



west virginia department of environmental protection

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

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

Thursday, December 10, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for ANTONIO 1206 N-11H
47-033-05999-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: ANTONIO 1206 N-1H
Farm Name: CHARLES R & FRANKLIN L S
U.S. WELL NUMBER: 47-033-05999-00-00
Horizontal 6A New Drill
Date Issued: 12/9/2020

Promoting a healthy environment.

PERMIT CONDITIONS 4703305999

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

1. 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.

PERMIT CONDITIONS 4703305999

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.

WW-6B
(04/15)

API NO. 47-033

OPERATOR WELL NO. Antonio 1206 N-11H

Well Pad Name: Antonio 1206

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

1) Well Operator: HG Energy II Appalachia, LLC 494519932 Harrison Grant West Milford 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Antonio 1206 N-11H Well Pad Name: Antonio 1206

3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: Hackers Creek Rd @ SR 19

4) Elevation, current ground: 1364' Elevation, proposed post-construction: 1350'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal *SPW*

6) Existing Pad: Yes or No No *12/2/2020*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 7081/7260' and 179' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7252'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,749'

11) Proposed Horizontal Leg Length: 10,745'

12) Approximate Fresh Water Strata Depths: 135', 480', 637', 731'

13) Method to Determine Fresh Water Depths: Nearest offset well data

14) Approximate Saltwater Depths: No S/W depths found on WR-35's for offset wells, salt water expected to be below elevation

15) Approximate Coal Seam Depths: 623', 1010' to 1015' (Surface casing is being extended to cover coal in the DTI Surface Gas **RECEIVED** Office of Oil and Gas)

16) Approximate Depth to Possible Void (coal mine, karst, other): None **DEC 07 2020**

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No WV Department of Environmental Protection

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

WW-6B
(04/15)

API NO. 47- 023
OPERATOR WELL NO. Antonio 1206 N-11H
Well Pad Name: Antonio 1206

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	125'	125'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1100'	1100'	40% excess, CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2200'	2200'	40% excess, CTS
Intermediate 2	9 5/8"	NEW	J-55	40	3000'	3000'	40% excess tail, CTS
Production	5 1/2"	NEW	P-110	23	18749'	18749'	20% excess tail, CTS
Tubing							
Liners							

KK for TB 12/19/2020

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40% excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Least 40% excess. Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Least 40% excess. Tail 0% excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.18, tail yield 1.54
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

4703305999

API NO. 47- 033

OPERATOR WELL NO. Antonia 1206 N-11H

Well Pad Name: Antonia 1206

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 7252 feet. Drill horizontal leg to estimated 10,745' lateral length, 18,749' 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 ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 12,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 68.187 acres

22) Area to be disturbed for well pad only, less access road (acres): 11.058 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with each case string.
Production - cemented to top of casing.
Casing - Cemented to top of casing.
Annular Space - Cemented to top of casing.
Production - Run 7' centralizers every 6' from bottom of pipe collar to surface. Run 1' centralizers every 6' from the top of casing pipe collar to surface.

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

Goodrich 104. 10.0mg/kg (0.01%)
Fisher Water 10.0mg/kg (0.01%)
Premo 10.0mg/kg (0.01%)
Production - 10.0mg/kg (0.01%)

25) Proposed borehole conditioning procedures:

Goodrich 104. 10.0mg/kg (0.01%)
Fisher Water 10.0mg/kg (0.01%)
Premo 10.0mg/kg (0.01%)
Production - 10.0mg/kg (0.01%)

*Note: Attach additional sheets as needed.

Cement Additives

Material Name: Premium NE-1
Material Type: Portland Cement
Material Description: Premium NE-1 is a portland cement with early compressive strength properties.

CAS #		
Ingredient name	%	CAS number
Portland cement	90 - 100	85997-15-1
Calcium oxide	1 - 5	1305-78-8
Magnesium oxide	1 - 5	1309-48-4
Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7

Material Name: bentonite
Material Type: Extender
Material Description: Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.

Ingredient name	%	CAS number
bentonite	90 - 100	1302-78-9
Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7

Material Name: Calcium Chloride
Material Type: Accelerator
Material Description: A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development.

Ingredient name	%	CAS number
Calcium chloride	90 - 100	10043-52-4

Material Name: Silic Flake
Material Type: Lost Circulation
Material Description: Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

Ingredient name	%	CAS number
No hazardous ingredient.		

Material Name: RP-13L
Material Type: Foam Preventer
Material Description: RP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.

Ingredient name	%	CAS number
Tributyl phosphate	90 - 100	126-73-8

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Material Name: Granulated Sugar
Material Type: Retarder
Material Description: Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.

Ingredient name	%	CAS number
Sucrose	90 - 100	57-50-1

Material Name: C-1
Material Type: Gas Migration
Material Description: Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.

Ingredient name	%	CAS number
No hazardous ingredient.		

Material Name: 22 (Fly Ash)
Material Type: Base
Material Description: 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.

Ingredient name	%	CAS number
Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
Calcium oxide	1 - 5	1305-78-8

Material Name: 3
Material Type: Retarder
Material Description: A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.

Ingredient name	%	CAS number
Organic acid salt	40 - 50	Trade secret.

Material Name: 5
Material Type: Surfactant
Material Description: Used to water wet casing and formation to facilitate cement bonding.

Ingredient name	%	CAS number
2-Butoxyethanol	20 - 30	111-76-2
Proprietary surfactant	10 - 20	Trade secret
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110815-47-9
Alkylarylsulfonate amine salt	1 - 5	Trade secret
Polyoxyalkylenes	0.1 - 1	Trade secret



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1206 N-11H
Marcellus Shale Horizontal
Harrison County, WV

			1206 N-11H SHL	14220790.67N 1815549.05E
Ground Elevation	1350'		1206 N-11H LP	14221378.34N 1816903.17E
Azm	340.538°		1206 N-11H BHL	14231506.05N 1813324.41E

WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	30"	30" 157.5# LS	Conductor	0	125	AIR	N/A, Casing to be drilled to w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD	Conductor casing = 0.5" wall thickness
	24"	20" 64# J-55	Fresh Water	0	185, 480, 637, 731	AIR	1x 0.0ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi
			Coal	1010	1015					
			Surface / FW	0	4475 1100					
	17.5"	13-3/8" 48# J-55 BTC	Trille/Big Lime	1665 / 1508	1675 / 1658	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl 200% Excess / CTS	Bow Spring on every joint <i>Note: also be running 100' for circulating storage pipe</i>	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.400" wall thickness Burst=3450 psi
			Injns / Gams / Warren	1858 / 1985	1770 / 2050					
			Intermediate 1	0	2200					
	13.25"	9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	2095 / 2182	2187 / 2200	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.0 ppg PNE-1 + 2.5% bwoc CaCl 200% Excess / CTS	Bow Spring on first 2 joints then every third joint to 100' from surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=3050 psi
			Gordon Shay / Gordon	2202 / 2272	2272 / 2365					
			5th Sand	2515	2527					
			Bayard / Warren	2591 / 2891	2601 / 2991					
	8.5" Vertical	5-1/2" 25# P-110 HP CDC HTO	Speeschley	3204	3274	9.0ppg SOBIM	Lead: 14.8 ppg PGE PNE-1 + 0.3% bwoc RC + 1% bwoc EC1 + 0.75 gal/sy H2O2L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.3% bwoc RC + 1.7% gal/sy FF13L + 50% bwoc ARCA1 + 0.6% bwoc MPA170 20% Excess Lead Yield=1.10 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 8 joints from the top of the curve to surface.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x before and pump pressure indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note: Actual centralizer schedules may be changed due to hole conditions.
			Balltown	3406	3446					
			Benson	4505	4526					
	110 Curve		Rfinestraet	6395	6651	11.5ppg-12.5ppg SOBIM		Run 1 (ppg) centralizer every 8 joints from the top of the curve		
Cashoqua			6851	6751						
Middlesex			6751	6783						
West River			6783	6854						
Burket			6854	6884						
Tully Limestone			6884	6972						
Hamilton			6972	7051						
9.5" Lateral	TMD / TVD (Production)	18748	7252	11.5ppg-12.5ppg SOBIM						
	Grandage	7280								

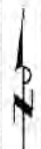
LP @ 7252' TVD / 8003' MD

8.5" Hole - Cemented Long String
5-1/2" 25# P-110 HP CDC HTO

1/-10745' ft Lateral

TD @ +/-7252 TVD
+/-18748' MD

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Well Key

- Conventional Vertical Well
- 750' Buffer Around Proposed Wells
- Proposed Horizontal Marcellus Well
- Well Plan Curve Section

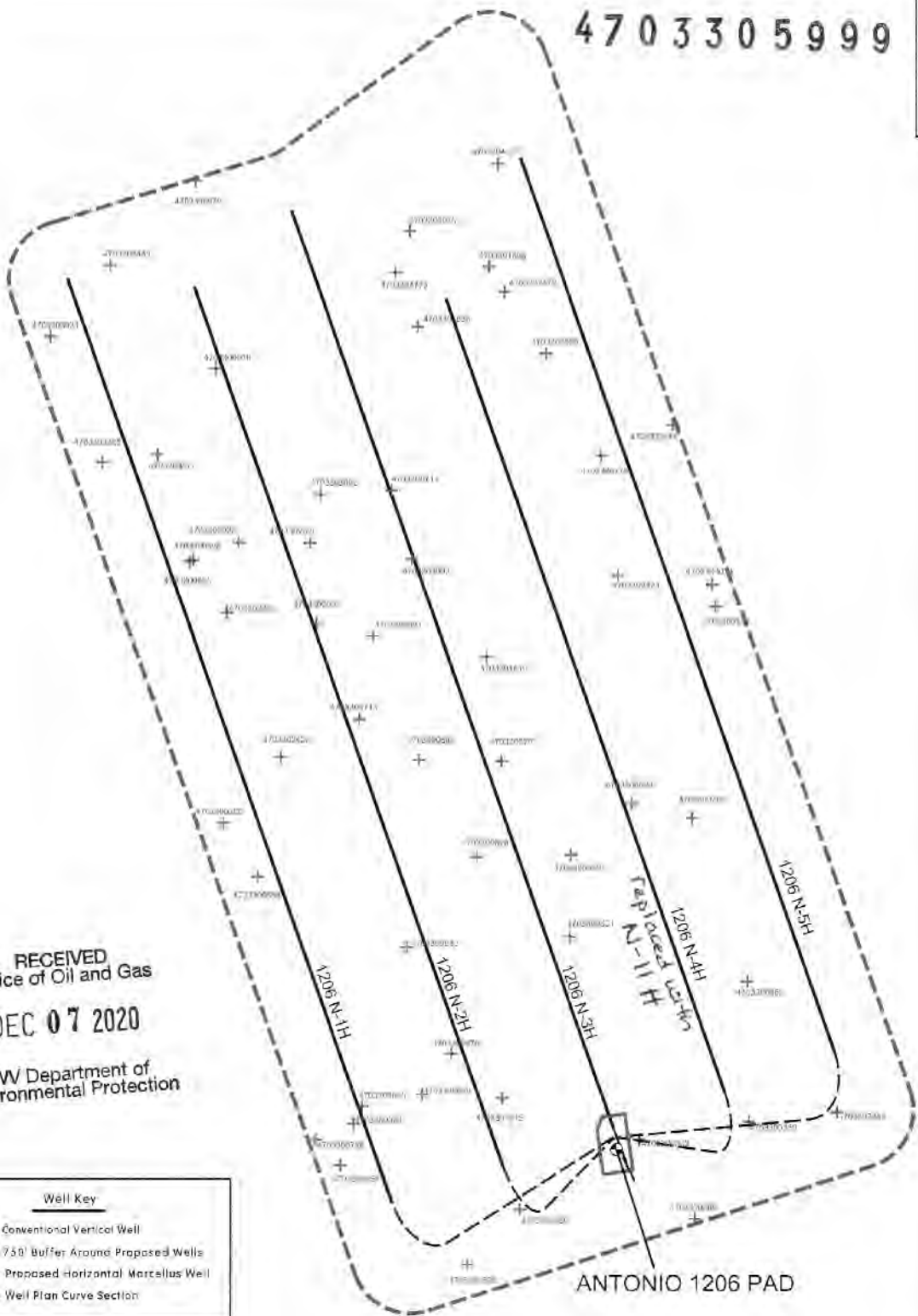
NOTE:
See Attached Spreadsheet for Well Data
DATA SOURCES:
WVGES Data Set - 2017; WVDEP Website
Well Spot Maps and Field Investigations

Area of Review for:
ANTONIO 1206 NORTH UNIT
Proposed 1206 N-1H Proposed 1206 N-2H
Proposed 1206 N-3H Proposed 1206 N-4H
Proposed 1206 N-5H

Grant District, Harrison County, W.Va.

HG ENERGY, II APPALACHIA, LLC
5260 DuPont Road, Parkersburg, WV 26101

0 1.320'
SCALE: 1" = 1,320'



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EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

ANTONIO 1206 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H, N-6H, N-11H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	470300080	HARRISON	C.H. Gaston 2 CW426	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2050	PLUGGED	39.168236	-80.359969
2	470300083	HARRISON	Alton Bell CW335	Dominion Energy Transmission Inc.	Gantz	Storage	1559	ACTIVE	39.158600	-80.370279
3	470300085	HARRISON	Fred H. Smith	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	1290	ACTIVE	39.169947	-80.375300
4	470300087	HARRISON	A.J. Ranculoh	Dominion Energy Transmission Inc.	Thirty-foot	Dry W/ Gas Show	2210	PLUGGED	39.163366	-80.376303
5	470300088	HARRISON	A. Bell	Dominion Energy Transmission Inc.	Thirty-foot	Storage	3170	PLUGGED	39.158029	-80.381248
6	470300086	HARRISON	Petrol Brothers Inc.	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4451	ACTIVE	39.167958	-80.399851
7	470300090	HARRISON	C.E. Snider	Dominion Energy Transmission Inc.	Benson	Gas	4620	ACTIVE	39.153667	-80.380064
8	470300098	HARRISON	Carl Smith 2	America Resources Corporation	Benson	Gas	4578	ACTIVE	39.178884	-80.380302
9	470300092	HARRISON	Young & Smith	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4573	ACTIVE	39.165178	-80.384332
10	470300095	HARRISON	Carl Smith 2	America Resources Corporation	Big Injua (Smb.)	Gas	3010	ACTIVE	39.178420	-80.387166
11	470300092	HARRISON	C. Earl Snider	Dominion Energy Transmission Inc.	Thirty-foot	Storage	-	ACTIVE	39.153081	-80.380077
12	470300095	HARRISON	R. Bertlett CW638	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2140	PLUGGED	39.157187	-80.384798
13	470300098	HARRISON	G.W. Conley CW632	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2301	ACTIVE	39.159053	-80.390075
14	470300076	HARRISON	C.E. Snider CW188	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	1254	ACTIVE	39.161099	-80.389720
15	470300082	HARRISON	R.S. Hershey CW298	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	2297	ACTIVE	39.171410	-80.391188
16	470300073	HARRISON	Rachel S. Hershey	Dominion Energy Transmission Inc.	Benson	Gas	4500	ACTIVE	39.172871	-80.393913
17	470300074	HARRISON	Mary A. Lowther	Dominion Energy Transmission Inc.	Benson	Gas	4510	ACTIVE	39.188997	-80.392380
18	470300072	HARRISON	A.C. Thrash CW235	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1910	PLUGGED	39.158092	-80.385928
19	470300076	HARRISON	Petrol Brothers	Dominion Energy Transmission Inc.	Hampshire Grp	Observation	2080	ACTIVE	39.169307	-80.375760
20	470300075	HARRISON	W.B. & P. Maxwell	Dominion Energy Transmission Inc.	Benson	Gas	4600	ACTIVE	39.182073	-80.382784
21	470300081	HARRISON	L.M. Stout CW293	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	2250	PLUGGED	39.171368	-80.387380
22	470300089	HARRISON	Lloyd Stout CW234	Dominion Energy Transmission Inc.	Mid Devonian	not available	4780	PLUGGED	39.155225	-80.376780
23	470300083	HARRISON	Lewis M. Stout	Dominion Energy Transmission Inc.	Benson	Gas	4558	ACTIVE	39.168821	-80.381490
24	470300095	HARRISON	H.T. Edwards CW336	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1881	ACTIVE	39.159502	-80.394379
25	470300088	HARRISON	A.W. Smith	Dominion Energy Transmission Inc.	Benson	Gas	4660	ACTIVE	39.168004	-80.388510
26	470300089	HARRISON	A.W. Smith	Dominion Energy Transmission Inc.	Fourth	Storage	2680	ACTIVE	39.166142	-80.384204
27	470300083	HARRISON	Mae Gibson	Dominion Energy Transmission Inc.	Amador	Gas	4366	ACTIVE	39.164916	-80.391700
28	470300094	HARRISON	Biram E. Edmonds	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4410	ACTIVE	39.169254	-80.392700
29	470300097	HARRISON	Dorothy Sinclair	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4520	ACTIVE	39.176741	-80.377661
30	470300098	HARRISON	S.S. Floyd 3	Mineral Resource Management, LLC	Benson	Gas	4580	ACTIVE	39.169209	-80.400218
31	470300085	HARRISON	J. West 2	ALAMCO, Inc.	Benson	Dry W/ Gas Show	4926	PLUGGED	39.168992	-80.391397
32	470300079	HARRISON	R.M. Lewis 1	Mineral Resource Management, LLC	Benson	Gas	4420	ACTIVE	39.191800	-80.401088
33	470300125	HARRISON	C.E. Snider	Dominion Energy Transmission Inc.	Benson	Gas	4661	ACTIVE	39.159492	-80.387494
34	470300150	HARRISON	I. Pettit CW-249	Dominion Energy Transmission Inc.	Fth	Storage	2724	ACTIVE	39.175016	-80.388016
35	470300169	HARRISON	Genis Williams	Dominion Energy Transmission Inc.	Hampshire Grp	House Gas	2345	ACTIVE	39.188717	-80.387797
36	470300232	HARRISON	P. Maxwell CW-245	Dominion Energy Transmission Inc.	Hampshire Grp	Storage	1193	PLUGGED	39.177071	-80.380116
37	470300246	HARRISON	R.S. Hershey	Dominion Energy Transmission Inc.	Gantz	Observation	2000	ACTIVE	39.171546	-80.387382
38	470300272	HARRISON	Mary A. Lowther (CW-257)	Spencer Enterprises	UNKNOWN	not available	-	PLUGGED	39.167832	-80.387110
39	470300266	HARRISON	J.R. Richards CW258	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2160	ACTIVE	39.170098	-80.395987
40	470300288	HARRISON	P. Maxwell CW-348	Dominion Energy Transmission Inc.	Gantz	Storage	2048	ACTIVE	39.167048	-80.379538
41	470300286	HARRISON	John Alvin Smith L	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	3187	PLUGGED	39.170040	-80.399782
42	470300298	HARRISON	Carl Smith (CW-150)	Dominion Energy Transmission Inc.	UNKNOWN	not available	-	PLUGGED	39.170005	-80.391246
43	470300305	HARRISON	Earthy S. Smiles	Dominion Energy Transmission Inc.	UNKNOWN	not available	-	PLUGGED	39.177510	-80.377730
44	470300309	HARRISON	Mary A. Lowther (CW-380)	Dominion Energy Transmission Inc.	UNKNOWN	not available	-	PLUGGED	39.175786	-80.392367
45	470300389	HARRISON	Mary A. Lowther (CW-260)	Dominion Energy Transmission Inc.	UNKNOWN	not available	-	PLUGGED	39.181137	-80.395500

4703305999

4703305999

46	4703303093	HARRISON	Mary A Lowther (CW-262)	Dominion Energy Transmission Inc.	UNKNOWN	not available	-	PLUGGED	39.178462	-80.891401
47	4703303094	HARRISON	Mary A Lowther (CW-259)	Dominion Energy Transmission Inc.	UNKNOWN	not available	-	PLUGGED	39.176248	-80.395739
48	4703303365	HARRISON	Carl V Smith Jr 4	Antero Resources Corporation	Benson	Gas	4575	ACTIVE	39.181950	-80.405388
49	4703303458	HARRISON	Ted/B Willong	Alliance Petroleum Corporation	Greenland Gap Fm	Gas	5018	ACTIVE	39.188870	-80.404970
50	4703303568	HARRISON	Byron Construction Co	Dominion Energy Transmission Inc.	Hampshire Grp	Storage	2292	PLUGGED	39.185657	-80.385247
51	4703303577	HARRISON	Carl Smith	Dominion Energy Transmission Inc.	UNKNOWN	not available	2400	PLUGGED	39.182204	-80.402884
52	4703304776	HARRISON	Carol Daugherty-Skidmore	Ross & Wharton Gas Co. Inc.	Greenland Gap Fm	Gas	5024	ACTIVE	39.188534	-80.392055
53	4703304777	HARRISON	Carol Daugherty-Skidmore	Ross & Wharton Gas Co. Inc.	Greenland Gap Fm	Gas	4813	ACTIVE	39.192332	-80.387363
54	4703304838	HARRISON	Jim K & Betty L Stutler	Dominion Energy Transmission Inc.	UNKNOWN	not available	-	PLUGGED	39.186628	-80.391066
55	4703305031	HARRISON	Robert M Lewis	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4550	ACTIVE	39.186354	-80.407701
									GREEN DENOTES SURVEYED WELLS	

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

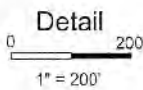
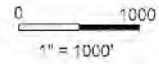
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1206 Pad Wellhead Layout

12/01/2020

Add New Well N-11H



ROAD
ACCESS

DP Aerial 06/20

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WW-9
(4/16)

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API Number 47 - _____ - _____
Operator's Well No. Antonio 1206 N-11H

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 484501007

Watershed (HUC 10) Middle West Fork Creek Quadrangle West Milford 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

Will a synthetic liner be used in the pit? Yes No If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number TBD - At next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

SDW
12/2/2020

Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical = Air, Air/WCL, SOBML, Horizontal = SOBML

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents

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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill

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-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

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-Landfill or offsite name/permit number? See Attached

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 1st day of December, 2020

Notary Public

My commission expires _____

HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 68.187 Prevegetation pH _____

Lime _____ 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount _____ 500 lbs/acre

Mulch Hay _____ 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>

Seed Type	lbs/acre
Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>

Maintain E&S controls through the drilling and completion process

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by: S. D. Warrick

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Comments: Pre-seed/mulch as soon as reasonably possible per regulation.

Upgrade E&S if needed per WV DEP E&S manual.

Title: Oil & Gas Inspector

Date: 12/2/2020

Field Reviewed? Yes

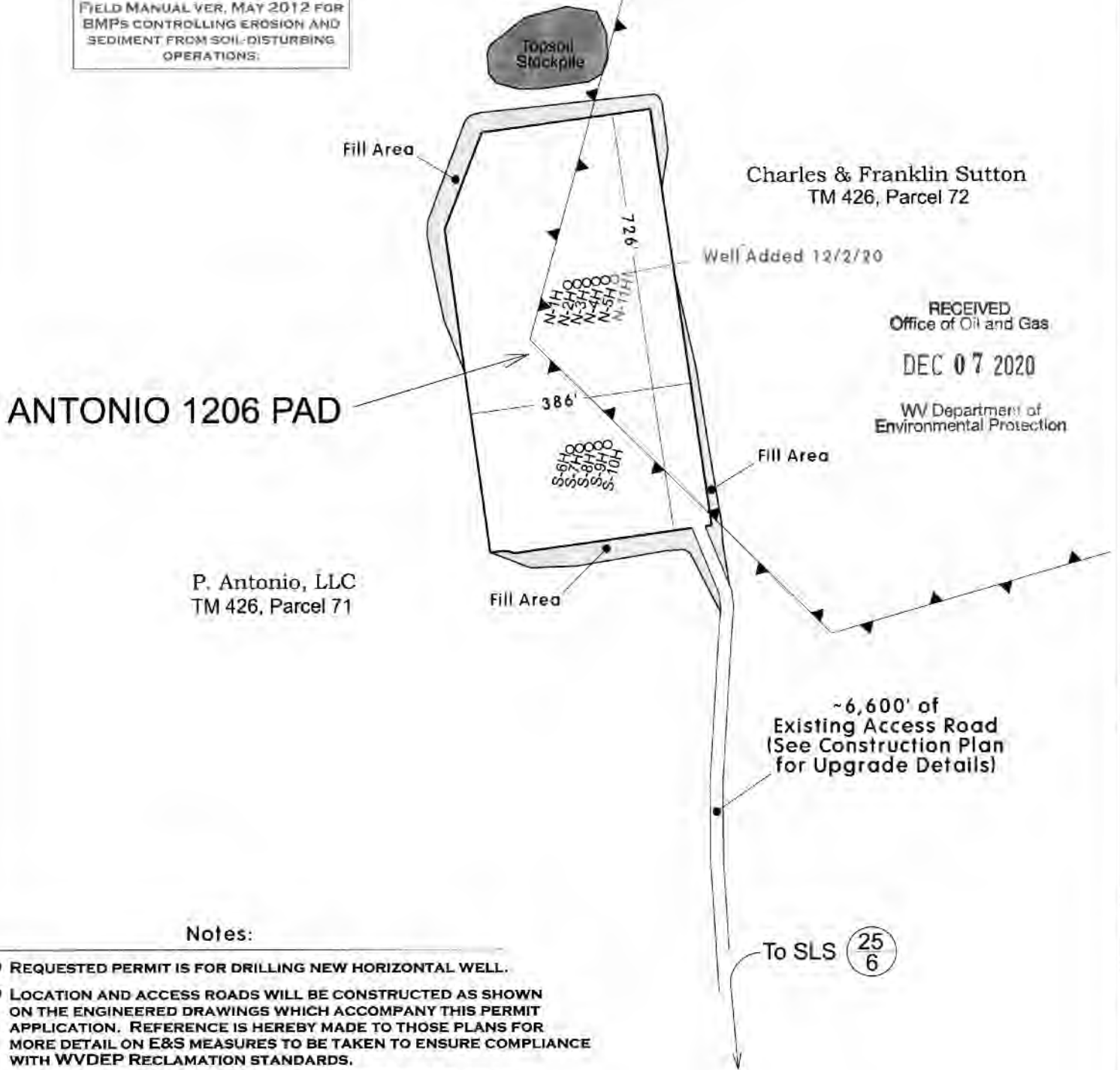
No

Reclamation Plan For: ANTONIO 1206 PAD

4703305999



NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.



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Notes:

- REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELL.
- LOCATION AND ACCESS ROADS WILL BE CONSTRUCTED AS SHOWN ON THE ENGINEERED DRAWINGS WHICH ACCOMPANY THIS PERMIT APPLICATION. REFERENCE IS HEREBY MADE TO THOSE PLANS FOR MORE DETAIL ON E&S MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH WVDEP RECLAMATION STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- NO DRILL PIT WILL BE CONSTRUCTED AND A CLOSED LOOP SYSTEM WILL BE UTILIZED TO HANDLE DRILL CUTTINGS.
- DRAWING NOT TO SCALE.

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Cuttings Disposal/Site Water

Cuttings - Haul off Company:

Exp Industries, Inc. DOT # 0876278
1875 Smith Two State Rd. Atlasburg, PA 15004
1-888-284-5227

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

Environmental Coordination Services & Recycling (ECS&R)
8257 US Highway 19
Cochranon, PA 16814
814-425-7773

Disposal Locations:

Apex Environmental, LLC Permit # 06-08438
11 County Road 78
Amsterdam, OH 43903
740-543-4889

Westmoreland Waste, LLC Permit # 100277
111 Conner Lane
Belle Vernon, PA 15012
724-529-7884

Sycamore Landfill Inc. Permit #R80-079001 05-2010
4301 Sycamore Ridge Road
Hurricane, WV 25826
304-562-2511

Max Environmental Technologies, Inc. Facility Permit # PAD004835146 / 301071
233 Max Lane
Yukon, PA 25968
724-722-3500

Max Environmental Technologies, Inc. Facility Permit # PAD05087072 / 301359
200 Max Drive
Bulger, PA 15019
724-796-1571

Waste Management Kelly Run Permit # 100663
1901 Park Side Drive
Elizabeth, PA 15037
412-884-7869

Waste Management South Hills (Armoni) Permit # 100582
3100 Hill Road
Liberty, PA 15129
724-848-7013
412-884-7589

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

Waste Management Meadowfill Permit # 1032
1488 Dawson Drive
Bridgeport, WV 26330

Brooke County Landfill Permit # SWR-105-97 / WV 0109029
Rd 2 Box 410
Colliers, WV 26035
304-748-0014

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Weitzel County Landfill Permit # SWF-1021-97 / WV 0109185
Rt 1, Box 158A
New Martinsville, WV 26035
804-455-3800

Energy Solutions, LLC Permit # UT 2300249
428 West 800 South
Suite 200
Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-124
1560 Bear Creek Road
Oak Ridge, TN 37890

Northern A-J Environmental Services Permit ID MID020906814
8947 US 131 North, PO Box 1030
Kalkaska, MI 49646
231-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720488
3790 State Route 7
New Waterford, OH 44445
330-892-0184

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

Select Energy Services, LLC
PO Box 208987
Dallas, TX 75320-8987

Nuverra Environmental Solutions
11842 Veterans Memorial Highway
Masontown, WV 26542

Mustang Oilfield Services LLC
PO Box 739
St. Clairsville, OH 43950

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

Disposal Locations:

Solidification
Waste Management, Arden Landfill Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-225-1889

Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20758
8065 Arral-Smith Road
Lowellville, OH 44436
330-536-6825

Adams #1 (Buckeye Brine, LLC)
Permit # BA-031-2-7177
22986 Airport Road
Cashocon, OH 43812
740-575-4484
512-478-9545

CMS of Delaware Inc. DBA CMS Oilfield Serv
301 Commerce Drive
Moorestown, NJ 08057

Force, Inc.
1380 Rte. 286 Hwy. E, Suite 303
Indiana, PA 15701

Solo Construction
P.O. Box 544
St. Mary's, WV 26170

Equipment Transport
1 Tyler Court
Carlisle, PA 17015

Myers Well Service, _____
2001 Ballpark Court
Export, PA 15622

Burna Drilling & Excavating
618 Crabapple Road P.O. Box
Wind Ridge, PA 15380

Nichols 1-A (SWIW #13)
Permit # 3862
300 Charrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7275

Grosella (SWIW #34)
Permit # 4096
Rt. 88
Garrattsville, OH
719-275-4816

Kembla 1-D Well
Permit # 8780
7675 East Pike
Norwich, Oh 43767
614-548-8898
740-786-6485

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Adams #2 (Buckeye Brine, LLC)
2205 Westover Road
Austin TX 78708
Permit # 34-031-2-7178
740-575-4454
512-478-6545

Adams #3 (Buckeye Brine, LLC)
Permit #34-031-2-7241-00-00
2620 Exposition, Suite 117
Austin, TX 78703
512-478-6545

Mozena #1 Well (SWIW # 13)
Permit # 34-157-2-5511-00-00
5867 E. State Street
Newcomerstown, OH 43832
740-763-3966

Goff SWD #1 (SWIW # 27)
Permit # 34-119-2-8776-000
300 Cherrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7275

SCS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Silcor Oilfield Services, Inc.
2939 Hubbard Road
Youngstown, PA 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7904 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

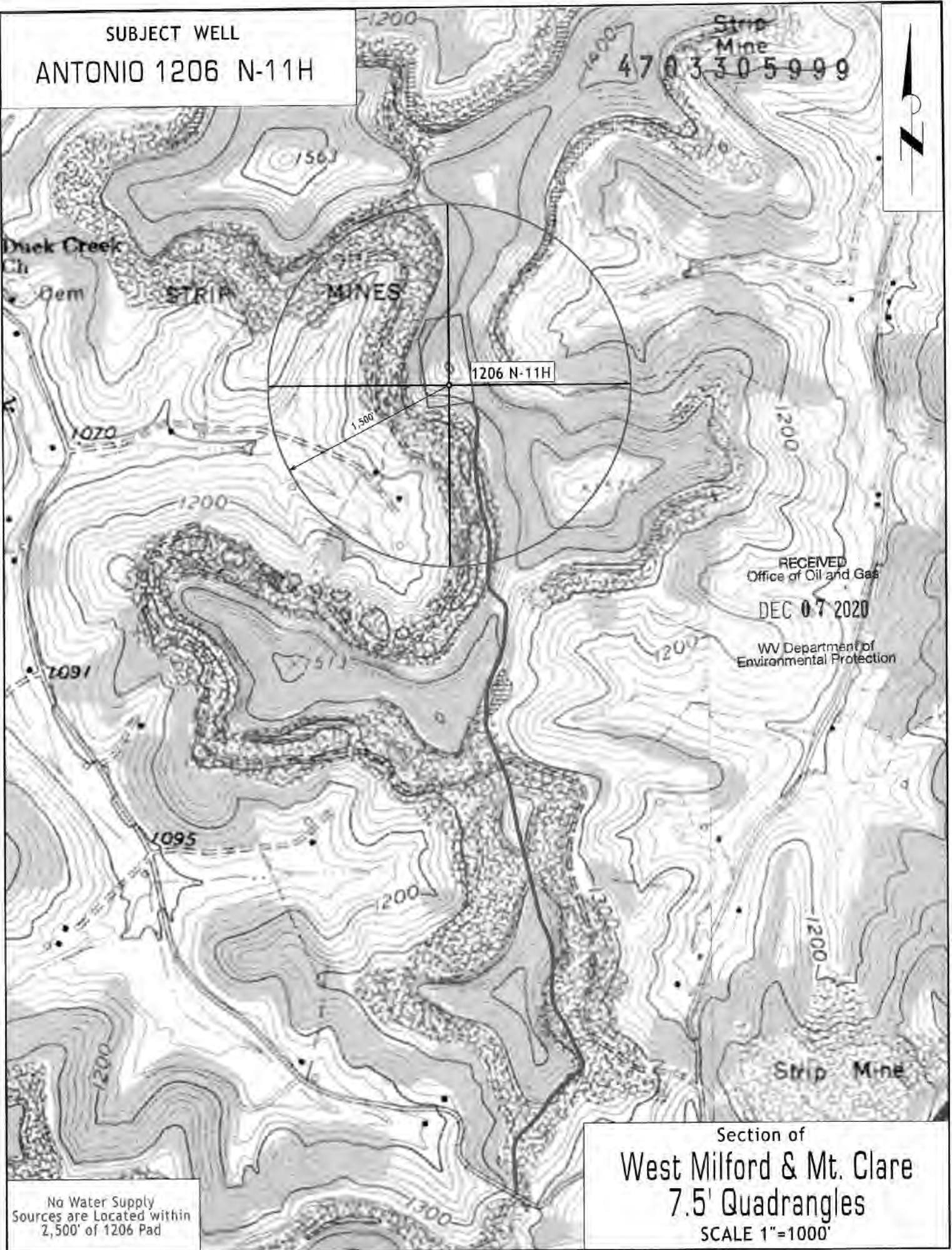
OH UIC #1 Bu keya UIC Barnesville 1 & 2
CNX Gas Company, LLC
1000 Consol Energy Drive
Permit # 34-013-2-0608-00-00
Permit # 34-013-2-0614-00-00
304-828-6568

US Steele 11385
Permit # 47-001-00561
200 Evergreen Drive
Waynesburg, PA 15720
304-828-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4187-00-00
Elkhead Gas & Oil Company
12169 Marne Rd. NE
Newark, OH 43055
740-763-3966

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SUBJECT WELL
ANTONIO 1206 N-11H



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No Water Supply
Sources are Located within
2,500' of 1206 Pad

Section of
West Milford & Mt. Clare
7.5' Quadrangles
SCALE 1"=1000'

HG Energy II Appalachia, LLC

Site Safety Plan

**Antonio 1206 Well Pad
5279 Duck Creek Road Lost Creek
Harrison County, WV 26385**

September 2019: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

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12/2/2020

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Environmental Protection

HG Energy II Appalachia, LLC
Well No. 1206 N-11H

Page 1 of 3



4,235' to Bottom Hole
2,084' to Top Hole

BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny, P.S. 2070

LONGITUDE 80 - 22 - 30
3,145' to Top Hole

7,585' to Bottom Hole

Tag	Bearing	Dist.
L1	N 75°38' W	3,444.8'
L2	N 53°50' E	1,576.6'
L3	S 89°09' E	2,950.2'
L4	S 71°56' E	1,577.0'
L5	N 66°32' E	1,476.1'

Notes:

Well No. 1206 N-11H
UTM NAD 1983 (USSF)

Top Hole Coordinates

N: 14,220,790.67'

E: 1,815,549.05'

Landing Point Coordinates

N: 14,221,378.34'

E: 1,816,903.17'

Bottom Hole Coordinates

N: 14,231,506.05'

E: 1,813,324.41'

Notes: Well No. 1206 N-11H
West Virginia Coordinate System of
1927, North Zone
based upon Differential GPS
Measurements.

Top Hole coordinates

Latitude: 39°09'28.91"

Longitude: 80°22'56.47"

Bottom Hole coordinates

Latitude: 39°11'15.01"

Longitude: 80°23'23.80"

UTM Zone 17, NAD 1983

Top Hole Coordinates

N: 4,334,505.670m

E: 553,380.460m

Bottom Hole Coordinates

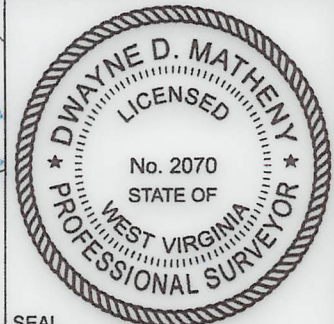
N: 4,337,771.720m

E: 552,702.386m

Plat orientation and corner and well
references are based upon the grid
north meridian.

Well location references are based
upon the magnetic meridian.

GRID NORTH

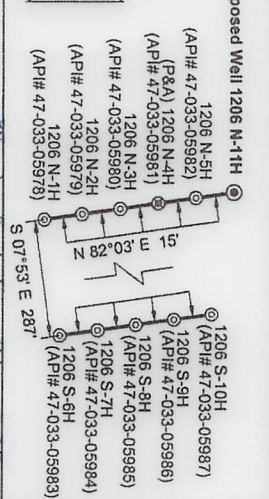


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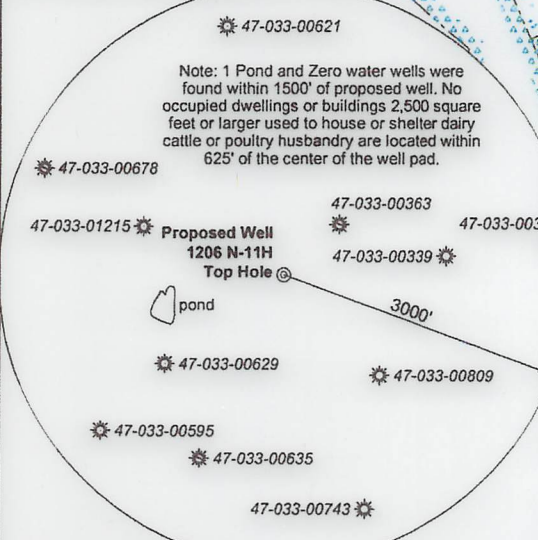
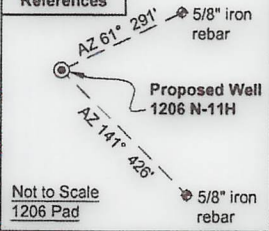
Legend

- ⊙ Proposed gas well
- ⊙ Well Reference, as noted
- ⊙ Monument, as noted
- ⊙ Existing Well, as noted
- ⊙ Existing Plugged Well, as noted
- ⊙ Digitized Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Wellhead Layout
(Not to Scale)



Well Location
References



FILE NO: 06-36-12-G-H-19
DRAWING NO: 1206 N-11H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: December 1 2020
OPERATOR'S WELL NO. 1206 N-11H
API WELL NO. HVA
47 - 033 - 05997
STATE COUNTY PERMIT

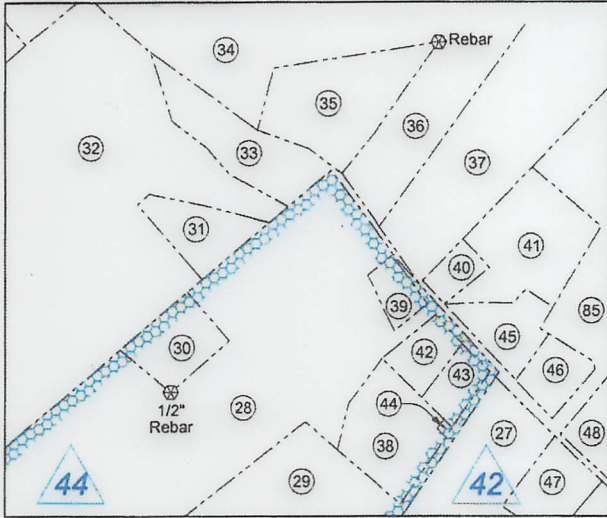
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,350' WATERSHED: Middle West Fork Creek
DISTRICT: Grant
SURFACE OWNER: Charles R. & Franklin L. Sutton
ROYALTY OWNER: Charles R. Sutton LEASE NO: ACREAGE: 30.00

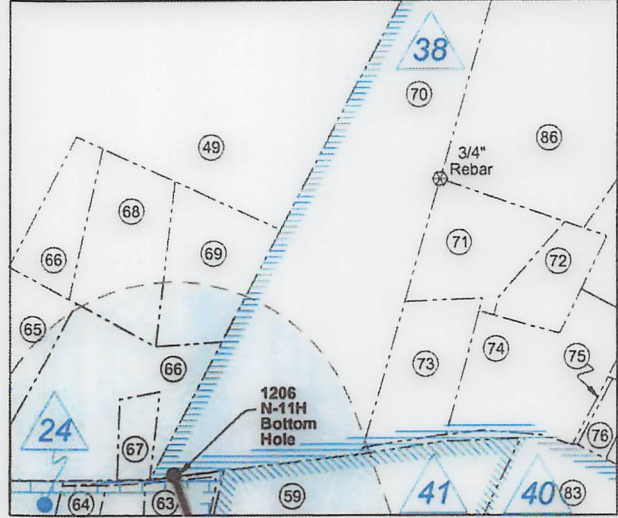
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,252' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,749' MD

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

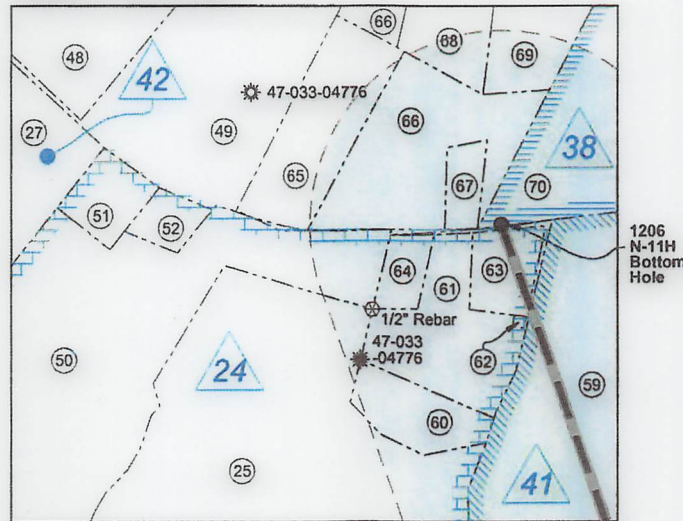
Detail 1 - Not to Scale



Detail 2 - Not to Scale



Detail 3 - Not to Scale



ID	Lease
3	C. Earl Snider, et al
4	Alton Bell, et al
5	Alton Bell
6	Marcella R. Bond, et al
9	Orpha G. Davis, et al
10	Alton Bell
11	Hugh C. Davis, et al
12	Hugh C. Davis, et al
15	A.W. Smith
16	Lewis M. Stout, et al
17	Bertie E. Young, et al
18	H.D. Smith, et al
19	Suzanna D. Simmons, et al
22	Rachel S. Hershey, et al
24	Mary A. Lowther, et al
25	Porter Maxwell, et al
26	Marcella R. Bond, et al
36	I. Wilson Swisher, et al
38	M.H. Vanhorn, et ux
39	HG Energy II Appalachia, LLC
40	UNLEASED
41	M.A. Lowther, et vir
42	Hattie O. West, et al
43	Petitto Brothers, Inc.
44	Jettie Cox, et al
47	WV Division of Natural Resources
S4	Creed W. Snider, et al
S5	Lloyd Stout
S6	Lillie D. Gifford, et al

FILE NO: 06-36-12-G-H-19
DRAWING NO: 1206 N-11H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: December 1 2020
OPERATOR'S WELL NO. 1206 N-11H
API WELL NO HGA
47 - 033 - 05999
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,350' WATERSHED: Middle West Fork Creek
DISTRICT: Grant

QUADRANGLE: West Milford
COUNTY: Harrison

SURFACE OWNER: Charles R. & Franklin L. Sutton

ACREAGE: 30.00

ROYALTY OWNER: Charles R. Sutton

LEASE NO: _____ ACREAGE: 30.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,749' MD 7,252' TVD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

No.	TM / Par	Owner	Bk / Pg	Ac.
1	426 / 72	Charles R. & Franklin L. Sutton	1301 / 98	30.00
2	426 / 71	Antonio P., LLC	1503 / 291	233.35
3	446 / 3	Antonio P., LLC	1503 / 291	200.00
4	446 / 4	Bob R. Blankenship	1310 / 740	27.67
5	426 / 73	Charles R. & Franklin L. Sutton	1301 / 98	22.6
6	426 / 74	Harriet June Ferree	1514 / 480	60.30
7	426 / 41	Charles R. & Franklin L. Sutton	1301 / 98	15.00
8	426 / 63	Charles R. & Franklin L. Sutton	1301 / 98	51.33
9	426 / 40	Charles R. & Franklin L. Sutton	1332 / 28	57.97
10	426 / 39	Antonio P., LLC	1503 / 291	50.00
11	426 / 38	Antonio P., LLC	1503 / 291	50.75
12	426 / 37	Antonio P., LLC	1503 / 291	54.00
13	426 / 13	Antonio P., LLC	1503 / 291	149.74
14	426 / 1	Antonio P., LLC	1503 / 291	20.98
15	426 / 14	Antonio P., LLC	1503 / 291	1.21
16	426 / 16	Antonio P., LLC	1503 / 291	3.02
17	426 / 15	Antonio P., LLC	1503 / 291	3.22
18	426 / 2	Antonio P., LLC	1503 / 291	26.13
19	426 / 3	Antonio P., LLC	1503 / 291	3.00
20	406 / 29	Antonio P., LLC	1503 / 291	19.43
21	426 / 4	Antonio P., LLC	1503 / 291	22.04
22	406 / 30	Antonio P., LLC	1503 / 291	8.416
23	406 / 28	Antonio P., LLC	1503 / 291	176.82
24	425 / 16	Antonio P., LLC	1503 / 291	122.25
25	405 / 82	Jim K. Stutler	1563 / 89	206.52
26	405 / 66	Antonio P., LLC	1503 / 291	33.00
27	405 / 65.1	Kermit P. & Deborah B. Stutler	1181 / 306	20.65
28	405 / 64	Robert M. Lewis, Jr.	1518 / 814	75.286
29	405 / 64.1	Tracy L. Davis	1443 / 766	8.20
30	405 / 64.6	Edward G. Lewis (LE)	1394 / 367	0.82
31	405 / 51	Connie J. & Robert M. Lewis Jr.	1518 / 814	0.80
32	405 / 49	Connie J. & Robert M. Lewis Jr.	1221 / 898	12.12
33	405 / 52	Paul Wayne Conley, et al	WB 126 / 204	1.15
34	405 / 53.1	Donnie D. & Donna R. Reaser	1047 / 543	4.72
35	405 / 54	Justina H. Ball	WB 166 / 252	2.00
36	405 / 55	Justina G. & Rodney D. Ball	1067 / 404	2.08
37	405 / 56	Pamela K. Metzgar	1362 / 825	8.64
38	405 / 64.5	James B. & Darlena D. Cook	1336 / 723	1.36
39	405 / 64.4	W. Delma Parris	1195 / 463	0.35
40	405 / 57.1	Paul D. & Sabrina M. Skidmore	1408 / 779	0.316
41	405 / 57	Paul D. & Sabrina M. Skidmore	1408 / 779	1.80
42	405 / 64.2	Hollie A. Stutler	1583 / 320	0.498
43	405 / 64.3	Alan R. & Judy R. Haught	1053 / 1098	0.394

No.	TM / Par	Owner	Bk / Pg	Ac.
44	405 / 64.7	Grant Union Public Service	1164 / 945	0.02
45	405 / 57.2	Patsy L. Hite	1237 / 581	0.86
46	405 / 57.6	Judith A. & David L. Corkrean	1277 / 738	0.55
47	406 / 65	Kermit P. & Deborah Stutler	1181 / 306	0.65
48	405 / 58	Tory J. Nicholson	1558 / 794	7.92
49	406 / 2	Arden L. & Wendy D. Skidmore	1397 / 26	37.78
50	405 / 82.3	Kermit P. & Deborah B. Stutler	1369 / 812	12.53
51	405 / 82.1	Arden L. & Wendy D. Skidmore	1434 / 489	0.87
52	405 / 82.2	William D. & Tabitha N. Ratliff	1503 / 389	0.48
53	406 / 82.4	Kermit P. Stutler	1456 / 110	1.20
54	406 / 82.5	Jennifer C. Stutler	1377 / 1043	0.53
55	406 / 49.1	Nina S. & David T. Mathews Sr.	1177 / 450	1.34
56	406 / 49	Jim K. Stutler	1563 / 89	8.03
57	406 / 19	Antonio P., LLC	1503 / 291	23.49
58	406 / 19.1	Harrison County Board of Education	1240 / 27	13.91
59	406 / 17	Board of Education	816 / 523	15.94
60	406 / 16	Jim K. Stutler	1563 / 89	1.40
61	406 / 16.3	Jim K. Stutler	1563 / 89	2.41
62	406 / 16.4	Grant Union Public Service	1169 / 1022	0.02
63	406 / 16.2	Aaron & Carly Underwood	1588 / 1058	0.846
64	406 / 16.1	Kevin K. Stutler & Linda Queen Turner	1439 / 1191	0.52
65	406 / 3	Paul O. & Marilyn S. Kittle	1464 / 242	2.50
66	406 / 4	T. Dane Williams	1088 / 765	4.73
67	406 / 4.1	T. Dane Williams	1173 / 734	0.35
68	406 / 4.2	Roger A. & Chandra D. Harper	1524 / 239	2.00
69	406 / 4.3	Michelle J. & Christy R. Foster	1528 / 980	1.90
70	406 / 5	Richard K. Williams	1344 / 966	10.966
71	406 / 7	Lori E. & Jose E. Moreno	1368 / 627	1.82
72	406 / 7.10	Lori E. & Jose E. Moreno	1361 / 616	1.00
73	406 / 7.5	Luarinda R. Beckstead & Jo Ann Longenecker	1616 / 375	1.66
74	406 / 7.11	Mark A. Bond	1368 / 588	2.68
75	406 / 7.11	Michael L. & Cleta V. Bond	1368 / 584	0.06
76	406 / 7.8	Michael L. & Cleta V. Bond	1331 / 616	0.36
77	406 / 7.1	Michael L. & Cleta V. Bond	1087 / 304	1.00
78	406 / 7.2	Richard A. & Wilma D. Fenstermacher	1075 / 1031	1.00
79	406 / 18.1	Bridgette A. & Richard L. Ward	1217 / 862	0.94
80	406 / 18.2	Bridgette A. & Richard L. Ward	1217 / 862	2.045
81	406 / 18	Bridgette A. & Richard L. Ward	1338 / 137	1.564
82	406 / 18.4	Bridgette A. & Richard L. Ward	1338 / 137	0.747
83	406 / 18.3	The Board of Education of Harrison County	1230 / 1024	5.00
84	406 / 18.5	Bridgette A. & Richard L. Ward	1338 / 137	0.169
85	405 / 57.3	David P. & Kelley J. Richman	1273 / 116	12.91
86	406 / 6	Richard K. Williams	1344 / 966	40.00

FILE NO: 06-36-12-G-H-19
DRAWING NO: 1206 N-11H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: December 1 2020
OPERATOR'S WELL NO. 1206 N-11H
API WELL NO **4703305999**
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,350' WATERSHED: Middle West Fork Creek QUADRANGLE: West Milford
DISTRICT: Grant COUNTY: Harrison
SURFACE OWNER: Charles R. & Franklin L. Sutton ACREAGE: 30.00
ROYALTY OWNER: Charles R. Sutton LEASE NO: ACREAGE: 30.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,252' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,749' MD

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

WW-6A1
(5/13)

Operator's Well No. Antonio 1206 N-11H

**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
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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

DEC 07 2020

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

DEC 07 2020

HG Energy II Appalachia, LLC
Antonio 1206 N-11H Lease Chains

1206 Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
4	LC0088976	1-041850078-0000	0100889001	ALTON BELL, SINGLE; MARCELLA R. BOND AND KARLEY D. BOND, HER HUSBAND; MARY E. KENNEDY, WIDOW; DORSEY C. KENNEDY AND VELMA ICE KENNEDY, HIS WIFE; LELA K. RUMBLE, WIDOW; MARTHA F. WILSON, WIDOW; HARRY W. KENNEDY AND LILIAN KENNEDY, HIS WIFE; JOHN L. KENNEDY AND REVA B. KENNEDY, HIS WIFE; SUE K. SWISHER, WIDOW; KATHRYN BUTLER AND THURMAN BUTLER, HER HUSBAND; EVA WOLFF AND LYNN B. WOLFF, HER HUSBAND; S. G. KENNEDY AND JESSIE L. KENNEDY, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	781	591
				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
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				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	129
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	342
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				5	LC0088977	1-041850078-0000	0100889002	ALTON BELL, SINGLE
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
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58					362
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522					33
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					129
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584					342
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600					692
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601					581
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621					1295
								MARCELLA R. BOND AND H. D. BOND, HER HUSBAND
				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
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33

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20	L0006020	11/04/2006 0000	0110080000	DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524 1543 1576 1584 1600 WVS05 1601 1621	491 1235 125 942 692 581 129
RECEIVED Office of Oil and Gas DEC 07 2020 WV Department of Environmental Protection				ALTHEA J. RANDOLPH, WIDOW; S. ERLOW DAVIS AND ANITA B. DAVIS, HIS WIFE; HUGH C. DAVIS AND MARTHA DAVIS, HIS WIFE; RUSSELL R. STOUT AND OLIVE M. STOUT, HIS WIFE; GEORGIA A. BARNES, WIDOW; JANE D. POST AND JACOB S. POST, HER HUSBAND; JESSIE S. DAVIS, WIDOW; EVENETT O. DAVIS AND RUTH M. DAVIS, HIS WIFE; AND LEWIS E. DAVIS AND LENDRE W. DAVIS, HIS WIFE HOPE NATURAL GAS COMPANY HOPE NATURAL GAS COMPANY HUGH C. DAVIS AND MARTHA L. DAVIS, HIS WIFE (JANE D. POST AND JACOB S. POST); HER HUSBAND; JESSIE S. DAVIS, WIDOW; GEORGIA A. BARNES, WIDOW; AND LEWIS E. DAVIS, WIDOWER CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNX TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNX TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 CONFIRMATORY DEED NOT LESS THAN 1/8 ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	781 903 984 1136 51 58 1522 1543 1576 1584 1600 WVS05 1601	71 179 695 250 795 362 31 1235 125 942 692 582
27	L00060507	11/04/2006 0000	0110110000	BERTIE E. YOUNG, WIDOW; ADA M. NUTTER, WIDOW; MORGAN NUTTER, SINGLE; ESTELA N. CONAWAY & ROBERT S. CONAWAY, HER HUSBAND; ROBERT O. NUTTER & ROSALINE T. NUTTER, HIS WIFE; BERNARD W. NUTTER AND ALICE E. NUTTER, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNX TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION ENERGY TRANSMISSION, INC. NOBLE ENERGY, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNX TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC CNX GAS COMPANY LLC CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT MERGER/NAME CHANGE ASSIGNMENT SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	322 903 1136 51 58 1522 1527 1543 1576 1584 WVS05 1600 1601 1621	80 179 250 795 362 33 491 1235 125 942 692 581 1295

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		WV Department of Environmental Protection		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT (50%)	LEWIS 735	220
10	1008771	11-0176-0001-0000 w/a 12-0020-0002-0000 12-0078-0013-0000 w/a 12-0026-0004-0000 12-0026-0013-0000 12-0026-0015-0000 12-0026-0016-0000 12-0076-0006-0000 11-0114-0006-0017-0000	010113000	LEWIS M. STOUT AND JANEL D. STOUT, HIS WIFE; KAYE STOUT, WIDOW; RAYMOND STOUT AND MARY STOUT, HIS WIFE LILLIAN M. NEWLON AND CHARLES NEWLON, HER HUSBAND; JOHN C. STOUT AND JUANITA STOUT, HIS WIFE; JESSE C. STOUT AND LILLIAN E. STOUT, HIS WIFE; AND LLOYD A. STOUT AND RUTH BEFOUR STOUT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	814	142
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	150
				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.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				ENX 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	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1581	342
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
20	1008800	12-0406-0021-0000 12-0406-0021-0001 12-0406-0021-0003 12-0406-0021-0004 12-0406-0021-0005 12-0406-0021-0006 12-0406-0021-0007 12-0406-0021-0008 12-0406-0025-0000 and 12-006A-0001-0000 through 12-006A-0041-0000	010112000	PORTER MAXWELL AND BERTHA B. MAXWELL, HUSBAND AND WIFE AND W. IRVING MAXWELL AND LILLIE J. MAXWELL, HUSBAND AND WIFE	JOHN C. CHIDESTER	NOT LESS THAN 1/8	175	450
				JOHN CHIDESTER	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	UNRECORDED	
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	236	111
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	504	353
				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
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				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	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1581	342
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
		12-0406-0030-0000 12-0406-0082-0001 12-0406-0087-0002 12-0406-0089-0000 12-0406-0089-0001		MARY ANNE LOWTHER AND E. J. LOWTHER, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	822	96
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	150
				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.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491

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24	11008950	12-0406-0016-0001 12-0406-0016-0002 12-0406-0016-0003 12-0406-0016-0004	1101112000	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	125				
				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	WVS05					
				DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
38	10000300	12-0406-0019-0000 12-0406-0019-0001	10000300 FEE	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOT LESS THAN 1/8	1551	969				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1295				
				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	WVS05					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	1627	1254				
41	10071030	DEC 07 2020 WV Department of Environmental Protection 12-0406-0017-0001	1101280000	MARY ANNE LOWTHER AND E. J. LOWTHER, HER HUSBAND	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	985	90				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250				
				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.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05					
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT (68%)	LEWIS 736	220				
43	10000044	12-0406-0005-0001 12-0406-0005-0002 12-0406-0007-0000 12-0406-0007-0001 12-0406-0007-0002 12-0406-0007-0003 12-0406-0007-0004 12-0406-0007-0005 12-0406-0007-0006 12-0406-0007-0007 12-0406-0007-0008 12-0406-0007-0009 12-0406-0007-0010 12-0406-0007-0011 12-0406-0007-0012 12-0406-0007-0013 12-0406-0007-0014 12-0406-0007-0015 12-0406-0007-0016 12-0406-0007-0017	0100053000	W. B. VAN HORN AND ELSIE M. VAN HORN, HIS WIFE	EASTERN OIL COMPANY	NOT LESS THAN 1/8	141	319				
				EASTERN OIL COMPANY	WEST VIRGINIA CENTRAL GAS COMPANY	ASSIGNMENT	140	155				
				WEST VIRGINIA CENTRAL GAS COMPANY	CONSOLIDATED NATURAL GAS COMPANIES OF WEST VIRGINIA	DEED	151	42				
				WEST VIRGINIA CENTRAL GAS COMPANY	CUMBERLAND AND ALLEGHENY GAS COMPANY	DEED	357	198				
				CUMBERLAND AND ALLEGHENY GAS COMPANY	COLUMBIA GAS TRANSMISSION CORPORATION	QUITCLAIM DEED	990	656				
				COLUMBIA GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	DEED	1016	1003				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250				
				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.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33				
								DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
								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	125
								CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
								DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05					

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12-0406-0007-0018
 12-0406-0007-0019
 12-0406-0007-0020
 12-0406-0008-0000
 12-0406-0008-0001

DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT (68%)	LEWIS 736	220

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

4703305999

December 1, 2020

Taylor Brewer
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Drilling Under Roads – Antonio 1206 N-11H
Grant District, Harrison County
West Virginia

Dear Mr. Brewer:

HG Energy II Appalachia, LLC, has the right to drill, stimulate and produce wells that are drilled under the County and State Roads along the above referenced lateral as designated on the plats.

Should you have any questions or desire further information, please contact me at dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

December 3, 2020

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

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

Subject: DOH Permit for the Antonio 1206 Pad, Harrison County
1206 N-11H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-1374 which has been issued to HG Energy II for access to the State Road for a haul road located off Harrison County Route 19/20 SLS. The haul route will cross Harrison County Route 25/6 by permits 04-2019-0930 & 04-2019-0931.

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.
Regional Maintenance Engineer
Central Office O&G Coordinator

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Cc: Diane C. White
HG Energy II
CH, OM, D-4
File

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HG Energy II Appalachia, LLC**List of Frac Additives by Chemical Name and CAS #
Antonio 1206 Well Pad (N-1H to N-5H, N-11H, S-6H to S-10H)**

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	

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CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1206 WELL PAD & IMPOUNDMENTS

GRANT DISTRICT
HARRISON COUNTY
WEST VIRGINIA

NO.	DATE	REVISION
1		TYPE SHEET
2A-27		SITE DEVELOPMENT PLANS
3A-36		IMPOUNDMENT SECTIONS
4A-44		ACCESS ROAD SECTIONS
5A-56		CONSTRUCTION NOTES & DETAILS
6A-61		UTILIZATION PLAN
7A-76		PROFIT MAP

CONSTRUCTION SEQUENCE

1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the applicant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The applicant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.
2. Site Access - This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from any 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 prior the construction site is accessed. Keeping sediment clean-up and grubbing limited to only that amount required for installing perimeter BMPs.
4. Land Clearing and Grading - Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
5. Surface Stabilization - Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
6. Construction of Buildings, Utilities, and Paving - During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.
7. Upon completion of pad grading, compact the base to grade and begin placement of pad and cement.
8. Final Stabilization - Topsoiling, Trees and Shrubs - After construction is completed, final stabilization BMPs including permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.



PREPARED FOR
HG ENERGY II APPALACHIA, LLC
3760 CLIFTON ROAD
PARKERSBURG, WEST VIRGINIA 26101
(304) 426-1100

PREPARED BY
PENN ENVIRONMENTAL & REMEDIATION, INC.

1000 PENNSYLVANIA AVE. SUITE 200
PARKERSBURG, WV 26101
(304) 426-1100

NO.	DESCRIPTION	DATE	BY	REVISION
1	ISSUE FOR PERMIT	10/20/20	JL	1
2	REVISED PERMIT	11/10/20	JL	2
3	REVISED PERMIT	11/10/20	JL	3
4	REVISED PERMIT	11/10/20	JL	4
5	REVISED PERMIT	11/10/20	JL	5
6	REVISED PERMIT	11/10/20	JL	6
7	REVISED PERMIT	11/10/20	JL	7
8	REVISED PERMIT	11/10/20	JL	8
9	REVISED PERMIT	11/10/20	JL	9
10	REVISED PERMIT	11/10/20	JL	10

NO.	DESCRIPTION	DATE	BY	REVISION
11	REVISED PERMIT	11/10/20	JL	11
12	REVISED PERMIT	11/10/20	JL	12
13	REVISED PERMIT	11/10/20	JL	13
14	REVISED PERMIT	11/10/20	JL	14
15	REVISED PERMIT	11/10/20	JL	15
16	REVISED PERMIT	11/10/20	JL	16
17	REVISED PERMIT	11/10/20	JL	17
18	REVISED PERMIT	11/10/20	JL	18
19	REVISED PERMIT	11/10/20	JL	19
20	REVISED PERMIT	11/10/20	JL	20

WELL #	EAST	SOUTH
1-14	N 39.1578645° W 80.3625730°	N 39.1578645° W 80.3625730°
1-24	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-34	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-44	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-54	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-64	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-74	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-84	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-94	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°
1-104	N 39.1581177° W 80.3625730°	N 39.1581177° W 80.3625730°

WELL #	EAST	SOUTH
1206 WELL PAD ACCESS ROAD ENTRANCE	N 39.148025° W 80.429878°	N 39.148025° W 80.429878°
1206 WELL PAD ACCESS ROAD ENTRANCE	N 39.148025° W 80.429878°	N 39.148025° W 80.429878°

OFFICE	DATE	TIME	BY	REVISION
1206 WELL PAD	11/10/20	10:00	JL	1
1206 WELL PAD	11/10/20	10:00	JL	2
1206 WELL PAD	11/10/20	10:00	JL	3
1206 WELL PAD	11/10/20	10:00	JL	4
1206 WELL PAD	11/10/20	10:00	JL	5
1206 WELL PAD	11/10/20	10:00	JL	6
1206 WELL PAD	11/10/20	10:00	JL	7
1206 WELL PAD	11/10/20	10:00	JL	8
1206 WELL PAD	11/10/20	10:00	JL	9
1206 WELL PAD	11/10/20	10:00	JL	10

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DATE: 11/10/20
BY: JL
REVISION: 10/10/20
PROJECT: HG 1206 WELL PAD & IMPOUNDMENTS
SHEET: 10 OF 10

THIS SHEET
HG 1206 WELL PAD & IMPOUNDMENTS
GRANT DISTRICT
HARRISON COUNTY, WEST VIRGINIA

PREPARED BY
HG ENERGY II APPALACHIA, LLC
PARKERSBURG, WEST VIRGINIA

APPROVED BY: [Signature]
DATE: 11/10/20
BY: JL

WEST VIRGINIA
CALL BEFORE YOU DIG!
Dial 811 or 800.245.4848
www.wv.gov/811

Penn E&R
Environmental & Remediation, Inc.
1000 PENNSYLVANIA AVE. SUITE 200
PARKERSBURG, WV 26101
(304) 426-1100

4703305999

