

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 20, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for NEEL 1207 N-3H

47-033-05970-00-00

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: NEEL 1207 N-3H

Farm Name: HG ENERGY II APPALACHL

U.S. WELL NUMBER: 47-033-05970-00-00

Horizontal 6A New Drill Date Issued: 11/20/2019

API Number:	

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:	

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, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47- 33 - 05 970 R ev.

OPERATOR WELL NO. Neel 1207 N-3H

Well Pad Name: Neel 1207

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	Harrison	Union	West Milford 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Ne	el 1207 N-3H	Well P	ad Name: Nee	el 1207	
3) Farm Name/Surface Owner:	HG Energy II Appalach	ia, LLC Public R	oad Access: _	lidden Valle	y Rd @ SR 19
4) Elevation, current ground:	1354' El	evation, propose	d post-construc	tion: 1344'	
5) Well Type (a) Gas <u>x</u> Other	Oil	Un	derground Stor	rage	
(b)If Gas Sha	llow x	Deep			Sow
Hor	rizontal X				9 (20/20/
6) Existing Pad: Yes or No No			_		
 Proposed Target Formation(s) Marcellus at 7076'/7158' and 8 			The state of the s	Pressure(s):	
8) Proposed Total Vertical Depti	h: 7145'				
9) Formation at Total Vertical D	epth: Marcellus				
10) Proposed Total Measured De	epth: 24,768'				
11) Proposed Horizontal Leg Le	ngth: 16,955'				
12) Approximate Fresh Water St	trata Depths:	135', 245', 425	5', 630', 731'		
13) Method to Determine Fresh	Water Depths:	learest offset w	ell data		
14) Approximate Saltwater Dept	ths: 1782', 1848'				
15) Approximate Coal Seam De	pths: 290, 340,	592, 1004' to 10	009'		
16) Approximate Depth to Possi	ble Void (coal mi	ne, karst, other):	None		
 Does Proposed well location directly overlying or adjacent to 			N	Io X	
(a) If Yes, provide Mine Info:	Name:				
The second secon	Depth:				Province
	Seam:				Office of Oil and Gas
	Owner:				OCT - 3 2019

WV Department of Environmental Protection RECEIVED

Filter of CFract Cies

2019

garaetas rienteladi" et nanaetas rienteladi" et WW-6B (04/15)

API NO. 47-____

OPERATOR WELL NO. Neel 1207 N-3H

Well Pad Name: Neel 1207

18)

CASING AND TUBING PROGRAM

TYPE	1	New				T	
	Size (in)	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	1100'	1100'	40% excess yield =1.20,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2200'	2200' -	40% excess yield = 1,20,015
Intermediate 2	9 5/8"	NEW	J-55	40	3000'		40% excess yield Lead Vis Excess Table
Production	5 1/2"	NEW	P-110	23	24768'		
Tubing			1 - 1			24700 7	25% excess yield = 1,10, tall yield = 1
Liners							

SDW 11/19/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield
Conductor	30"	30"	.500		11035tile (psi)		(cu. ft./k) Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate I	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	7 7 7 7 7 7 7 7
Production	5 1/2"	8 1/2"	.415	16240 ✓	12500	Type 1/ClassA	
Tubing					12000	1370 11012331	
Liners							

PACKERS

Kind:	Office of ELVI
Sizes:	MOV I
Depths Set:	1 22
	Environmental Protec

WW-6B
(10/14)

API NO. 47- 33 - 05170

OPERATOR WELL NO. Neel 1207 N-3H

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 16,955 lateral length, 24,768 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): 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 contraktures will be used with conductor casing.
Freshmater/Coal - contrakture overy 3 joints to surface.
Freshmater/Coal - contraktured every 3 joints to surface.
Intermediate 1 - Down Spring on every joint, will also be curreing ECP for isolating storage zone intermediate 2 - Bow Spring on that 2 joints then every third joint to 100 from surface.
Production - Run 1 spiral centrakture every 5 joints from the top of the curve to surface. Run 1 spiral centrakture 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 4-N. Casting to the diffeed in or Dutil Rotsay Rig.
Finsh MicarChail - 1.5 8 ppg PNE-1 + 2.5% bence CaCL 40% Excess Yield + 1.20, CTS
Finsh MicarChail - 1.5 8 ppg PNE-1 + 2.5% bence CaCL 40% Excess Yield + 1.20, CTS
Informediate 1. Least: 1.5 4 ppg PNE-1 + 2.5% bence CaCL 4.0% Excess / Tat: 15.9 ppg PNE-1 + 2.5% bence CaCL 200% Excess . CTS
Informediate 2 - Least: 15.4 ppg PNE-1 + 2.5% bence CaCL 40% Excess, Tat: 15.9 ppg, PNE-1 + 2.5% bence CaCL zero% Excess . CTS
Informediate 2 - Least: 15.4 ppg PNE-1 + 2.5% bence CaCL 40% Excess, Tat: 15.9 ppg, PNE-1 + 2.5% bence CaCL zero% Excess . CTS
Production - Lead: 14.5 ppg POZ-PNE-1 + 0.3% bence R3 + 1% bence EC1 + 0.75 gal/sk FP13L + 0.3% bence R3 + 0.75 gal/sk FP13L + 5.0% bence ASCAI + 0.5% bence ASCAI + 0.5% bence ASCAI + 0.5% bence MPA170 20% Excess . Lead Yield=1.94. CTS

Office of Oil and Gas

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD. Frash Water/Case - Once cashing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement. Intermedate 1 - Once cashing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement. Intermedate 2 - Once cashing is at setting depth, Circulate and condition must at TD. Circulate a minimum of one hole volume prior to pumping cement. Production - Once on bottom/TD with cashing, circulate at max allowable pump rate for at least 2x bottoms up, or unto instume and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

Neel 1207 Well Pad (N-1H to N-6H, S-7H to S-12H) <u>Cement Additives</u>

naterial Name	Material Type		CAS#		
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100 1 - 5	65997-15-1
		early compressive	Calcium oxide Magnesium oxide	1-5	1305-78-8 1309-48-4
mium NE-1	Portland Cement	strength properties.	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
		Commonly called gel, it is a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
	*******	water.			
tonite	Extender				
		A powdered, flaked or	Every story	IA.	Taxa II
		pelletized material used	Ingredient name Calcium chloride	% 90 - 100	CAS number 10043-52-4
		to decrease thickening time and increase the rate	Calcium Unionde	90 - 100	10043-52-4
		of strength development			
um Chloride	Accelerator				
		5-4-4 (2/0 to 2/4 ())		Total	
		Graded (3/8 to 3/4 inch) cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in	Control of the contro	le:	Tara V
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air entrapment and			
		preventing foaming			
		tendencies of latex			
		systems.			
13L	Foam Preventer				
			Ingredient name	%	CAS number
and the state of	2.4	Used to retard cement	Sucrose	90 - 100	57-50-1
nulated Sugar	Retarder	returns at surface. A proprietary product			
		that provides expansive			
		properties and improves	<u> </u>		
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
1		temperatures.			
1		Multi-purpose polymer			
		additive used to control			
		additive used to control	Incredient name	%	CAS number
		free fluid, fluid loss,	Ingredient name No hazardous ingredient	%	CAS number
		free fluid, fluid loss, rheology, and gas	No hazardous ingredient	%	CAS number
A-170	Gas Migration	free fluid, fluid loss,		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheclogy, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide).		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheclogy, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Sillcon Dioxide). When blended with cement, Pozzolan can be		%	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SIO2)	% 5 - 10	CAS number 14808-60-7
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement	No hazardous ingredient Ingredient name	76	CAS number 14808-60-7
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SIO2)	% 5 - 10	CAS number
A-170	Gas Migration	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SIO2)	% 5 - 10	CAS number 14808-60-7 1305-78-8 PECEIVED Office of Oil and C
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SIO2)	% 5 - 10	CAS number 14808-60-7 1305-78-8 PECEIVED Office of Oil and C
	Gas Migration Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SIO2)	% 5 - 10	CAS number 14808-60-7
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SIO2)	% 5 - 10	CAS number 14808-60-7 1305-25-6-EIVED Office of Oil and O AUG 2 7 2019
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	No hazardous ingredient Ingredient name Crystalline silica: Quartz (SIO2)	% 5 - 10	CAS number 14808-80-7 1305-73-8 HECEIVED Office of Oil and O
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry.	No hazardous ingredient Ingredient name Crystalline silica; Quartz (SIO2) Calcium oxide	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-25-6-EIVED Office of Oil and O AUG 2 7 2019
		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-80-7 1305-ECEIVED Office of Oil and C AUG 2 7 201
(Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry.	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-80-7 1305-ECEIVED Office of Oil and C AUG 2 7 201
(Fly Ash)		free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-80-7 1305-ECEIVED Office of Oil and C AUG 2 7 201
(Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt	% 5 - 10 1 - 5	CAS number 14808-60-7 1305-126-61-120-120-120-120-120-120-120-120-120-12
(Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyathanol	% 5 - 10 1 - 5 % 40 - 60	CAS number 14808-80-7 1305-28-9 Office of Oil and O AUG 2 7 2011 WV Department Environmental Prote Trade secret.
(Fly Ash)	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt Ingredient name Proprietary surfactant	% 5 - 10 1 - 5 % 40 - 60 % 20 - 30 10 - 20 5 - 10	CAS number 14808-60-7 1305-126-61-120-120-120-120-120-120-120-120-120-12
A-170	Base	free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkylarylsulfonate amine salt	% 5 - 10 1 - 5 % 40 - 50 % 20 - 30 10 - 20	CAS number 14808-80-7 1305-75-8 HECEIVED Office of Oil and O AUG 2 7 2011 WV Department Environmental Prote Trade secret.

PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK-GANTZ SAND

WELL NAME: Neel 1207

Well # Neel 1207 N-3H

DISTRICT/COUNTY/STATE: Grant/Union, Harrison, WV

Submitted

JOSH HINTON HG ENERGY, LLC DATE 8-15-19

Approved

Kombl L Wale

DATE 8/15/19

RECEIVED Office of Oil and Gas

AUG 27 2019

WV Department of Environmental Protection

Approved

Dominion Energy Transmission

Dominion Energy Transmission

DATE 8/15/19

Comments:

HG Energy has submitted this Casing & Cementing diagram and Drilling Plan to Dominion Transmission for Review. This signed document acknowledges that Dominion has reviewed the proposed casing program and the well's location within the Fink/Kennedy/Lost Creek storage field. This acknowledgement also confirms the proposed casing program is accurate to the proper storage zone as provided by HG Energy, LLC

MINISTER SAN

of the section of a first ection

70 to 81 15 str.



1207 N-3H

Marcellus Shale Horizontal

Little/Big Lime 1552/1594 1564/1644 AIR KCL Skewers Contract Strenge zone* Surface / Fifty / Thirty Fool 2011/2182 2151/2192 Gordon Strey / Cordon 2216/2276 2276/2455 Shand 2525 2537 Bayrar / Warren 2591/2891 2001/2831 Shand 2525 2531 Intermediate 2											Harrison C	ounty, WV	
## 12.07 N-3H BHL 14.234497.24N 1802722.07E ## 15.00 GEOLOGY TOP ## 15.00 GEOLOGY								1207 I	N-3H SH	IL	14	218628.17N 18097	64.61E
A	und Ele	vation	1		1343			1207	N-3H LI	D	14	218516.27N 18083	69.15E
## PROPER DIAGRAM ## PIOLE CASING GEOLOGY TOP BASE MUD CEMENT ## PIOLE CASING GEOLOGY TOP BASE MUD CEMENT CEMENT TO THE PIOLE CASING TO ST WE THINK THE PIOLE CASING TO ST WE THINK TO THE PIOLE CASING TO THE PIOLE CASING TO THE PIOLE CASING TO THE PIOLE C	Azm				340.53	8°		1207 N	N-3H BH	1L	14	234497.24N 18027	22.07E
Script S	7-2-7-2-8-8	47.50.52	- 1	HOLE			TOP	T					
No. Conductor		20,000	П					7.70					
24" 20" Cosi			×	30"		Conductor	0	120	AIR		N/A	The second secon	Conductor casing = 0.5" wa thickness
24" 24" 348 355						Fresh Water	0						Surface casing = 0.438" wa
Surface / FW D 1190			X	24"		Coal	1004	1009	AIR	200000000000000000000000000000000000000	The second secon	of one hole volume with	thickness
17.5" 15.5/8" 68# J-55 BTC Intermediate 1 0 2200 Intermediate 1 0 2200 Intermediate 1 0 2200 Intermediate 1 0 2200 Intermediate 2 276 J 2465 J-56 BTC Shift Sand 2525 2537 Bayard / Warren 2591 / 2891 2601 /		×		4 - 1	48.55	Surface / FW	0	1100		Yield=1.20 / CTS		the contract of distribution or sign	Burst=2110 psi
17.5" 13-8/8" 68# 15-5 BTC						100 000 11			no mo				
The mediate 1 D 2200 Polymer CaCl 2ero/K Excess CTS Strage zone*				17.5"	4.4			A STATE OF THE STA	the state of the s				
12.25" 3-58" 40# 4-58 BTC 3-58" 40# 3-58" 40		^			u-33 11 C				Polymer	CaCl	The second secon	The second of th	Burst=3450 psi
12.25" 9-5/8" 40 #						Intermediate 1		2200		zero% Excess. CTS	Storage zone	cement	
12.25" 9.58" 40# J-55 BTC Shand 2525 2537 Bayard / Warren 2591 / 2891 2601 / 2691		X						and at the	1				
Salt Digital Salt Digital				00.00	9-5/8" 40#				AIR / KCL				Intermediate casing = 0.39
Search S				12.25"		7 77 - 7400	122.411			ppg PNE-1 + 2.5% bwoc	joint to 100' form	Circulate a minimum of one	
Speechley 3211 3231 32		×							- Significan		surface		Buildi Stock por
Balltown 3438 5448 9.0ppg POZ:PNE-1+0.3% bwoc R1+1% bwoc R1+1% bwoc R1+1% byoc R1+1% by	W.									200000000000000000000000000000000000000		7	
Benson 4529 4544 SOBM Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 11% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MA7170 Tail: 14.8 ppg PNE-1 + 0.3% bwoc R3 + 0.75 gal/sk FP13L + 0.9%	X	X							7.		Run 1 spiral centralizer		
Poz-pne Poz-	8	101		8.5" Vertical						Lead: 14.5 ppg			
Hamilton 6967 7076 Lead Yield=1.19 Tail Yield=1.94 CTS top of the curve. cement.	말	1	0			Benson	4529	4544	SOBIVI	POZ:PNE-1 + 0.3%	The state of the s		
Hamilton 6967 7076 Lead Yield=1.19 Tail Yield=1.94 CTS top of the curve. cement.	\$ ₹	9 3	Ĕ.			Dhistory	2007	00.40				Once on bottom/TD with	
Hamilton 6967 7076 Lead Yield=1.19 Tail Yield=1.94 CTS Log of the curve. Cement.	I Da	1 6	E E							FP13L + 0.3% bwoc		casing, circulate at max	
Hamilton 6967 7076 Lead Yield=1.19 Tail Yield=1.94 CTS top of the curve. cement.	par	11 3	58		5-1/2"				200.0	The second second second second second			
Hamilton 6967 7076 Lead Yield=1.19 Tail Yield=1.94 CTS top of the curve. cement.	7=3	3	SEL SEL	8.5" Curve						0.35% bwoc R3 + 0.75			
Hamilton 6967 7076 Lead Yield=1.19 Tail Yield=1.94 CTS top of the curve. cement.	oteo		0	0.5 Guive			20.00	2334			Run 1 spiral centralizer		schedules may be change
Hamilton 6967 7076 Lead Yield=1.19 Tail Yield=1.94 CTS Log of the curve. Cement.	of of	9	20							201220111111111111111111111111111111111	THE RESERVED FOR THE PROPERTY OF THE PROPERTY		due to hole conditions
Marcellus 7076 7158 Tall Yield=1.94 CTS	3	100						11276					
8.5" Lateral TMD / TVD	01		ŀ										
X X Onondaga 7158 SOBM				8.5" Lateral		TMD / TVD		1 2 2 2	12.5ppg	013			
X X X X X X X X	×	×					7158		SOBM				
				X	X			-	X	.	X	X	X **
	X	1	, y	X	X	X	X		X	X	X	. X	X=centralizers

List of Frac Additives by Chemical Name and CAS

Neel 1207 Well Pad (N-1H to N-6H, S-7H to S-12H)

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

AUG 27 2019

Environmental Protection

WW-9 (4/16)

API Number 47 -

Operator's Well No. Neel 1207 N-3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) Middle West Fork Cr	
Do you anticipate using more than 5,000 bb Will a pit be used? Yes No	ols of water to complete the proposed well work? Yes No
If so, please describe anticipated p	
Will a synthetic liner be used in th	e pit? Yes No V If so, what ml.?
Proposed Disposal Method For Tre	eated Pit Wastes: 5DW 8]14/2019
Land Application	
	ection (UIC Permit Number)
	Jumber TBD - At next anticipated well
Other (Explain	I (Supply form WW-9 for disposal location)
	scribe: Yes, outlings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill. Vertical and horizontal)? Air, freshwater, oil based, etc. Vertical-Air, Air/KCL, SOBM Horizontal - SOBM
-If oil based, what type? Synthetic	
Additives to be used in drilling medium?	Water, Soap, KCI, Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pi	it, landfill, removed offsite, etc. Approved Landfill
-If left in pit and plan to solidify w	rhat medium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit nu	imber? See Attached
Design to the state of the stat	
	e Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any ce shall be provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and provisions of the permit are enforceable by law or regulation can lead to enforcement at application form and all attachments the obtaining the information, I believe that the	the to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued as of the West Virginia Department of Environmental Protection. I understand that the value. Violations of any term or condition of the general permit and/or other applicable ction. at I have personally examined and am familiar with the information submitted on this reto and that, based on my inquiry of those individuals immediately responsible for the information is true, accurate, and complete. I am aware that there are significant nocluding the possibility of fine or imprisonment. Office of Oil and Ga
Company Official Signature Dian	e White AUG 27 2019
Company Official (Typed Name) Diane W	
Company Official Title Agent	Environmental Protection
Subscribed and sworp before me this 16th	day of July , 20 19
My commission expires 11/2/	Notary Public OFFICIAL SEAL Notary Public NOTARY PUBLIC. STATE OF WEST VIRIGINIA MARK J SCHALL H G Energy LLG PO Box: 5519, Vienna, WY 20108 My Commission Explires November 2, 2021

Field Reviewed?

roposed Revegetation Treatr	ment: Acres Disturbed 2	8.602 Prevegetation pl	I
Lime	3 Tons/acre or to corre	ct to pH6.5	
Fertilizer type 10-	20-20		
Fertilizer amount	5	00 lbs/acre	
_{Mulch} Hay	2	Tons/acre	
		Seed Mixtures	
Ter	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
tach: aps(s) of road, location, pit ovided). If water from the p reage, of the land applicatio	and proposed area for lan it will be land applied, ind n area	Illing and completion process d application (unless engineered plans include dimensions (L x W x D) of the pit, and	ling this info have beer dimensions (L x W), a
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	dimensions (L x W), a
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	dimensions (L x W), a
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv lan Approved by: Pre-seed/i	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet. A Devance mulch as soon a	d application (unless engineered plans included limensions (L x W x D) of the pit, and	dimensions (L x W), a
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv lan Approved by: Pre-seed/i	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet. A Devance mulch as soon a	d application (unless engineered plans included under dimensions (L x W x D) of the pit, and a stream of the pit, and a s	dimensions (L x W), a
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv lan Approved by: Pre-seed/i	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet. A Devance mulch as soon a	d application (unless engineered plans included under dimensions (L x W x D) of the pit, and a stream of the pit, and a s	dimensions (L x W), a
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv lan Approved by: Pre-seed/i	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet. A Devance mulch as soon a	d application (unless engineered plans included under dimensions (L x W x D) of the pit, and a stream of the pit, and a s	dimensions (L x W), a
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv lan Approved by: Pre-seed/i	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet. A Devance mulch as soon a	d application (unless engineered plans included under dimensions (L x W x D) of the pit, and a stream of the pit, and a s	regulation.
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv lan Approved by: Pre-seed/i	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet. A Devance mulch as soon a	d application (unless engineered plans included under dimensions (L x W x D) of the pit, and a stream of the pit, and a s	regulation.
ttach: laps(s) of road, location, pit rovided). If water from the p creage, of the land applicatio hotocopied section of involv lan Approved by: Pre-seed/i	and proposed area for lan it will be land applied, income area. ed 7.5' topographic sheet. Devoure mulch as soon a seeded per WV [d application (unless engineered plans included under dimensions (L x W x D) of the pit, and a stream of the pit, and a s	dimensions (L x W), a

(______) Yes (_______) No

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

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

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

Environmental Coordination Services & Recycling (ECS&R) 8297 US Highway 19 Cochranton, PA 16914 814-425-7778

Disposal Locations:

Apex Environmemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 48909 740-548-4989

Westmoreland Waste, LLC Permit # 1.00277 111 Conner Lane Belie Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R80-078001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 901071 283 Max Lane Yukon, PA 25968 724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PADO5087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 412-884-7569

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

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

Waste Management Meadowfill Permit # 1082 1488 Dawson Drive Bridgeport, WV 26330

Brooks County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 904-748-0014 RECEIVED
Office of Oil and Gas

AUG 27 2019

WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 904-455-3800

Energy Solutions, LLC Permit # UT 2300249 428 West 200 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-79006-L24 1,560 Bear Creek Road Oak Ridge, TN 97830

Northern A-1 Environnemental Services Permit ID MID020906814 8847 US 181 North, PO Box 1080 Kalkaska, MI 49646 281-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT #720485 8790 State Route 7 New Waterford, OH 44445 830-892-01.64

Nabors Completion & Production Services Go. PO Box 975682 Dallas, TX 75997-5682

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

Nuverra Environmental Solutions 1.1942 Vetarans Memorial Highway Masontown, WV 26542

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

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15801

Disposal Locations:

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

Solidification/incineration
Soli Remediation, Inc. Permit # 02-20758
6065 Arrel-Smith Road
Lowelville, OH 44486
880-586-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 28986 Airport Road Coshocton, OH 48812 740-575-4484 512-478-6545 CMS of Dalaware Inc. DBA CMS Olifield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, Inc. 1380 Rte. 286 Hwy. E, Suite 208 Indians, 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 15622

Burna Drilling & Excavating 618 Crabapple Road P.O. Bos Wind Ridge, PA 15880 RECEIVED
Office of Oil and Gas

AUG 27 2019

WV Department of Environmental Protection

Nichlos 1-A (SWIW #18) Permit # 8862 800 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

Grosella (SWIW #34) Permit # 4096 Rt. 88 Garrettsvilla, OH 719-276-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 42767 614-648-8898 740-796-6495

4703 305970

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin TX 78703 Permit # 34-081-2-7178 740-575-4484 512-478-6545

Adams #2 (Buckeye Brine, LLC) Parmit #24-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 612-478-6545

Mozena #1 Well (SWIW # 18) Permit # 84-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 48882 740-768-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Corappolis, PA 15108 412-829-7275

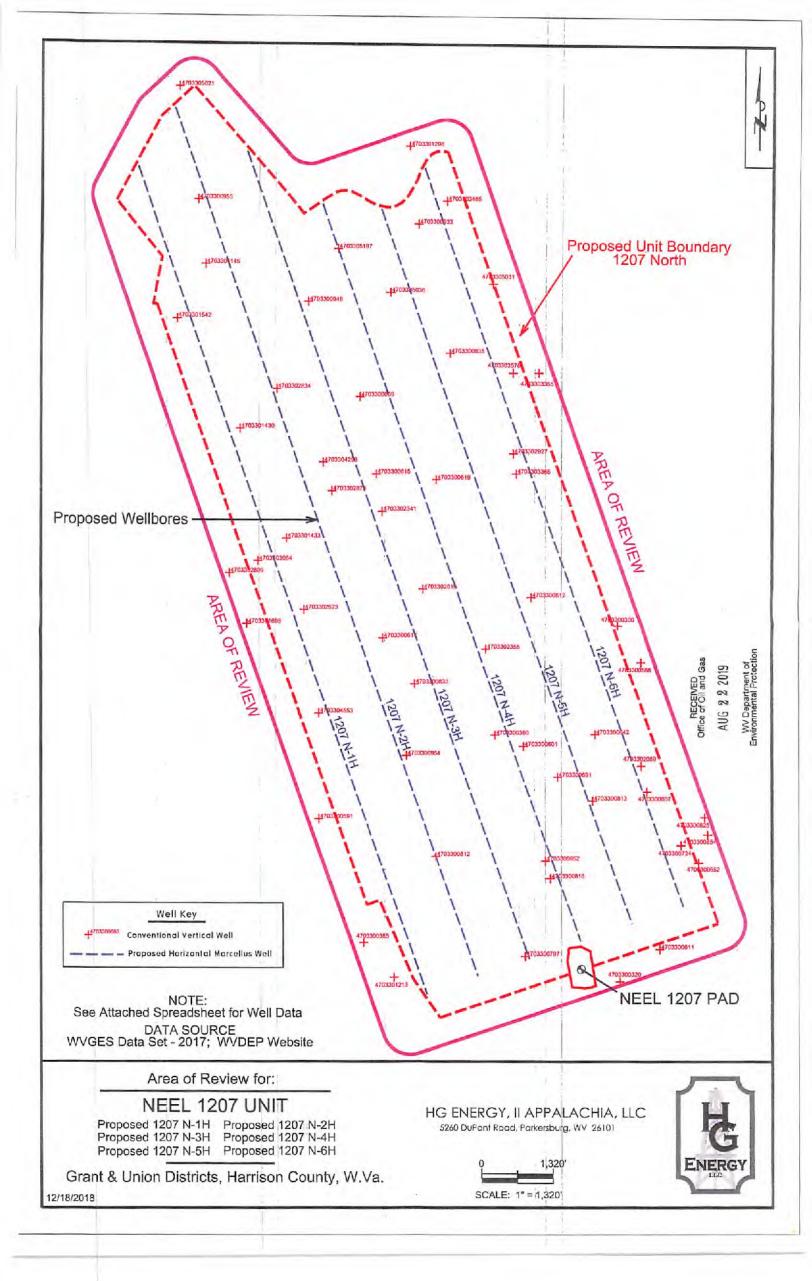
SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Olifield Services, Inc.
2988 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1)
Permit # 84-121-2-2459-00-00
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 1,000 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 804-828-6568

Chapin #7 UIC (SWIW #7)
Permit # 84-083-2-4197-00-00
Elkhead Gas& Oil Company
12168 Marne Rd. NE
Newark, OH 43055
740-768-3966



EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

NUTTER 1207 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H & N-6H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300300	HARRISON	C H Gaston 2 CW136	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2050	PLUGGED	39,169238	-80.399969
2	4703300320	HARRISON	Dora B McWhorter	Dominion Energy Transmission Inc.	Gordon	Storage	2039	PLUGGED	39.151229	-80.399968
3	4703300380	HARRISON	C H Gaston	Dominion Energy Transmission Inc.	Gordon (undiff)	Storage	2094	ACTIVE	39.16371	-80.407981
4	4703300385	HARRISON	Gusman	UNKNOWN	Hampshire Grp	Storage	2337	PLUGGED	39.153261	-80.416667
5	4703300588	HARRISON	Petitto Brothers Inc	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4461	ACTIVE	39.167359	-80.398441
6	4703300591	HARRISON	William W Brodwater III	Dominion Energy Transmission Inc.	Benson	Gas	4488	ACTIVE	39.159553	-80.419511
7	4703300601	HARRISON	James L/Mary A Sellers	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4300	ACTIVE	39.16313	-80.406118
8	4703300611	HARRISON	Willard B/B Westfall	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4430	ACTIVE	39.152826	-80.397359
9	4703300612	HARRISON	WV Department of Nat Res	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4397	ACTIVE	39,170689	-80.405559
10	4703300615	HARRISON	Hiram Burnside	Dominion Energy Transmission Inc.	Benson	Gas	4295	ACTIVE	39.17693	-80.415622
11	4703300617	HARRISON	Linda J Maxwell Trust	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4440	ACTIVE	39.168657	-80.415249
12	4703300619	HARRISON	Carl Smith 1	Antero Resources Corporation	Benson	Gas	4282	ACTIVE	39.176639	-80.411709
13	4703300642	HARRISON	Charles H Gaston	Dominion Energy Transmission Inc.	UNKNOWN	NA		PLUGGED	39.16371	-80,401459
14	4703300652	HARRISON	R Bartlett CW528	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2140	PLUGGED	39,157187	-80.394798
15	4703300691	HARRISON	C H Gaston CW126	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2074	PLUGGED	39.161574	-80.403918
16	4703300724	HARRISON	A C Thrash CW235	Dominion Energy Transmission inc.	Fifty-foot	Storage	1910	PLUGGED	39.158092	-80.395928
17	4703300797	HARRISON	A J Smith CW121	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	2200	ACTIVE	39.152535	-80,406118
18	4703300807	HARRISON	Mae Gaston CW127	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	2056	ACTIVE	39,160808	-80.398105
19	4703300812	HARRISON	Linda Maxwell Trust	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4539	ACTIVE	39.157615	-80.411895
20	4703300813	HARRISON	Mae Gaston CW125	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2125	ACTIVE	39.160373	-80.401646
21	4703300816	HARRISON	Mae Gaston CW124	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2150	ACTIVE	39.156454	-80.40444
22	4703300825	HARRISON	H T Edwards CW236	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1881	ACTIVE	39,159502	-80.394379
23	4703300833	HARRISON	Cnsrvtn Com CW132	Dominion Energy Transmission Inc.	Thirty-foot	Storage	2002	ACTIVE	39.166323	-80.413199
24	4703300835	HARRISON	Vance Ward	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4521	ACTIVE	39.183026	-80.410777
25	4703300854	HARRISON	Rhonda Koutsobabis	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4410	ACTIVE	39,158631	-80.394192
26	4703300869	HARRISON	James G McWhorter	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4341	ACTIVE	39.180849	-80.416666
27	4703300933	HARRISON	Hiram Munday 3	EQT Production Co.	Benson	Gas	4465	ACTIVE	39.189588	-80.41283
28	4703300948	HARRISON	M S Ward	EQT Production Co.	Benson	Gas	4475	ACTIVE	39.185637	-80.42002
29	4703300952	HARRISON	Joseph D/Marva Shepherd	Dominion Energy Transmission Inc.	Benson	Gas	4595	ACTIVE	39.157348	-80.404757
30	4703300954	HARRISON	Linda J Maxwell Revocable Trust	Dominion Energy Transmission Inc.	Benson	Gas	4473	ACTIVE	39.162695	-80.413758
31	4703300955	HARRISON	Zina M Davis	Dominion Energy Transmission Inc.	Benson	Dry w/ Gas Show	4446	PLUGGED	39.190792	-80.427201
32	4703301213	HARRISON	J B Gusman	Dominion Energy Transmission Inc.	Benson	Oil and Gas	4560	ACTIVE	39.151519	-80.414689
33	4703301298	HARRISON	W E Wease	Alliance Petroleum Corporation	Greenland Gap Fm	Gas	4394	ACTIVE	39.193487	-80.413389
34	4703301430	HARRISON	H Burnside	Dominion Energy Transmission Inc.	Hampshire Grp	Storage	2232	ACTIVE	39.179252	-80.424493

RECEIVED Office of Oil and Gas WV Department of Environmental Protection

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

NUTTER 1207 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H & N-6H LATITUDE LONGITUDE STATUS FORMATION NAME WELL TYPE API **OPERATOR NAME** CT COUNTY -80.421512 ACTIVE 39.173737 4548 Gas 35 4703301433 James Maloney Dominion Energy Transmission Inc. Greenland Gap Fm HARRISON ACTIVE 39.184786 -80.428592 Gas 2799 Greenland Gap Fm 36 Ross & Wharton Gas Co. 4703301542 HARRISON Stephen Hinkle ACTIVE 39.169414 -80.424118 4516 Gas Dominion Energy Transmission Inc. Benson 4703301698 HARRISON Maxwell -80.398478 ACTIVE 39.162114 38 Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4636 4703302089 leffrey O'Field HARRISON ACTIVE 39.175043 -80.415248 1768 Thirty-foot Observation Dominion Energy Transmission Inc. 39 4703302341 HARRISON WV Conservation CW-140 39.168076 -80.40854 2000 ACTIVE Dominion Energy Transmission Inc. Thirty-foot Observation 4703302358 R S Hershey CW135 HARRISON 1820 PLUGGED 39.171124 -80.41264 Dominion Energy Transmission Inc. Gantz Storage 41 4703302619 HARRISON WV Con Com CW141 39.170108 -80.420393 1940 ACTIVE Dominion Energy Transmission Inc. Thirty-foot Storage 4703302623 HARRISON R H Martin CW-133 -80.422103 1797 ACTIVE 39.181255 43 Dominion Energy Transmission Inc. Fifty-foot Storage 4703302834 HARRISON McWhorter CW144 39.176085 -80,41853 PLUGGED Gas w/ Oil Show 3041 Greenland Gap Fm 44 4703302879 HARRISON Burnside Dominion Energy Transmission Inc. PLUGGED 39.171995 -80.425239 Greenland Gap Fm Gas 3011 4703302899 Dominion Energy Transmission Inc. HARRISON K M Patton/R Reed 1 39.177945 -80.406677 UNKNOWN -PLUGGED NA Dominion Energy Transmission Inc. 46 4703302927 HARRISON Carl Smith (CW-143) -80.423373 39.172605 2933 PLUGGED 47 4703303064 Dominion Energy Transmission Inc. Greenland Gap Fm Gas HARRISON J Chevront (CW-154) -80.404998 4575 ACTIVE 39.182031 Gas Antero Resources Corporation Benson 4703303365 HARRISON Carl V Smith Jr 4 39.17693 -80.406491 4605 ACTIVE 49 Antero Resources Corporation Benson Gas 4703303366 HARRISON Carl V Smith Jr 5 -80.410963 2002 ACTIVE 39.190718 Storage 50 Dominion Energy Transmission Inc. Hampshire Grp 4703303465 HARRISON Rodney Combs -80.406675 PLUGGED 39.182031 UNKNOWN 3308 NA 51 4703303576 HARRISON Carl Smith (CW-151) Dominion Energy Transmission Inc. ACTIVE 39.187542 -80,426729 Gas 4360 52 Dominion Energy Transmission Inc. Greenland Gap Fm 4703304145 Joseph H Workman 1 HARRISON PLUGGED 39.177535 -80,419089 2942 Gas Dominion Energy Transmission Inc. Greenland Gap Fm 53 4703304296 HARRISON Hiram Burnside ACTIVE 39,164873 -80.419461 Misc Sands-BNSN/BRLR 4638 54 4703304553 Dominion Energy Transmission Inc. Gas Linda J Maxwell HARRISON 4520 ACTIVE 39.196533 -80.428408 Greenland Gap Fm Ga₅ 55 4703305021 HARRISON Buffalo Lake Dev LLC Alliance Petroleum Corporation -80.407981 4550 ACTIVE 39.186527 56 Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4703305031 HARRISON Robert M Lewis Gas 4460 ACTIVE 39.186108 -80.414657 Dominion Energy Transmission Inc. 4703305036 HARRISON Ward, Evelyn Marie Benson 39.188333 -80.418094 6986 ACTIVE 58 HARRISON Dominion Energy Transmission Inc. Huntersville Chert Ga5 4703305197 Evelyn Marie Ward

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE



January 7, 2019

Dominion Energy Transmission Attn: Charles Cunningham 2397 Davisson Run Road Clarksburg, WV 26301

RE:

Area of Review - Neel 1207 Well Pad (N-1H to N-6H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7200' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Neel 1207 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.

Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.

3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.

Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies
are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Diane White

Enclosure

RECEIVED
Office of Oil and Gas



January 7, 2019

Antero Resources 535 White Oaks Blvd Bridgeport, WV 26330

RE.

Area of Review - Neel 1207 Well Pad (N-1H to N-6H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7200° TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Neel 1207 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.

Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.

3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.

Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies
are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely.

Diane White

Diane White

Enclosure

RECEIVED
Office of Oil and Gas



January 7, 2019

EQT Production Company 115 Professional Place Bridgeport, WV 26330

RE:

Area of Review - Neel 1207 Well Pad (N-1H to N-6H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7200° TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Neel 1207 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

Inspect surface equipment prior to fracturing to establish integrity and well conditions.

Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.

3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.

Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies
are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely.

Diane White

Diane White

Enclosure



January 7, 2019

Alliance Petroleum Company 214 Warner Street Marietta, OH 45750

RE:

Area of Review - Neel 1207 Well Pad (N-IH to N-6H) Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7200' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Neel 1207 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.

Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.

3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.

Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies
are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely.

Diane White

Diane White

Enclosure

RECEIVED Office of Oil and Gas

AUG 27 2019

WV Department of Environmental Protection



January 7, 2019

Ross & Wharton Gas Company 29 Morton Street Buckhannon, WV 26201

RE:

Area of Review - Neel 1207 Well Pad (N-1H to N-6H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7200' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Neel 1207 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.

Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.

3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.

4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely.

Diane White

Diane White

Enclosure

RECEIVED Office of Oil and Gas

HG Energy, LLC

Certified Mail Receipt Neel 1207 N-1H Area of Review - Notice to Well Owners

Cartified Mall Fee Extra Services & Fees (check box, add fees and fees) Extra Services & Fees (check box, add fees) Return Receipt (flardcopy) Return Receipt (flardcopy) Addit Signature Required Addit Signature Restricted Delivery s Postage Soft To Alliance Petroleum Company Street and Apt. No., or PO Bax No. ZIA Warner Street City, State, ZiA-4 INC. Petroleum Company Street and Apt. No., or PO Bax No. ZIA Warner Street City, State, ZiA-4 INC. Petroleum Company Street and Apt. No., or PO Bax No. ZIA Warner Street City, State, ZiA-4 INC. Petroleum Company Street and Apt. No., or PO Bax No. ZIA Warner Street City, State, ZiA-4 INC. Petroleum Company Street and Apt. No., or PO Bax No. ZIA Warner Street City, State, ZiA-4 INC. Petroleum Company For Melivery Information, visit our website at www.usps.com Cartified Mall Fee Soft A Extra Services & Fees (check box, add fees a aptually and process of the company) Return Receipt (flardcopy) Re	CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website of water.	
Extra Services & Fees (check box, add fees appoint Return Receipt (hardcopy) S		
Return Receipt (flardcopy) Statum Receipt	Cedified Mall Fee SS. 45	
Soft 75 Soft 75 Alliance Petroleum Company Street and Apt. No., or PO Box No. ZIA Warner Street Ohy, Stato, ZIA-12* Manietta DH 45750 PS Form 3800, April 2015 PSN 7530-02-00-0047 See Reverse for Instructions U.S. Postal Service* CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com* Cortified Mail Foe Soft A Entra Services & Fees (check box, edd fee as applications) Return Receipt (electronic) Return Receipt (electronic) Return Receipt (electronic) Certified Mail Reserviced Delivery Return Receipt (electronic) Cortified Mail Reserviced Delivery Postmark	Extra Services & Fees (check box, add test as possible	
Soft 75 Soft 75 Alliance Petroleum Company Street and Apt. No., or PO Box No. ZIH Warner Street Ohy, Stato, 2/1943* May letta DH 45750 PS Form 3800, April 2015 PSN 7530-02-00-9047 See Reverse for Instructions U.S. Postal Service* CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com* Cortified Mail Foo Soft A Services & Foes (check box, edd no as assurance) Postmark Postmark	Adult Signature Restricted Delivery S Postage	
U.S. Postal Service" CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com® Cortified Mail Foo Solution Receipt (electronic) Return Receipt (electronic) Gertified Mail Reserviced Propers assurance of the street o	= \$7.4 1207 NIH ADR	
U.S. Postal Service CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com Cortified Mail Fee Solution Services & Fees (check ber, edd fee as anti-training and services) Return Receipt (electronic) Return Receipt (electronic) Certified Mail Restricted Delivery edd fee as anti-training and services and services and services are services as fees (check ber, edd fee as anti-training and services are services as fees (check ber, edd fee as anti-training and services) Coeffied Mail Restricted Delivery edd fee as anti-training and services are services as fees (check ber, edd fee as anti-training and services) Coeffied Mail Restricted Delivery edd fee as anti-training and services are services as fees (check ber, edd fee as anti-training and services). Coeffied Mail Restricted Delivery edd fee as anti-training and services are services as fees (check ber, edd fee as anti-training and services). Coeffied Mail Restricted Delivery edd fee as anti-training and services are services as fees (check ber, edd fee as anti-training and services).	Z14 Warner Street	
CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com* Cortified Mail Fee S. 4 Extra Services & Fees (check ber, edd too as anti-trans- Tretum Receipt (alcotronic) Return Receipt (alcotronic) Certified Mail Restricted Delivery e	DC Company of the com	
Cortified Mail Fee Extra Services & Fees (check box, edd fee as aphunds) Fetum Receipt (electronic) Return Receipt (electronic) Certified Mail Restricted Delivers Postmark	CERTIFIED MAIL® DECEME	
Extra Services & Fees (check box, add fag as adjust the product Receipt (hardcopy) s Return Receipt (electronic) s Cartified Mall Restricted Delivery s Postmark	Comestic Wall Only	
D CONTROL	For delivery information, visit our website at recovery	
Postage S Total Fostage and Fees	For delivery information, visit our website at www.usps.com Certified Mail Fee Extra Services & Fees (check bex, edd (se as appendix) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Recultred Adult Signature Recultred	
Sent To ERT Production Company	For delivery information, visit our website at www.usps.com Certified Mail Fee Extra Services & Fees (check ber, edd fee as approximate) Return Receipt (hardcopy) Return Receipt (dectronic) Certified Mail Restricted Delivery \$ Adult Signature Reculred Postage Services & Restricted Delivery \$ Postage	
115 Professional Place	For delivery information, visit our website at www.usps.com Certified Mail Fee Extra Services & Fees (check ber, edd fee as approximate) Featurn Receipt (hardcopy) Return Receipt (lebetronic) Gertified Mail Restricted Delivery s Adult Signature Restricted Delivery s Postage Sent To ERT Product To Co. C.	
PS Form 3800, April 2015 PSN 7550-02-000-9047 Spe Reverse for Instructions	For delivery information, visit our website at www.usps.com Cortified Mail Fee S 4 Extra Services & Fees (check bex, edd (se as assurance) Fistum Receipt (electronic) Certified Mail Restricted Delivery s Adult Signature Recuired Adult Signature Restricted Delivery s Postage Total Postage and Fees Sent To ERT Procluction Company Street and Apt. No., or PO Box No. 15 Colly, State, 218-48	

RECEIVED
Office of Oil and Gas

HG Energy, LLC

Certified Mail Receipt Neel 1207 N-1H Area of Review - Notice to Well Owners

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	U.S. Postal Service CERTIFIED MAIL® RECEIPT Domestic Mail Only
For delivery information, visit our website at www.usps.com Certified Mail Fee. Extra Services & Fees (check box, add feese at comprise? Histurn Receipt (nardcopy) Return Receipt (nardcopy) Return Receipt (nardcopy) AN 1 Pastmanles AN 1 Pastmanles Head 19 AN 1 Pastmanles AN 1 Pastmanles Head 19 Fostage Services and Fees Street and Apr. No., or FO Box No. 5 5 5 White Daks Blvd City, State, 21944 PS form 3800, April 2015 psn 755002 000 5057 See Reverse for Instructions	For delivery information, visit our website at www.usps.com ² Certified Mail Feg S Extra Services & Fees (check box, add see as a point of the feature Receipt (placetonic) of the feature Receipt of the feature
U.S. Postal Service CERTIFIED MAIL Domestic Mail Only For delivery information, visit or	RECEIPT



RECEIVED Office of Oil and Gas

HG Energy II Appalachia, LLC

Site Safety Plan

Neel 1207 Well Pad 104 Hidden Valley Rd Jane Lew Harrison County, WV 26378

December 2018: Version 1

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

5 PW

HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

Office of Oil end Gas

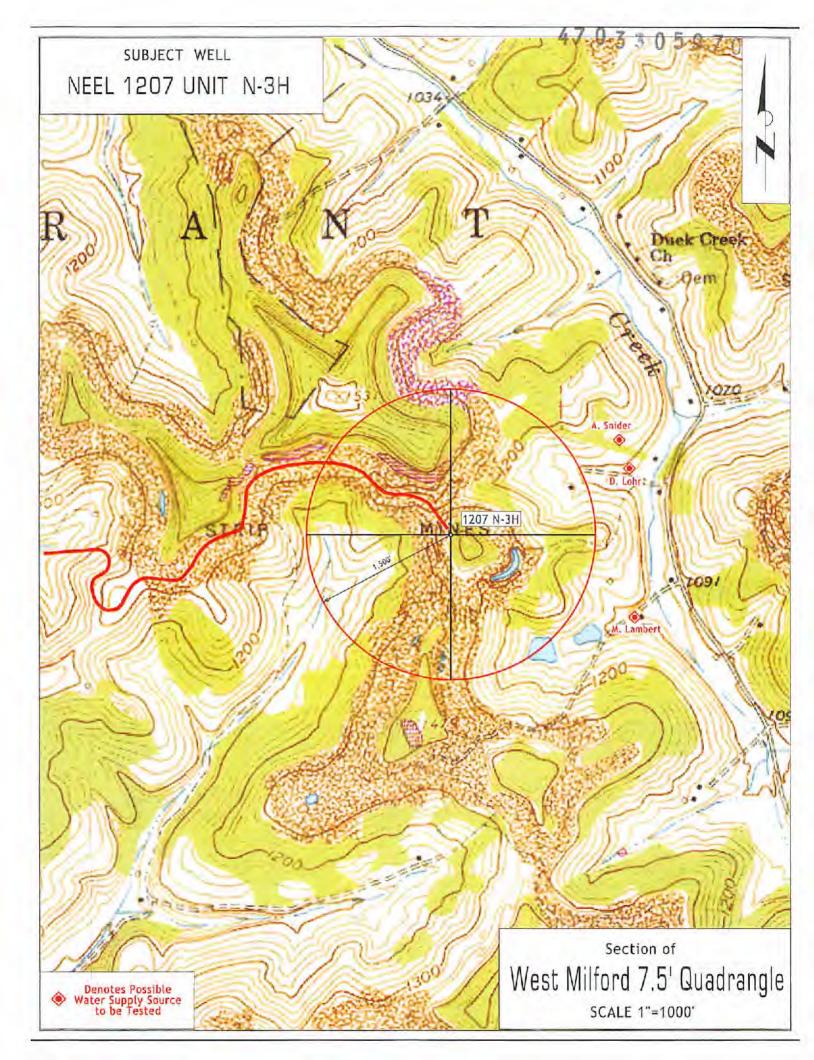
JAN 1 5 2019

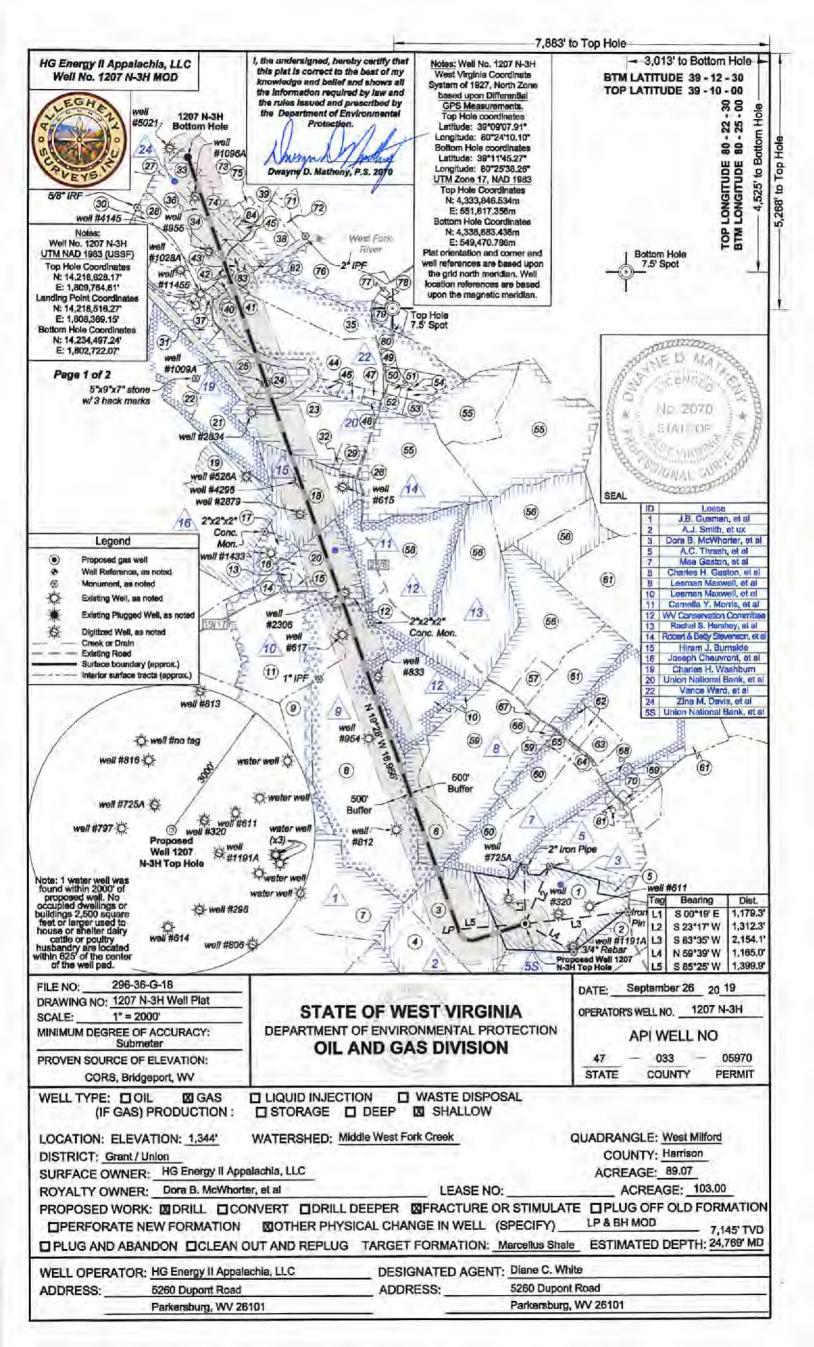
WV Department of Environmental Protection

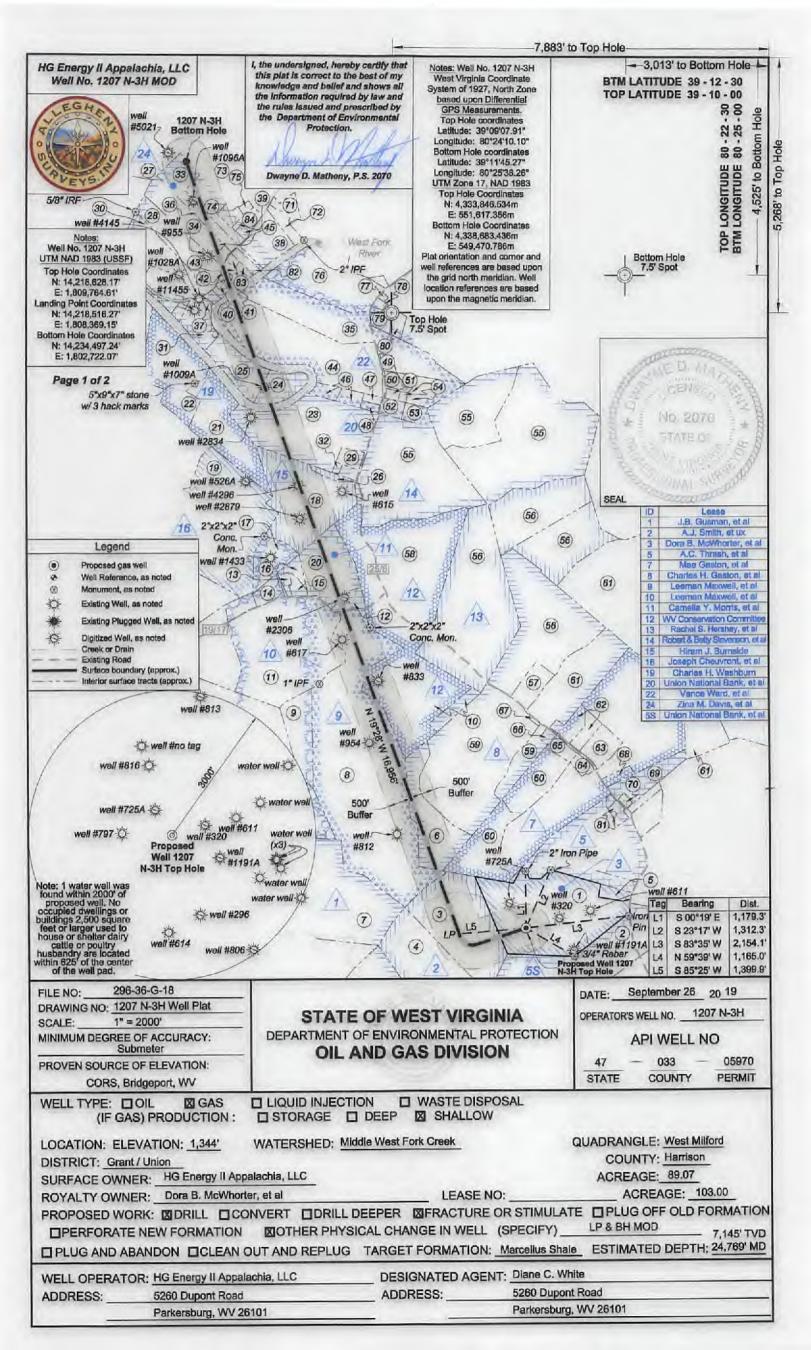
RECEIVED Office of Oil and Gas

AUG 27 2019

WV Department of Environmental Protection

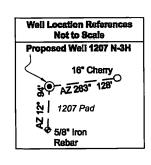


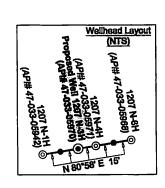




70475			- NI 7-
			Bk/Pg
445 / 13	132,852	Mickey Petito	WB175 / 1153
445/3	64.00		WB687 / 445
445 / 12	64.50		
			1531 / 421
			WB33 / 148 WB687 / 445
445 / 25	194.90		
445 / 24	19.60	Linda J. Maxwell Revocable Trust	1302 / 793
425/5	173.80	WV State Conservation Commission	WB33 / 148
			1420 / 941 1501 / 21
		Tablet 11. de position E. Delatioy	1284 / 1121
425 / 25.1	5.45		
	3.14	Paul R. & Linda R. Beatty	1286 / 489
			12007 400
		MA/ State Consention Commission	14/022 / 440
			WB33 / 148 1377 / 99
425 / 4.3	30.50	Lauminda Raye Beckstead	1177 / 651
405 / 67	38.10	Terence L. Washburn, et al	1436 / 989
405 / 59	43.40	Terence L. Washburn	1294 / 433
405 / 69		James D. McWhorter	/
		Samuel S. Stark	1327 / 1048
			1505 / 1158
			1526 / 585
405/4	20.17	Betty Jo & Kyle Fridley	1233 / 244
405 / 69.3	4.0	Jeremy T. & Erin N. Bowers	1497 / 897
405 / 1.4	25.07	Joseph Workman	1377 / 1131
		•	1178 / 739
			1373 / 505 1347 / 1133
			1233 / 244
405 / 62	58.24	Evelyn M. Ward LE	-/-
405/5	6.05	James Ivan McDonald	1229 / 370
405/1	0.94		1498 / 749
			1196 / 714 1379 / 1146
		George F. & Helen M. Peterson	1410 / 1060
405 / 26.1	0.88	William & Cynthia Marsh	1139 / 446
405 / 26.2	0.74	Eugene D. Wilson	957 / 247
	0.405	John & Linda Cathell	980 / 697
			1101 / 779 1177 / 635
			1402 / 334
405/4.1	0.94	James Ivan McDonald	1229 / 370
405/70	3.452		1527 / 649
405 / 70.1	3.452		
			1109 / 97
			1109 / 97 1505 / 8
105 100 0	0.00	Maria I Comment Maria	1527 / 376
	1.26	Wayne & Naomi McHenry	1537 / 486
405 / 72	4.32	Sandra W. & Willard Miller	1031 / 554
405 / 72.1	4.32	Melissa Berker	1403 / 68
405 / 62.4	0.99	Tales A 9 Joseph Debble-	1338 / 990
		іпсіа А. 6. Јегету L. Doddins	1452 / 340 1476 / 953
			WB177 /1179
		Marry Lou Smith	WB177 /1179
405 / 80	90.97		WB177 /1179
405 / 81	42.00		
425 / 6	105.55	WV Dept. of Natural Resources	WB85 / 624
425 / 14	73.60		
	40.85	Boom I Vill	1481 / 53
425 / 15	0.00		
425 / 13	9.00 61.50	Penny L. Hill WV State Conservation Comm.	
	9.00 61.50 151.09	WV State Conservation Comm. James L. Sellers Family Revocable Trust	WB33 / 148
	445/3 445/3 445/51 445/51 445/25 445/25 445/24 425/5 425/5 425/4 425/25,1 425/4,2 425/4,1 425/3 405/76 425/4,3 405/67 405/69 405/70 405/80	445/5 89.07 445/13 132.852 445/3 64.00 445/12 64.60 445/12 84.57 445/26 32.30 445/2 84.57 445/25 184.90 425/5 173.80 425/7 5.50 445/25 83.199 425/44 1.99 425/24 1.99 425/24 1.99 425/24 1.99 425/25.1 5.45 425/4.2 3.14 425/25.1 5.45 425/4.3 30.50 405/66 57.68 405/67 38.10 405/69 62.35 405/61 12.00 405/69 62.35 405/61 12.00 405/69 18.12 406/68 2.47 385/81 85.50 405/1.4 20.17 405/69.3 4.0 405/69.3 4.0 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.48 405/69.1 10.84 405/69.1 10.86 405/70.1 3452 405/70.1 3452 405/70.1 3452 405/70.1 3452 405/70.1 3452 405/69.3 10.76 405/89.1 10.76 405/89.1 10.76 405/89.1 10.76 405/89.1 10.76 405/89.1 10.76 405/89.1 10.555 405/89.1 10.555 405/89.1 10.555 405/89.1 10.555	445 / 5 89.07 HG Energy II Appalachia, LLC

No.	TM / Par	Ac.	Owner	Bk/Pg
60	425 / 27	26.40	Marva Sheperd	MD400 4440
00	425 / 28	19.92	marva Sneperd	WB166 / 413
	425 / 12	42.30		
61	425 / 16	122.25	Antonio P. LLC	1503 / 291
	425 / 17	48.00		
62	425 / 11	6.29	Linda Snyder	1124 / 768
02	425 / 11.1	5.12	Liida Silyasi	1124 / 700
63	425 / 10	9.60	Joy L. Jarrett	1272/348
64	425 / 10.1	3.10	Robert R. & Debble A Partain	1308/553
65	425/9	3.88	Lestie S. Riggleman	WB127 / 680
66	425 / 8.3	1.408	Melanie S. & Jay A. Morris	1386/660
67	425 / 8.2	0.39	Linda & Mark Wilfong	1438/93
68	425 / 20	3.00	Jeffary L. & Parry S. Harvey	1394 / 607
69	425 / 21	15.26	Juddith H. Russell	1212/1074
70	425 / 22	1.00	Duck Creek Mission Church Trust	1024 / 984
71	425 / 9.1	4.22	Sharon Campbell	1374 / 1083
72	425 / 9.2	4.66	Michael & Cecilia Daughtery	1543 / 1305
73	385 / 82.1	10.05	Lloyd W. Brake Jr. Trust	1427 / 141
74	405 / 6	21.93	James Ivan McDonald	1347 / 113
75	405 / 83	1.01	Pamela M. Puddister	1277 / 279
76	405 / 63.2	42.47	Larry D. Meyers Revocable Trust	W191/1279
77	405 / 63.6	42,47	John P. & Virginia R. Markley	1353 / 1084
78	405 / 63.7	1.00	Robert J. Jr. & Joyce B. Markley	1560/310
79	405 / 63.5	4.00	Charles F. & Dawn L. Grow	1495/523
80	405 / 63.10	4.00	Kimberly K. & John T. Lough	1518/822
81	425 / 23.3	0.54	Rhonda R. & George P. Koutsobaris	1420 / 93
L°'	425 / 29.1	0.27	raiones r. e congo r. rousousis	1420 / 53
82	405 / 28	2.60	David Allen Bunch	W173/1273
83	405 / 27	1.04	Betty Fridley	W160/266
03	405 / 26.8	1.04	<u> </u>	
84	405 / 89	3.50	Megan & Chad Fincham	1524 / 645





FILE NO: 296-36-G-18	NEST .	DATE: September 26 20 19
DRAWING NO: 1207 N-3H Well Plat	OTATE OF AMERICAN	
SCALE: 1" = 2000'	STATE OF WEST VIRGINIA	OPERATOR'S WELL NO. 1207 N-3H
MINIMUM DEGREE OF ACCURACY: Submeter	DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	API WELL NO
PROVEN SOURCE OF ELEVATION:		47 - 033 - 05970
CORS, Bridgeport, WV	The second of th	STATE COUNTY PERMIT
	☐ LIQUID INJECTION ☐ WASTE DISPOSAL ☐ STORAGE ☐ DEEP ☑ SHALLOW	
LOCATION: ELEVATION: 1,344'	WATERSHED: Middle West Fork Creek	QUADRANGLE: West Milford
DISTRICT: Grant / Union		COUNTY: Harrison
SURFACE OWNER: HG Energy II Appa	a <u>lac</u> hia, LLC	ACREAGE: 89.07
	er, et al LEASE NO:	
	NVERT DRILL DEEPER DEFRACTURE OR STIMULA	
□PERFORATE NEW FORMATION	MOTHER PHYSICAL CHANGE IN WELL (SPECIFY)_	LP & BH MOD 7,145' TVD
	OUT AND REPLUG TARGET FORMATION: Marcellus Shall	
WELL OPERATOR: HG Energy II Appala	achia, LLC DESIGNATED AGENT: Diane C. Wi	hite
ADDRESS: 5260 Dupont Road		
Parkersburg, WV 26		, WV 26101

Operator's Well No. Neel 1207 N-3H

Rev.

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

RECEIVED Office of Oil and Gas

0CT - 32019

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:	Accountant	-		

	ment of Protection	5019	/EE) and Gas
HG Energy II Appalachia, LLC	oar nta	دری	<u> </u>
1207 N - 3H LEASE CHAIN	Der	-	Щę
		()	

TRACT #	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
				DORA B. MCWHORTER, WIDOW, EVERETT EDMONDS AND GLADYS EDMONDS, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	819	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
			l .	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
3	LC068480	12-0445-0005-0000	Q100813000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		12-0445-0005-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%) ASSIGNMENT	1576	
			1	CNX GAS COMPANY LLC NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1584	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	1600	
				DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	WVSOS 1601	
				A.J. SMITH AND L.F. SMITH, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	+	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	193 903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SOFFEI CONFORMATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS SOPPLY CORPORATION 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	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
2	LC094208	12-0445-0003-0000	Q101052000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (30%)	1576	
2 .	1094206	12-0445-0012-0000	Q101032000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (32%)	1584	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
			l	DOMINION HEADINGSTON, INC.	Designation and an arrangement of the second	MEMORANDUM OF AMENDED AND RESTATED	111303	
		•		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	LEASE SECOND AMENDMENT TO MEMORANDUM OF	1601	56
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
				MAE GASTON AND W. C. GASTON, HER HUSBAND; VANCE GASTON				
				AND REVA GASTON, HIS WIFE; GARNET H. GRAY AND C. L. GRAY, HER	1			
			1	HUSBAND; LENA V. JOHNSON AND EARL W. JOHNSON, HER HUSBAND	·			
				EDNA G. LACHAPELLE AND RAYMOND C. LACHAPELLE, HER HUSBAND;				
	l i			ADDIE M. GASTON, WIDOW; JAMES HARRY GASTON AND ETHEL D.				
•	1			GASTON, HIS WIFE; RACHEL POST WELLS AND M. E. WELLS, HER				
				HUSBAND; CAMELLA Y. MORRIS, WIDOW; WILLIAM Y. MORRIS AND				
				VIRGINIA MORRIS, HIS WIFE; ROBERT H. MORRIS AND LOIS T. MORRIS	<u>'</u>			
				HIS WIFE; RUTH E. WATSON, WIDOW; JEAN D. MORRIS; ALBERT		1		
				GASTON AND BARBARA GASTON, HIS WIFE; HAROLD GASTON AND MILDRED GASTON, HIS WIFE; BETTY J. CAMARATA AND CARL P.			1	
		12-0425-0009-0000;		CAMARATA, HER HUSBAND; NELLIE M. GASTON, WIDOW; PATRICIA A.				
	j	12-0425-0010-0000;		VOGEL AND WILLIAM VOGEL, HER HUSBAND; LORETTA S. KARWICK				
		12-0425-0010-0001;		AND HARRY W. KARWICK, HER HUSBAND; M. MARIE REED FOOSE AND				
	1	12-0425-0011-0001;	1	VINCENT J. FOOSE, HER HUSBAND; OCIE RENSHAW AND O. M.			[]	
İ	LC098215;	12-0425-0018-0000;	1	RENSHAW, HER HUSBAND; AND ALPHA KOWALSKY AND PETER J.				
7	LC098215; LC068632	12-0425-0019-0000;	Q100898000	KOWALSKY, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	823	17
	1 1000032	12-0425-0020-0000;	[HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
		12-0425-0027-0000;	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		12-0425-0028-0000;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
		p/o 12-0425-0011-0000;	1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	

1	ı	p/o 12-0425-0029-0000;	I	DOMAINION TRANSMISSION INC	CNIV CAS CONADANVILLO	MEMORANDUM FARMOUT AGREEMENT	1522	33
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC		1522	969
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	MEMORANDUM OF LEASE	1551	969
				DOMESTICAL ENERGY TRANSPARCION INC	HIG THE DOWN A BOAT ACTUAL INC	MEMORANDUM OF AMENDED AND RESTATED	4504	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	LEASE	1601	563
				DOMESTICAL TRANSPORTED INC	CANY CAC COLUMNATIVE I	FIRST AMENDMENT TO MEMORANDUM OF	4534	404
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOLUMENT CHECK TRANSPORTER AND	ILIC SNEDGY II ADDAL AGUNA ILIC	SECOND AMENDMENT TO MEMORANDUM OF	4004	504
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				LEEMAN MAXWELL AND MARY C. MAXWELL, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	176	144
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		i		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		p/o 12-0425-0025-0000,		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
9	LC014208	p/o 12-0425-0025-0002	Q101116000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
		p, 0 12-0425-0025-0002		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		ļ			Ĉ	SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
		12-0425-0026-0000; 12-0425-0008-0000;		CHARLES H. GASTON AND NORA M. GASTON, HIS WIFE; NATHAN G. MCWHORTER AND DORA E. MCWHORTER, HIS WIFE; LILLIAN E. STOUT AND JESSE C. STOUT, HER HUSBAND; BERTHA STALNAKER, WIDOW; MARY MCWHORTER WEST AND CLINE WEST, HER HUSBAND; EVAN G. LAW AND ORA L. LAW, HER HUSBAND; FORD GASTON AND MILDRED E. GASTON, MILDRED G. TALLMAN AND KIRK C. TALLMAN, HER HUSBAND; FLORA JANE WOLVERTON AND J. MASON WOLVERTON, HER HUSBAND; THE PARKERSBURG NATIONAL BANK, GUARDIAN FOR	RECEN Office of Oil 0CT - 3	NOT IFEC THAN 4/9	933	
		12-0425-0008-0001;		JOSEPH WOOFTER AND ANDREW C. WOOFTER, JR.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	822 903	179
8	LC068585	12-0425-0008-0002;	Q100867000	HOPE NATURAL GAS COMPANY		CONFIRMATORY DEED		509
		12-0425-0008-0003;		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		12-0425-0014-0000;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795 362
		12-0425-0013-0000;		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT	1522	33
l l		12-0425-0012-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC			1235
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				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	
1				DOMINION ENERGY TRANSMISSION, INC	HIG FAIFDCY II ADDALACHIA LLC	SECOND AMENDMENT TO MEMORANDUM OF	1 4504	504
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				CONSERVATION COMMISSION OF WEST VIRGINIA	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	831	446
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
12	LC069177	12-0425-0005-0000	Q101153000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
4	l		L	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1656	1270

1										
12-042-2-000-000 12-042-2-0					CAMELLA Y. MORRIS, WIDOW; WILLIAM Y. MORRIS AND VIRGINIA E.					
13 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -				İ	MORRIS, HIS WIFE; ROBERT H. MORRIS AND LOIS T. MORRIS, HIS			1		
MOMES					WIFE; RUTH E. WATSON, WIDOW; JEAN D. MORRIS, WIFE OF JOHN R.					
13-042-0004-0006					MORRIS, BY JOHN R. MORRIS, THEIR ATTORNEY IN FACT, JOHN R.			ŀ		
13-942-980-9-000; 13-945-900-9000; 13-945-900					MORRIS	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		820	51
13 000-25-000-00012, 10-000-00012, 10-000-000012, 10-0000012, 10-0000012, 10-0000012, 10-0000012, 10-0000012, 10-0000012, 10-0000012, 10-0000012, 10-0000012, 10-00000012, 10-00000012, 10-00000012, 10-00000012, 10-00000012, 10-00000012, 10-00000012, 10-00000012, 10-00000012, 10-000000012, 10-000000012, 10-0000000012, 10-0000000000000000000000000000000000					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		294	8:
10,004966 12,0012-0004-0002, 10,0015-0004-0003, 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004 12,0015-0004-0004-0004-0004-0004-0004-0004-			12-0422-0004-0000;		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		425	12
12-045-0904-0008 12-045-0904			12-0425-0004-0001;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos		
13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004 13 0425-0004-0004-0004-0004-0004-0004-0004-	11	LC068496	12-0425-0004-0002;	Q100539000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
DOMINION TRANSMISSION, INC. OTHER GAS COMPANY LET AND ROBE DERBOY, INC. SASSIMANT (238) 1376			12-0425-0004-0003;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT		1522	33
CRIC ASS COMPAPM LC ROBLE PRINTEY, M.			12-0425-0004-0004		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		1543	123
MORE PRINCE, INC. COMMINION TRANSPORTED N.C. COMMINION TRANSPORTED N.C. COMMINION TRANSPORTED N.C. COMMINION TRANSPORTED N.C. MERCEN, MANAGO CARAGE WYSOSS			ĺ		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		1576	125
DOMINION TRADEMISSIOR, INC. DOMINION ENERGY TRANSMISSIOR, INC. SECOND ARRONMENT TO REFORMANDIA OF 1600					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		1584	942
DOMINION BERROY TRANSMISSION, INC. DOMINION BERROY TRANSMISSION, INC. DOMINION BERROY TRANSMISSION, INC. SECOND AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDER TO KENDRO AMERICANDE TRANSMISSION CONTROL AMERICANDER TO KENDRO AMERICANDE TRANSMISSION CONTROL AMERICANDE TRANSMI					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		1600	692
DOMINION RERIOR PRANSMISSION, INC. SIGNINGY I PRIPALACINA, LLC PARAMCHI AGREEMENT 1501					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
NEMANAL BURNSDIE 131 132 132 133 134 134 134 135 134							SECOND AMENDMENT TO MEMORANDUM OF			
SOUTH FERM OIL COMPANY HOPE HARTURAL GAS COMPANY ASSIGNMENT (261) 2-40					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT		1601	581
SOUTH FERM OIL COMPANY HOPE HARTURAL GAS COMPANY ASSIGNMENT (261) 2-40					HIRAM J. BURNSIDE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8		113	417
15 15 15 15 15 15 15 15					SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY		İ		210
15 LC002238 12-0405-0080-0000 12-0405-00000 12-0405-0000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-0000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-0000000 12-0405-0000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-0000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-000000 12-0405-0000000 12-0405-0000000 12-0405-000000000000 12-0405-0000000000 12-0405-000000000000000000000000000000000					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	i	903	179
1.5 1.002238 1.2 0405-0076-0000; 1.2 0405-0076-0000; 1.2 0405-0088-0000 2.2 0405-0088-0000 2.2 0405-0088-0000; 1.2 0405-0088-0000 2.2 0405-0088-0000; 1.2 0405-0088-0000 2.2 0405-0088-0000; 1.2 0405-0088-00000; 1.2 0405-0088-00000; 1.2 0405-0088-00000; 1.2					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1		417
12-005-0076-0000, 12-0405-0068-0000 12-0405-0078-0000 12-040					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos		
15 LC002238 12-0405-0000, 12-0405-0000, 12-0405-0000 0000, 12-0405-0000 0000, 12-0405-0000 0000, 12-0405-0000 0000, 12-0405-0000 0000, 12-0405-00000, 12-0405-00000, 12-0405-00000, 12-0					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
15 LC002288 LC003288 LC004-00-0000 LC004-00-00000 LC004-00-00000 LC004-00-00000 LC004-0000000					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT		1522	33
15 (U007238) 12-0405-0088-0000 U007100100 U00714000 U00774000;			43 0405 0076 0000				FIRST AMENDMENT TO MEMORANDUM OF			
DOMINION ENERGY TRANSMISSION, INC. ON GAS COMPANY LLC ONORINON TRANSMISSION, INC. ON GAS COMPANY LLC ONORINON TRANSMISSION, INC. ONORINON TRANSMISSION, INC. ONORINON TRANSMISSION, INC. ONORINON TRANSMISSION, INC. ONORIE ENERGY, INC.	15	LC002238	<u>-</u>	Q101001000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT		1524	491
CRX GAS COMPARY LLC DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. CRX GAS COMPARY LLC NO			12-0405-0068-0000				SECOND AMENDMENT TO MEMORANDUM OF			
DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION DE ENERGY, INC. DOMINION TRANSMISSION, I					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT		1601	571
DOMINION TRANSMISSION, IN.C. OMINION TRANSMI					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		1543	1235
CIX GAS COMPANY LIC NOBLE ENERGY, INC. DOMINION TRANSMISSION					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	ļ	1576	125
DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. B 5 5 5 5 5 5					DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT (32%)	Ì	1601	581
NOBLE ENERGY, INC.					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		1584	942
THE UNION NATIONAL BANK, TRUSTEE UNDER THE WILL OF GERTRUDE E. DAVIS; EVA G. LAW AND ORA LAW, HER RUSBAND; P. F. GASTON AND MILDRED E. DAVIS; EVA G. LAW AND ORA LAW, HER RUSBAND; P. F. GASTON, HIS WIFE; LILLIAN A. STOUT, WIDOW; WILLS E. STALNAKER AND DORA M.CHAVHORTER, HIS WIFE; LILLIAN A. STOUT, WIDOW; WILLS E. STALNAKER AND PARK. HIS WIFE; ELORA JANE WELVERTON, HER HUSBAND; MILDRED C. TALLIANAN, HOWEVERTON, HER HUSBAND; MILDRED C. TALLIANAN, HOWEVERTON, BY MINER T. HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALLIANAN, HOWEVER TON, BY MINER T. HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSOCIATED GAS TRANSMISSION CORPORATION ASSOCIATED GAS TRANSMISSION CORPORATION ASSOCIATED GAS TRANSMISSION CORPORATION ASSOCIATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSOCIATED GAS TRANSMISSION, HICL MERGER/MANE CHANGE 51 DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, IN					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
F. GASTON AND MILDRED E. GASTON, HIS WIFE, M. G. MCWHORTER AND DORA MCWHORTER H. SWEF; ELIVAN AS TOUT, VIDOW; WILLIS E. STALNAKER AND DORA MCWHORTER, HIS WIFE; ELIVAN AS TOUT, VIDOW; WILLIS E. STALNAKER AND OPAL M. STALNAKER, HIS WIFE; FLORA JANE WELVERTION, HER HUSBAND; MILDRED C. TALKHAMI MODY, NORA GASTON, BY MIRE TI, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI MODY, NORA GASTON, BY MIRE T, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI MODY. NORA GASTON, BY MIRE T, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI MODY. NORA GASTON, BY MIRE T, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	İ	1600	692
F. GASTON AND MILDRED E. GASTON, HIS WIFE, M. G. MCWHORTER AND DORA MCWHORTER H. SWEF; ELIVAN AS TOUT, VIDOW; WILLIS E. STALNAKER AND DORA MCWHORTER, HIS WIFE; ELIVAN AS TOUT, VIDOW; WILLIS E. STALNAKER AND OPAL M. STALNAKER, HIS WIFE; FLORA JANE WELVERTION, HER HUSBAND; MILDRED C. TALKHAMI MODY, NORA GASTON, BY MIRE TI, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI MODY, NORA GASTON, BY MIRE T, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI MODY. NORA GASTON, BY MIRE T, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI MODY. NORA GASTON, BY MIRE T, HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND; MILDRED C. TALKHAMI M. HER ATTORNEY IN FACT; AND MARY M. WEST AND					THE UNION NATIONAL BANK, TRUSTEE UNDER THE WILL OF	010				
WILLIS E. STALMAKER AND OPAL M. STALMAKER, HIS WIFE; FLORA JANE WELVERTON AND J. MASON WELVERTON, HER HUSBAND; MILDRED C. TALLMAN, WIDOW; NORA GASTON, BY MINER T. HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND HOPE NATURAL GAS COMPANY 12-0405-0079-0001; 12-0405-0079-0001; 12-0405-0079-0001; 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 10-0405-0006-00000 10-0405-0006-000000 10-0405-0006-000000 10-0405-0006-0000					GERTRUDE E. DAVIS; EVA G. LAW AND ORA L. LAW, HER HUSBAND; P.					
WILLIS E. STALMAKER AND OPAL M. STALMAKER, HIS WIFE; FLORA JANE WELVERTON AND J. MASON WELVERTON, HER HUSBAND; MILDRED C. TALLMAN, WIDOW; NORA GASTON, BY MINER T. HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND HOPE NATURAL GAS COMPANY 12-0405-0079-0001; 12-0405-0079-0001; 12-0405-0079-0001; 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 10-0405-0006-00000 10-0405-0006-000000 10-0405-0006-000000 10-0405-0006-0000					F. GASTON AND MILDRED E. GASTON, HIS WIFE; M. G. MCWHORTER	<u> </u>				
WILLIS E. STALMAKER AND OPAL M. STALMAKER, HIS WIFE; FLORA JANE WELVERTON AND J. MASON WELVERTON, HER HUSBAND; MILDRED C. TALLMAN, WIDOW; NORA GASTON, BY MINER T. HALL, HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER HUSBAND HOPE NATURAL GAS COMPANY 12-0405-0079-0001; 12-0405-0079-0001; 12-0405-0079-0001; 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 10-0405-0006-00000 10-0405-0006-000000 10-0405-0006-000000 10-0405-0006-0000				ł	AND DORA MCWHORTER, HIS WIFE; LILLIAN A. STOUT, WIDOW;				- 1	
12-0405-0069-0000; 12-0405-0069-0000; 12-0405-0077-0001; 12-0405-0078-0000 12-0405-00000 12-0405-0000 12-0405-0000 12-0405-00000 12-0405-00000 12-0405-					WILLIS E. STALNAKER AND OPAL M. STALNAKER, HIS WIFE; FLORA	# D D E				
12-0405-0069-0000; 12-0405-0069-0000; 12-0405-0077-0001; 12-0405-0078-0000 12-0405-00000 12-0405-0000 12-0405-0000 12-0405-00000 12-0405-00000 12-0405-					JANE WELVERTON AND J. MASON WELVERTON, HER HUSBAND;				ŀ	
12-0405-0069-0000; 12-0405-0069-0000; 12-0405-0077-0001; 12-0405-0078-0000 12-0405-00000 12-0405-0000 12-0405-0000 12-0405-00000 12-0405-00000 12-0405-					MILDRED C. TALLMAN, WIDOW; NORA GASTON, BY MINER T. HALL,				- 1	
12-0405-0069-0000; 12-0405-0069-0000; 12-0405-0077-0001; 12-0405-0078-0000 12-0405-00000 12-0405-0000 12-0405-0000 12-0405-00000 12-0405-00000 12-0405-				ł	HER ATTORNEY IN FACT; AND MARY M. WEST AND CLIVE WEST, HER	<u> </u>				
12-0405-0069-0000; 12-0405-0077-0001; 12-0405-0078-0000 12-0405-0000 12-0405-00000 12-0405-00000 12-0405-00000 12-0405-00000 12-0405-00000					HUSBAND		NOT LESS THAN 1/8		890	492
12-0405-0077-0001; 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 12-0405-0078-0000 13-04 15-04					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		903	179
12-0405-0078-0000 CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC FARMOUT AGREEMENT DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC FARMOUT AGREEMENT DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT CNX GAS COMPANY LLC NOBLE ENERGY, INC. NOBLE ENERGY, INC. ASSIGNMENT DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. SECOND AMENDMENT TO MEMORANDUM OF			12-0405-0069-0000;		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		1136	250
DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC FIRST AMENDMENT TO MEMORANDUM OF DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC FARMOUT AGREEMENT 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 (32%) 1576 CNX GAS COMPANY LLC NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT 1600 DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE WYSOS	20	LC073354	12-0405-0077-0001;	Q100714000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		51	795
DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%) CNX GAS COMPANY LLC NOBLE ENERGY, INC. NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. FIRST AMENDMENT TO MEMORANDUM OF 1524 LIMITED PARTIAL ASSIGNMENT (32%) 1576 CNX GAS COMPANY LLC NOBLE ENERGY, INC. ASSIGNMENT 1600 DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE WVSOS SECOND AMENDMENT TO MEMORANDUM OF			12-0405-0078-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	1	58	362
DOMINION TRANSMISSION, INC. 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 (32%) 1576 CNX GAS COMPANY LLC NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE WVSOS SECOND AMENDMENT TO MEMORANDUM OF						CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT		1522	33
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 (32%) 1576 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 SECOND AMENDMENT TO MEMORANDUM OF							FIRST AMENDMENT TO MEMORANDUM OF			
DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. EXCOND AMENDMENT TO MEMORANDUM OF				1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT		1524	491
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 SECOND AMENDMENT TO MEMORANDUM OF					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		1543	1235
NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT 1600 DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE WVSOS SECOND AMENDMENT TO MEMORANDUM OF					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		1576	125
DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE WYSOS SECOND AMENDMENT TO MEMORANDUM OF					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		1584	942
SECOND AMENDMENT TO MEMORANDUM OF					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		1600	692
		1			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	V	vvsos	
DOMINION ENERGY TRANSMISSION INC HIG ENERGY II APPALACHIA LLC HEARMOLIT AGREEMENT 1601							SECOND AMENDMENT TO MEMORANDUM OF			
Position and the property and the proper					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT		1601	581

24 FK076735 24 FK076735 25 JO 4005-0001-0001 20000 20000 200405-0002-0000 200405-0002-0000 200405-0002-0000 200405-0005-000
24 FK076735
24 FK076735 FK076735 20-0405-0006-0002 20-0405-0023-0000 20-0405-0023-0000 20-0405-0023-0000 20-0405-0023-0000 20-0405-0023-0000 20-0405-0023-0000 20-0405-0025-0001 20-0405-0025-0001 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0026-0000 20-
24 FK076735 FK076735 FK076735 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0002 20-0405-0006-0000000 20-0405-0006-00000 20-0405-0006-00000 20-0405-0006-000000 20-0405-0006-00000 20-0405-0006-00000 20-0405-0006-000000 20-0405-0006-00000 20-0405-0006-00000 20-0405-0006-0000000 20-0405-0006-00000 20-0405-0006-00000 20-0405-0006-000
24 FK076735 FK076735 FK076735
24 FK076735 FK076735 FK076735
24 FK076735 FK076735 FK076735 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0026-0001 20-0405-0026-0000 20-0405-0026-0
24 FK076735 FK076735 FK076735 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0026-0001 20-0405-0026-0000 20-0405-0026-0
24 FK076735 FK076735 FK076735 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0026-0001 20-0405-0026-0000 20-0405-0026-0
24 FK076735 FK076735 FK076735
24 FK076735 FK076735 FK076735
24 FK076735 FK076735 FK076735 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0023-0001 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0025-0000 20-0405-0026-0001 20-0405-0026-0000 20-0405-0026-0
24 FK076735
24 FK076735
24 FK076735 FK076735 FK076735 FK076735 FK076735 FK076735 FK076735 FK076735 FK076735 FK076735 FK076735 SOMMERVILLE, WIDOW, MILDRED L. SOMMERVILLE, BY ROBERT L. SOMMERVILLE, BY ROBERT L. SOMMERVILLE, BY ROBERT L. SOMMERVILLE, BY ROBERT L. SOMMERVILLE, HIS WIFE CONSOLIDATED GAS SUPPLY COMPANY NOT LESS THAN 1/8 934
24 FK076735
24 FK076/35 20-0405-0025-0000 20-0405-0025-0001 20-0405-0025-0001 20-0405-0026-0000
20-0405-0025-0001 20-0405-0026-0000 20-0405-0026-0000 20-0405-0026-0001 20-0405-0026-0001 20-0405-0026-0001 20-0405-0026-0002 30-0405-0026-0002 30-0405-0026-0002 30-0405-0026-0003 30-0405-0026-0003 30-0405-0026-0003 30-0405-0026-0003 30-0405-0026-0003 30-0405-0026-0003 30-0405-0026-0003 30-0405-0026-0003 30-0405-0026-0004 30-0405-0026-0005 30-0405-0026-0005 30-0405-0026-0006 30-0405-0026-0005 30-0405-0026-0006 30-0405-0026
20-0405-0026-0000 CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION MERGER/NAME CHANGE 51 20-0405-0026-0001 CNG TRANSMISSION CORPORATION GAS EXPLORATION AND DEVELOPMENT COMPANY CONFIRMATORY ASSIGNMENT 1285 20-0405-0026-0002 GAS EXPLORATION AND DEVELOPMENT COMPANY DOMINION APPALACHIAN DEVELOPMENT, INC. MERGER/NAME CHANGE WVSOS 20-0405-0026-0003 CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE S8 20-0405-0026-0004 DOMINION APPALACHIAN DEVELOPMENT, INC. DOMINION APPALACHIAN DEVELOPMENT, LLC MERGER/NAME CHANGE WVSOS 20-0405-0026-0005 DOMINION APPALACHIAN DEVELOPMENT, LLC MERGER/NAME CHANGE WVSOS 20-0405-0026-0006 DOMINION APPALACHIAN DEVELOPMENT, LLC DOMINION TRANSMISSION, INC. ASSIGNMENT 1457 20-0405-0026-0006 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT 1522 20-0405-0026-0007 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0026-0001 CNG TRANSMISSION CORPORATION GAS EXPLORATION AND DEVELOPMENT COMPANY CONFIRMATORY ASSIGNMENT 1285 20-0405-0026-0002 GAS EXPLORATION AND DEVELOPMENT COMPANY DOMINION APPALACHIAN DEVELOPMENT, INC. MERGER/NAME CHANGE WYSOS 20-0405-0026-0004 DOMINION APPALACHIAN DEVELOPMENT, INC. DOMINION APPALACHIAN DEVELOPMENT, LLC MERGER/NAME CHANGE WYSOS 20-0405-0026-0005 DOMINION APPALACHIAN DEVELOPMENT, LLC MERGER/NAME CHANGE WYSOS 20-0405-0026-0005 DOMINION APPALACHIAN DEVELOPMENT, LLC DOMINION TRANSMISSION, INC. ASSIGNMENT 1457 20-0405-0026-0006 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT 1522 20-0405-0026-0007 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0026-0002 20-0405-0026-0003 20-0405-0026-0003 20-0405-0026-0004 20-0405-0026-0004 20-0405-0026-0005 20-0405-0026-0005 20-0405-0026-0005 20-0405-0026-0006 20-0405-0026-0006 20-0405-0026-0006 20-0405-0026-0006 20-0405-0026-0006 20-0405-0026-0007 20-0405-0026
20-0405-0026-0003 CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE 58 20-0405-0026-0004 DOMINION APPALACHIAN DEVELOPMENT, INC. DOMINION APPALACHIAN DEVELOPMENT, LLC MERGER/NAME CHANGE WVSOS 20-0405-0026-0005 DOMINION APPALACHIAN DEVELOPMENT, LLC DOMINION TRANSMISSION, INC. ASSIGNMENT 1457 20-0405-0026-0006 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT 1522 20-0405-0026-0007 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0026-0004 DOMINION APPALACHIAN DEVELOPMENT, INC. DOMINION APPALACHIAN DEVELOPMENT, LLC MERGER/NAME CHANGE WVSOS DOMINION APPALACHIAN DEVELOPMENT, LLC DOMINION TRANSMISSION, INC. ASSIGNMENT 1457 20-0405-0026-0006 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT 1522 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0026-0004 20-0405-0026-0005 20-0405-0026-0005 20-0405-0026-0006 20-0405-0026-0006 20-0405-0026-0007 DOMINION APPALACHIAN DEVELOPMENT, LLC DOMINION APPALACHIAN DEVELOPMENT, LLC DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0026-0005 DOMINION APPALACHIAN DEVELOPMENT, LLC DOMINION TRANSMISSION, INC. ASSIGNMENT 1457 20-0405-0026-0006 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT 1522 20-0405-0026-0007 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0026-0006 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT 1522 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0026-0007 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
20-0405-0028-0000 NOBLE ENERGY, INC. HIG ENERGY II APPALACHIA, LLC ASSIGNMENT 1600
20-0405-0030-0000 DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE WYSOS
20-0405-0060-0000 SECOND AMENDMENT TO MEMORANDUM OF
20-0405-0061-0000 DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT 1601
VANCE WARD AND EVELYN WARD, HIS WIFE; MARIE WARD, WIDOW;
12-0405-0062-0000; LLOYD S. WARD AND RUBY A. WARD, HIS WIFE; DALLAS L. WARD AND
12-0405-0062-0001; PEGGY L. WARD, HIS WIFE CONSOLIDATED GAS SUPPLY CORPORATION NOT LESS THAN 1/8 981
12-0405-0052-0002; CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSIGNMENT 1136
12-0405-0062-0003; CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION MERGER/NAME CHANGE 51
12-0405-0062-0004; CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE 58
12-0405-0062-0005; DOMINION TRANSMISSION, INC. DOMINION EXPLORATION & PRODUCTION, INC. CONFIRMATORY ASSIGNMENT 1442
12-0405-0062-0006; DOMINION EXPLORATION & PRODUCTION, INC. DOMINION TRANSMISSION, INC. ASSIGNMENT 1457
12-0405-0062-0007; DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT 1522
FK108078: 12-0405-0062-0008: DOMINION TRANSMISSION, INC. CNX GAS COMPANY LIC AND NOBLE ENERGY, INC. MEMORANDI IM OF LEASE 1551
22 FK079962 12-0405-0062-0009; Q100451000 DOWNING TRANSMISSION, INC. CNX GRS COMPANY ELE AND NOBLE ENERGY, INC. INTERMINENT TO MEMORANDUM OF
12-0405-0062-0010; DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC FARMOUT AGREEMENT 1524
12-0405-0070-0000; CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) 1543
12-0405-0070-0001; DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%) 1576
12-0405-0071-0000; CNX GAS COMPANY LLC NOBLE ENERGY, INC. ASSIGNMENT 1584
12-0405-0071-0001; NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT 1600
12-0405-0071-0002; SECOND AMENDMENT TO MEMORANDUM OF
12-0405-0072-0000; DOMINION TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT 1601
12-0405-0072-0001 MEMORANDUM OF AMENDED AND RESTATED
DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC LEASE 1601



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

July 19, 2019

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

RE:

Drilling Under Roads - Neel 1207 N-3H

Union District, Harrison County

West Virginia

Diane White

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 C. White

Enclosures

Office of Oil and Gas

AUG 27 2019

Date of Notice Certification: 07/15/2019

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

API No. 47-

				•	Well No. Neel			
				Well Pad I	Name: Neel 12	207		
Notice has l								
	ne provisions in West Virginia Code §	\S 22-6A, the	Operator has pro	vided the red	quired parties v	with the Notice Forms lister	d	
State:	tract of land as follows: West Virginia			Easting	551617.4			
			UTM NAD 83	Easting: Northing:				
District:	County: Harrison District: Union		Public Road Acc	•	4333846.5 SR19/Hidden Valley Road			
Quadrangle:	West Milford		Generally used f		Hubert E & Sand	_ .	_	
Watershed:	Middle West Fork Creek					<u> </u>		
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sled the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen one § 22-6A-11(b), the applicant shall to have been completed by the applicant	shall contain bed in subdi- ection sixteer arvey pursua of this article tender proof	the following infivisions (1), (2) and of this article; (int to subsection were waived in	ormation: (1and (4), substill that the re (a), section writing by	4) A certificati section (b), se quirement was ten of this arti the surface ov	on from the operator that (ction ten of this article, the deemed satisfied as a resuicle six-a; or (iii) the notice wher; and Pursuant to We	i) ne It ce st	
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the required			his Notice C	ertification	OOG OFFICE USE ONLY		
☐ 1. NO	TICE OF SEISMIC ACTIVITY or		CE NOT REQUI			RECEIVED/		
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or 🔲 1	NO PLAT SURV	EY WAS CO	ONDUCTED	RECEIVED		
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE C	CE NOT REQUI OF ENTRY FOR NDUCTED or			RECEIVED/ NOT REQUIRED AUG		
			TTEN WAIVER EASE ATTACH		CE OWNER	Environmental RECEIVED	2019	
■ 4. NO	TICE OF PLANNED OPERATION					☐ RECEIVED	rotection	
■ 5. PUE	BLIC NOTICE					☐ RECEIVED		
■ 6. NO	TICE OF APPLICATION					RECEIVED		
<u> </u>						l	J	

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.

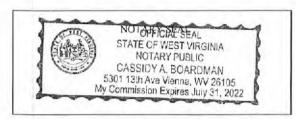
Certification of Notice is hereby given:

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

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Accountant
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 15th day of July, 2019

Carrid Board Notary Public

My Commission Expires 7/2 1/2022

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

AUG 27 2019

WV Department of Environmental Protection

WW-6A (9-13) API NO. 47- 4703505970
OPERATOR WELL NO. Noel 1207 N-3H
Well Pad Name: Noel 1207

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 than the filing date of permit application. Date of Notice: 07/29/2019 Date Permit Application Filed: 08/05/2019 Notice of: ✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams: (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: HG Energy II Appalachia, LLC Name: NA Address: 5260 Dupont Road Address: Parkersburg, WV 26101 Name: ☐ COAL OPERATOR Name: NA Address: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Lisa M. Nutter ☐ SURFACE OWNER OF WATER WELL Address: 132 Praise Lane AND/OR WATER PURVEYOR(s) Jane Lew, WV 26378 Name: NA Address: Name: OPERATOR OF ANY NATURAL GAS STORAGE FIELD AUG 27 Address: SURFACE OWNER(s) (Impoundments or Pits) Environmental Protection 925 White Caks Blvd HG Energy II Appalachia, LLC Address: Name: Address: 5260 Dupont Road Bridgeport, WV 26330 *Please attach additional forms if necessary Parkersburg, WV 26101

WW-6A (8-13)

OPERATOR WELL NO. Neat 1207 N-3F Well Pad Name: Neel 1207

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Grant Gran Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environment
Well Location Restrictions

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

Water Well Testing:

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

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

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

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

Written Comment:

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

Chief Office of Oil and Gas

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

AUG 27 2019

WV Department of Environmental Protection

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.

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

RECEIVED
Office of Oil and Gas

AUG 27 2019

WW-6A (8-13)

Well Pad Name: Neel 1207

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

304-420-1119 Telephone:

dwhite@hgenergyllc.com Email:

Address:

Diane White

5260 Dupont Road

Parkersburg, WV 26101

Facsimile:

304-863-3172

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2022

Subscribed and sworn before me this 29th day of July Cassidy Boardon Notary Public

My Commission Expires 7/31/2022

RECEIVED Office of Oil and Gas

AUG 27 2019



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

July 23, 2019

Dominion Energy Transmission Attn: Ronald Waldren 925 White Oaks Blvd Bridgeport, WV 26330

RE:

Neel 1207 N-3H Well Work Permit Application - Notification

Union District, Harrison County

West Virginia

Dear Mr. Waldren:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located through your gas storage field property. Your rights as an owner of the (field) are detailed in the enclosed permit application papers.

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

RECEIVED Office of Oil and Gas

AUG 27 2019



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

July 23, 2019

Lisa M. Nutter 132 Praise Lane Jane Lew, WV 26378

RE: Neel 1207 N-3H Well Work Permit Application - Notification

Union District, Harrison County

West Virginia

Dear Mrs. Nutter:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

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,

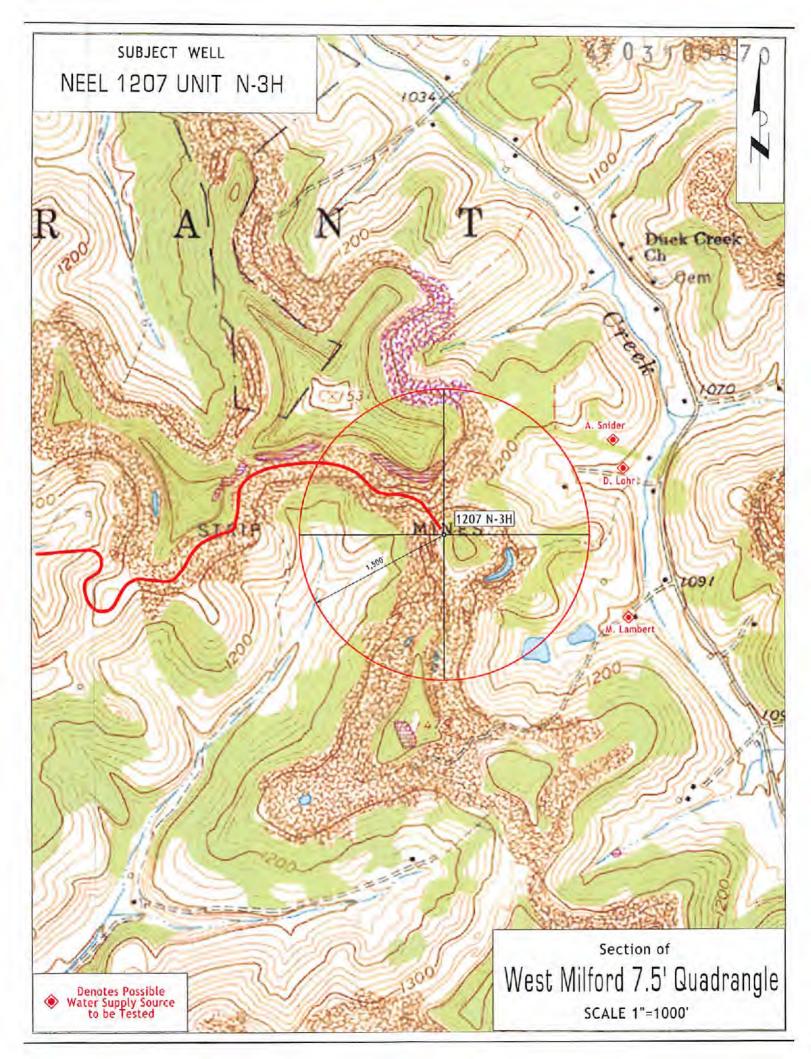
Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

AUG 27 2019



Diane White

From: Diane White

Sent: Wednesday, December 19, 2018 5:07 PM

To: Vickie Hoops (vhoops@sturmenvironmental.com)

Subject: 1207 Well Pad WSW Owners to be Tested **Attachments:** NEEL 1207 TOPO AND REC PLAN.pdf

Vicki,

Good afternoon. Listed below are three people who we believe have water at about 2000' from the Neel 1207 well pad. Could you please have their water sampled and a pre-drill analysis

run? Please have the paperwork identified as the Neel 1207 Well Pad.

This is in Harrison county, Grant district, the West Milford quadrangle. I've attached a topo and rec plan which should help identify the area. If you need more information please let me know.

Thanks, Diane

From: Timothy Roush

Sent: Wednesday, December 19, 2018 11:53 AM **To:** Diane White dwhite@hgenergyllc.com

Subject: 1207 WSW Owners

The WSW Owners for 1207 are:

SNIDER, ANTHONY D 29 POST OFFICE DR. LOST CREEK, WV 26385

LOHR, DAVID W 74 JUNE BUG DR. LOST CREEK, WV 26385

LAMBERT, MARTHA E 4062 DUCK CREEK RD. LOST CREEK, WV 26385

Timothy P. Roush, PS

HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 troush@hgenergyllc.com 304-420-1120

RECEIVED Office of Oil and Gas

AUG 27 2019

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

entry		ce shall be provi	ded at least SE	En (1) da	ys but no more than	II FORT I-FIVE (43)	days prior to
Date of Notic	e: 7/19/19	Date of Plan	ned Entry: 7/17	/19			
Delivery metl	hod pursuant to W	est Virginia Co	de § 22-6A-10a				
☐ PERSON	NAL ERE	GISTERED	■ METHO	D OF DEL	IVERY THAT RE	EOUIRES A	
SERVIC					NATURE CONFIR		
on to the surfa but no more the beneath such to owner of mine and Sediment Secretary, while enable the surfa-	nce tract to conduct and forty-five days paract that has filed a grals underlying suc Control Manual and ich statement shall if face owner to obtain	any plat surveys prior to such entr declaration purs h tract in the cou d the statutes and nelude contact in	required pursua y to: (1) The su uant to section t inty tax records. I rules related to aformation, incl	nt to this ar rface owner hirty-six, a The notice oil and gas	ticle. Such notice s r of such tract; (2) t rticle six, chapter to e shall include a sta s exploration and pr	shall provide notice of shall be provided at least to any owner or lessee wenty-two of this code atement that copies of roduction may be obta- age on the Secretary's	ast seven days of coal seams s; and (3) any the state Erosion ined from the
Notice is here	by provided to:						
■ SURFAC	E OWNER(s)			☐ COA	LOWNER OR LE	SSEE	
	Energy II Appalachia, LLC			Name:	NA.		
Address: 5260	Dupont Road			Address:			
Parke	ersburg. WV 26101						
Name:							
Address:					ERAL OWNER(s)		
					See Attached List		
Name:				Address:			
Address.				*please attac	h additional forms if neo	cessury	
a plat survey of State: County; District:	est Virginia Code § on the tract of land a West Virginia Harrison Granl/Union		Ap Pu W	prox. Latit blic Road A atershed:	ude & Longitude: Access:	operator is planning e 39 1522907-80.402619 SR 19 Middle West Fork Creek	ntry to conduct
Quadrangle:	West Milford WV 7.5'		Ge	nerally use	d farm name:	Neel	
may be obtain Charleston, W obtained from Notice is her	ed from the Secreta V 25304 (304-926 the Secretary by vi reby given by:	ry, at the WV Do -0450). Copies of	epartment of En of such document wv.gov/oil-and-	vironmenta its or addit gas/pages/d	l Protection headquional information re	il and gas exploration a uarters, located at 601 elated to horizontal dri	57th Street, SE,
Well Operator	: HG Energy II Appalach	iia, LLC		Address:	5260 Dupont Road		Office of Oil and Ga
	304-420-1119		w 72 7.7 1.		Parkersburg, WV 26101		AUG 27 2019
Telephone: Email:	dwhite@hgenergyllc.co	m Diane	1.17.15	Facsimile:	304-863-3172		AIII 977 /1119

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.

Page 1 Continued

Mineral Owners

Amber McWhorter Ortoll 714 SW 27th Terrace Boynton Beach, FL 33435

Argent Trust Company
Agent for David Maxwell Gray
621 N. Robinson, Suite 100
Oklahoma, OK 73102

Argent Trust Company Agent for Donna Frumento 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company
Agent for Jane M Hardin
621 N. Robinson, Suite 100
Oklahoma, OK 73102

Argent Trust Company Agent for Joseph L Maxwell 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Kimberlee K Holland 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Pamela Voigt 621 N. Robinson, Suite 100 / Oklahoma, OK 73102 Argent Trust Company Agent for Charles L Maxwell 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Deborah Bell Meyer 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Elizabeth A Beveridge 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent JR Gray Koubek & TD Koubek 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Karen M Henderson 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Mary V. Gray Trust 1983, c/o David M. Gray 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Piala Living Trust c/o Vanessa Jo Piala 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Office of Oil and Gas

1207N 3H

Page 1 Continued

Mineral Owners

Argent Trust Company Agent for Robert Nimorwicz 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Argent Trust Company Agent for Susan Brown Yunker 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Bernard B McWhorter P.O. Box 547 Jane Lew, WV 26378

Betty Jo & Kyle Fridley 7450 Good Hope Pike Lost Creek, WV 26385

Black Gold Group Limited PO Box 85 Strasburg, OH 44680

Bruce L. Bennett & Kathy D. Bennett RR 3 Box 729 Lost Creek, WV 26385

Caroyln L. Gelinas 4798 Thurston Place San Diego, CA 92130

Celia Linn Ferrell Baiker 5958 Chestnut CT Virginia Beach, VA 45424

Charles K Saeler 14008 S Gardner Ave Ellerslie, MD 21529 Argent Trust Company Agent for Steven L Maxwell 621 N. Robinson, Suite 100 Oklahoma, OK 73102

Arthur Ward 49 Coleman Dr. Waterford, MI 48328

Betty J. Gaston 1320 Williams Ave Clarksburg, WV 26301

Billie Sue Simmons 110 S Avalon Road Winston-Salem, NC 27104-4110

Brenda Sue Cross 143 Lilac Ln Philippi, WV 26416

Carleen W. Nutter & Michael Nutter RR 3 Box 808 Lost Creek, WV 26385

Catherine D. Weber RR1 Box 60-1 Belington, WV 26250

Charles K Saeler R.O. Box 121 Ellerslie, MD 21529

Charles L. Gray and Goldie Gray 170 Goldie Lane Lost Creek, WV 26385

1207N 3H

Page 1 Continued

Mineral Owners

Christina L Workman 2803 McDermott Ridge Rd Buckhannon, WV 26201

Cora A. Mearns 3915 Cloud Park Dr Apt A-a-1 Huber Heights, OH 45424

Cynthia K Barnes 2104 1/2 Prive Ave Clarksburg, WV 26301

Cynthia McWhorter Berry 1880 Loon Court Myrtle Beach, SC, 29575

Dani A. Smith 3260 Knobview Drive Nashville, TN 37214

Darlene G. Riggs 312 Duff Rd Penn Hills, PA 15235

Debra Kay Kittle 908 Point Pleasant Rd Belington, WV 26250

Delores June Orr 3915 Cloud Park Dr Apt A-a-1 Huber Heights, OH 45424

Donald Allen 541 Union Street Carlstad, NJ 07075-1838 Clara A. Gaston 1638 1/2 Gould Ave Clarksburg, WV 26301-1614

Cora May Sands Hartzell 129 Huckleberry Branch Ct Daytona, FL 32124

Cynthia Kay Randolph Barnes 2104 1/2 Pride Ave Clarksburg, WV 26301

Dana Lee Bassell 173 Water Oak Dr Madison, AL 35758

Danny Joe & Deborah Jean Miller PO Box 426 West Milford, WV 26451

David E. Bowyer 12088 Middle Island Rd Alma, WV, 26320

Delores Jean Moats 90 Kincaidville Road Walkersville, WV 26447

Denise Wright P.O. Box 371 West Milford, WV 26451

Donald and Louella Gaston Family Trust Donald B. Gatson, II, Trustee 1613 Gould Ave Clarksburg, WV 26301-1614

RECEIVED Office of Oil and Gas

AUG 27 2019

1207N 3H

Page 1 Continued

Mineral Owners

Donald H. Smith 516 Osborne Lane Sewickley, PA 15143

Dorothy O'Hanlon 235 W 102 Street Apt 7-0 New York City, NY 10025

Evelyn M. Ward and Richard L. Ward 1383 Duck Creek Lost Creek, WV 26385

Gary S. Winters 1112 Lake Floyd Circle Salem, WV 26426

Genevieve P Saeler 4798 US Highway 19N, Jane Lew, wv 26378

Helen M. Burton 8086 Powell Ave Stonewood, WV 26301

Helen R. Corder 132 Morningside Circle Parkersburg, WV 26101

Iden Scott McWhorter 1661 La France St., Unit 314 Atlanta, GA 30307

Jane Lewis P.O. Box 504 Lost Creek, WV 26385 Donald R. Reynolds PO Box 607 Jane Lew, WV 26378

Elizabeth A. Fultineer 1925 Goff Ave Clarksburg, WV26301

First United Methodist Church of Lubbock Texas James Rotramel and Mary Francis Baucum, Trustees 1411 Broadway Street Lubbock, TX 79424

Geneva Bruffey 500 Henrie Lane Williamstown, WV 26187

Gore Corporation PO Box 2101 Clarksburg, WV 26302

Helen M. Burton PO Box 8179 Nutterfort, WV 26301

Herbert D. Washburn 419 Armstrong Way Evens, GA 30809

James K. McWhorter RR 2 Box 39 Wellsburg, WV 26070

Jerry Stein 2008 Linkside Lane Woodstock, GA 30187

1207N 3H

WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

Jill Lambert 219 Ballantrae St Valparaiso, IN 46385

John E. Washburn 186 KY Highway 90 West Albany, KY 42602

John Henry McWhorter 5392 Duck Creek Rd Alma, WV 26320

John W McWhorter 7704 Enterprise Rd, #1 Myrtle Beach, SC 29588

Joseph M Sands 866 Valencia Rd S Daytona, FL 32119

JP Morgan Chase Bank Trustee, Will E. Morris Trust P.O. Box 659 Wichita Falls, TX 76307

L&D Investments, Inc. 363 Washington Avenue Clarksburg, WV 26301-2911

Leslie Smith Frank 516 Osborne Lane / Sewickley, PA 15143

Lonnie Kincaid 28 Bablin Ingo Road Ireland, WV 26376 Jimmy Ward 288 Coleman Dr. Waterford, MI 48328

John G. Sommerville 101 Coventry Ct Bridgeport, WV 26330

John M. Walmsley 2768 La Paz Ave Hemet, CA, 92545

Jonnene Kay Goglin 187 Blackwater Drive Harvest, AL, 35749

Joyce K Smith 358 Mill Hill Rd Williamsburg, PA 16693

Kathy Haller Day Revocable Living Trust P.O. Box 1308 Young Harris, GA 30582

Leslie Smith Frank 74 Village Hill Road, Apt 1s Northampton, MA 01060

Lewis Wayne Davis P.O. Box 371 West Milford, WV 26451

Margaret Short RR 2 Box 763 Clarksburg, WV 26301

RECEIVED Office of Oil and Gas

AUG 27 2019

1207N 3H

WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

Margaret Smith Brackett 4304 W Laurel Oak Ln Muncle, In 47304

Margaret V Saeler Burkett 2522 Carrington Way Frederick, MD 21702

Martha Jean Moss 227 Bonnie Brook Dr Charlotte, MI 48813

Mary Anne Kowalsky 7863 Birchwood RD Chesterland, OH 44026

Mary H. Balmer 619 Ohio Blvd Eustis, FL 32726

Mary Jean Carroll 8305 Farrand Rd Montrose, MI 48457

Maurice M Sands 6272 NE 62nd St Silver Springs, FL 34488

Michael A. Haller 9605 Tinsmith Lane Burke, VA, 22015

Mildred L Brooks c/o Dan Spengler 217 Bridgeside Ct Roseville, CA 95747 Margaret Smith Brackett 516 Osborne Lane Sewickley, PA 15143

Mari-Lisa McWhorter Marlowe 9980 Lake Side Drive Tuscaloosa, AL 35406

Mary Ann Shawhan 2854 Poplar Dr Kempner, TX 76539-6834

Mary Beth Bonington 22 Conifer Lane South Dennis, MA 02660

Mary Jane McWhorter 795 W 2nd Ave Weston, WV 26452

Mary L. Reel 580 Deer Haven Drive Lost Creek, WV 26385

Melissa Barker 216 Hidden Meadows Ln. Jane Lew, WV 26378

Michael Ross P.O. Box 219 Coalton, WV 26257-0219

Mildred L. Brooks 3800 W Wilson St 243 Banning, CA, 92220

RECEIVED Office of Oil and Gas

AUG 27 2019

Page 1 Continued

Mineral Owners

Minnie S. Lee LLC Rebecca Waggoner Glass, Mng Mbr P.O. Box 5034 Cary, NC 27512

Nancy C Harvey 4408 Lorraine Dr Monroeville, PA 15146

Page Harmer Thomas 714 Shamrock Lane Charleston, SC 29412

Patricia Ann Vogel Heirs 7 Dancer Road Budd Lake, NJ 07828-1919

Paul R. Stein 505 Manor Rd. Cinnaminson, NJ 08077

Peggy Shuman 304 Nathans St, Apt H Elkins, WV 26241

Perenia Gray 14090 Collins Ranch Pl San Diego, CA 92130

Randolph Starr 322 W 6th Ave Tarentum, PA 15084

Robert Dean Davis P.O. Box 371 West Milford, WV 26451 NAJ, LLC c/o Robert L. Johns 216 Brooks St, Suite 200 Charleston, WV 25301

Oren Justice 1715 Locust Ave Ashland, KY 41101

Pamela Faith Schwarz \$41 Union Street Carlstad, NJ 07072-1838

Patricia Randolph 189 Randolph Hollow Road Clarksburg, WV 26301

Paula Denise Mosier 2N/2 Covert Rd Burton, MI, 48509

Peggy Ward 49 Coleman Dr. Waterford, MI 48328

Phillip Simon 373 Parker Dr Pittsburgh, PA 15216

Rhonda Koutsobaris 3478 Duck Creek Rd Lost Creek, WV 26385

Robin Thorne 1839 Snowflake Dr Colorado Springs, CO 80921-4001 Office of Oil and Gas

1207N 3H

WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

Roger Justice 877 Plymouth Rd NE Atlanta, GA 30306

Salvation Army P.O. Box 366 Clarksburg, WV 26301

Sandra Simon Faulkner 582 Jackson Blvd Freedom, PA 15042

Sandy Chamberlain 3805 W Elgin St Broken Arrow, OK 74012

Seneca-Upshur Petroleum LLC PO Box 2048 Buckhannon, WV 26201

Sheri L. Martz 139 Witt Road Hyndman, PA 15545

Sherry Simon Kauff 430 N Hiddenbrooke Dr Advance, NC 27006

Steven Keith Reed P.O, Box 544 Slater, IA, 50244

Susan B. Woods 4807 Sunrise Blvd Fort Pierce, FL 34982

Terence L. Washburn 1408 Riverbend Road Lost Creek, WV 26385 Ryan C. Radtka 205 Mystic Drive Morgantown, WV 26508

Sandra Childers 228 Liberty Ave Clarksburg, WV 26301

Sandra Ward Miller & Willard Miller 1383 Duck Creek Road Lost Creek, WV 26385

Sara Ella Burden 1800 Chapel Road Havre De Grace, MD 21078

Shelley J. Simon 2222 N Robert Bruce Dr Richmond, VA 23235

Sherri L. Gaston PO Box 302 Anmoore, WV 26323

Stephen Simon 4503 Heartland Way Fredericksburg, VA 22408

Steven P. Washburn 927 Hillview Dr Cary, NC 27511

Suzanne D. Simmons 624 Court Ave Weston, WV 26452

Thomas Cannon 11539 Wellman Drive Riverview, FL 33578 Office of Oil and Gas

AUG 27 2019

WV Department of Environmental Protection

1207N 3H

Page 1 Continued

Mineral Owners

Timothy Ward 49 Coleman Dr. Waterford, MI 48328

Velma I. Steif 174 Wise Acres Rd Ellijay, GA 30536

Waco Oil and Gas PO Box 880 Glenville, WV 26351

Waymon Kincaid 18063 US HWY 19 S Walkersville, WV 26447

WV Division of Natural Resources 324 Fourth Ave South Charleston, WV 25303

Will E. Morris Heirs Trust PO Box 659 Wichita Falls, TX 76307

William L. Thompson 240 Hite Hollow Rd Hyndman, PA 15545

Zane Anthony Justice 2706 Algonquin Ave Ashland, KY 41102

*HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101 * Not noticed by certified mail Timothy Wayne Reed 208 West Harrison Rd Zearing, IA, 50278

Victor M. Pappas 16271 SW 83 LN Miami, FL 33193

Walter B. Smith 413 Poplar Ave Port Saint Lucie, FL 34952

Wells Fargo Bank N.A.
Trustee, James A Harmer Testamentary Trust
PO Box 5383
Denver, CO 80217-5383

WV State Conservation Comm. 1900 Kanawha Blvd. E. Charleston, WV 25305

William B. Washburn RR2 Box 191 Jane Lew, WV 26378

William Michael Davis P.O. Box 371 West Milford, WV 26451

Zhen Wang 1845 Oakland Dr Mount Pleasant, MI 48858

Office of Oil and Gas

AUG 27 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

July 11, 2019

RE: Neel 1207N (2H - 6H)

Grant/Union District, Harrison 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

RECEIVED Office of Oil and Gas

AUG 27 2019

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

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

Notice Time Date of Noti	Requirement: Notice shall be provided at l ice: 67/16/2019 Date Perm	east TEN (10) days prior to filing a nit Application Filed: 08/05/2019	permit application.
Delivery me	thod pursuant to West Virginia Code § 22	-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIV		JESTED	
receipt reque drilling a hor of this subse- subsection m	W. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner rizontal well: <i>Provided</i> , That notice given petion as of the date the notice was provided that be waived in writing by the surface owner ple, facsimile number and electronic mail additional states.	or notice of its intent to enter upon the pursuant to subsection (a), section to the surface owner: <i>Provided, hower</i> . The notice, if required, shall include	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number,
	ereby provided to the SURFACE OWN		
2 0277902	Energy II Appalachia, LLC * Notice No		
Address: 526		Address:	
	rkersburg, WV 26101		
State: County: District: Quadrangle:	wner's land for the purpose of drilling a hori West Virginia Harrison Grant/Union West Milford	zontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	551617.4 4333846.5 SR 19/Hackers Creek Road Huberl E & Sandra K Neel
Pursuant to facsimile nu related to ho	e Shall Include: West Virginia Code § 22-6A-16(b), this number and electronic mail address of the operizontal drilling may be obtained from the State of the Stat	perator and the operator's authorized Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters,
Notice is he Well Operate	ereby given by: Dr: HG Energy II Appalachia, LLC	Authorized Representative:	Diane White
Address:	5260 Dupont Road	Address:	5260 Dupont Road
	Parkersburg, WV 26101		Parkersburg, WV 26101
Telephone:	304-420-1119	Telephone:	201 100 1110
Email:	dwhite@hgenergyllc.com Diane White		dwhite@hgenergyllc.com RECEIVED office of Cil and Ga
Facsimile:	304-863-3172	Facsimile:	304-863-3172 Office of On airs
Oil and Ca	s Privacy Natice	=	AUG 2.7 2019

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory producties. Your personal information may be disclosed to other State agencies or third parties in the normal course of barshies 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.

WW-6A5 (1/12)

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

		4				
Delive	ery metho	od pursuant to West Virginia (Code § 22-6A-16(c)		
	CERTIFI	ED MAIL	☐ HAND			
	RETURN	N RECEIPT REQUESTED	DELIVER	RY		
retum the pla require drilling damage	receipt re anned ope ed to be p g of a ho ges to the he notices	equested or hand delivery, give to eration. The notice required by provided by subsection (b), section prizontal well; and (3) A propose surface affected by oil and gas of	the surface owner way this subsection of this article	whose land hall inclu to a surf compension the da	d will be used for de: (1) A copy ace owner whose sation agreement amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	address l	ny provided to the SURFACE (listed in the records of the sherif argy II Appalachi, LLC * Notice N	f at the time of notic	ce): Name:		
Addre	SS: 5260 Du	upont Road		Addres	S:	
Notice Pursua	Parkershe is hereb	burg, WV 26101 by given: st Virginia Code § 22-6A-16(c),		ven that the	he undersigned	well operator has developed a planned
Notice Pursua operat State: Count	Parkersle is herebent to Wesion on the	burg, WV 26101 by given:	urpose of drilling a UT	ven that the horizontal M NAD 8	he undersigned of well on the tra Basting: Northing:	4333846.5 551617.4
Notice Pursua operat State: Count Distric	Parkerst e is hereb ant to Wes ion on th y:	burg, WV 26101 by given: st Virginia Code § 22-6A-16(c), se surface owner's land for the property virginia Hamson Union	urpose of drilling a UTI Pub	ven that the horizonta M NAD 8	he undersigned of the trace of trace of the	act of land as follows: 4333848.5 551617.4 SR19/Hackers Creek Road
Notice Pursua operat State: Count Distric	Parkerst e is hereb ant to Wes ion on th y:	burg, WV 26101 by given: st Virginia Code § 22-6A-16(c), se surface owner's land for the p West Virginia Harrison Julion West Milford	urpose of drilling a UTI Pub	ven that the horizonta M NAD 8	he undersigned of well on the tra Basting: Northing:	4333846.5 551617.4
Notice Pursua operat State: Count District Quadr	Parkerst e is hereb ant to Wes ion on th y:	burg, WV 26101 by given: st Virginia Code § 22-6A-16(c), se surface owner's land for the property virginia Hamson Union	urpose of drilling a UTI Pub	ven that the horizonta M NAD 8	he undersigned of the trace of trace of the	act of land as follows: 4333848.5 551617.4 SR19/Hackers Creek Road
Notice Pursua operat State: Count Distric Quadr Water: This N Pursua to be horizo surfac inform	Parkerst e is hereb ant to Wes ion on th y: t: t: angle: y shed: Notice Sh ant to We provided ontal well; e affected action relation relation	burg, WV 26101 by given: st Virginia Code § 22-6A-16(c), se surface owner's land for the property of the prop	purpose of drilling a UT: Pub Gen this notice shall in to a surface own and compensation he extent the dama; be obtained from to	ven that the horizontal M NAD 8 blic Road merally use the light of the horizontal whose agreement ges are counter whose the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Roa	he undersigned of well on the tracesting: Northing: Access: ed farm name: A copy of this e land will be understond and containing anompensable undersy, at the WV	act of land as follows: 433848.5 551617.4 SR19/Hackers Creek Road Hubert E & Sandra K Neel code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Notice Pursua operat State: Count Distric Quadr Water This N Pursua to be horizo surface inform headqu gas/pa	Parkerst e is hereb ant to Wes ion on th y: t: t: angle: y shed: Notice Sh ant to We provided ontal well; e affected nation rela uarters, logges/defau	burg, WV 26101 by given: st Virginia Code § 22-6A-16(c), the surface owner's land for the property of the pro	purpose of drilling a UT: Pub Gen this notice shall in to a surface own and compensation he extent the dama be obtained from t Charleston, WV	wen that the horizontal M NAD 8 blic Road nerally use the liner whose agreeme ges are contact the Secretary 25304	he undersigned of well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understond to containing an ompensable underly, at the WV (304-926-0450)	act of land as follows: 4333848.5 551617.4 SR19/Hackers Creek Road
Notice Pursua operat State: Count Distric Quadr Water This N Pursua to be horizo surface inform headqu gas/pa	Parkerst e is hereb ant to Wes ion on th y: the cangle: y shed: Notice Sh ant to We provided ontal well; e affected nation rela uarters, lo uges/defau Operator:	burg, WV 26101 by given: st Virginia Code § 22-6A-16(c), the surface owner's land for the property of the pro	purpose of drilling a UT: Pub Gen this notice shall in to a surface own and compensation he extent the dama be obtained from t Charleston, WV	ven that the horizontal M NAD 8 blic Road merally use the light of the horizontal whose agreement ges are counter whose the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Secretal Road Page 1 agreement of the Roa	he undersigned of well on the tracesting: Northing: Access: ed farm name: A copy of this e land will be understond and containing anompensable undersy, at the WV	act of land as follows: 433848.5 551617 4 SR19/Hackers Creek Road Hubert E & Sandra K Neel code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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.

AUG 27 2019

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

July 11, 2019

Byrd E. White, III Secretary of Transportation

> Jimmy Wriston, P. E. Deputy Secretary/ Acting 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 Neel 1207 Pad, Harrison County 1207 N-3H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-1374 issued to HG Energy II Appalachia for access to the State Road for a well site located off Harrison County Route 19/20 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. 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.

Day K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy II, LLC

CH, OM, D-4

File

Office of Oil and Gas

AUG 27 2019

WV Department of Environmental Protection

List of Frac Additives by Chemical Name and CAS

Neel 1207 Well Pad (N-1H to N-6H, S-7H to S-12H)

Chemical Name	CAS#	Multiple CAS #'s
D		COSE4 40 0
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
	V 1000 100 100 100 100 100 100 100 100 1	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

AUG 27 2019

WV Department of Environmental Protection



33-05969 33-05970 33-05971 33-05972

DEP Office Use only					
Date Received by Oil & Gas:	8/22	119			
Assigned Impoundment ID #:	033-	FWA-DOID			

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 - Operator Information

Operator Name:	HG Energy II Appalachia, LLC.			
Operator ID:	494519932			
	5260 Dupont Road			
	Parkersburg	State: WV	Zip:	26101
Contact Name:	Diane White	Contact Title:	Accountant	
Contact Phone:	304-420-1119	Contact Email:	dwhite@hgene	ergyllc.com

Section 2 - Engineering / Design Contractor Information

Company Name:	Penn Environmental & Remedia	tion, Inc.			
Address: Street	111 Ryan Court				
City:	Pittsburgh	State:	PA	Zip:	15205
Contact Name:	Matthew E. Pierce	Contact 7	Title:	Senior Project	t Manager
Contact Phone:	412-722-1222	Contact Er	mail:	mpierce@per	nn-er.com
	ngineer: Matthew E. Pierce	-			
Professional Engineer F	Registration Number: 20458				

Office of Oil and Gas

AUG 2 2 2019



Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below: Impoundment Waste Pit Note: Any waste in a pit will make it a waste pit.
Name of Structure (Company Name :) HG Energy II Appalachia, LLC.
County: Harrison District: Grant
USGS 7.5' Quad Map Name: West Milford, WV
Farm Name: HG Energy II Appalachia, LLC.
Pad Name: Neel 1207
Surface Owner Name: HG Energy II Appalachia, LLC Planting I Description of SP 10 (Milford Street) and Hockers Crook
Physical Description of Location: Less than 2 miles East of the intersection of SR 19 (Milford Street) and Hackers Creek. Site access East off of Hackers Creek.
(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)
Watershed (nearest perennial): West Fork River
Distance (Drainage Distance) to nearest perennial stream: 3.15 Miles
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))
Latitude: 39.1519 Longitude (Use negative sign): -80.4012
UTM Coordinates : 1810167.923 E 14218488.684 N
Access Road Coordinates (junction of state highway access)
Latitude. Conglitude (Ose negative sign).
UTM Coordinates : 1802083.571 E 14216963.591 N
Approximate Dimensions
Length: 608' Width: 239' Height: 15'
Note: If irregularly shaped, give approximate dimensions of long axis.
Total Capacity – Provide all units of measure below:
Barrels: 243,644 Gallons: 10,232,903 Acre-Feet: 31.404
Capacity with 2' Freeboad – Provide all units of measure below:
Barrels: 201,091 Gallons: 8,445,709 Acre-Feet: 25.919
Incised volume:
Barrels: 59,469 Gallons: 2,497,645 Acre-Feet: 7.665
Net impounded volume: (Total volume less incised volume.)
Net impounded volume: (Total volume less incised volume.)
Barrels: 184,175 Gallons: 7,735,258 Acre-Feet: 23.739 AUG 2 2 2019
land a
Anticipated Construction Start Date (estimation, non-binding): April, 2019 April, 2019 Environmental Protect Note: No construction may begin on Associoated impoundment until WVDEP issues the drilling permit. At least 7
calendar days prior to confirmed construction start date, notify the Office of Oil & Gas, and the local Oil and Gas
inspector of construction start date. Use form IMP-2, "Notification of Impoundment / Pit Construction."



Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) – If issued:
Neel 1207 N-1H	47-033-05942
Neel 1207 N-2H	
Neel 1207 N-3H	
Neel 1207 N-4H	
Neel 1207 N-5H	
Neel 1207 N-6H	

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

×	Engineered	Construction Plans,	certified by	y WV	Registered	P.E.

- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

Section 6 – Dam Standard Qualifying Evaluation

×	The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be
	defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam,
	all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas.
	The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at:
	http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

Section 7 – Comments – Floride	any additional comments concerning this project]
	Office of Oil	VED and Gas
	AUG 2 2	2019
	WV Departn Environmental F	ent of



Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas, I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

Name:	Diane White				
Title:	Accountant				
Signature:	Diane White				
Taken, subscri	cribed and sworn to before me this, 19th Day of July 20 19				
My commissio					
Notary Seal:	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2022				

Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection Office of Oil and Gas Impoundment Registration 601 57th Street, SE

Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to: Depimpoundments@wv.gov

Office of Oil and Gas

HG 1207 WELL PAD & IMPOUNDMENT

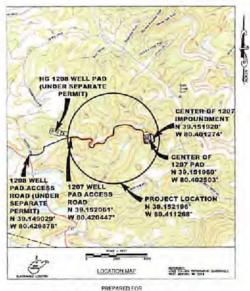


GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

CONSTRUCTION SEQUENCE

- Prior to commencement of any earth disturbance activity wickuding clearing and grubbing, the registrant shall call. West Vergrus 811 by disling 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 berriers 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 presion 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.
- 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 finel grade, has been delayed or otherwise temporarily suspended.
- 6. Construction of Buildings, Utilities, and Paving During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural cost construction atormwater BMPs that may
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- II. Final Stabilization, Topsoiling, Trees and Strubs After construction is completed, install stabilization BMPs including; permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this lest construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilities any disturbances associated with the



HG ENERGY II APPALACHIA, LLC

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

PREPARED BY

PENN ENVIRONMENTAL & REMEDIATION, INC.

111 RYAN COURF ITTSBURGH, PA 15205 (412) 722-1222

Final Development -	CAR	Fit	- 34	noise.
PSP West Part 5	44 667	49,836	4	1851
Accitto Road	11,679	15,703	- 4	1904
Total	50.500	166.121	1	1.555
Soil Acoustment for As Pari	KINGEN HID	ot.	-	700
Total Site Battence		_		BAC FO
Stakeout Treated Sum	at rol Carry prings	10	_	2.793
Fall Swell Feater		(32%)		1.323
Lai Terror-Surreyan	Williams Green			7.357
Dinamus Total Etect			- 1	7.357
	independing to extraorement	o quarettirs be achieve, quarette	sed un tale	er eathfra
3 Material balance is and may not be not 4 Estimates at not Estimated Growth Dur	and appropriate properties of the control of the co	or quantities parameters paywokies coor paywokies (continue and A report coordinate A report coordinate (continue and A report coordinate)	sed un pale	TUTAL
3. Material balance a area may not be not 4. Ealimates are not Estimated Gravel Qui 10° Sci. Demon	and appropriate properties of the contract of	or quantities the action gaventor one pay volume to the action and A reportment 36 181	sed un tale	TUTVAL BARRY
3 Material balance a area may not be near 4 Eali material not Estimated Gravel Qui 10° Sci. Demon 3 Depte of 30° Const	and appreciation of infect portra infect portra infect (Placing Sh) in Pain (France)	or quantities parameters paywokies coor paywokies (continue and A report coordinate A report coordinate (continue and A report coordinate)	sed un raile	TUTVAL 5-3-0-73 5-0-17
3. Material balance a area may not be not 4. Ealimates are not Estimated Gravel Qui 10° Sci. Demon	and appreciation of infect portra infect portra infect (Placing Sh) in Pain (France)	or quantities the action gaventor one pay volume to the action and A reportment 36 181	sed un pale	10744 53 973 3,917 12,712
3. Material balls on a serial responsibility for the text of Editorial Contro	and appreciation of instruction principal contra- critics. (Places St.) (Places St.) (Places St.)	to quarties the other pay volume to pay volume and Ampurerse 36 181 3.977	sed un raile	101744 53 673 5,017 17,012
3. Material balls on a serial may not be not a 4. Estimated Grant Out 10° Sca. Demant 3. Depth in 30° Chen. Too. Chen. Too. Chen. Laterana Too. Chen. Laterana Too. Chen. Laterana Too. Chen. Laterana Too. Chen. Laterana Compo.	and appropriate principal portra principal portra principal portra principal	to quantities the section countries of pay violates and Ampliorers and Ampliorers and Ampliorers and an approximate the section of the sectio	sed un raile	TUTAL 53 877 3347 17,712 12 11,232
Monternal basis on a and may not be here E Edinaded Gravel Qua- ter Son Cernaria Preprint Son Cernaria Preprint Son Cernaria Track Qualification Composition and Composition Comp	and appropriate principal portra infact portra infact portra infact (Pacine Sh) in Plant (Pacine in Plant (Pacine in Plant Scale Line Film Scale Line	in quantities the section payworkers payworkers are	ILTZ	TUPAL BARTO BARTO 15,712 15 11,232 3,192
Monternal basis on a and may not be here E Edinaded Gravel Qua- ter Son Cernaria Preprint Son Cernaria Preprint Son Cernaria Track Qualification Composition and Composition Comp	and appropriate principal portra infact portra infact portra infact (Pacine Sh) in Plant (Pacine in Plant (Pacine in Plant Scale Line Film Scale Line	in quantities the section payworkers payworkers are	ILTZ	TUTAL 53 877 3347 17,712 12 11,232
3. Material balls on a service my not be here 4. Edinables et och Edinables et och 10° Sca Cemen 3. Pegins i Sch Cemen 1a Casa Chen 1a Casa 1a Casa 1a Casa 1a Casa 1b	and appropriation of select portra profiles. (Places Sh) or Pain (Provid Sh) or Pain (Provid Sh) or Pain (Provid Sh) or Pain (Sh) or	to quantities the extrest quantities and the pay votion and Ampuroress (36 t8) 3 977 and the pay to	N.F.2	TUTAL BARTO 12,012 11,0
3 Material balance a area may not be near 4 Eali material not Estimated Gravel Qui 10° Sci. Demon 3 Depte of 30° Const	and appropriate reservations of the control of the	to quantities be settled glassified by volume and a reparation and a repar	NET	TUTAL BARTO 12,012 11,0

SHT. NO.	SHEET TITLE
1	TITLE SHEET
2A-2G	SITE DEVELOPMENT PLANS
3	PAD & IMPOUNDMENT SECTIONS
4A-4D	ACCESS ROAD SECTIONS
5A-5F	CONSTRUCTION NOTES & DETAILS
6A-6F	RESTORATION PLAN
7	PROPERTY MAP

WELL !	LAT.	LONG.
N-TH	N 39.152275	₩ 80.402724
N-2H	N 39.152284	W 80.402572
N-3H	N 39.152290	W 80.402520
N-4H	N 39.152297	W 80,402567
N-5H	N 39,152303	W 80.402515
N-6H	N 39.152309	W 80.402463
5-74	N 39.151411	W 80.402540
S-8M	N 39.151417	W 80,402487
S-9H	N 39.151423	W BD.402435
5-10-	N 39,151430	W 80,402383
5-11H	N 39.151438	W 80,402331
5-121	N 39,151442	W 80,402278

LATITUDE		LONGITUDE	
1207 WELL PAD ACCESS ROAD ENTRANCE	N 39,152061	W BQ.420447	
1206 WELL PAD ACCESS ROAD ENTRANCE	N 39,149029	W 80.429878	

RECORD OWNER	REDORO LOT /	AREA OF LCT	AREA WITHIN LOC
HETS HUBERT E & SANDRA H	17-12-0445-0005-0009	89 07 AC.	15.027 AC
MUTTER LISA W	17-12-0445-0005-0000	54.00 AC	2.654 AC
AUTHOR LISA M	17-12-0445-0012-0000	54.50 AC:	2.858 AC.
AUTTEN LISA M	17-12-0445-0011-0000	75.50 AC	0.760 AC
NUTTER LISA W	17-12-0445-0010-0000	56.87 AC.	3.475 AC
NUTTER LISK M	17-12-0445-0002-0000	84.57 AC.	3.459 AC.
DECEMBLE WELDOW M M & LINEA L	17-12-0425-0031-0000	247.84 AC	0.025 AC
TOTAL LIMIT	OF DISTURBANCE		28.259 AC

WEST VIRGINIA

YOU DIG!

800,245,4848



TITLE SHEET HG 1207 WELL PAD & IMPOUNDMENT GRANT DISTRICT HARRISON COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

PA007851-001 SHEET 111 FOW COURT, PRINSIPPOR, TA 15205 412-722-1222

