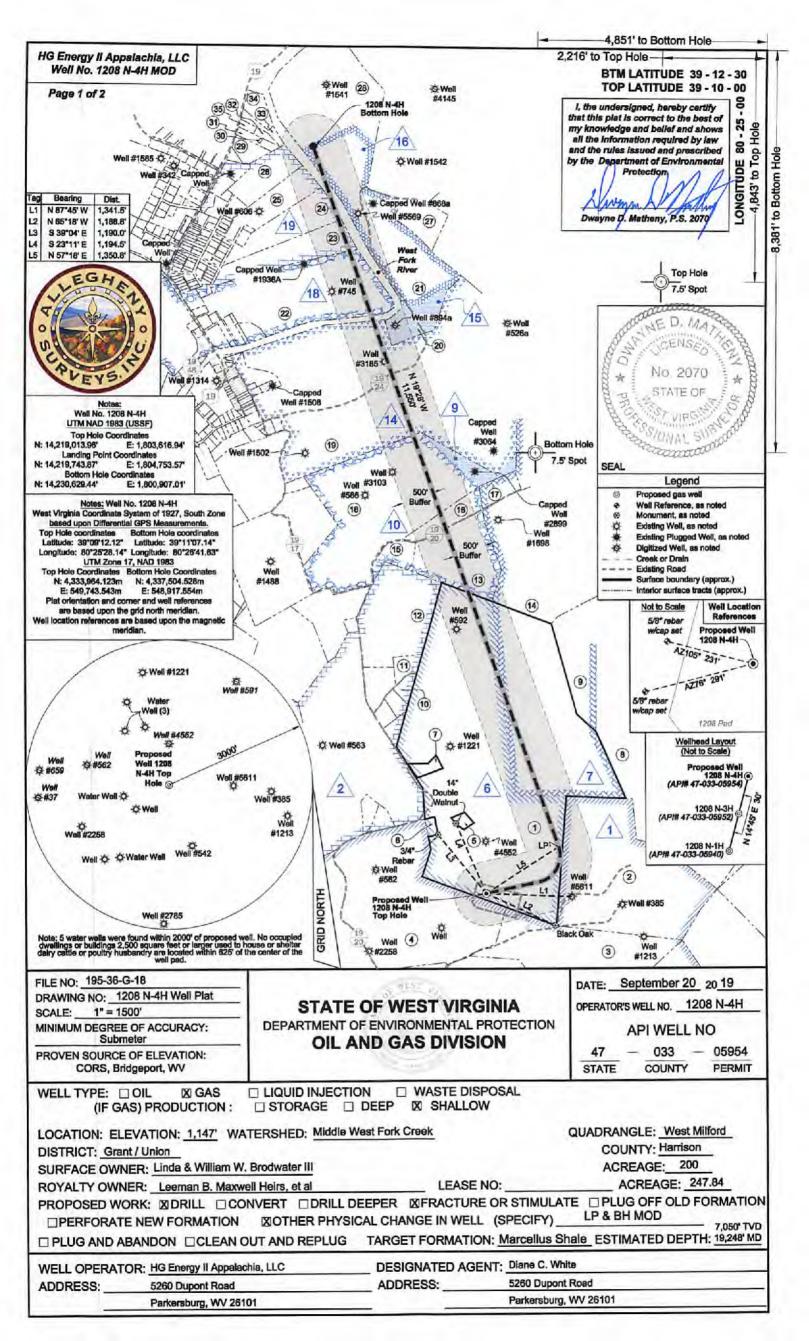
OPERATOR'S WELL NO. 1208 N-4H

API WELL NO

47 — 033 — 05954

STATE COUNTY PERMIT

- Aller Aller Aller Aller Aller				2000	BOOK - COMMENTS
WELL TYPE: □ OIL ☒ GAS (IF GAS) PRODUCTION:	☐ LIQUID INJECTIO	DEEP X SHALLO			
LOCATION: ELEVATION: 1,147' WA	TERSHED: Middle W	est Fork Creek	QI	JADRANGLE: _\	Vest Milford
DISTRICT: Grant / Union				COUNTY: H	
	Brodwater III			ACREAGE:	
SURFACE OWNER: Linda & William W.			0.20		The second secon
ROYALTY OWNER: Leeman B. Maxw			NO:		
PROPOSED WORK: MDRILL CO	NVERT DRILL D	EEPER XFRACTUR	E OR STIMULATE	□ PLUG OFF	OLD FORMATION
□PERFORATE NEW FORMATION					
					7,050' TVD
□ PLUG AND ABANDON □ CLEAN C	OUT AND REPLUG	TARGET FORMATIC	DN: Marcellus Shai	e_ESTIMATED	DEPTH: 18,240 MD
WELL OPERATOR: HG Energy II Appalace	shia IIC	DESIGNATED AG	FNT- Diane C. White		
	and, LLO	- The second distriction of the second secon	5260 Dupont Ro	and	
ADDRESS: 5260 Dupont Road		ADDRESS:	100000000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Parkersburg, WV 261	01	_	Parkersburg, W	V 26101	



LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek

DISTRICT: Grant / Union

SURFACE OWNER: Linda & William W. Brodwater III

ROYALTY OWNER: Leeman B. Maxwell Heirs, et al

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,248'MD

WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101