

#### 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

# Friday, April 17, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit Modification Approval for NEEL 1207 S-7H

47-033-05976-00-00

Modified lateral for a TMD of 22,442' with additional leases and no need to update SSP

## 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: NEEL 1207 S-7H

Farm Name: HG ENERGY II APPALACHIA, LLC

U.S. WELL NUMBER: 47-033-05976-00-00

Horizontal 6A New Drill

Date Modification Issued: April 17, 2020

Promoting a healthy environment.

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

1) Well Operat	or HG En	erav II Appa	lachia. L	494519932	Harrison	Union	West Milford 7.5'	
i) won operat	···	0, 11	, 89	Operator ID	County	District	Quadrangle	
2) Operator's V	Vell Number	: Neel 1207	S-7H	Weli Pa	d Name: Ne	el 1207		
3) Farm Name/	Surface Own	ner: HG Energ	y II Appalachia	a, LLC Public Ro	ad Access: _	Hidden Valley	/ Rd @ SR 19	
4) Elevation, cu	urrent ground	d: <u>1354'</u>	Ele	vation, proposed	post-constru	ction: 1344'		
5) Well Type	(a) Gas Other	x	Oil	Und	erground Sto	rage		
	(b)If Gas	Shallow Horizontal	×	Deep			۰۰	
6) Existing Pad	: Yes or No				_		5pw 21261.	2020
				pated Thickness a icipated pressure		Pressure(s):		
8) Proposed To	tal Vertical I	Depth: 7145	3'					
9) Formation at	Total Vertic	cal Depth: 1	/larcellus					
10) Proposed T	otal Measure	ed Depth: 2	2,442'					
11) Proposed H	orizontal Le	g Length: 1	4,259'					
12) Approximat	te Fresh Wat	er Strata Dep	ths:	135', 245', 425',	630', 731'			
13) Method to I			-P	earest offset we	II data			
14) Approximat	te Saltwater	Depths: 178	32', 1848'			***********		
15) Approximat	te Coal Seam	Depths: 29	0, 340, 59	92, 1004' to 100	9'			
16) Approximat	te Depth to P	ossible Void	(coal min	e, karst, other):	None			
17) Does Propo directly overlyin					N	Io X		
(a) If Yes, pro	vide Mine Ir	nfo: Name:						
		Depth:						
		Seam:						
		Owner						

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Page 1 of 3

WW-6B (04/15) API NO. 47-33 \_ 05976 MOD

OPERATOR WELL NO. Neel 1207 S-7H

Well Pad Name: Neel 1207

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	20"	NEW	J-55	94	849'	849'	40% excess, yield =1.20,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2200'	2200'	40% excess yield = 1.20,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	3000'	3000'	47% course pick Land/0% Errors Tyles
Production	5 1/2"	NEW	P-110	23	22442'	22442'	ES - South Peter 1,1% to Specie - 1,5%
Tubing							lud l
Liners							

126/2020 2/26/2020

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	Wall Thickness (in)	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	
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 45% extens, Thi 0% cucuss
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lood 40% success, Tail 9% Excepts Log
Production	5 1/2"	8 1/2"	.415	16240	12500		20% comma place = 1.10, to l year 1.50.
Tubing							
Liners							

## **PACKERS**

Kind:		
Sizes:		
Depths Set:		

Page 2 of 3

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OPERATOR WELL NO. Neel 1207 S-7H

Well Pad Name: Neel 1207

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 7145 feet. Drill horizontal leg to estimated 14,259 lateral length, 22,442TMD. 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 ACP 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): 28.278 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 12.715 acres
- 23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshratizers will be used with conductor casing.
Freshratizer contralized every 3 joints to surface.
Intermediate 1 - Bow Spring on every joint, will also be running ECP for isolating storage zone
Intermediate 2 - Bow Spring on this 12 joints then every third joint to 100 from surface.
Production - Run 1 spring centralizer every 5 joints from the top of the curve to surface. Run 1 spring centralizer every 3 joints from the 1st 5.5° long joint to the top of the

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

Conductor -WA, Casing to be drilled in wi Dual Rotary Rig.
Fresh Water/Coal -15.6 ppg PNE-1 + 3% bwcc CaCl, 40% Excess Yield = 1.20, CTS
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess I Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess I Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess I Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5 bwcc CaCl, 40% Excess, Tail: 15.9 ppg PNE-1 bwcc Tail: 14.8 ppg PNE-1 bwcc Tail: 15.9 bwcc Tail: 1

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is dean at TD.

Fresh Waterfood - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.

Intermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.

Intermediate 2 - Once casing is at setting depth, Circulate and condition must all TD. Circulate a minimum of one hole volume prior to pumping cement.

Production - Once on bottom/TD with casing, circulate at a 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.

RECEPTED And Cas

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\*Note: Attach additional sheets as needed.

X=centralizers

WW-6A1
(5/13)

Operator's Well No.	Neel 1207 S-7H
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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 Sheets\*\*



# 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:	HG Energy II A	opalachia, LLC
By:	Diane White	Diane White
Its:	Accountant	

33-05976 MOD

HG Energy II Appalachia, LLC Neel 1207 S-7H Lease Chain - Revised 2.7.2020

			55	5-0-29
	-	2	8	TRACT #
FK020606	EKOZOGOS	LC094208 LC020942	LC068480	LEGACY LEASE NUMBER
12-0444-0021-0000 12-0444-0021-0001 12-0444-0022-0000 12-0445-0001-0000 12-0445-0002-0000 12-0445-0009-0000 12-0445-0010-0000 12-0445-0011-0000	20-0444-0011-0000 20-0444-0011-0001 20-0444-0011-0002 20-0444-0011-0003 20-0444-0012-0000 12-0444-0013-0000 12-0444-0013-0000	12-0445-0012-000 12-0445-0003-0000 253571000	12-0445-0005-0000 12-0445-0005-0001	TAX MAP
rings/good	0.100370000	Q101052000	Q100813000	LEASE NUMBER
DOMINION TRANSMISSION, INC.  DOMINION TRANSMISSION, INC.  COX GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  COX GAS COMPANY LLC  DOMINION TRANSMISSION, INC.  COX GAS COMPANY LLC  NOBLE ENERGY, INC.	I. B. GUSMAN AND ADALINE GUSMAN, HUSBAND AND WIFE TREAT & CRAWFORD UNITED FUEL GAS COMPANY FAYETTE COUNTY GAS COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC.	A. J. SMITH AND L. F. SMITH, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONG TRANSMISSION CORPORATION COMMINION TRANSMISSION, INC. CNX GAS COMPANY LLC CNX GAS COMPANY LLC CNX GAS COMPANY LLC CNX GAS COMPANY LLC DOMINION TRANSMISSION INC. DOMINION TRANSMISSION INC.	DORA B. MCWHORTER, WIDOW; AND EVERETT EDMONDS AND GLADYS EDMONDS, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CIX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CIX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC.	GRANTOR/LESSOR
CNX GAS COMPANY LLC  CNX GAS COMPANY LLC  CNX GAS COMPANY LLC  NOBLE ENERGY, INC.  CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.  NOBLE ENERGY, INC.  NOBLE ENERGY INCACHIA, LLC  POMINION FOLERGY TRANSMISSION INC.	TREAT & CRAWFORD  UNITED FUEL GAS COMPANY  FAYETTE COUNTY GAS COMPANY  HOPE NATURAL GAS COMPANY  CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION  CONGOLIDATED GAS TRANSMISSION CORPORATION  DOMINION TRANSMISSION, INC.  DOMINION EXPLORATION & PRODUCTION, INC.  DOMINION TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONGRETANISMISSION CORPORATION CONGRETANISMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY, INC. DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC	GRANTEE/LESSEE
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DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY	GATES, WIDOW	OKEY CORLEY AND GARNETT M. CORLEY, HIS WIFE; AND MARY D.	Estate of Helen Brashear	Wesley Craft Brashear	Ann Brashear Fitzgerald			WILLIAM C. WHITE, LIFE ESTATE	WILLIAM C. WHITE, LE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.		DOMINION TRANSMISSION INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	DENNIZOR EXPLORATION AND PRODUCTION COMPANY	PENNZOIL COMPANY	PENNZOIL COMPANY	SOUTH PENN OIL COMPANY	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY	SOUTH PENN OIL COMPANY	JAMES W. JACKSON AND S. A. JACKSON, HIS WIFE	DOMINION ENERGY TRANSMISSION, INC.	Environmental Protection
HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY		HG ENERGY II APPALACHIA, LLC			HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	PENNZENERGY EXPLORATION AND PRODUCTION LIC	PENNZOIL EXPLORATION AND BRODUCTION COMPANY	PENNZOIL PRODUCIS COMPANY	PENNZOIL COMPANY	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY	SOUTH PENN OIL COMPANY	HG ENERGY II APPALACHIA, LLC	# Proceedings			
FARMOUT AGREEMENT  FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	AMENDED AND RESTATED PARTIAL ASSIGNMENT	MERGER/NAME CHANGE	ASSIGNMENT	CORRECTIVE ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	MEMORANDUM OF FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	CONFIRMATORY DEED	NOT LESS THAN 1/8		NOT LESS THAN 1/8			NOT LESS THAN 1/8	AMENDED AND RESTATED PARTIAL ASSIGNMENT	FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF	MERGER/NAME CHANGE	ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	FIRST AMENDMENT TO FARMOUT AGREEMENT	MERGER/NAME CHANGE	ASSIGNMENT	ASSIGNMENT	MERGER/NAME CHANGE	FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	CONFIRMATORY DEED	ASSIGNMENT (GAS)	NOT LESS THAN 1/8	FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF			
734	723	723	SOSAM	722	725	717	712	684	672	WVSOS	WVSOS	425	294	233		745	1639	1639	1633			1633	723	723		WVSOS	722	717	712	684	1524	× -	460	454	5	672	WVSOS	WVSOS	425	294	73	58	1601	
558	499	527		170	784	1	848	57	154			127	89	283		732	828	842	1322			1322	527	499			170	1	848	57	491	2/2	139	34	564	154			127	89	272	425	581	

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21-04-008B-0004-0000; 21-04-008B-0005-0000, 0001; 21-04-008B-0006-0000; 21-04-008B-0007-0000, 0001, 0002, 0003,		and p/o 04-9C-0007-0000	0028-0000, 04-0006-0029-0000, 04-	04-0024-000, 04-0006-0025-000, 04-0006-0025-0001, 04-0006-0026-	0000, 04-0006-0021-0000, 04-0006-	0018-0000, 04-0006-0019-0000, 04-0006-0019-0001, 04-0006-0020-	04-0006-0015-0000, 04-0006-0016- 0000, 04-0006-0017-0000, 04-0006-	0012-0000, 04-0006-0012-0000, 04-	04-0006-0009-0001, 04-0006-0009-0002, 04-0006-0010-	0001, 04-0006-0008-0000, 04-0006- 0008-0001, 04-0006-0009-0000, 04-	04-0006-0007-0000, 04-0006-0007-								04-0006-0005-0000 04-0006-0006-0000	04-0006-0002-0000 p/o 04-0006-0002-0001	20-0466-0011-0000 04-0006-0001-0000					
						HGII154, HGII217, HGII214. HGII137	HGII151, HGII152, HGII155, HGII181,													Q101101000						
SOUTH PENN OIL COMPANY HOPE NATURAL GAS COMPANY JANE LEW LIGHT AND HEAT COMPANY HOPE NATURAL GAS COMPANY	ISAAC JACKSON	Waco Oil & Gas	Lester Nash	Brent Nash	Charles R. Shock, II	Terry W. Musgrave	Charles William David Musgrave	Carl D. Musgrave	Velma L. Shock	Mike Ross	Mike Ross Inc.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION FRANSMISSION, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY	NATHAN G. MCWHORTER AND DORA E. MCWHORTER, HIS WIFE; AND MAUDE S. BUTCHER, WIDOW
JANE LEW LIGHT AND HEAT COMPANY  STANDARD GAS COMPANY  CONSOLIDATED GAS SUPPLY CORPORATION	SOUTH PENN OIL COMPANY	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY FRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY CONTROL OF THE
ASSIGNMENT (GAS) ASSIGNMENT (5 ACRES OF LEASEHOLD) ASSIGNMENT MERGER/NAME CHANGE	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	NOT LESS THAN 1/8	ASSIGNMENT (68%)	FARMOUT AGREEMENT	FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF	ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	FIRST AMENDMENT TO FARMOUT AGREEMENT	MEMORANDUM FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	CONFIRMATORY DEED	ari heni ( iai <mark>Monéess Than 1/8</mark>
73 113 113 294	58	1627	741	743	739	741	741	741	739	739	739	LEWIS 736	LEWIS 734	LEWIS 723	HARRISON 1601	HARRISON 1600	HARRISON 1584	HARRISON 1576 LEWIS 712	HARRISON 1543 LEWIS 684	HARRISON 1524	HARRISON 1522 LEWIS 672	HARRISON 58 WVSOS	WVSOS	HARRISON 1136 LEWIS 425	HARRISON 903 LEWIS 294	HARRISON 779 LEWIS 243
272 315 361 89	431	86	190	815	762	186	194	603	758	392	388	220	558	499	581	692	942	125 848	1235 57	491	33 154	362	75	250 127	179 89	94 191

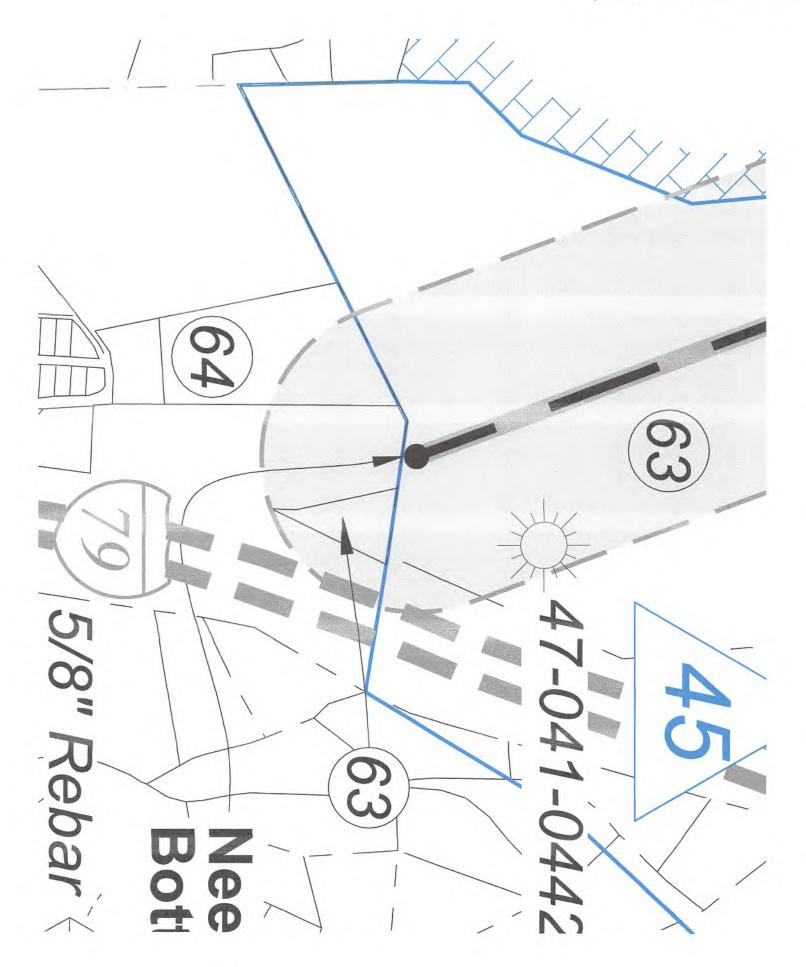
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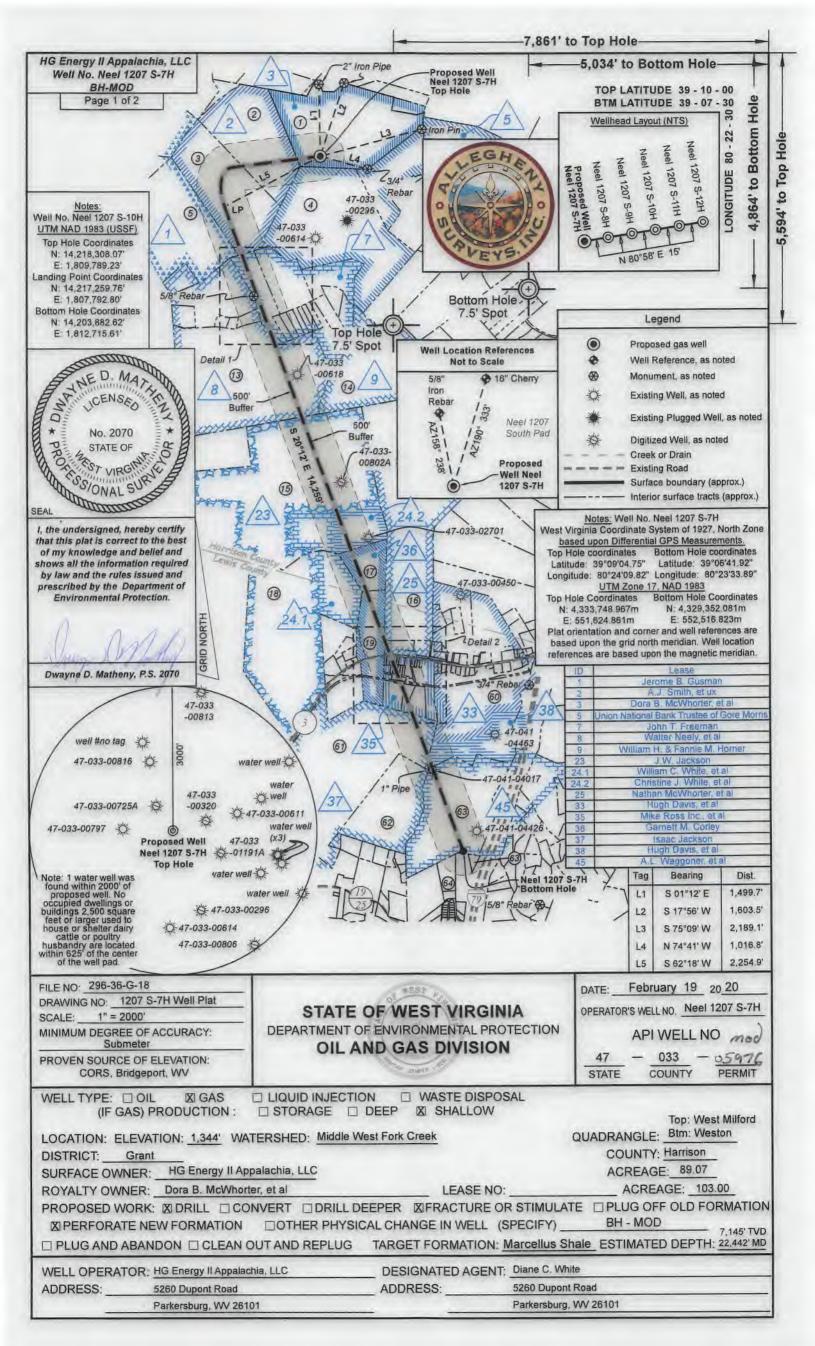
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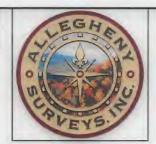
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				p/o 04-009C-0007-0000										21-04-008C-0034-0000; 21-04-0008C-0026-0000	0001; 04-008C-0047-0002, 0003, 0004;	21-04-008C-0047-0000; 04-0008C-0047-	0007, 0004, 0003, 0002, 0000;	0008, 0005, 0006,	21-04-008C-0033-0001, 0010, 0012, 0009.	21-05-0002-0001,0002,	21-04-008C-0049-0001;	21-04-008C-0058-0000;	0005, 0006, 0007, 0008, 0009;	21-05-0001-0066-0000, 0002, 0003, 0004,	21-04-008C-0086-0000;	21-05-0001-0049-0000;	21-05-0001-0084-0000;	21-05-0001-0048-0000:	21-04-0000-0034-0000,	21-04-008C-0031-0000, 0001, 0002, 0003;	21-04-008C-0030-0000, 0002;	21-04-008C-0029-0000;	0014, 0015, 0016, 0017;
																									Q100620000								
DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HUGH C. DAVIS AND MARTHA L. DAVIS, HIS WIFE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.		DOMINION TRANSMISSION INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	CABOT OIL AND GAS CORPORATIN	EMAX OIL COMPANY	EMAX OIL COMPANY	CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION
HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	GAS EXPLORATION AND DEVELOPMENT COMPANY	EMAX OIL COMPANY	CNG PRODUCING COMPANY	ENERVEST APPALACHIA, L.P.	CABOT OIL AND GAS CORPORATION	CABOT OIL AND GAS CORPORATION	CNG DEVELOPMENT COMPANY	CNG DEVELOPMENT COMPANY	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION
FARMOUT AGREEMENT ASSIGNMENT (68%)	AMENDED AND RESTATED PARTIAL ASSIGNMENT	FARMOUT AGREEMENT	MERGER/NAME CHANGE	ASSIGNMENT	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	MEMORANDUM OF FARMOUT AGREEMENT	MERGER/NAME CHANGE	MERGER/NAME CHANGE	ASSIGNMENT	NOT LESS THAN 1/8	AMENDED AND RESTATED PARTIAL ASSIGNMENT	FARMOUT AGREEMENT	SECOND AMENDMENT TO MEMORANDUM OF	MERGER/NAME CHANGE	ASSIGNMENT	CORRECTIVE ASSIGNMENT TO DB 717-1	ASSIGNMENT	PARTIAL ASSIGNMENT (32%)	LIMITED PARTIAL ASSIGNMENT (50%)	FARMOUT AGREEMENT	MERGER/NAME CHANGE	ASSIGNMENT	WELLBORE ASSIGNMENT	ASSIGNMENT	ASSIGNMENT	ASSIGNMENT	FARMOUT AGREEMENT	ASSIGNMENT	JOINT VENTURE AGREEMENT	MERGER/NAME CHANGE	ASSIGNMENT
734 736	723	723	WVSOS	722	717	712	684	672	WVSOS	WVSOS	425	303		723		WVSOS	722	725	717	712	684	672	WVSOS	554	522	522	558	513	UNRECORDED	477	UNRECORDED	WVSOS	425
558 220	527	499		170	1	848	57	154			127	297	527	499			170	784	ш	848	57	154		605	189	528	249	93		430			127

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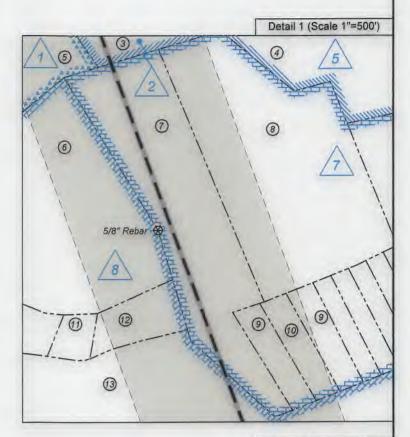
V// Denorment of Environmental Projection







No.	TM / Par	Harrison Co Grant Dist. Owner	Bk/Pg	Ac.
1	445 / 5	HG Energy II Appalachia, LLC	/	89.07
2	445/3	Lisa M. Nutter	W188 / 687	64.00
3	445 / 12	Lisa M. Nutter	W188 / 687	64.50
4	445 / 13	Mickey Petitto	W175 / 1167	132.85
5	445 / 11	Lisa M. Nutter	W188 / 687	75.50
6	445 / 23	Robert Allman, et al	W177 / 231	32.84
7	445 / 24	Garrett Wyne Snow	W186 / 1160	16.28
8	445 / 25	Leland Jackson Freeman	W167 / 371	21.00
9	445 / 35	James L. Sellers, III	1606 / 126	3.82
10	445 / 35.1	James L. Sellers, III	1606 / 126	1.85
11	445 / 23.3	Daryl W. & Cheryl Lantz	1411 / 900	1.06
12	445 / 23.1	Daryl W. & Cheryl Lantz	1411 / 900	2.50
13	445 / 46	James W. Riffle, II, et al	1385 / 259	140.43
14	445 / 47	Franklin L. & Charles R. Sutton	1365/235	78.00
15	465 / 4.1	J. Gregory & Rebecca Moore	1421 / 350	353.80
16	465 / 11	Catherine D. Weber	1495 / 458	103.72
17	465 /	Unknown Parcel	1435/436	16.52
17.	405/	Lewis Co Hackers Creek Dist.	/	10.52
NI.	TMIDE		Bk / Do	۸۰
No.	TM / Par	Owner	Bk / Pg	Ac.
18	8C / 55	William C. White	W23 / 102	92.02
19	8C / 57	Mary V. Corley Ward	581 / 453	29.28
20	8C / 56	Esther M. Riffle	347 / 76	23,12
21	8C / 57.2	Eathan S. Wamsley, et al	581 / 291	1.72
22	6/6	JSB Land Holding	684 / 440	0.07
23	6/1	Willard J. Prince	W22 / 109	4.75
24	6/2	Willard J. Prince	W22 / 109	1.22
25	6/2.2	Willard J. Prince	/	0.25
26	6/2,1	JSB Land Holding	684 / 432	0.97
27	6/16	Floyd S. Woodyard, Jr., et al	W6 / 138	4.00
28	6/15	Daniel R. & Rochelle L. Hinkle	732/6	0.18
29	6/14	Daniel R. & Rochelle L, Hinkle	732 / 6	0.18
30	6/13	Jackie Lee Frazier	244 / 399	0.18
31	6/12	Elizabeth Sue Vincent	W20 / 414	0.18
32	6/27	Michael A. & Carrie B. Grilli	716 / 569	0.27
33	6/10	Melissa C. Reel	724 / 574	0.46
34	6/9.1	Leonard M. Minigh	622 / 557	0,20
35	6/9.2	Leonard M. Minigh	622 / 557	0.30
36	6/9	Elizabeth D. Ocheltree	529 / 721	0.25
37	6 / 8.1	Elizabeth D. Ocheltree	529 / 721	0.15
38	6/7.1	Elizabeth D. Ocheltree	529 / 721	0.19
39	6/7	Ezra J. & Mary T. Waugh	362 / 599	0.48
40	6/8	Ezra J. & Mary T. Waugh	362 / 599	0.35
41	6/22	Ezra J. & Mary T. Waugh	362 / 599	0.31
42	6/21	Ezra J. & Mary T. Waugh	362 / 599	0.10
43	6 / 21.1	Leonard M. Minigh	622 / 557	0.11
44	6/20	Leonard M. Minigh	622 / 557	0.46
45	6 / 19.1	Christa A. Hendricks	584 / 707	0.17
46	6 / 18	Melissa C. Reel	724 / 574	0.02
47	6/19	Maggie U. Williams	W13 / 686	0.24
48	6/17	Maggie U. Williams	W13 / 686	0.25
49	6/27	Michael A. & Carrie B. Grilli	716 / 569	0.27
50	6 / 26	Maggie U. Williams	W13 / 686	0.22
51	6 / 25.1	Leonard M. Minigh	622 / 557	0.11
52	6/24	Leonard M. Minigh	622 / 557	0.23
53	6 / 23	Allan L. & Karen L. Osbourn	508 / 115	0.28
54	6 / 87	Mike Ross Inc.	531 / 303	14.27
55	8C / 57.1	Jack L. Frazier	524 / 498	13.50
56	6/29	Ronzel C. & Sandra K. Richards	333 / 347	5.20
57	6/30	William W. Booth	W15 / 229	2.50
58	6/31	Steven L. & Anna M. Butcher	543 / 765	4.00
	6/32	Ronzel C. & Sandra K. Butcher	317 / 331	4.00
	0/02	Sharon Lee Alman	W47 / 298	74.55
59	90.17			14,00
59 60	9C / 7	William C White		125 10
59 60 61	8C / 58	William C. White	W23 / 102	
59 60		William C. White  James E. & Louise K. Dyer  Hunter Kolb		126.18 54.62 1.07





FILE NO: 296-36-G-18 DRAWING NO: \_ 1207 S-7H Well Plat SCALE: \_ 1" = 2000'

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: \_ February 19 20 20 OPERATOR'S WELL NO. Neel 1207 S-7H API WELL NO mod 47 033 05976 PERMIT STATE COUNTY

WELL TYPE (II	∷ □ OIL GAS) PROD	⊠ GAS OUCTION	☐ LIQUID I	NJECTION [ GE   DEEP	☐ WASTE DISPOSAL  ☐ SHALLOW
LOCATION:	ELEVATION	: 1,344'	WATERSHED:	Middle West Fork	Creek

SURFACE OWNER: HG Energy II Appalachia, LLC ROYALTY OWNER: Dora B. McWhorter, et al

QUADRANGLE: Btm: Weston COUNTY: Harrison ACREAGE: 89.07 ACREAGE: 103.00

Top: West Milford

PROPOSED WORK: DRILL	□ CONVERT	□ DRILL DEEPER	<b>XIFRACTURE</b>	OR STIMULATE	□ PLUG OFF	OLD FORMATION
X PERFORATE NEW FORMAT	TION DOTH	HER PHYSICAL CHA	NGE IN WELL	(SPECIFY)	BH - MOD	7 145'TVD

LEASE NO:

					7,145' TVD
□ PLUG AND ABANDON □ CLEAN OU	T AND REPLUG	TARGET FORMATION:	Marcellus Shale	ESTIMATED DEPTH:	22,442' MD

WELL OPERATOR:	HG Energy II Appalachia, LLC	DESIGNATED AGENT:	Diane C. White	
ADDRESS:	5260 Dupont Road	ADDRESS:	5260 Dupont Road	
	Parkersburg, WV 26101		Parkersburg, WV 26101	



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

February 17, 2020

WV DEP Division of Oil & Gas Attn: James Kennedy 601 57<sup>th</sup> Street Charleston, West Virginia 25304

RE:

Neel 1207 S-7H Permit Application Revision – (47-033-05976)

Grant District, Harrison County

West Virginia

Dear Mr. Kennedy:

Per our discussions, enclosed are revised forms (survey plat, mylar, WW-6B, casing schematic and WW6A-1) for the 1207 S-7H well work drilling permit. We request the permit be modified as additional leases have been secured to lengthen the lateral.

Allia of Oil and Gas

MAR 0 2 2020

Please let me know if you have any questions or require additional information. I can be reached at (304) 420-1119 or <a href="mailto:dwhite@hgenergyllc.com">dwhite@hgenergyllc.com</a>.

Very truly yours,

siane White

Diane C. White

Enclosures

cc: Sam Ward - Inspector