



west virginia department of environmental protection

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

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

Tuesday, February 9, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for SCHOEN 1205 N-1H
47-033-06001-00-00

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: SCHOEN 1205 N-1H
Farm Name: GEORGE & ROSANNE SCHQ
U.S. WELL NUMBER: 47-033-06001-00-00
Horizontal 6A New Drill
Date Issued: 2/9/2021

Promoting a healthy environment.

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

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

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.

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

1) Well Operator: HG Energy II Appalachia, L.P.

<u>494519932</u>	<u>Harrison</u>	<u>Grant</u>	<u>Mount Clare 7.5'</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Schoen 1205 N-1H Well Pad Name: Schoen 1205

3) Farm Name/Surface Owner: George Schoen Public Road Access: McWhorter Road / SR25

4) Elevation, current ground: 1410' Elevation, proposed post-construction: 1407'

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

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

*SDW
11/25/2020*

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 7214' / 7315' and 101' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7240'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26,929'

11) Proposed Horizontal Leg Length: 18,210'

12) Approximate Fresh Water Strata Depths: 135', 480', 640', 728'

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

14) Approximate Saltwater Depths: 1730, 1780, 2010

15) Approximate Coal Seam Depths: 501, 650', 730', 736' (Surface casing is being extended to cover the coal in the DTI Storage Field)

16) Approximate Depth to Possible Void (coal mine, karst, other): None

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

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

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JAN 06 2021

WW-6B
(04/15)

API NO. 47- 4703306001
 OPERATOR WELL NO. Schoen 1205 N-1H
 Well Pad Name: Schoen 1205

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	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1200'	1200'	40% excess, CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2100'	2100'	40% excess, CTS
Intermediate 2	9 5/8"	NEW	J-55	40	2950'	2950'	40% excess tail, CTS
Production	5 1/2"	NEW	P-110	23	26929'	26929'	20% excess tail, CTS
Tubing							
Liners							

*SDW
11/25/2020*

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	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tail 0% Excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.19, tail yield 1.20
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WV Department of
Environmental Protection

WW-6B
(10/14)

API NO. 47- 4703306001
OPERATOR WELL NO. Schoen 1205 N-1H
Well Pad Name: Schoen 1205

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 7240 feet. Drill horizontal leg to estimated 18,210' lateral length, 26,929' 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): 29.485 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.246 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater - centralized every 3 joints to surface.
Coal - Bow Spring on every joint, will also be running ACP for isolating storage zone
Intermediate - Bow Spring on first 2 joints then every third joint to 100' from surface.
Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the curve.

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

Conductor -NA, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water - 15.9 ppg PNE-1 + 3% bwoc CaCl₂, 40% Excess Yield = 1.20, CTS
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₄0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS*
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₄0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS*
Production - Lead: 14.5 ppg POZPNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% ExcessLeadYield=1.19TailYield=1.94CTS*

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.
Fresh Water - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.
Coal - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

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*Note: Attach additional sheets as needed.



1205 N-1H
Marcellus Shale Horizontal
Harrison County, WV

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1205 N-1H SHL

14218746.262N 1824133.718E

Ground Elevation

1407.3'

1205 N-1H LP

14218068.6N 1821254.5E

Azm

340.538°

1205 N-1H BHL

14235231.92N 1815189.61E

WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5' wall thickness
	24"	20" 94# J-55	Fresh Water	0	135, 480, 640, 728	AIR	15.6 ppg 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	730	736					
			Surface / FW	0	1200					
	17.5"	13-3/8" 68# J-55 BTC	Little/Big Lime	1467 / 1510	1482 / 1556	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 zero% Excess. CTS	Bow Spring on every joint <i>*will also be running ACP for isolating storage zone*</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 = 0.480" wall thickness Burst=3450 psi
			Injun / Gantz (Storage)	1565 / 1900	1680 / 1970					
			Intermediate 1	0	2100					
			Fifty / Thirty Foot	1993 / 2112	2093 / 2147					
	12.25"	9-5/8" 40# J-55 BTC	Gordon Stray / Gordon	2195 / 2250	2250 / 2310	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 zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form 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=3950 psi
			5th Sand	2440	2468					
			Warren	2635	2660					
			Intermediate 2	0	2950					
	8.5" Vertical	5-1/2" 23# P-110 HP CDC HTQ	Speechley	3028	3162	9.0ppg SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 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 bottoms up, or until returns and pump pressures 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
			Bradford	3342	3367					
			Benson	4420	4455					
8.5" Curve	Rhinestreet		5872	6549	11.5ppg-12.5ppg SOBM					
	Cashaqua		6549	6740						
	Middlesex		6740	6870						
	West River		6870	7003						
	Burkett		7003	7048						
	Tully Limestone		7048	7149						
	Hamilton		7149	7214						
8.5" Lateral	Marcellus	7214	7315	11.5ppg-12.5ppg SOBM						
TMD / TVD (Production)	26920	7240								
	Onondaga	7315								

LP @ 7240' TVD / 8710' MD

8.5" Hole - Cemented Long String
5-1/2" 23# P-110 HP CDC HTQ

+/-18210' ft Lateral

TD @ +/-7240' TVD
+/-26920' MD

X=centralizers

4703306001

JAN 06 2021

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

WV Department of
Environmental Protection

SCHOEN 1205 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H & N-5H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300308	Harrison	June Ludwig CW541	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1913	PLUGGED	39.158341	-80.334821
2	4703300310	Harrison	Alice V Knisley	Dominion Energy Transmission, Inc.	Gantz	Storage	1824	ACTIVE	39.157059	-80.340613
3	4703300322	Harrison	I M Swisher	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.167870	-80.365986
4	4703300324	Harrison	John H Hardway 1	Dominion Energy Transmission, Inc.	Gantz	Storage	1644	ACTIVE	39.153472	-80.355885
5	4703300360	Harrison	Jesse C Stout	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.177946	-80.345070
6	4703300369	Harrison	S D B Church	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.170834	-80.343766
7	4703300382	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Gantz	Storage	1653	ACTIVE	39.167589	-80.345998
8	4703300397	Harrison	Marcella R Bond	Hope Natural Gas Company	Up Devonian	Gas	1587	PLUGGED	39.152681	-80.357369
9	4703300398	Harrison	J N Rector	Hope Natural Gas Company	Thirty-foot	Storage	2002	PLUGGED	39.149633	-80.359418
10	4703300400	Harrison	Porter M Rogers	Hope Natural Gas Company	Thirty-foot	Storage	2085	PLUGGED	39.162985	-80.351406
11	4703300408	Harrison	M R Bond	Dominion Energy Transmission, Inc.	Gantz	Storage	1726	ACTIVE	39.155851	-80.357903
12	4703300410	Harrison	E A Waggoner	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1964	ACTIVE	39.148438	-80.357974
13	4703300548	Harrison	Mollie V Bassel	Dominion Energy Transmission, Inc.	Benson	Storage	4350	ACTIVE	39.168367	-80.342834
14	4703300654	Harrison	A V Knisley CW542	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1748	ACTIVE	39.159938	-80.337616
15	4703300659	Harrison	S V Curry CW433	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1990	ACTIVE	39.149343	-80.352710
16	4703300661	Harrison	M S Davis CW538	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1885	ACTIVE	39.154774	-80.339266
17	4703300672	Harrison	M V Bassell CW452	Dominion Energy Transmission, Inc.	Fifth	Storage	2233	ACTIVE	39.171125	-80.343021
18	4703300677	Harrison	D L Nutter	Alliance Petroleum Co. LLC	Thirty-foot	Gas	1850	ABANDONED	39.155655	-80.342933
19	4703300685	Harrison	A V Knisley CW547	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1940	ACTIVE	39.165325	-80.338945
20	4703300686	Harrison	Lloyd Stout CW458	Dominion Energy Transmission, Inc.	Gordon	Storage	2051	PLUGGED	39.176350	-80.348052
21	4703300690	Harrison	J J Lewis CW438	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1853	ACTIVE	39.154132	-80.353828
22	4703300692	Harrison	J C Stout CW456	Dominion Energy Transmission, Inc.	Gantz	Storage	1950	PLUGGED	39.171996	-80.346933
23	4703300709	Harrison	M Bond CW335	Dominion Energy Transmission, Inc.	Thirty-foot	Gas	2025	PLUGGED	39.159079	-80.361666
24	4703300710	Harrison	Ray Swisher CW455	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2017	PLUGGED	39.172431	-80.359233
25	4703300711	Harrison	Lewis Davis CW340	Dominion Energy Transmission, Inc.	Gordon	Storage	2117	PLUGGED	39.169606	-80.367107
26	4703300717	Harrison	E H Stout CW464	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1996	ACTIVE	39.183988	-80.351326
27	4703300727	Harrison	Marcella R Bond	Dominion Energy Transmission, Inc.	Benson	Gas	4305	ACTIVE	39.162713	-80.357152
28	4703300737	Harrison	M Bond CW446	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1904	ACTIVE	39.163560	-80.354301
29	4703300741	Harrison	A D Bassell CW453	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2208	PLUGGED	39.172441	-80.348854
30	4703300742	Harrison	A D Bassell CW459	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2145	PLUGGED	39.177553	-80.350856
31	4703300746	Harrison	A Stalnaker CW445	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1935	PLUGGED	39.161560	-80.350301
32	4703300751	Harrison	Emma Post CW451	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2248	ACTIVE	39.169652	-80.353945
33	4703300754	Harrison	A D Bassell CW457	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2160	PLUGGED	39.174028	-80.353269
34	4703300755	Harrison	P Maxwell CW461	Dominion Energy Transmission, Inc.	Gantz	Storage	2188	PLUGGED	39.180559	-80.353642
35	4703300764	Harrison	Milton S Davis	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2214	PLUGGED	39.153552	-80.339108
36	4703300771	Harrison	O G Kennedy CW338	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1996	PLUGGED	39.167697	-80.365568
37	4703300776	Harrison	L Gifford CW337	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1973	ACTIVE	39.165584	-80.364807
38	4703300783	Harrison	M V Bassell CW448	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2127	PLUGGED	39.163631	-80.347893

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39	4703300811	Harrison	D L Nutter	Dominion Energy Transmission, Inc.	Benson	Gas	4365	ACTIVE	39.159500	-80.346443
40	4703300818	Harrison	David C Curry CW441	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1880	PLUGGED	39.158922	-80.351965
41	4703300827	Harrison	A W Smith	Dominion Energy Transmission, Inc.	Fifth	Gas	2389	ACTIVE	39.171375	-80.368174
42	4703300880	Harrison	Marcella Bond	Dominion Energy Transmission, Inc.	Benson	Gas	4476	ACTIVE	39.156295	-80.360290
43	4703300890	Harrison	C H Woodford	Dominion Energy Transmission, Inc.	Benson	Gas	4660	ACTIVE	39.182815	-80.363180
44	4703300922	Harrison	A B Yost	Dominion Energy Transmission, Inc.	Benson	Gas	4455	ACTIVE	39.154204	-80.350633
45	4703301050	Harrison	Bassell 3	Dominion Energy Transmission, Inc.	Fifth	Gas	2314	PLUGGED	39.168513	-80.340039
46	4703301915	Harrison	G Thomas Smith	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4630	ACTIVE	39.161289	-80.365368
47	4703302076	Harrison	A V Knisley	Dominion Energy Transmission, Inc.	Benson	Gas	4227	ACTIVE	39.157180	-80.337989
48	4703302137	Harrison	M S Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4478	ACTIVE	39.152701	-80.338421
49	4703302146	Harrison	Emma Post	Dominion Energy Transmission, Inc.	Alexander	Gas	4980	ACTIVE	39.168746	-80.356491
50	4703302433	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Benson	Gas	4657	ACTIVE	39.166932	-80.350738
51	4703302483	Harrison	C H Woodford CW347	Dominion Energy Transmission, Inc.	Gantz	Observation	2164	PLUGGED	39.183028	-80.362946
52	4703302484	Harrison	C H Woodford CW343	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1960	ACTIVE	39.177808	-80.373752
53	4703302764	Harrison	Sarah Heldreth 3	Dominion Energy Transmission, Inc.	Fifth	not available	-	PLUGGED	39.190301	-80.350811
54	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	Gas	4427	ACTIVE	39.150855	-80.348565
55	4703302876	Harrison	L J Stenger et al	P.G. Oil & Gas, LLC	Alexander	Gas	5100	ACTIVE	39.193173	-80.375451
56	4703302881	Harrison	E S Swisher (CW-344)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.176059	-80.369854
57	4703302938	Harrison	Carl Smith Jr	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2221	ACTIVE	39.179913	-80.359897
58	4703302971	Harrison	P Maxwell et al (CW-463)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.182300	-80.358860
59	4703303050	Harrison	Porter Maxwell (CW-465)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.185710	-80.353760
60	4703303208	Harrison	Porter Maxwell	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.184352	-80.374325
61	4703304875	Harrison	Worthy C Hall	Dominion Energy Transmission, Inc.	Thirty-foot	not available	2362	PLUGGED	39.164004	-80.343017
62	4703330132	Harrison	Thomas B Reed	Hope Natural Gas Company	Hampshire Grp	Gas	2455	PLUGGED	39.190219	-80.360075
63	4703330316	Harrison	W B Lowther	Philadelphia Oil Co.	Hampshire Grp	Oil and Gas	2455	PLUGGED	39.198796	-80.373534
64	4703330534	Harrison	Porter Maxwell 3	Hope Natural Gas Company	Hampshire Grp	Gas	2352	PLUGGED	39.186975	-80.371151
65	4703331780	Harrison	Margert Reed	Hope Natural Gas Company	Hampshire Grp	Gas	2476	PLUGGED	39.191607	-80.361276
66	4703331901	Harrison	S J Davisson CW332	Consolidated Gas Supply Corp.	Hampshire Grp	Storage	2330	OBSERVATION	39.154343	-80.365053
67	4703331906	Harrison	F S Young	Consolidated Gas Supply Corp.	Gantz	Storage	1910	UNKNOWN	39.151280	-80.345552
68	4703331910	Harrison	F S Young	Consolidated Gas Supply Corp.	Gantz	Storage	1910	UNKNOWN	39.160252	-80.346711
69	4703331911	Harrison	D L Nutter CW444	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2235	UNKNOWN	39.159435	-80.340704
70	4703331912	Harrison	D L Nutter CW449	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2362	UNKNOWN	39.162871	-80.342146
71	4703331930	Harrison	E H Stout CW462	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2480	UNKNOWN	39.179554	-80.350086
72	UNKNOWN-1	Harrison	Sarah L Vanhorn 1	UNKNOWN	Fifth	not available	-	PLUGGED	39.196215	-80.361079
73	UNKNOWN-2	Harrison	J.J. Lewis	UNKNOWN	UNKNOWN	not available	-	PLUGGED	39.153186	-80.347510
74	UNKNOWN-3	Harrison	Bond Heirs	UNKNOWN	UNKNOWN	not available	2445	PLUGGED	39.183895	-80.371408

SOURCE: WVGES DATASET (2020) and WVDEP WEBSITE AND FIELD SURVEYS

UPDATED 12/28/2020

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YELLOW DENOTES WELL WITH TVD > 4,500' GREEN DENOTES SURVEYED WELLS

4703306001

WW-9
(4/16)

4703306001

API Number 47 - _____
Operator's Well No. Schoen 1205 N-1H

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 Creek Quadrangle Mount Clare 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 _____)

700
11/25/2020

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/KCl, Air/SOBM, Horizontal - SOB

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

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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

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

WV Department of
Environmental Protection

-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 Diane White

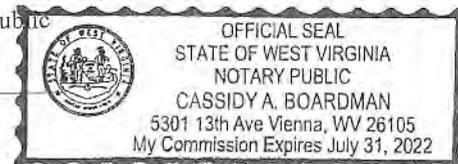
Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 23rd day of November, 2020

Cassidy Boardman Notary Public

My commission expires 7/31/2022



HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 29.465 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	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

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.

Plan Approved by: SLD Ward

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: 01/25/2020

Field Reviewed? (X) Yes () No

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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)
 3237 US Highway 19
 Cochran, PA 16314
 814-425-7773

Disposal Locations:

Apex Environmental, LLC Permit # 06-08438
 11 County Road 78
 Amsterdam, OH 43903
 740-543-4389

Westmoreland Waste, LLC Permit # 100277
 111 Conner Lane
 Belle Vernon, PA 15012
 724-929-7694

Sycamore Landfill Inc. Permit #R90-079001 05-2010
 4301 Sycamore Ridge Road
 Hurricane, WV 25526
 304-562-2611

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
 412-384-7569

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

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 # SWF-103-97 / WV 0109029
 Rd 2 Box 410
 Colfers, WV 26035
 304-748-0014

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Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185
 Rt 1, Box 156A
 New Martinsville, WV 26035
 304-455-3800

Energy Solutions, LLC Permit # UT 2300249
 423 West 300 South
 Suite 200
 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24
 1560 Bear Creek Road
 Oak Ridge, TN 37830

Northern A-1 Environmental Services Permit ID MID020906814
 3947 US 131 North, PO Box 1030
 Kalkaska, MI 49646
 231-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485
 3790 State Route 7
 New Waterford, OH 44445
 330-892-0164

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

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

Nuverra Environmental Solutions
 11942 Veterans Memorial Highway
 Masontown, WV 26542

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

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

Disposal Locations:

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

Solidification/Incineration
 Soil Remediation, Inc. Permit # 02-20753
 6065 Arrel-Smith Road
 Lowellville, OH 44436
 330-536-6825

Adams #1 (Buckeye Brine, LLC)
 Permit # 34-031-2-7177
 23986 Airport Road
 Coshocton, OH 43812
 740-575-4484
 512-478-6545

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 Environmental Protection

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

Force, Inc.
 1380 Rta. 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 15632

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

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

Groselle (SWIW #34)
 Permit # 4096
 Rt. 88
 Garrettsville, OH
 713-275-4816

Kemble 1-D Well
 Permit # 8780
 7675 East Pike
 Norwich, Oh 43767
 614-648-8898
 740-796-6495

4703306001

Adams #2 (Buckeye Brine, LLC)
2205 Westover Road
Austin Tx 78703
Permit # 34-031-2-7178
740-575-4484
512-478-6545

Adams #3 (Buckeye Brine, LLC)
Permit #34-031-2-7241-00-00
2630 Exposition, Suite 117
Austin, TX 78703
512-478-6545

Mozena #1 Well (SWIW # 13)
Permit # 34-157-2-5511-00-00
5367 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

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

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 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 # 34-013-2-0609-00-00
Permit # 34-013-2-0614-00-00
304-323-6568

US Steele 11385
Permit # 47-001-00561
200 Evergreen Drive
Waynesburg, PA 15730
304-323-6568

Chapln #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas & Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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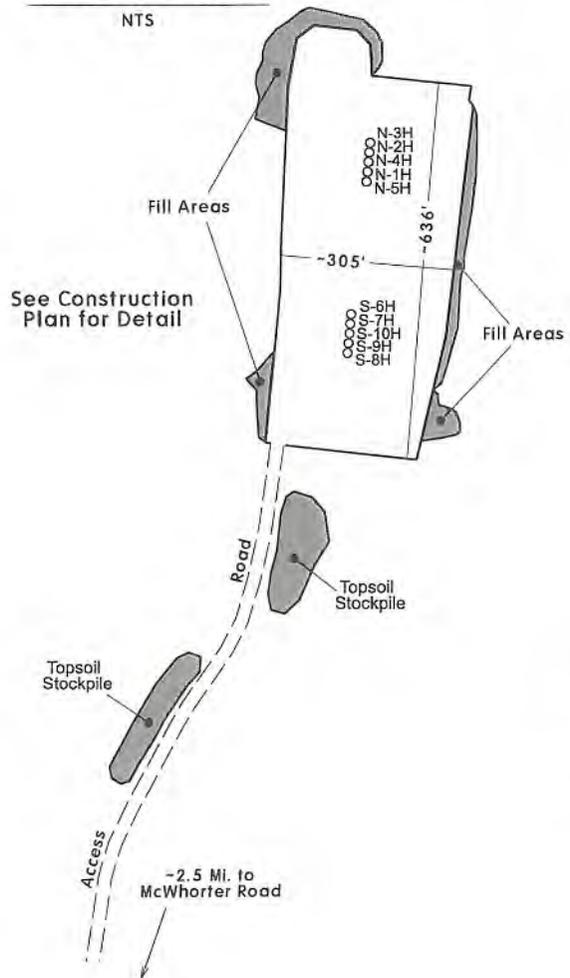
WV Department of
Environmental Protection

4703306001

Reclamation Plan For: SCHOEN 1205 PAD

PAD DETAIL

NTS



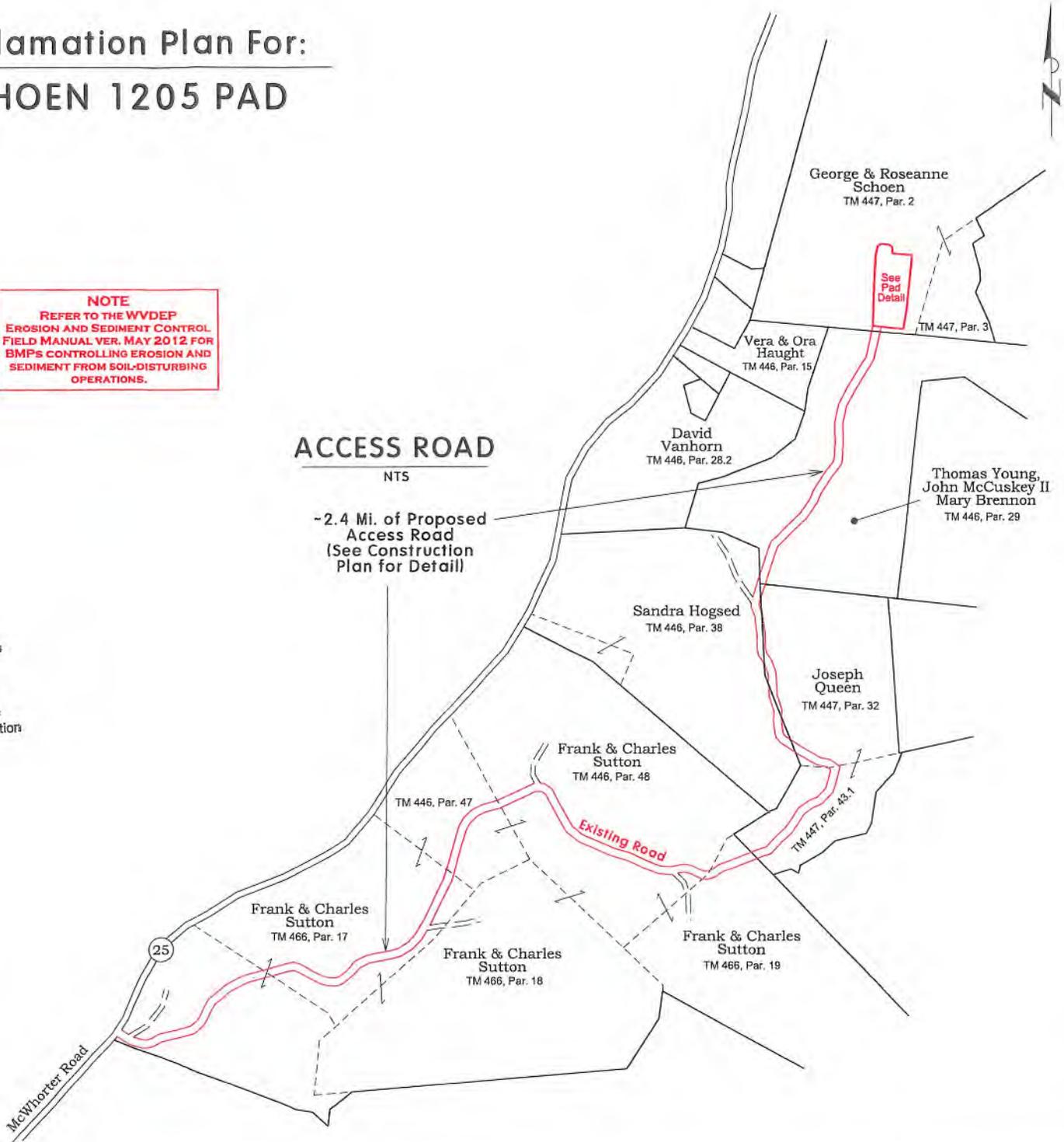
NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 20 12 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

ACCESS ROAD

NTS

-2.4 Mi. of Proposed
Access Road
(See Construction
Plan for Detail)

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Notes:

- REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELLS.
- 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.

4703306001

HG Energy II Appalachia, LLC

Site Safety Plan

Schoen 1205 Well Pad

**1279 Sutton Farm Rd
Lost Creek
Harrison County, WV 26385**

August 2020: 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**

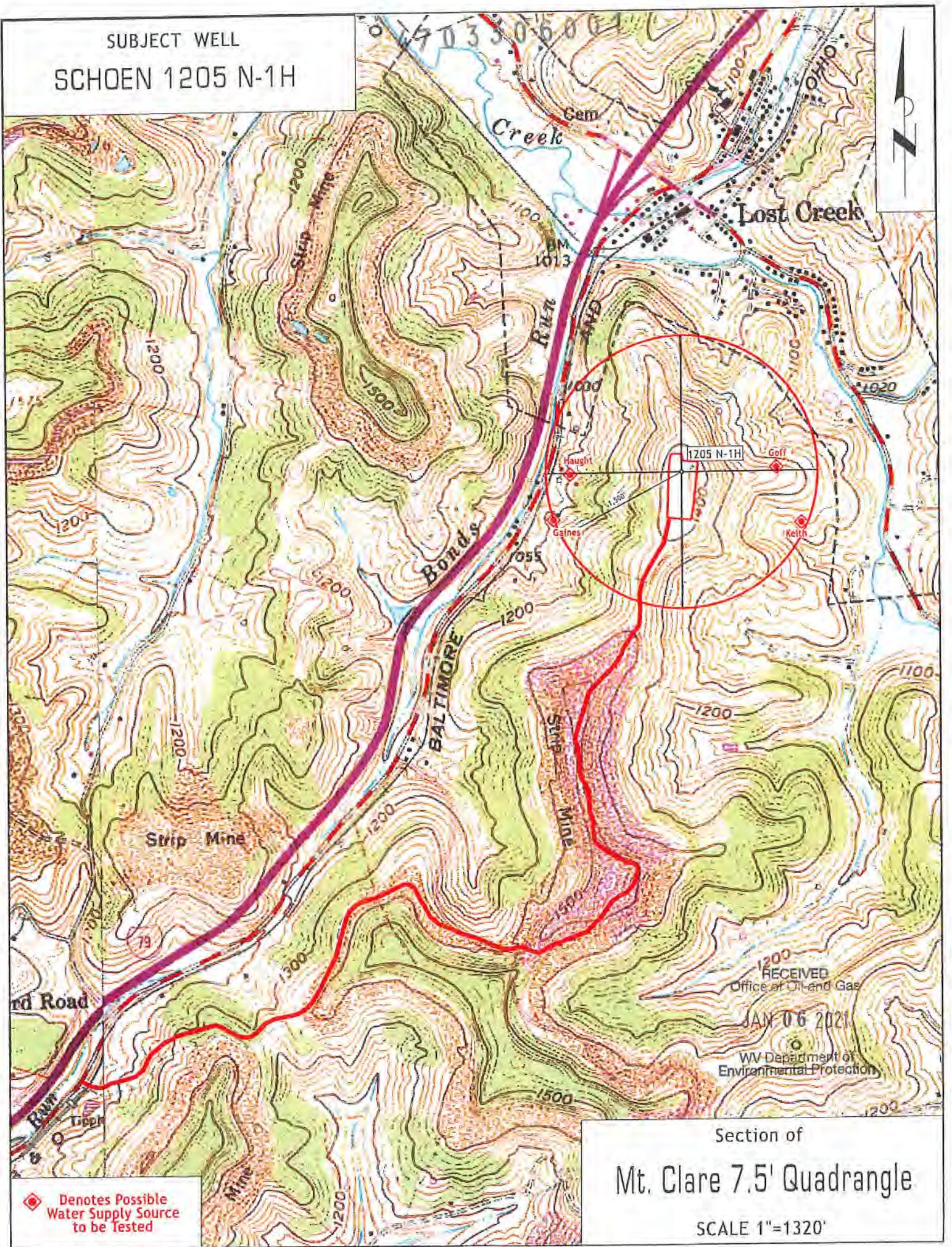
*SDW
11/25/2020*

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SUBJECT WELL
SCHOEN 1205 N-1H



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◆ Denotes Possible
Water Supply Source
to be Tested

Section of
Mt. Clare 7.5' Quadrangle

SCALE 1"=1320'



Notes:
Well No. Schoen 1205 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,746.26'
E: 1,824,133.72'
Landing Point Coordinates
N: 14,218,068.60'
E: 1,821,254.50'
Bottom Hole Coordinates
N: 14,235,231.92'
E: 1,815,189.61'

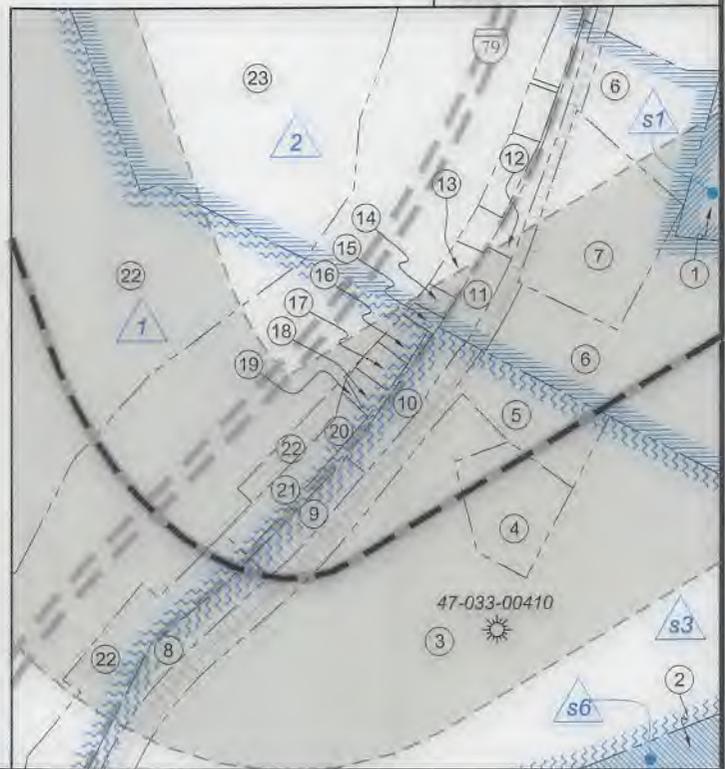
Notes:
Well No. Schoen 1205 N-1H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'08.10" Latitude: 39°11'51.72"
Longitude: 80°21'07.63" Longitude: 80°22'59.78"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,882.528m N: 4,338,907.367m
E: 555,997.069m E: 553,270.900m
Plat orientation and corner and well references are
based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

ID	Lease
s1	A.B. Post, et al
s3	Emma A. Waggoner, et al
s4	Charlotte C. Gerlach, et al
s6	Susan V. Curry, et al
1	J.N. Rector, et al
2	Marcella R. Bond, et vir, et al
3	S.J. Davisson
6	Lillie D. Gifford, et al
7	J.C. McWhorter, et al
8	Mary E. Kennedy, et al
13	Charles R. Sutton, et al
14	Alton Bell
16	Martha Davis, et vir, et al
17	Lillie Gifford, et al
17.1	Lillie Gifford, et al
18	Georgia A. Barnes
19	Georgia A. Barnes
21	A.W. Smith
21.1	Richard R. Bond
21.2	Nillie Jo Brissey
22	Frank Swisher, et al
23	J.O. Butcher, et ux
24	H.D. Smith, et ux, et al
25	C.H. Woodford, et ux, et al
25.1	Gregory A. Abraham, et ux
30	Frank Sinclair, et al
31	Luan B. Vinson, et al
32	Porter Maxwell, et ux, et al
32.1	David L. Scranage, et ux
34	I. Wilson & Edna M. Swisher
37	W.B. Van Horn, et ux
38	Locie C. Stout, et al
43	Hattie B. Cummins

Legend

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

Detail 1 - Scale: 1" = 500'



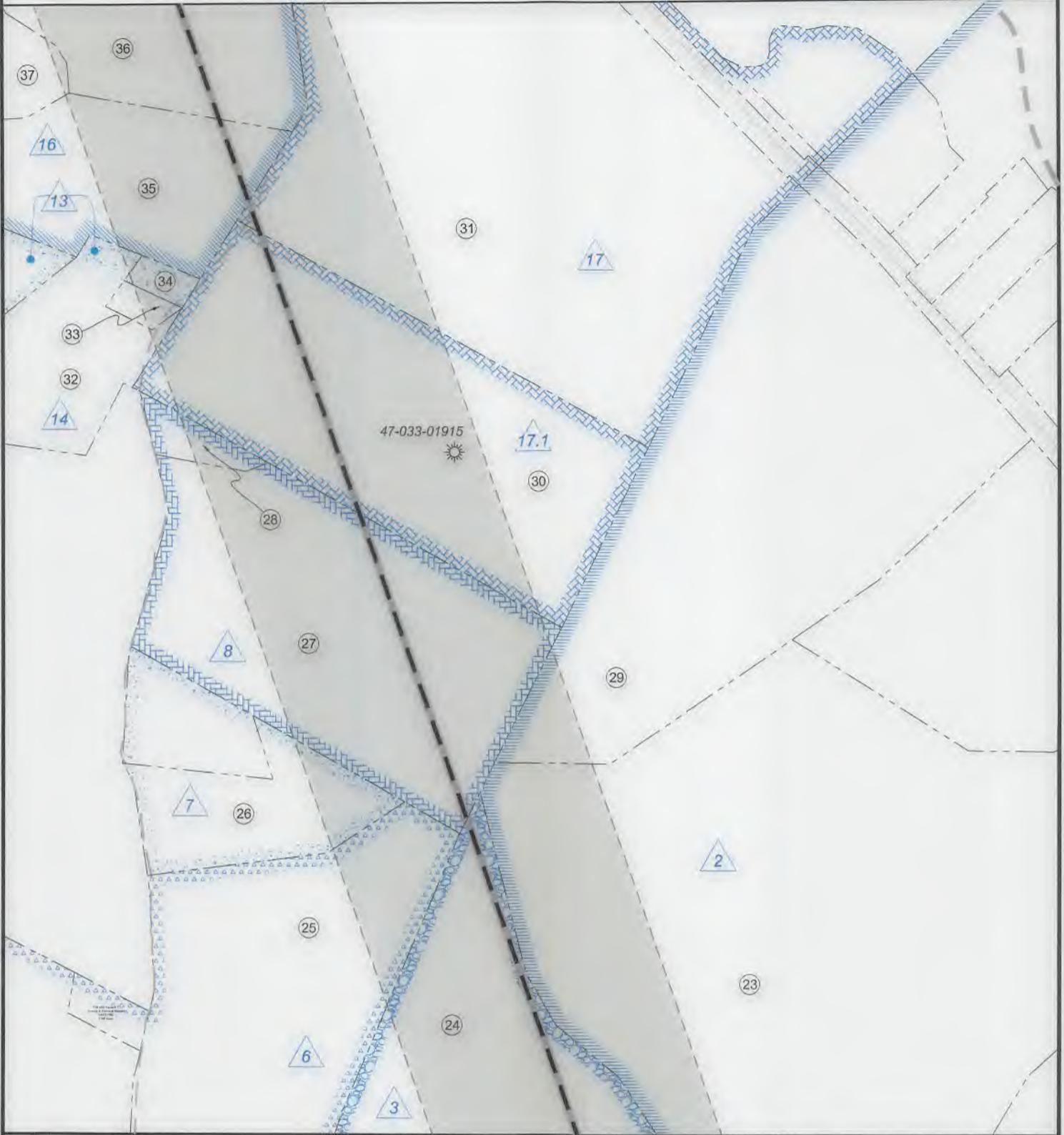
FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO **44A**
47 - 033 - 06001
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willia Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

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: 7,242' TVD
26,929' 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



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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



FILE NO: 32-36-G-19
 DRAWING NO: Schoen 1205 N-1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
Submeter
 PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
 OPERATOR'S WELL NO. Schoen 1205 N-1H
 API WELL NO
47 - 033 - 06001
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
 DISTRICT: Grant / Union

Top: Mount Clare
 Btm: West Milford
 QUADRANGLE:
 COUNTY: Harrison
 ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

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: 7,242' TVD
26,929' 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

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H

Page 6 of 11



Detail 5 - Scale: NTS'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
Bottom: West Milford
QUADRANGLE:
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

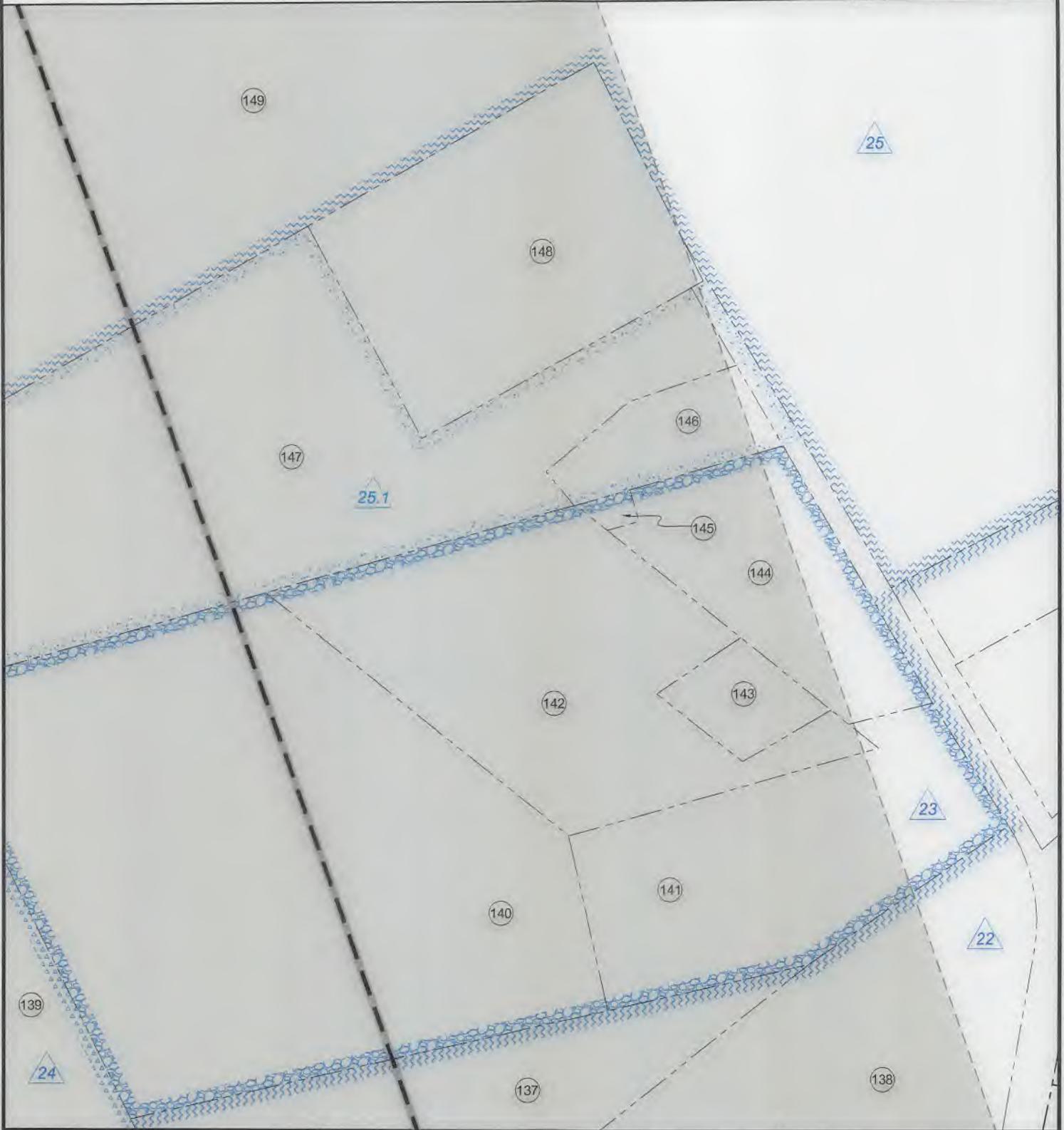
LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: ACREAGE: 78.20

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: 26,929' MD 7,242' TVD

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 7 - Scale: 1" = 500'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

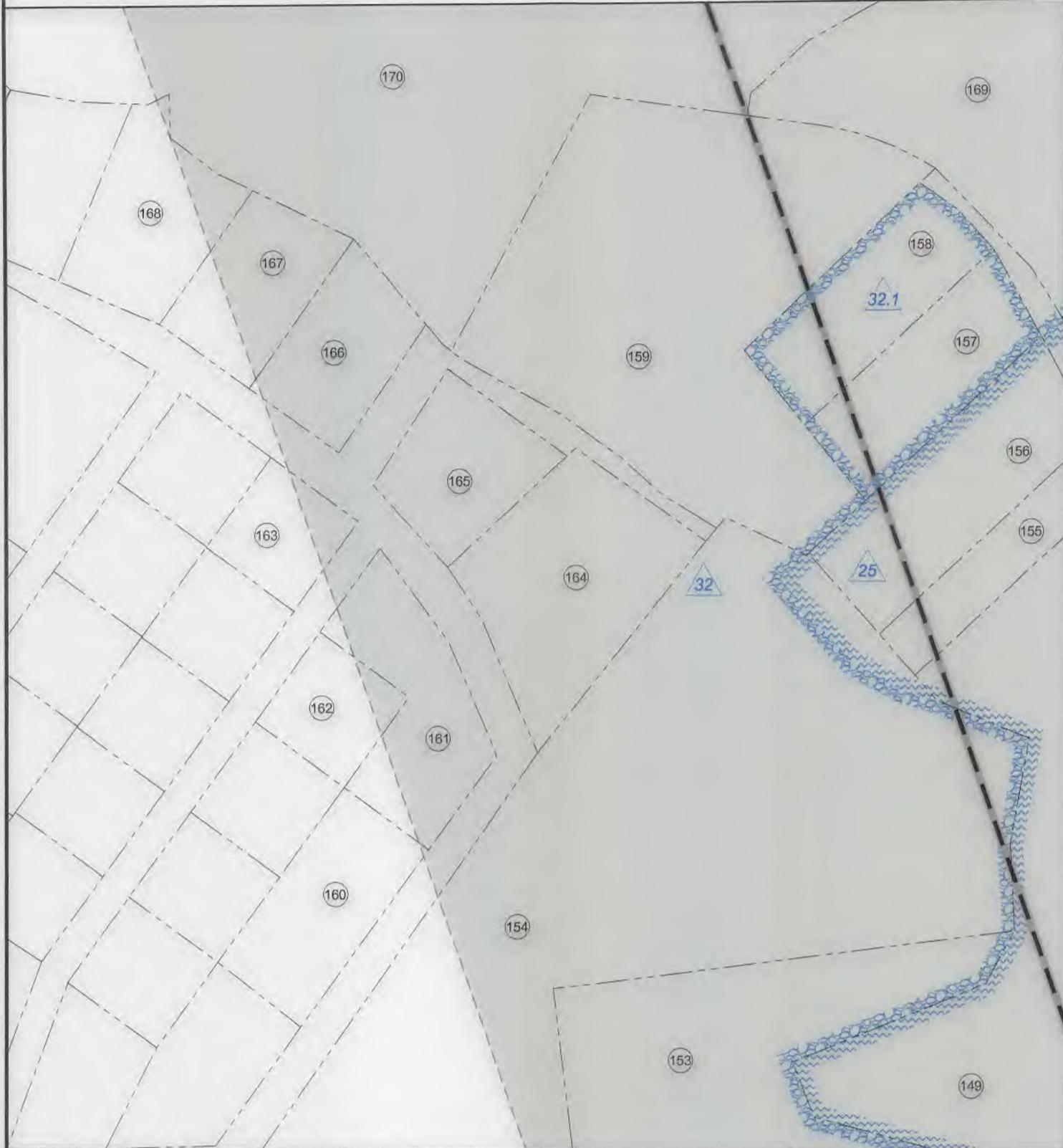
LEASE NO: _____ ACREAGE: 78.20

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: 7,242' TVD 26,929' 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



FILE NO: 32-36-G-19
 DRAWING NO: Schoen 1205 N-1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
Submeter
 PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
 OPERATOR'S WELL NO. Schoen 1205 N-1H
 API WELL NO
47 - 033 - 06001
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek QUADRANGLE: Top: Mount Clare
Btm: West Milford
 DISTRICT: Grant / Union COUNTY: Harrison
 SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.00
 ROYALTY OWNER: Willa Post Robey, et al LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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



No.	TM / Par	Owner	Bk / Pg	Ac.
1	447 / 2	George & Roseanne Schoen	1148 / 1059	65.00
2	446 / 29	John F. McCuskey II, et al	1121 / 25	75.00
3	446 / 28.2	David D. Vanhorn (LE), et al	W177 / 92	42.66
4	446 / 28.4	Bradford Vanhorn	1381 / 1181	1.52
5	446 / 28.5	Robert L. Vanhorn	1352 / 91	1.52
6	446 / 15	Vera E. & Oral K. Haught	1582 / 896	14.40
7	446 / 12	Marilyn Gaines	1192 / 300	2.93
8	446 / 28.1	Andrew Schrader & Melinda Davis	1478 / 252	0.45
9	446 / 28.3	Sharon Willie	1349 / 1253	0.45
10	446 / 28	Larry E. Wilson II	1344 / 1211	0.57
11	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
12	446 / 15.2	Mildred R. Dean	1060 / 270	0.72
13	446 / 13	Kimberly Vanscoy	1306 / 5	0.27
14	446 / 14	Lisa D. Grogg	1583 / 301	0.14
15	446 / 25	Lisa D. Grogg	1583 / 301	0.08
16	446 / 26.1	Robert Mendez Jr.	1435 / 330	0.18
17	446 / 24.5	Lester L. Cook Sr.	1364 / 265	0.21
18	446 / 24.1	Brooke & Lillie Swisher	1432 / 856	0.15
19	446 / 24.4	Brooke & Lillie Swisher	1432 / 856	0.03
20	446 / 24.2	Daniel Frazier (LE)	W165 / 1065	0.20
21	446 / 24.3	Mark & Karen Wilt	1157 / 579	0.58
22	446 / 24	Robert N. Rector (LE)	1621 / 719	82.90
23	446 / 7	James R. & Sharon L. Allman	1437 / 165	91.79
24	446 / 6	Robert N. Rector (LE)	1621 / 719	49.33
25	446 / 5	Kathy D. Bennett	W184 / 51	20.83
26	426 / 76	Ethan Stonko	1622 / 771	7.00
27	426 / 77	Kenneth E. Rigdon	1569 / 903	28.26
28	426 / 64	Eugene Alkire Jr.	1271 / 1183	2.00
29	426 / 66	Michael W. & Robert D. Rector	1621 / 719	41.75
30	426 / 65	G. Thomas Smith	1277 / 1174	29.79
31	426 / 50	G. Thomas Smith	1277 / 1174	66.80
32	426 / 42	Cathleen Spittler (LE), et al	1405 / 449	11.69
33	426 / 42.1	Andrew D. & Sarah N. Spittler	1669 / 645	0.57
34	426 / 43.1	Andrew D. & Sarah N. Spittler	1669 / 645	0.62
35	426 / 44	AL-N-EL Farms, LLC	1623 / 1057	17.73
36	426 / 45	Constance & Gary I. Saunders II	1591 / 100	12.43
37	426 / 40	AL-N-EL Farms, LLC	1623 / 1057	57.97
38	426 / 46	Constance & Gary I. Saunders II	1591 / 100	4.00
39	426 / 47	Constance & Gary I. Saunders II	1591 / 100	1.00
40	426 / 28	Constance & Gary I. Saunders II	1591 / 100	2.32
41	426 / 48	Ruth Odessa Jenkins	W186 / 871	0.26
42	426 / 48.3	Michael L. & Joyce D. Facemire	1598 / 792	0.18
43	426 / 48.2	John E. Messenger	1351 / 206	2.19
44	426 / 31	Mark A. & Janet H. Benincosa	1054 / 401	10.41
45	426 / 29	Daniel R. & Lana M. Messenger	1194 / 1027	1.50
46	426 / 30	Daniel R. & Lana M. Messenger	1151 / 210	0.82
47	426 / 26	David L. Bowles	1518 / 1298	6.05
48	426 / 25	Antonio P., LLC	1503 / 291	14.89
49	426 / 24	Ronald H. & Katherine R. Dever	1436 / 1133	1.76
50	426 / 23	Virginia M. Davisson	1349 / 60	0.62

No.	TM / Par	Owner	Bk / Pg	Ac.
51	426 / 27	Antonio P., LLC	1503 / 291	6.53
52	426 / 31.1	Robert C. Small	W152 / 153	1.00
53	426 / 32	Andrew B. & Angela Banyi	1626 / 1093	0.69
54	2005 / 67	Daniel M. & Nita M. Richards	1619 / 832	0.29
55	2005 / 65	James L. & Margie H. Fultineer	1340 / 1154	0.12
56	2005 / 64	James L. & Margie H. Fultineer	1340 / 1154	0.12
57	2005 / 63	George W. Bennett Jr.	W149 / 468	0.13
58	2005 / 62	George W. Bennett Jr.	W149 / 468	0.14
59	2005 / 68	Wilma L. & George W. Bennett, III	1655 / 43	0.43
60	2005 / 69	Wilma L. & George W. Bennett, III	1169 / 953	0.31
61	2005 / 56	Kathy D. Bennett	1374 / 379	0.11
62	2005 / 61	Kathy D. Bennett	1380 / 737	0.55
63	2005 / 45	Kathy D. Bennett	1281 / 712	0.11
64	2005 / 44	Kathy D. Bennett	1281 / 712	0.11
65	2005 / 43	Kathy D. Bennett	1281 / 712	0.11
66	2005 / 42	Kathy D. Bennett	1281 / 712	0.11
67	2005 / 41	Kathy D. Bennett	1281 / 712	0.11
68	2005 / 40	Kathy D. Bennett	1281 / 712	0.11
69	2005 / 39	Kathy D. Bennett	1281 / 712	0.11
70	2005 / 70	Grant-Union Public Service District	1169 / 953	0.31
71	2005 / 71	Brenda Withers	1374 / 1062	0.32
72	2005 / 33	Brenda R. Withers & Mary V. Hayes	1344 / 136	0.88
73	2005 / 23	Michael A. Wright	1626 / 1172	Lot 30
74	2005 / 22	Michael A. Wright	1626 / 1172	Lot 31
75	2005 / 21	Michael A. Wright	1626 / 1172	Lot 32
76	2005 / 20	Michael A. Wright	1626 / 1172	Lot 33
77	2005 / 19	Michael A. Wright	1626 / 1172	Lot 34
78	2005 / 18	Michael A. Wright	1626 / 1172	Lot 35
79	2005 / 17	Michael A. Wright	1626 / 1172	Lot 36
80	2005 / 16	Michael A. Wright	1626 / 1172	Lot 37
81	2005 / 5	Michael A. Wright (Lots 30-44)	1626 / 1172	2.47
82	2005 / 6	Michael A. Wright	1626 / 1172	Lot 44
83	2005 / 7	Michael A. Wright	1626 / 1172	Lot 43
84	2005 / 8	Michael A. Wright	1626 / 1172	Lot 42
85	2005 / 9	Michael A. Wright	1626 / 1172	Lot 41
86	2005 / 10	Michael A. Wright	1626 / 1172	Lot 40
87	2005 / 11	Michael A. Wright	1626 / 1172	Lot 39
88	2005 / 12	Mary A. Wright, et al	1329 / 924	Lot 38
89	2015 / 70	Joe A. Abraham	1618 / 1296	0.28
90	2015 / 69	Daniel Cusick	1580 / 854	0.24
91	2015 / 72	Debra D. Carpenter & Sarah L. Jones	1631 / 386	0.26
92	2015 / 71	WV Housing Development Fund	1290 / 995	0.26
93	426 / 34.1	Jacob D. & Nancy L. Post	1023 / 150	9.27
94	426 / 20	Grafton Coal Company	1016 / 223	6.00
95	2015 / 73	Timothy S. Cole	1399 / 1046	0.24
96	2015 / 74	WV Housing Development Fund	1290 / 995	0.24
97	2015 / 75	WV Housing Development Fund	1290 / 995	0.24
98	2015 / 76	WV Housing Development Fund	1290 / 995	0.11
99	2015 / 77	Andrew R. & Cheryl A. Colombo	1320 / 873	0.25
100	2015 / 78	Quintin J. Moore & Lora K. Varner	1602 / 451	0.28

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek

QUADRANGLE: Top: Mount Clare
Btm: West Milford

DISTRICT: Grant / Union

COUNTY: Harrison

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

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.
101	2015 / 79	William R. Reed Jr.	1403 / 601	0.33
102	2015 / 80	Thomas M. Tice & Michelle L. Liptak	1319 / 1062	0.36
103	2015 / 81	Jesse D. Garrett	1403 / 1133	0.29
104	2015 / 82	John & Mary R. Miller	1397 / 1177	0.22
105	2015 / 83	John & Mary R. Miller	1397 / 1177	0.20
106	2015 / 39	John & Mary R. Miller	1310 / 1206	0.25
107	2015 / 87	Kelly J. Morrison	1308 / 708	0.27
108	2015 / 86	Andrew T. & Jenna L. Richman	1658 / 100	0.24
109	2015 / 85	Ericka A. Aversa	1615 / 475	0.21
110	2015 / 84	James & Meagan K. Johnson	1499 / 665	0.27
111	2015 / 37	Yancy Weaver & Kim Moschella	1482 / 396	0.26
112	2015 / 35	Christopher C. Brooks	1450 / 235	0.24
113	2005 / 55	Gale L. & Melissa A. Zickefoose	1475 / 318	0.12
114	2005 / 54	Flossie B. Cogis	1247 / 10	0.08
115	2005 / 53	Flossie B. Cogis	1247 / 10	0.17
116	2005 / 52	Timothy H. Bennett	1398 / 1065	0.05
117	2005 / 51	Timothy H. Bennett	1398 / 1065	0.17
118	2005 / 38	Timothy H. Bennett	1398 / 1065	0.09
119	2005 / 26	Timothy H. Bennett	1398 / 1065	0.00
120	2005 / 27	Timothy H. Bennett	1398 / 1065	0.06
121	2005 / 15	Timothy H. Bennett	1398 / 1065	0.11
122	2005 / 3	Timothy H. Bennett	1398 / 1065	0.10
123	2005 / 4	Timothy H. Bennett	1082 / 69	0.16
124	2005 / 2	Timothy H. Bennett	1398 / 1065	0.11
125	2005 / 14	Timothy H. Bennett	1398 / 1065	0.12
126	2005 / 25	Timothy H. Bennett	1398 / 1065	0.12
127	2005 / 37	Timothy H. Bennett	1398 / 1065	0.12
128	2005 / 49	Amanda D. Lewis & James A. Newman	1602 / 1229	0.15
129	2005 / 50	Mary L. Smith, et al	W177 / 1179	48 SF
130	2005 / 46	Flossie B. Cogis	W175 / 144	0.17
131	2005 / 48	Donald J. & Shelly A. Cavalier	1673 / 24	0.12
132	2005 / 36	Robert M. Tangari	1193 / 686	0.40
133	2005 / 24	Robert M. Tangari	1193 / 686	0.10
134	2005 / 13	Robert M. Tangari	1193 / 686	0.09
135	2005 / 1	Robert M. Tangari	1193 / 686	0.08
136	426 / 34.4	Grant-Union Public Service District	1170 / 132	0.03
137	426 / 10	Judith A. Eaton	1400 / 929	2.73
138	426 / 11	Nancy Sue Greaver	1231 / 836	2.00
139	426 / 8	Antonio P. LLC	1503 / 291	19.00
140	426 / 9.1	Rose Belle	1609 / 568	4.30

No.	TM / Par	Owner	Bk / Pg	Ac.
141	426 / 9	Juliet Rose Belle	1603 / 338	1.38
142	406 / 36.1	Walter D. Snider & Rebecca A. Kayser	1346 / 961	1.74
143	406 / 36.2	Eugene Ray Messer	1619 / 210	0.21
144	406 / 36	Jacob & Nancy Post	1045 / 273	0.90
145	406 / 36.3	Grant-Union Public Service District	1164 / 952	0.03
146	406 / 37.1	Danielle Davisson & Robert Radabaugh	1515 / 979	0.32
147	406 / 37	Gregory & Jaqueline Abraham	1301 / 236	3.54
148	406 / 38	Judith Hayhurst	935 / 9	1.45
149	406 / 24	Clarence Howe Woodford II, et ux	W163/1145	160.49
150	426 / 8	Antonio P., LLC	1503 / 291	19.00
151	406 / 31	Antonio P., LLC	1503 / 291	14.65
152	406 / 21.5	Monongahela Power Co.	1083 / 210	0.45
153	406 / 21.4	Monongahela Power Co.	1083 / 210	2.76
154	406 / 21.1	Terry L. & Cathy D. Williams	1662 / 1294	9.66
155	406 / 24.2	Steven & Shanna Bolyard	1558 / 892	0.32
156	406 / 24.1	Steven & Shanna Bolyard	1558 / 892	0.72
157	406 / 22	David L. Scranage & Eva L. Scranage	952 / 204	0.38
158	406 / 22.1	David L. Scranage & Eva L. Scranage	912 / 274	0.46
159	406 / 21.7	Eva L. Scranage	1427 / 565	2.26
160	406A / 33	James & Megan Kennedy	1594 / 1121	0.43
161	406A / 21	James S. Skinner	1559 / 1053	0.47
162	406A / 22	James S. Skinner	1515 / 519	0.23
163	406A / 5	Jerry Hughes	1095 / 649	0.23
164	406A / 35	Harley R. & Linda L. Coberly	1229 / 315	0.79
165	406A / 20	Stephen & Shiela Nelson	1266 / 1097	0.36
166	406A / 1	Ernie & Linda Morgan	1266 / 35	0.35
167	406A / 2	Ernie & Linda Morgan	1266 / 35	0.35
168	406A / 3	David & Nancy Nester	1079 / 620	0.44
169	406 / 21	Robert K. Lowther	1427 / 565	17.44
170	406 / 21.8	Brian K. & Jayme E. Lowther	1506 / 806	49.53
171	406 / 21.9	Brian K. & Jayme E. Lowther	1652 / 85	6.03
172	406 / 8	Robert J. Stenger	1621 / 54	166.25
173	406 / 7.15	Michael L. & C. Vanessa Bond	1393 / 1095	4.27
174	406 / 7.13	Michael L. & C. Vanessa Bond	1368 / 579	4.26
175	406 / 6	Richard K. Williams	1344 / 966	40.12
176	406 / 9	John L. & Mary E. Stenger	1580 / 204	309.00
177	386 / 108	John L. Stenger	1309 / 666	7.44

FILE NO: 32-36-G-19	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE: November 24 2020
DRAWING NO: Schoen 1205 N-1H Well Plat		OPERATOR'S WELL NO. Schoen 1205 N-1H
SCALE: 1" = 2000'		API WELL NO
MINIMUM DEGREE OF ACCURACY: Submeter		47 - 033 - 06001
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV		STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek QUADRANGLE: Top: Mount Clare Btm: West Milford
 DISTRICT: Grant / Union COUNTY: Harrison
 SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.00
 ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

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

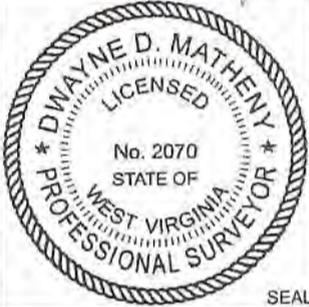
HG Energy II Appalachia, LLC
Well No. Schoen 1205 N-1H



Page 1 of 11

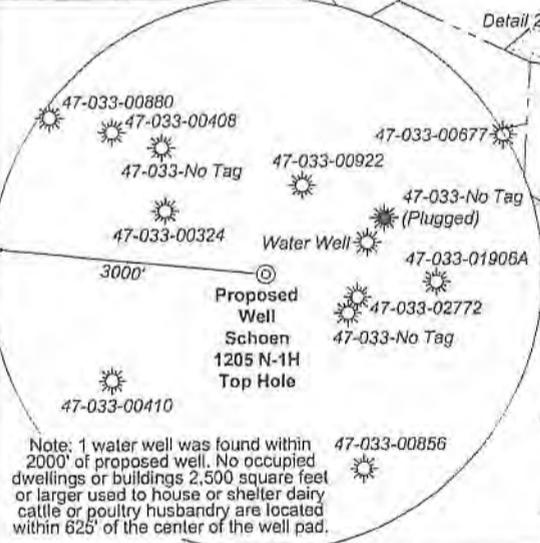
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny, P.S. 2070



SEAL

GRID NORTH



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 0001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford

SURFACE OWNER: George & Rosanne Schoen

COUNTY: Harrison

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: ACREAGE: 65.00

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

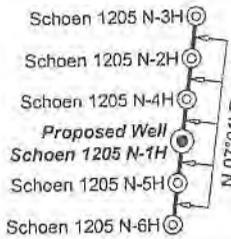
PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

WELL OPERATOR: HG Energy II Appalachia, LLC
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

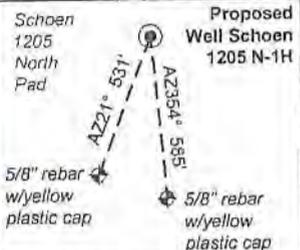
DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

2,344' to Bottom Hole
5,326' to Top Hole
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00
TOP LONGITUDE 80 - 20 - 00
BTM LONGITUDE 80 - 22 - 30
5,249' to Top Hole
3,872' to Bottom Hole

Wellhead Layout (NTS)



Well Location References Not to Scale



Tag	Bearing	Dist.
L1	N 55°27' W	1,098.8'
L2	S 78°19' W	1,198.7'
L3	S 70°16' E	1,193.2'
L4	S 82°57' E	1,492.8'
L5	S 76°45' W	2,957.9'

JAN 06 2021

Office of Oil and Gas

PROVEN

Department of Environmental Protection

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H



Page 2 of 11

Notes:
Well No. Schoen 1205 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,746.26'
E: 1,824,133.72'
Landing Point Coordinates
N: 14,218,068.60'
E: 1,821,254.50'
Bottom Hole Coordinates
N: 14,235,231.92'
E: 1,815,189.61'

Notes:
Well No. Schoen 1205 N-1H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'08.10" Latitude: 39°11'51.72"
Longitude: 80°21'07.63" Longitude: 80°22'59.78"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,882.528m N: 4,338,907.367m
E: 555,997.069m E: 553,270.900m
Plat orientation and corner and well references are
based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

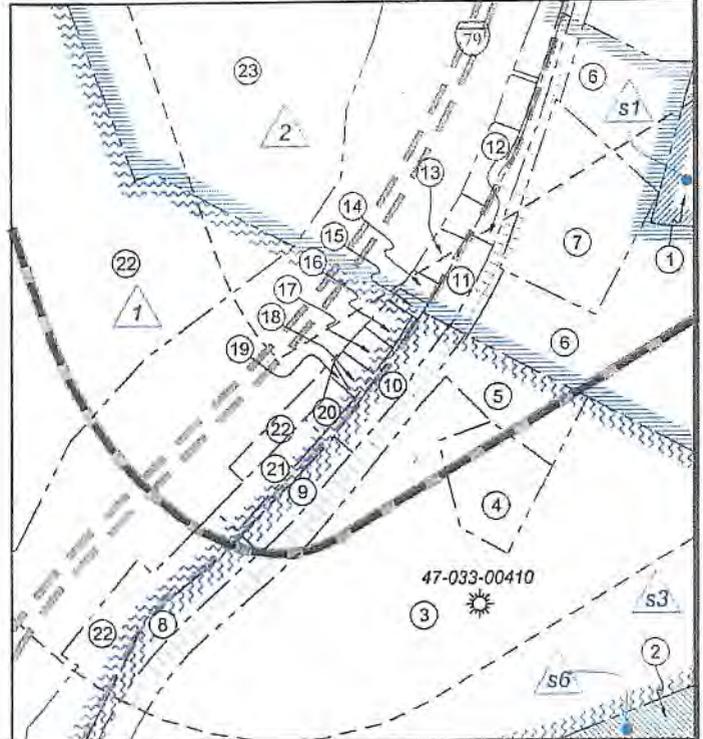
Legend

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

ID	Lease
s1	A.B. Post, et al
s3	Emma A. Waggoner, et al
s4	Charlotte C. Gerlach, et al
s6	Susan V. Curry, et al
1	J.N. Rector, et al
2	Marcella R. Bond, et vir, et al
3	S.J. Davisson
6	Lillie D. Gifford, et al
7	J.C. McWhorter, et al
8	Mary E. Kennedy, et al
13	Charles R. Sutton, et al
14	Alton Bell
16	Martha Davis, et vir, et al
17	Lillie Gifford, et al
17.1	Lillie Gifford, et al
18	Georgia A. Barnes
19	Georgia A. Barnes
21	A.W. Smith
21.1	Richard R. Bond
21.2	Nillie Jo Brissey
22	Frank Swisher, et al
23	J.O. Butcher, et ux
24	H.D. Smith, et ux, et al
25	C.H. Woodford, et ux, et al
25.1	Gregory A. Abraham, et ux
30	Frank Sinclair, et al
31	Luan B. Vinson, et al
32	Porter Maxwell, et ux, et al
32.1	David L. Scranage, et ux
34	I. Wilson & Edna M. Swisher
37	W.B. Van Horn, et ux
38	Locie C. Stout, et al
43	Hattie B. Cummins

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Environmental Protection

Detail 1 - Scale: 1" = 500'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 04001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

WELL OPERATOR: HG Energy II Appalachia, LLC
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

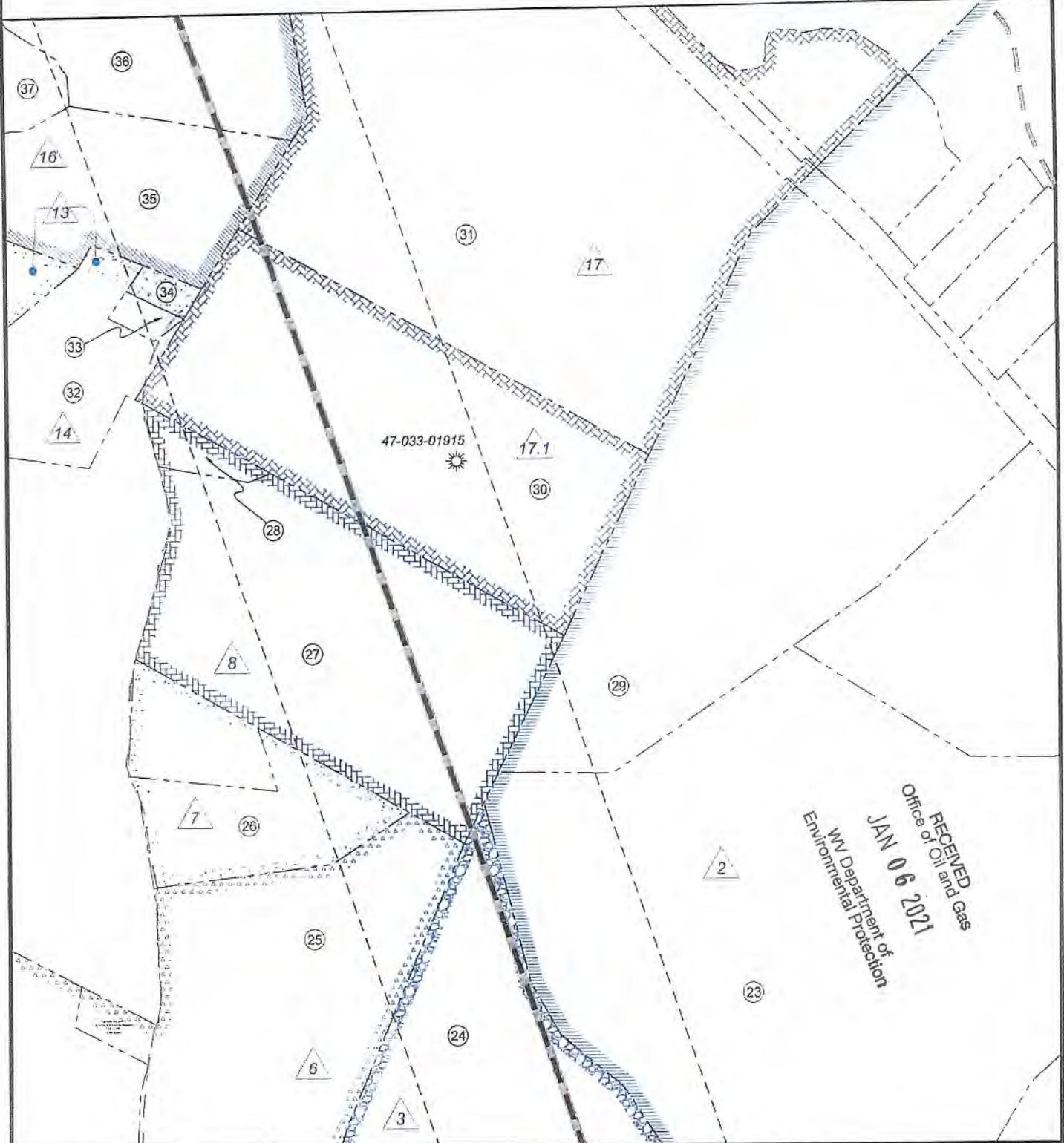
DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H

Page 3 of 11



Detail 2 - Scale: 1" = 500'



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Environmental Protection

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
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ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen
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LEASE NO: ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H



Page 1 of 11

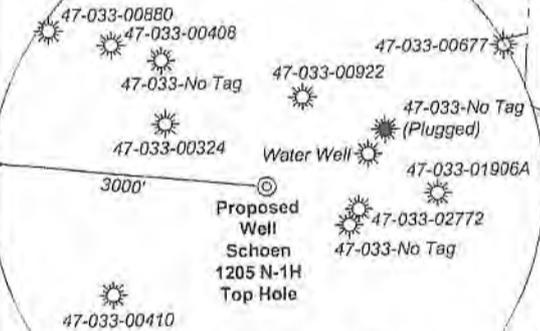
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny, P.S. 2070



SEAL

GRID NORTH



Note: 1 water well was found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 0600
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

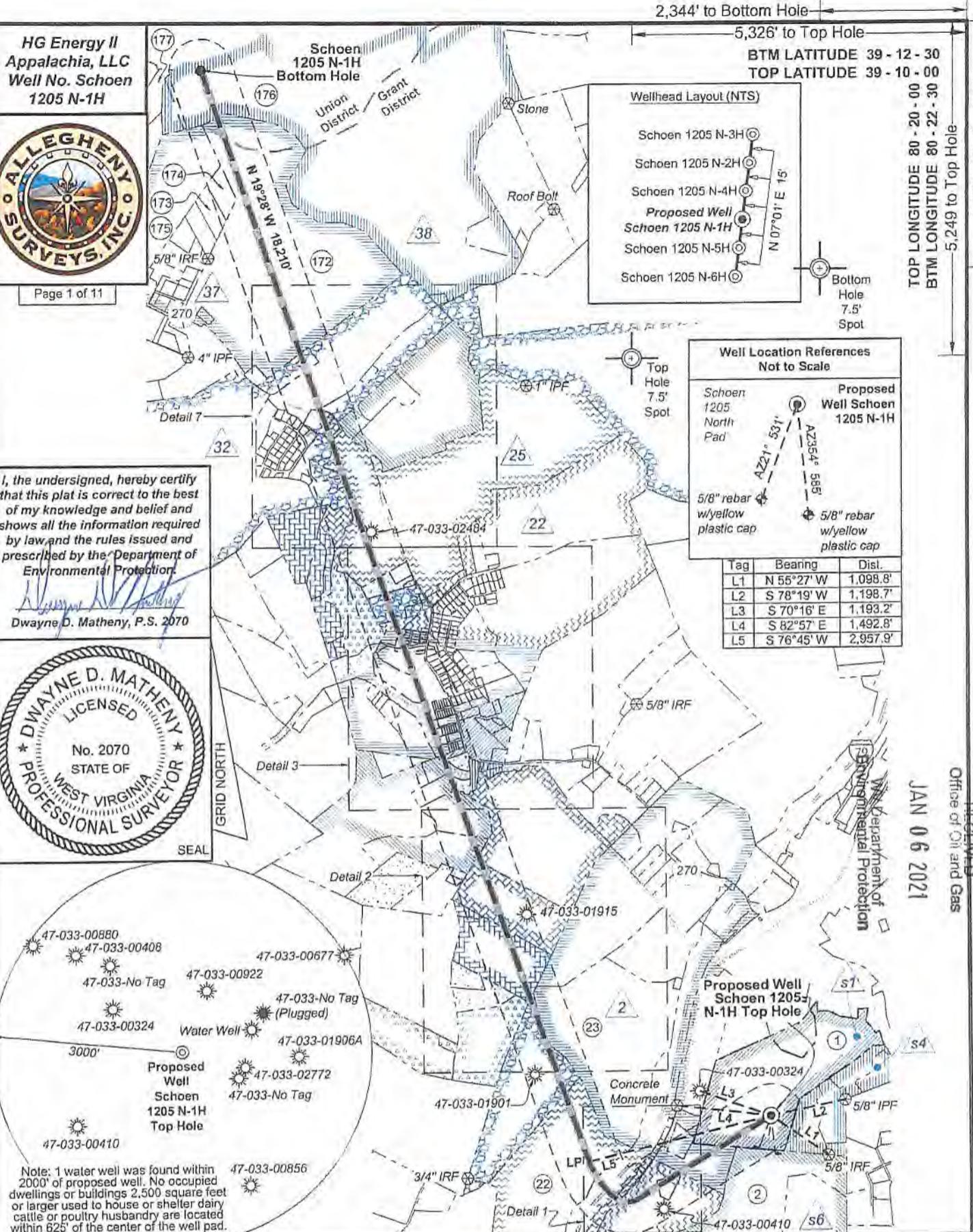
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

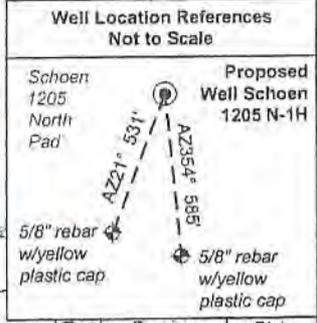
WELL OPERATOR: HG Energy II Appalachia, LLC
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00
LEASE NO: _____ ACREAGE: 78.20
ESTIMATED DEPTH: 7,242' TVD



2,344' to Bottom Hole
5,326' to Top Hole
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00
TOP LONGITUDE 80 - 20 - 00
BTM LONGITUDE 80 - 22 - 30
5,249' to Top Hole
3,872' to Bottom Hole



Tag	Bearing	Dist.
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L4	S 82°57' E	1,492.8'
L5	S 76°45' W	2,957.9'

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Notes:
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UTM NAD 1983 (USSF)
Top Hole Coordinates
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Landing Point Coordinates
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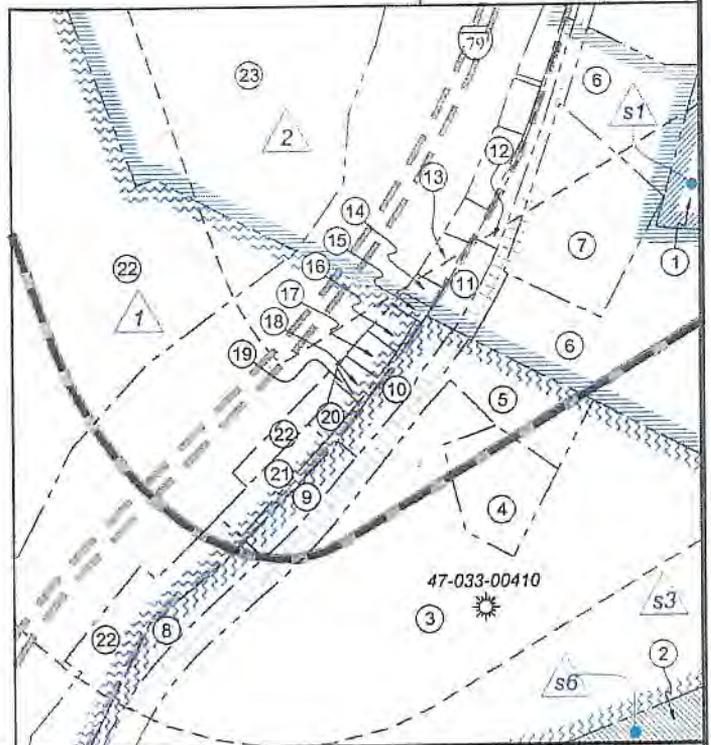
Notes:
Well No. Schoen 1205 N-1H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'08.10" Latitude: 39°11'51.72"
Longitude: 80°21'07.63" Longitude: 80°22'59.78"
UTM Zone 17, NAD 1983
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E: 555,997.069m E: 553,270.900m
Plat orientation and corner and well references are
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Well location references are based upon the magnetic
meridian.

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30	Frank Sinclair, et al
31	Luan B. Vinson, et al
32	Porter Maxwell, et ux, et al
32.1	David L. Scranage, et ux
34	I. Wilson & Edna M. Swisher
37	W.B. Van Horn, et ux
38	Locie C. Stout, et al
43	Hattie B. Cummins

Legend

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

Detail 1 - Scale: 1" = 500'



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FILE NO: 32-36-G-19
 DRAWING NO: Schoen 1205 N-1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 CORS, Bridgeport, WV

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

DATE: November 24 2020
 OPERATOR'S WELL NO. Schoen 1205 N-1H
 API WELL NO
 47 - 033 - 04001
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek QUADRANGLE: Top: Mount Clare
 DISTRICT: Grant / Union COUNTY: Harrison Btm: West Milford

SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.00
 ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

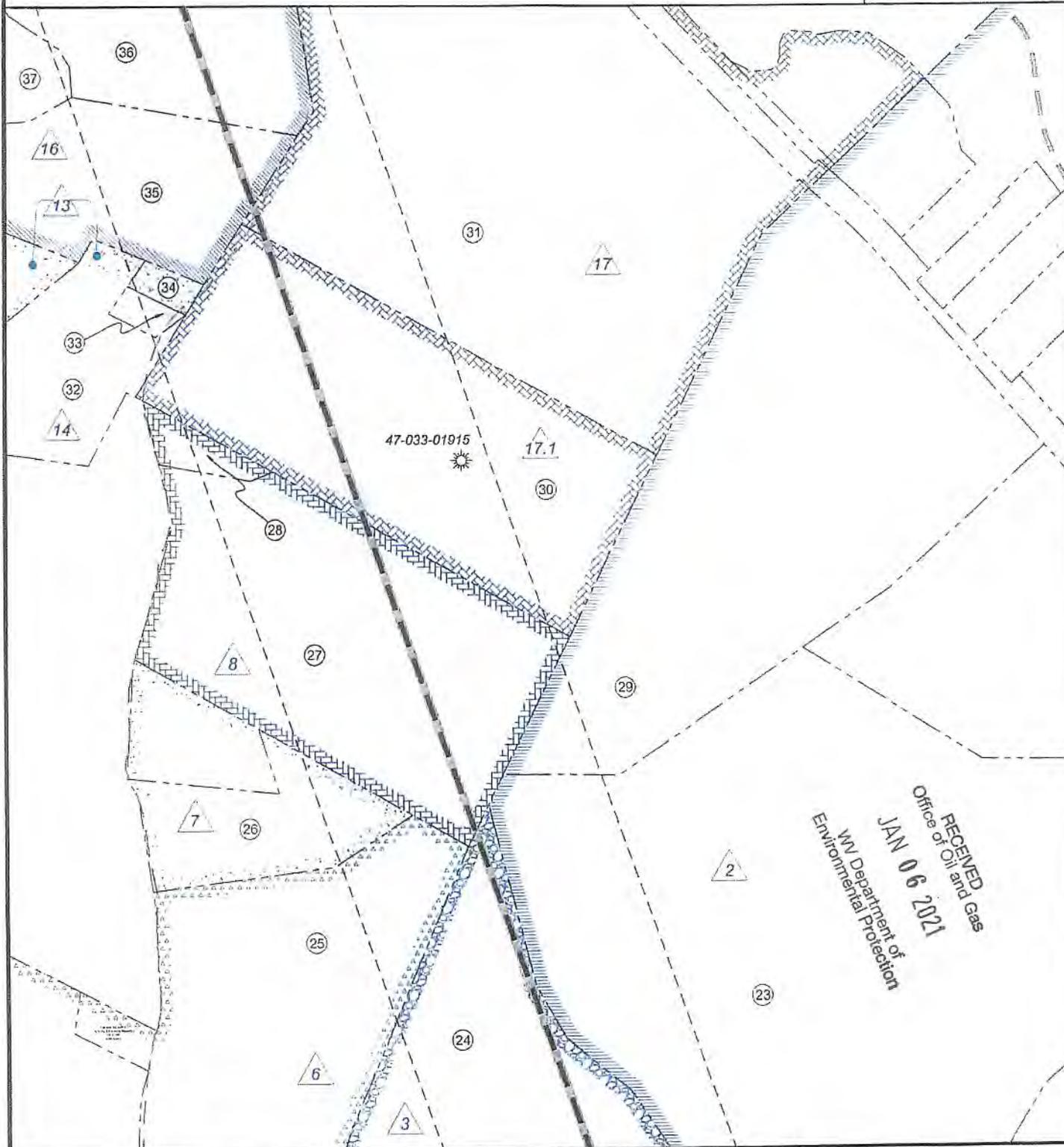
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
 ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
 Parkersburg, WV 26101 Parkersburg, WV 26101

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H

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Detail 2 - Scale: 1" = 500'



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Environmental Protection

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H

Page 4 of 11

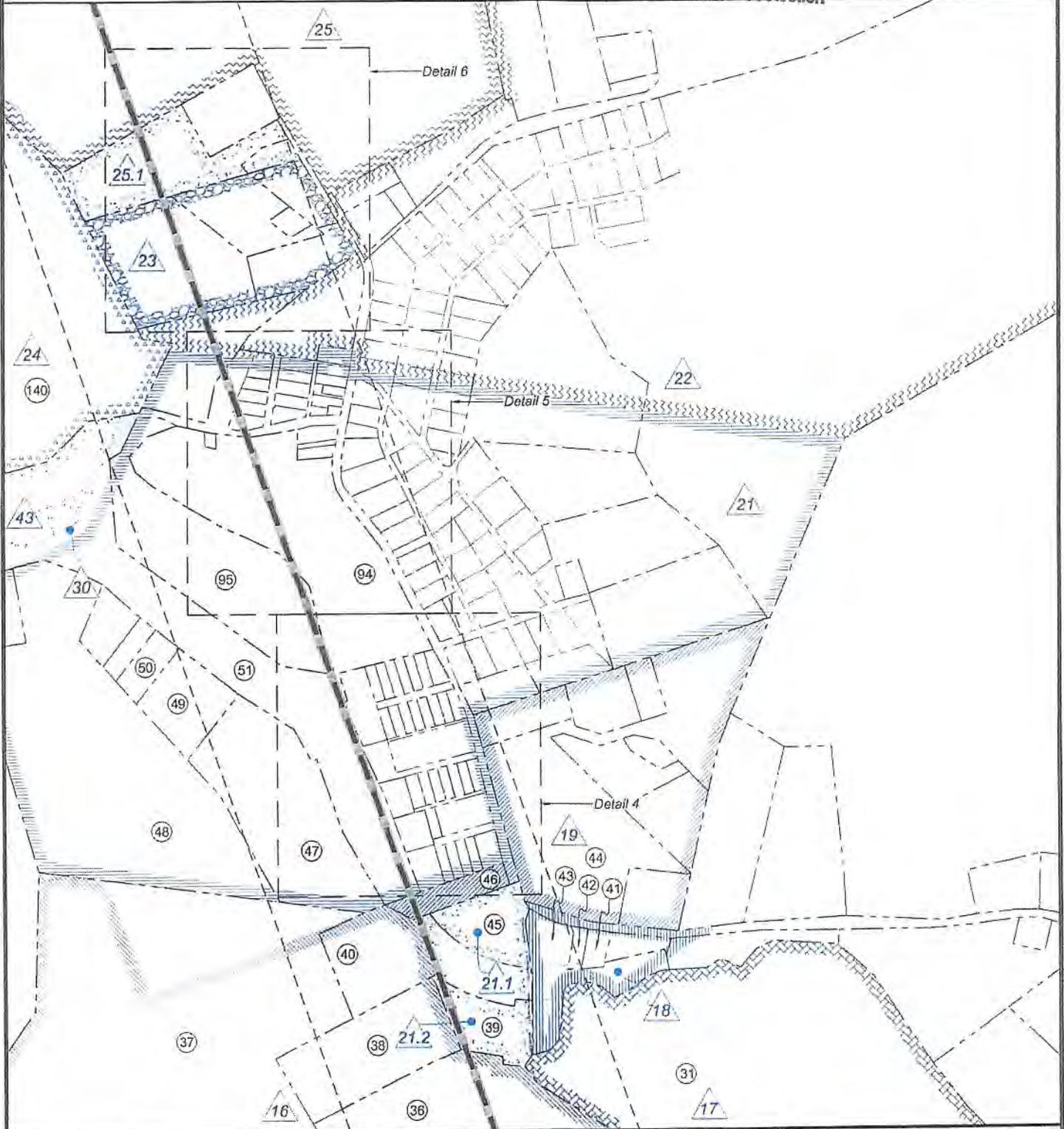
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Environmental Protection
Department of
Environmental Protection



Detail 3 - Scale: 1" = 500'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 02001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek

DISTRICT: Grant / Union

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H

Page 5 of 11

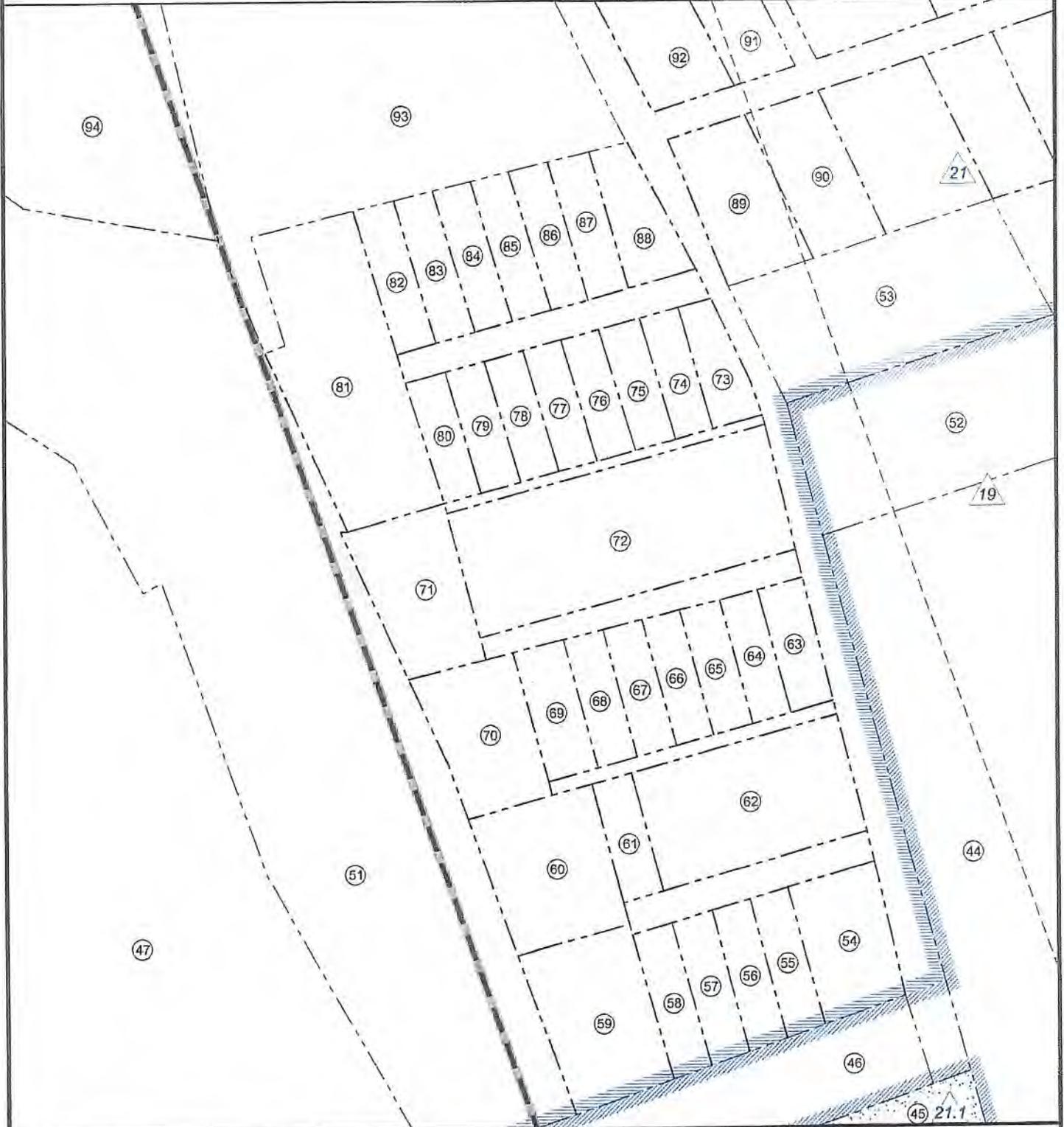
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WV Department of
Environmental Protection



Detail 4 - Scale: NTS'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek

DISTRICT: Grant / Union

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

ACREAGE: 78.20

WELL OPERATOR: HG Energy II Appalachia, LLC
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road
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HG Energy II
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Well No. Schoen
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Page 6 of 11

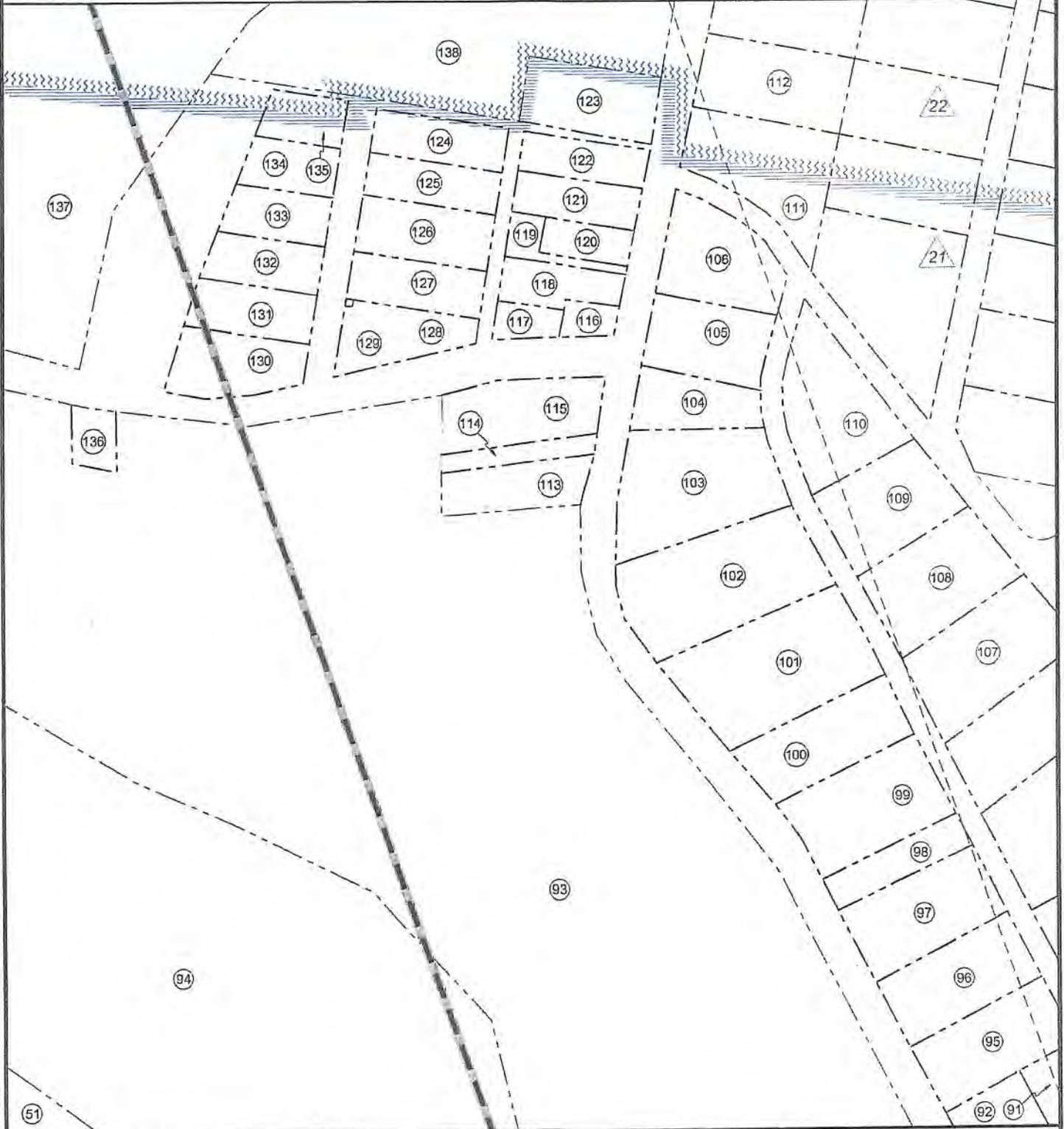
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JAN 06 2021

WV Department of
Environmental Protection



Detail 5 - Scale: NTS'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford

SURFACE OWNER: George & Rosanne Schoen

COUNTY: Harrison

ROYALTY OWNER: Willa Post Robey, et al

ACREAGE: 65.00

LEASE NO: ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H

Page 7 of 11

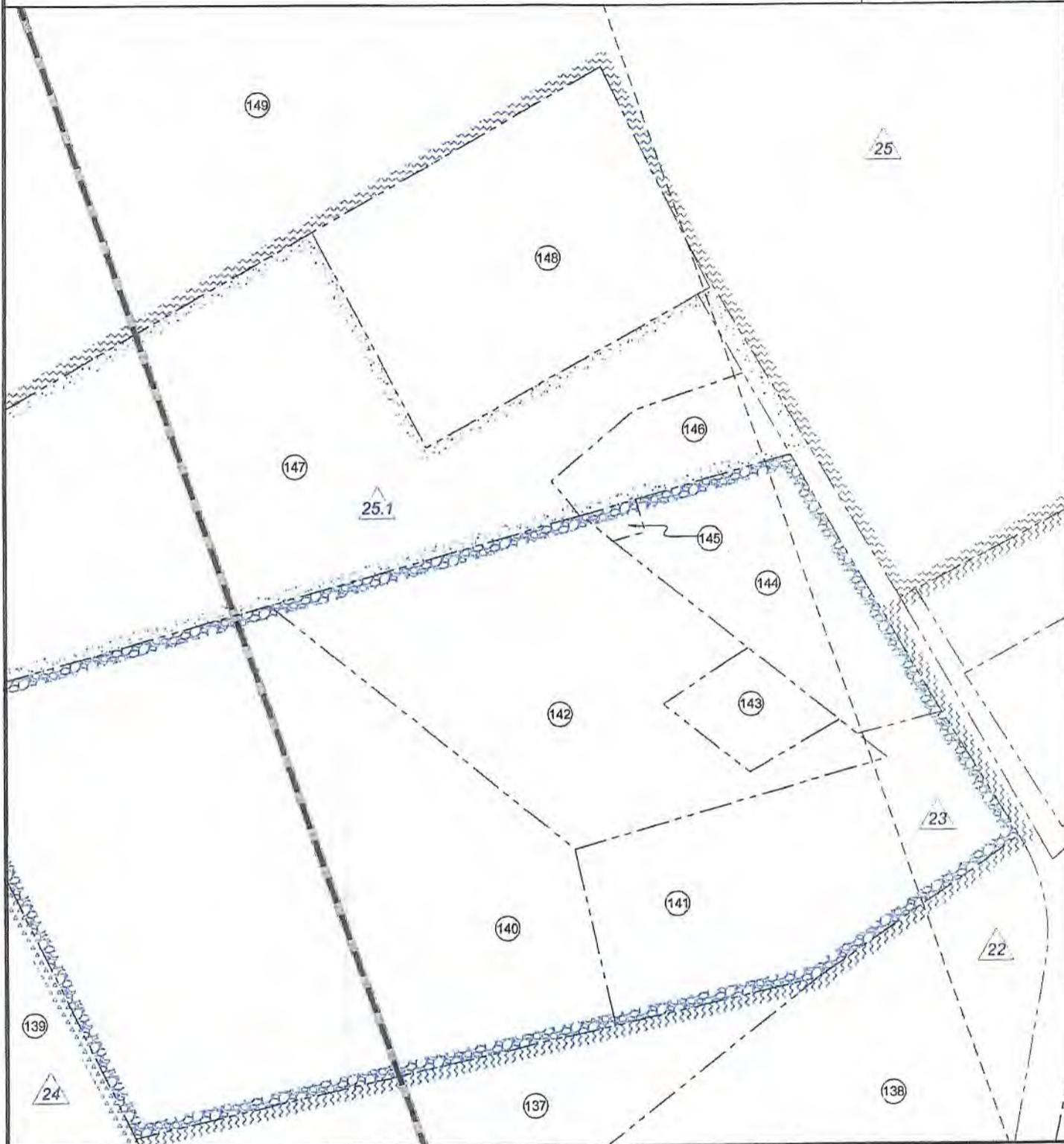
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Office of Oil and Gas

JAN 06 2021

WV Department of
Environmental Protection



Detail 6 - Scale: NTS'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Millford
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20

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: 7,242' TVD
26,929' MD

WELL OPERATOR: HG Energy II Appalachia, LLC
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White
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HG Energy II
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1205 N-1H

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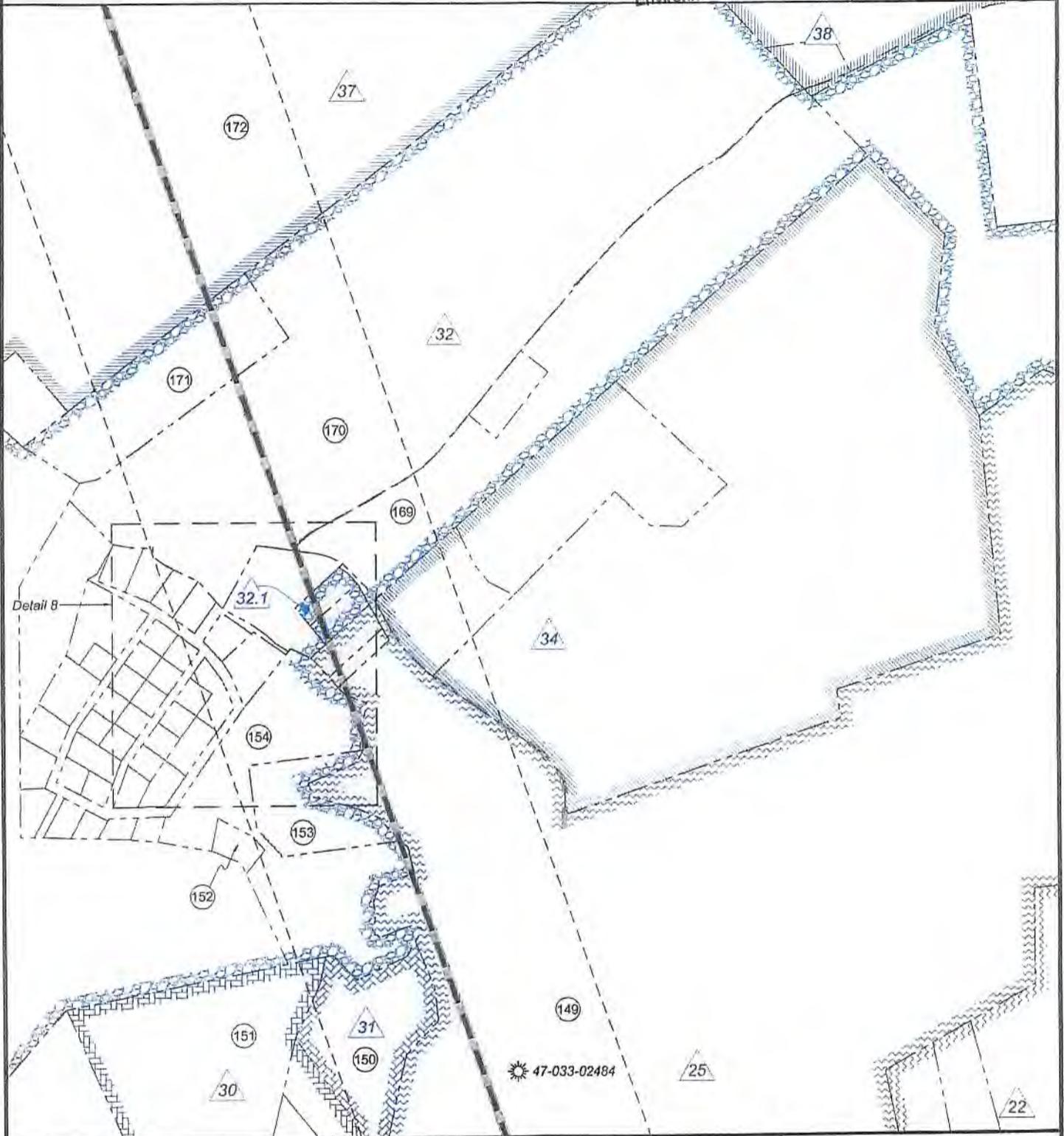
RECEIVED
Office of Oil and Gas

JAN 06 2021



WV Department of
Environmental Protection

Detail 7 - Scale: 1" = 500'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford

SURFACE OWNER: George & Rosanne Schoen

COUNTY: Harrison

ROYALTY OWNER: Willa Post Robey, et al

ACREAGE: 65.00

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101

HG Energy II
Appalachia, LLC
Well No. Schoen
1205 N-1H

Page 9 of 11

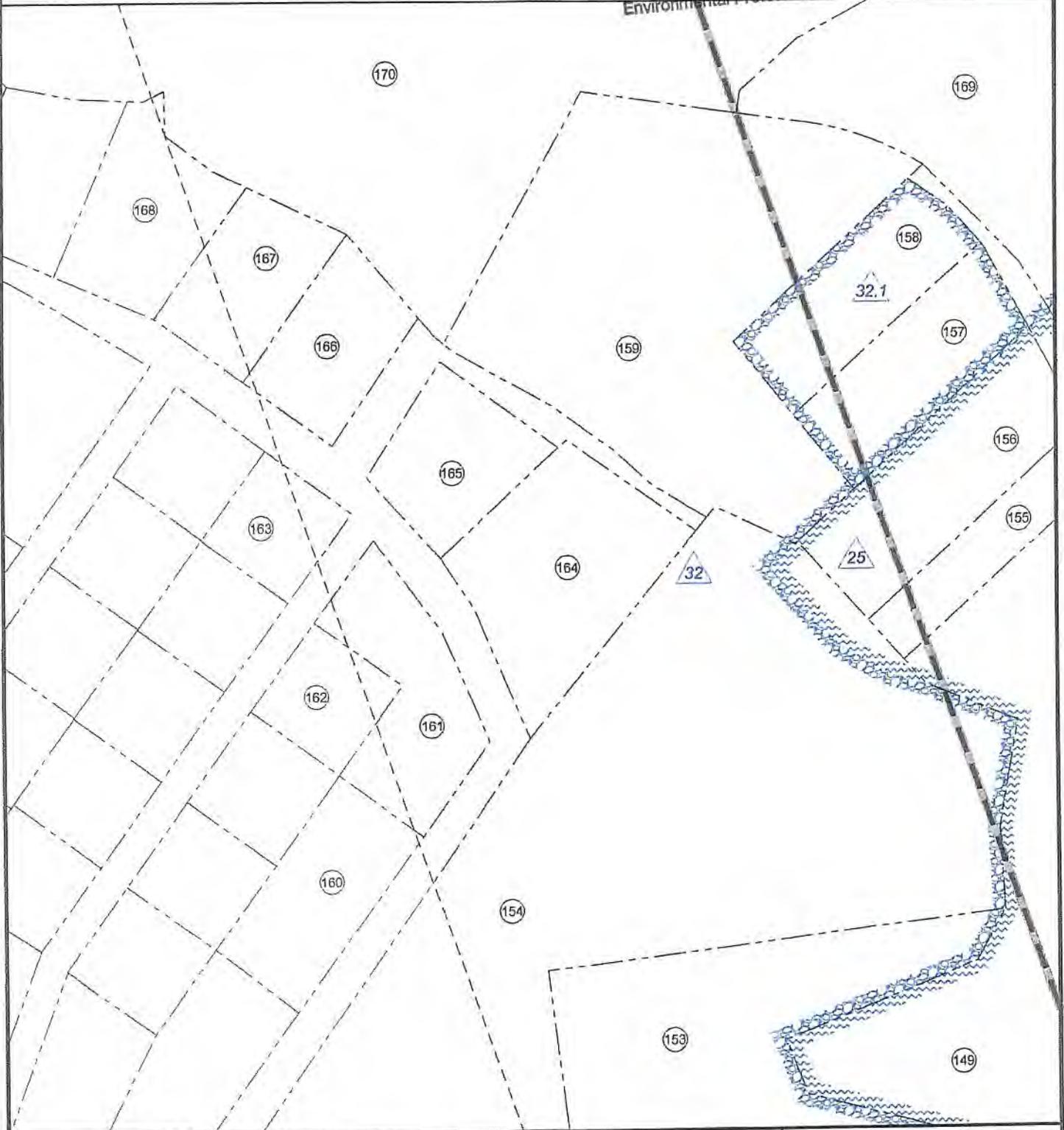
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JAN 06 2021



WV Department of
Environmental Protection

Detail 8 - Scale: NTS'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
Btm: West Milford
QUADRANGLE:
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,242' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,929' 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

JAN 06 2021

WV Department of
Environmental Protection



No.	TM / Par	Owner	Bk / Pg	Ac.
1	447 / 2	George & Roseanne Schoen	1148 / 1059	65.00
2	446 / 29	John F. McCuskey II, et al	1121 / 25	75.00
3	446 / 28.2	David D. Vanhorn (LE), et al	W177 / 92	42.66
4	446 / 28.4	Bradford Vanhom	1381 / 1181	1.52
5	446 / 28.5	Robert L. Vanhorn	1352 / 91	1.52
6	446 / 15	Vera E. & Oral K. Haught	1582 / 896	14.40
7	446 / 12	Marilyn Gaines	1192 / 300	2.93
8	446 / 28.1	Andrew Schrader & Melinda Davis	1478 / 252	0.45
9	446 / 28.3	Sharon Willie	1349 / 1253	0.45
10	446 / 28	Larry E. Wilson II	1344 / 1211	0.57
11	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
12	446 / 15.2	Mildred R. Dean	1060 / 270	0.72
13	446 / 13	Kimberly Vanscoy	1306 / 5	0.27
14	446 / 14	Lisa D. Grogg	1583 / 301	0.14
15	446 / 25	Lisa D. Grogg	1583 / 301	0.08
16	446 / 26.1	Robert Mendez Jr.	1435 / 330	0.18
17	446 / 24.5	Lester L. Cook Sr.	1364 / 265	0.21
18	446 / 24.1	Brooke & Lillie Swisher	1432 / 856	0.15
19	446 / 24.4	Brooke & Lillie Swisher	1432 / 856	0.03
20	446 / 24.2	Daniel Frazier (LE)	W165 / 1065	0.20
21	446 / 24.3	Mark & Karen Wilt	1157 / 579	0.58
22	446 / 24	Robert N. Rector (LE)	1621 / 719	82.90
23	446 / 7	James R. & Sharon L. Allman	1437 / 165	91.79
24	446 / 6	Robert N. Rector (LE)	1621 / 719	49.33
25	446 / 5	Kathy D. Bennett	W184 / 51	20.83
26	426 / 76	Ethan Stonko	1622 / 771	7.00
27	426 / 77	Kenneth E. Rigdon	1569 / 903	28.26
28	426 / 64	Eugene Alkire Jr.	1271 / 1183	2.00
29	426 / 66	Michael W. & Robert D. Rector	1621 / 719	41.75
30	426 / 65	G. Thomas Smith	1277 / 1174	29.79
31	426 / 50	G. Thomas Smith	1277 / 1174	66.80
32	426 / 42	Cathleen Spiller (LE), et al	1405 / 449	11.69
33	426 / 42.1	Andrew D. & Sarah N. Spiller	1669 / 645	0.57
34	426 / 43.1	Andrew D. & Sarah N. Spiller	1669 / 645	0.62
35	426 / 44	AL-N-EL Farms, LLC	1623 / 1057	17.73
36	426 / 45	Constance & Gary I. Saunders II	1591 / 100	12.43
37	426 / 40	AL-N-EL Farms, LLC	1623 / 1057	57.97
38	426 / 46	Constance & Gary I. Saunders II	1591 / 100	4.00
39	426 / 47	Constance & Gary I. Saunders II	1591 / 100	1.00
40	426 / 28	Constance & Gary I. Saunders II	1591 / 100	2.32
41	426 / 48	Ruth Odessa Jenkins	W186 / 871	0.26
42	426 / 48.3	Michael L. & Joyce D. Facemire	1598 / 792	0.18
43	426 / 48.2	John E. Messenger	1351 / 206	2.19
44	426 / 31	Mark A. & Janet H. Benincosa	1054 / 401	10.41
45	426 / 29	Daniel R. & Lana M. Messenger	1194 / 1027	1.50
46	426 / 30	Daniel R. & Lana M. Messenger	1151 / 210	0.82
47	426 / 26	David L. Bowles	1518 / 1298	6.05
48	426 / 25	Antonio P., LLC	1503 / 291	14.89
49	426 / 24	Ronald H. & Katherine R. Dever	1436 / 1133	1.76
50	426 / 23	Virginia M. Davisson	1349 / 60	0.62

No.	TM / Par	Owner	Bk / Pg	Ac.
51	426 / 27	Antonio P., LLC	1503 / 291	6.53
52	426 / 31.1	Robert C. Small	W152 / 153	1.00
53	426 / 32	Andrew B. & Angela Banyl	1626 / 1093	0.69
54	2005 / 67	Daniel M. & Nita M. Richards	1619 / 832	0.29
55	2005 / 65	James L. & Margie H. Fullineer	1340 / 1154	0.12
56	2005 / 64	James L. & Margie H. Fullineer	1340 / 1154	0.12
57	2005 / 63	George W. Bennett Jr.	W149 / 468	0.13
58	2005 / 62	George W. Bennett Jr.	W149 / 468	0.14
59	2005 / 68	Wilma L. & George W. Bennett, III	1655 / 43	0.43
60	2005 / 69	Wilma L. & George W. Bennett, III	1169 / 953	0.31
61	2005 / 56	Kathy D. Bennett	1374 / 379	0.11
62	2005 / 61	Kathy D. Bennett	1380 / 737	0.55
63	2005 / 45	Kathy D. Bennett	1281 / 712	0.11
64	2005 / 44	Kathy D. Bennett	1281 / 712	0.11
65	2005 / 43	Kathy D. Bennett	1281 / 712	0.11
66	2005 / 42	Kathy D. Bennett	1281 / 712	0.11
67	2005 / 41	Kathy D. Bennett	1281 / 712	0.11
68	2005 / 40	Kathy D. Bennett	1281 / 712	0.11
69	2005 / 39	Kathy D. Bennett	1281 / 712	0.11
70	2005 / 70	Grant-Union Public Service District	1168 / 953	0.31
71	2005 / 71	Brenda Withers	1374 / 1062	0.32
72	2005 / 33	Brenda R. Withers & Mary V. Hayes	1344 / 136	0.88
73	2005 / 23	Michael A. Wright	1626 / 1172	Lot 30
74	2005 / 22	Michael A. Wright	1626 / 1172	Lot 31
75	2005 / 21	Michael A. Wright	1626 / 1172	Lot 32
76	2005 / 20	Michael A. Wright	1626 / 1172	Lot 33
77	2005 / 19	Michael A. Wright	1626 / 1172	Lot 34
78	2005 / 18	Michael A. Wright	1626 / 1172	Lot 35
79	2005 / 17	Michael A. Wright	1626 / 1172	Lot 36
80	2005 / 16	Michael A. Wright	1626 / 1172	Lot 37
81	2005 / 5	Michael A. Wright (Lots 30-44)	1626 / 1172	2.47
82	2005 / 6	Michael A. Wright	1626 / 1172	Lot 44
83	2005 / 7	Michael A. Wright	1626 / 1172	Lot 43
84	2005 / 8	Michael A. Wright	1626 / 1172	Lot 42
85	2005 / 9	Michael A. Wright	1626 / 1172	Lot 41
86	2005 / 10	Michael A. Wright	1626 / 1172	Lot 40
87	2005 / 11	Michael A. Wright	1626 / 1172	Lot 39
88	2005 / 12	Mary A. Wright, et al	1329 / 924	Lot 38
89	2015 / 70	Joe A. Abraham	1618 / 1296	0.28
90	2015 / 69	Daniel Cusick	1580 / 854	0.24
91	2015 / 72	Debra D. Carpenter & Sarah L. Jones	1631 / 386	0.26
92	2015 / 71	WV Housing Development Fund	1290 / 995	0.26
93	426 / 34.1	Jacob D. & Nancy L. Post	1023 / 150	9.27
94	426 / 20	Grafton Coal Company	1016 / 223	6.00
95	2015 / 73	Timothy S. Cole	1399 / 1046	0.24
96	2015 / 74	WV Housing Development Fund	1290 / 995	0.24
97	2015 / 75	WV Housing Development Fund	1290 / 995	0.24
98	2015 / 76	WV Housing Development Fund	1290 / 995	0.11
99	2015 / 77	Andrew R. & Cheryl A. Colombo	1320 / 873	0.25
100	2015 / 78	Quintin J. Moore & Lora K. Vamer	1602 / 451	0.28

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 24 2020
OPERATOR'S WELL NO. Schoen 1205 N-1H
API WELL NO
47 - 033 - 06001
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek

Top: Mount Clare
Bottom: West Milford
QUADRANGLE:

DISTRICT: Grant / Union

COUNTY: Harrison

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: ACREAGE: 78.20

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: 7,242' TVD 26,929' 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



RECEIVED
Office of Oil and Gas

JAN 06 2021

WV Department of
Environmental Protection

No.	TM / Par	Owner	Bk / Pg	Ac.
101	2015 / 79	William R. Reed Jr.	1403 / 601	0.33
102	2015 / 80	Thomas M. Tice & Michelle L. Liptak	1319 / 1062	0.36
103	2015 / 81	Jesse D. Garrett	1403 / 1133	0.29
104	2015 / 82	John & Mary R. Miller	1397 / 1177	0.22
105	2015 / 83	John & Mary R. Miller	1397 / 1177	0.20
106	2015 / 39	John & Mary R. Miller	1310 / 1206	0.25
107	2015 / 87	Kelly J. Morrison	1308 / 708	0.27
108	2015 / 86	Andrew T. & Jenna L. Richman	1658 / 100	0.24
109	2015 / 85	Erica A. Aversa	1615 / 475	0.21
110	2015 / 84	James & Meagen K. Johnson	1499 / 665	0.27
111	2015 / 37	Yancy Weaver & Kim Moschella	1482 / 396	0.26
112	2015 / 35	Christopher C. Brooks	1450 / 235	0.24
113	2005 / 55	Gale L. & Melissa A. Zickefoose	1475 / 318	0.12
114	2005 / 54	Flossie B. Cogis	1247 / 10	0.08
115	2005 / 53	Flossie B. Cogis	1247 / 10	0.17
116	2005 / 52	Timothy H. Bennett	1398 / 1065	0.05
117	2005 / 51	Timothy H. Bennett	1398 / 1065	0.17
118	2005 / 38	Timothy H. Bennett	1398 / 1065	0.09
119	2005 / 26	Timothy H. Bennett	1398 / 1065	0.00
120	2005 / 27	Timothy H. Bennett	1398 / 1065	0.06
121	2005 / 15	Timothy H. Bennett	1398 / 1065	0.11
122	2005 / 3	Timothy H. Bennett	1398 / 1065	0.10
123	2005 / 4	Timothy H. Bennett	1082 / 69	0.16
124	2005 / 2	Timothy H. Bennett	1398 / 1065	0.11
125	2005 / 14	Timothy H. Bennett	1398 / 1065	0.12
126	2005 / 25	Timothy H. Bennett	1398 / 1065	0.12
127	2005 / 37	Timothy H. Bennett	1398 / 1065	0.12
128	2005 / 49	Amanda D. Lewis & James A. Newman	1602 / 1229	0.15
129	2005 / 50	Mary L. Smith, et al	W177 / 1179	48 SF
130	2005 / 46	Flossie B. Cogis	W175 / 144	0.17
131	2005 / 48	Donald J. & Shelly A. Cavaller	1673 / 24	0.12
132	2005 / 36	Robert M. Tangari	1193 / 686	0.40
133	2005 / 24	Robert M. Tangari	1193 / 686	0.10
134	2005 / 13	Robert M. Tangari	1193 / 686	0.09
135	2005 / 1	Robert M. Tangari	1193 / 686	0.08
136	426 / 34.4	Grant-Union Public Service District	1170 / 132	0.03
137	426 / 10	Judith A. Eaton	1400 / 929	2.73
138	426 / 11	Nancy Sue Greaver	1231 / 836	2.00
139	426 / 8	Antonio P. LLC	1503 / 291	19.00
140	426 / 9.1	Rose Belle	1609 / 568	4.30

No.	TM / Par	Owner	Bk / Pg	Ac.
141	426 / 9	Juliet Rose Belle	1603 / 338	1.38
142	406 / 36.1	Walter D. Snider & Rebecca A. Kayser	1346 / 961	1.74
143	406 / 36.2	Eugene Ray Messer	1619 / 210	0.21
144	406 / 36	Jacob & Nancy Post	1045 / 273	0.90
145	406 / 36.3	Grant-Union Public Service District	1164 / 952	0.03
146	406 / 37.1	Danielle Davisson & Robert Radabaugh	1515 / 979	0.32
147	406 / 37	Gregory & Jaqueline Abraham	1301 / 236	3.54
148	406 / 38	Judith Hayhurst	935 / 9	1.45
149	406 / 24	Clarence Howe Woodford II, et ux	W163/1145	160.49
150	426 / 8	Antonio P., LLC	1503 / 291	19.00
151	406 / 31	Antonio P., LLC	1503 / 291	14.65
152	406 / 21.5	Monongahela Power Co.	1083 / 210	0.45
153	406 / 21.4	Monongahela Power Co.	1083 / 210	2.76
154	406 / 21.1	Terry L. & Cathy D. Williams	1662 / 1294	9.66
155	406 / 24.2	Steven & Shanna Bolyard	1558 / 892	0.32
156	406 / 24.1	Steven & Shanna Bolyard	1558 / 892	0.72
157	406 / 22	David L. Scranage & Eva L. Scranage	952 / 204	0.38
158	406 / 22.1	David L. Scranage & Eva L. Scranage	912 / 274	0.46
159	406 / 21.7	Eva L. Scranage	1427 / 565	2.26
160	406A / 33	James & Megan Kennedy	1594 / 1121	0.43
161	406A / 21	James S. Skinner	1559 / 1053	0.47
162	406A / 22	James S. Skinner	1515 / 519	0.23
163	406A / 5	Jerry Hughes	1095 / 649	0.23
164	406A / 35	Harley R. & Linda L. Coberly	1229 / 315	0.79
165	406A / 20	Stephen & Shiela Nelson	1266 / 1097	0.36
166	406A / 1	Ernie & Linda Morgan	1266 / 35	0.35
167	406A / 2	Ernie & Linda Morgan	1266 / 35	0.35
168	406A / 3	David & Nancy Nester	1079 / 620	0.44
169	406 / 21	Robert K. Lowther	1427 / 565	17.44
170	406 / 21.8	Brian K. & Jayme E. Lowther	1506 / 806	49.53
171	406 / 21.9	Brian K. & Jayme E. Lowther	1652 / 85	6.03
172	406 / 8	Robert J. Stenger	1621 / 54	166.25
173	406 / 7.15	Michael L. & C. Vanessa Bond	1393 / 1095	4.27
174	406 / 7.13	Michael L. & C. Vanessa Bond	1368 / 579	4.26
175	406 / 6	Richard K. Williams	1344 / 966	40.12
176	406 / 9	John L. & Mary E. Stenger	1580 / 204	309.00
177	386 / 108	John L. Stenger	1309 / 666	7.44

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-1H Well Plat
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CORS, Bridgeport, WV

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OIL AND GAS DIVISION

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DISTRICT: Grant / Union

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DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101

4703306001

WW-6A1
(5/13)

Operator's Well No. Schoen 1205 N-1H

**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

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

Page 1 of _____

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FEB 05 2021

WV Department of
Environmental Protection

4703306001

HG Energy II Appalachia, LLC - Schoen 1205 N-1H Lease Chain

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FEB 05 2021
WV Department of
Environmental Protection

1205 Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE				
s1	LC074399	12-0447-0001-0000 12-0447-0002-0000	Q100514000	A. B. POST, WIDOWER; P. S. ROBEY AND WILLA ROBEY, EACH IN HIS OWN RIGHT AS HUSBAND AND WIFE; ELLA LOUISE MAXWELL AND ISAAC H. MAXWELL, HER HUSBAND; FRANCES AND GEORGE B. VIEWEG, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	900	269				
				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				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	WVSOS					
				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				
				2	LC066976	12-0446-0007-000 et of	Q100894000	MARCELLA R. BOND AND H. D. BOND, HER HUSBAND; S. ERLow DAVIS AND ANTHA DAVIS, HIS WIFE; HUGH C. DAVIS AND MARTHA DAVIS, HIS WIFE; GEORGIA A. BARNES, WIDOW; ALTHEA J. RANDOLPH, WIDOW; JANE D. POST AND JACOB S. POST, HER HUSBAND; ROXIE VEITH, SINGLE; JOHN A. VEITH, SINGLE; HALLIS VEITH, SINGLE; GRACE VEITH, SINGLE; JESSIE S. DAVIS, WIDOW; JOHN B. GRUMBEIN, WIDOWER; JOHN D. PICKENS AND HELEN N. PICKENS, HIS WIFE; LOUISE B. BELCHER AND EARL J. BELCHER, HER HUSBAND; LEWIS E. DAVIS AND LENORE DAVIS, HIS WIFE; LETTA M. BOND, SINGLE; PAUL V. BOND AND EVALEEN K. BOND, HIS WIFE; EVERETT O. DAVIS AND RUTH M. DAVIS, HIS WIFE; G. M. BASSEL AND MAUDE S. BASSEL, HIS WIFE; CLETT MOUNT AND HELEN MOUNT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	787	418
								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				
DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524					491				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543					1235				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	WVSOS									

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				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
2	LC066976	12-0446-0007-000 et al	Q100894000	EMMA A. WAGGONER, WIDOW; W. A. WAGGONER AND MINNIE WAGGONER, HIS WIFE; AND W. GEORGE WAGGONER AND VIRGINIA WAGGONER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	777	396
				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	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
s3	LC066702	12-0446-0028-0000 12-0446-0028-0011 12-0446-0028-0002 12-0446-0028-0003 12-0446-0028-0004 12-0446-0028-0005	Q101137000	EMMA A. WAGGONER, WIDOW; W. A. WAGGONER AND MINNIE WAGGONER, HIS WIFE; AND W. GEORGE WAGGONER AND VIRGINIA WAGGONER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	777	396
				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	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
1	LC021469	12-0446-0024-0000 12-0446-0024-0001 12-0446-0024-0002 12-0446-0024-0003 12-0446-0024-0004 12-0446-0024-0005 12-0446-0026-0001	Q101114000	J. N. RECTOR AND JULIA E. RECTOR	TRI-STATE GAS COMPANY	NOT LESS THAN 1/8	139	432
				TRI-STATE GAS COMPANY, WHEELING NATURAL GAS COMPANY AND THE MANUFACTURERS LIGHT AND HEAT COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	202	375
				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.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	

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				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1609	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	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				S. J. DAVISSON	TRI-STATE GAS COMPANY	NOT LESS THAN 1/8	139	434
				TRI-STATE GAS COMPANY, WHEELING NATURAL GAS COMPANY AND THE MANUFACTURERS LIGHT AND HEAT COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	202	375
				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
				DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
				MARY E. KENNEDY, WIDOW; DORSEY C. KENNEDY AND VELMA ICE KENNEDY, HIS WIFE; HARRY W. KENNEDY AND LILLIAN A. KENNEDY, HIS WIFE; JOHN L. KENNEDY AND REVA B. KENNEDY, HIS WIFE; MARTHA E. WILCOX, WIDOW; LELA K. RUMBLE, WIDOW; SUE K. SWISHER, WIDOW; KATHERINE BUTLER AND THERMAN BUTLER, HER HUSBAND; EVA WOLFE AND LYNN B. WOLFE, HER HUSBAND; S. G. KENNEDY AND JESSIE L. KENNEDY, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	782	8
				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
				DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				HUGH C. DAVIS AND MARTHA L. DAVIS, HIS WIFE; JANE D. POST AND JACOB S. POST, HER HUSBAND; JESSIE S. DAVIS; GEORGIA A. BARNES; LEWIS E. DAVIS	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	983	611
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250

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16	LC066781	12-0426-0028-0000 p/o 12-0426-0040-0000 p/o 12-0426-0044-0000 12-0426-0045-0000 12-0426-0046-0000	Q100885000	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
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	WVSOS	
				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
				LILLIE GIFFORD, WILBUR STOUT, AND MABEL STOUT	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	779	43
				17	LC066772	12-0426-0050-0000 12-0426-0051-0000	Q100649000	HOPE NATURAL GAS COMPANY
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
DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524					491
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543					1235
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576					125
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584					942
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
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
17.1	LC066743	12-0426-0055-0000	Q100803000					HOPE NATURAL GAS COMPANY
				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
				DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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
		12-0426-0026-0000 p/o 12-0426-0010-0000 p/o 12-0426-0012-0000 p/o 12-0426-0012-0001 12-0426-0034-0001 12-0426-0034-0003 thru 12-0426-0034-0007 12-2005-0001-0000 thru		A. W. SMITH	TRI-STATE GAS COMPANY	NOT LESS THAN 1/8	139	458
				TRI-STATE GAS COMPANY, WHEELING NATURAL GAS COMPANY AND THE MANUFACTURERS LIGHT AND HEAT COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	202	375
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250

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19	LC066610	12-0426-0031-0001	Q100826000	GEORGIA A BARNES, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	975	610			
		12-0426-0031-0001		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250			
		12-0426-0031-0002		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795			
		12-0426-0031-0003		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362			
		12-0426-0031-0004		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33			
		12-0426-0031-0005		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235			
		12-0426-0031-0006		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	ASSIGNMENT	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		WVSOS			
				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			
		21.1		N/A	12-426-29	HGH0442	RICHARD R. BOND	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1661	41

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				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
32.1	N/A	12-406-22 12-406-221	HG1101348	DAVID LEE AND EVE LEE SCRANAGE HIS WIFE	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	TBD	TBD
				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
		12-0406-0005-0000		WEST VIRGINIA CENTRAL GAS COMPANY	CONSOLIDATED NATURAL GAS COMPANIES OF WEST VIRGINIA	DEED	151	42
		12-0406-0006-0000		WEST VIRGINIA CENTRAL GAS COMPANY	CUMBERLAND AND ALLEGHENY GAS COMPANY	DEED	357	198
		12-0406-0007-0000		CUMBERLAND AND ALLEGHENY GAS COMPANY	COLUMBIA GAS TRANSMISSION CORPORATION	QUITCLAIM DEED	990	656
		12-0406-0007-0001		COLUMBIA GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	DEED	1046	1003
		12-0406-0007-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1196	250
		12-0406-0007-0003		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		12-0406-0007-0004		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		12-0406-0007-0005		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
		12-0406-0007-0006		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
		12-0406-0007-0007		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
		12-0406-0007-0008		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
		12-0406-0007-0009		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		12-0406-0007-0010		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		12-0406-0007-0011		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
		12-0406-0007-0012		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		12-0406-0007-0013		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
		12-0406-0007-0014		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
		12-0406-0007-0015		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	LEWIS 736	220
		12-0406-0007-0016		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC			
		12-0406-0007-0017		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC			
		12-0406-0007-0018		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC			
		12-0406-0007-0019		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC			
		12-0406-0007-0020		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC			
		12-0406-0008-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC			
		12-0406-0008-0001		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC			
		12-0406-0009-0000		LOCIE C. STOUT, WIDOW; MARY STOUT WOLFE, WIDOW; AND IVA H. STOUT, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	992	522
		12-0406-0009-0001		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
		12-0406-0009-0002		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		12-0386-0109-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		12-0386-0110-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
		12-0386-0111-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	WVSOS	
				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	ASSIGNMENT	LEWIS 736	220



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

December 30, 2020

Kelly Kees
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Drilling Under Roads – Schoen 1205 N-1H
Grant District, Harrison County
West Virginia

Dear Ms. Kees -

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Schoen 1205 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the Schoen 1205 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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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(1/12)

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

Date of Notice Certification: 12/30/2020

API No. 47- _____
Operator's Well No. Schoen 1205 N-1H
Well Pad Name: Schoen Well Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>555997.1</u>
County: <u>Harrison</u>		Northing: <u>4333882.5</u>
District: <u>Grant</u>	Public Road Access: <u>McWhorter Road</u>	
Quadrangle: <u>Mount Clare</u>	Generally used farm name: <u>Schoen</u>	
Watershed: <u>Middle West Fork Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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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.

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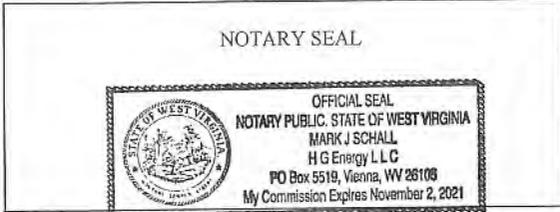
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WV Department of
Environmental Protection

Certification of Notice is hereby given:

THEREFORE, I Diane White, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	<u>HG II Appalachia, LLC</u>	Address:	<u>5260 Dupont Road</u>
By:	<u>Diane White <i>Diane White</i></u>		<u>Parkersburg, WV 26101</u>
Its:	<u>Agent</u>	Facsimile:	<u>304-863-3172</u>
Telephone:	<u>304-420-1119</u>	Email:	<u>dwhite@hgenergyllc.com</u>



Subscribed and sworn before me this 30th day of December, 2020.

Mark J Schall Notary Public

My Commission Expires 11/2/2021

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.

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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: 11.23.20 **Date Permit Application Filed:** 11/25/20

Notice of:

- PERMIT FOR ANY WELL WORK CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A 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:

SURFACE OWNER(s)
Name: George & Rosanne Schoen
Address: PO Box 158
Lost Creek, WV 26385

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Thomas Young
Address: 4856 SW 95th
Gainesville, FL 32608

Name: Joseph Queen
Address: P. O. Box 531
Lost Creek, WV 26385

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Vera & Oral Haught
Address: 400 Justice Avenue
Logan, WV 25601

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: Dominion Energy Transmission - Attn: Ronald Waldren
Address: 925 White Oaks Blvd
Bridgeport, WV 26330

*Please attach additional forms if necessary

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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 Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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 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

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API NO. 47-
OPERATOR WELL NO. Schoen 1205 N-1H to S-10H
Well Pad Name: Schoen 1205

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

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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.

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(8-13)

API NO. 47- _____
OPERATOR WELL NO. Schoen 1205 N-1H to S-10H
Well Pad Name: Schoen 1205

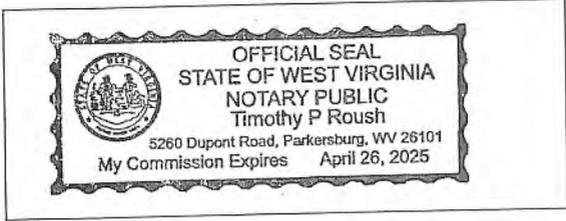
Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-2172

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 deprivacyofficer@wv.gov.



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

[Handwritten Signature]

Notary Public

My Commission Expires

4/26/2025

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4703306001

Schoen 1205 S-7H

WW-6A

(8-13)

Page 1 Continued

Surface Owner of Water Well and/or Water Purveyors to be Noticed:

Marilyn Gaines ✓
1191 McWhorter Road
Lost Creek, WV 26385

Keith & Diana Bramel ✓
124 Tree Frog Lane
Lost Creek, WV 26385

Stephen & Kimberly Goff ✓
412 Hill Top Drive
Lost Creek, WV 26385

Surface Owner (s) (Road and/or Other Disturbance)

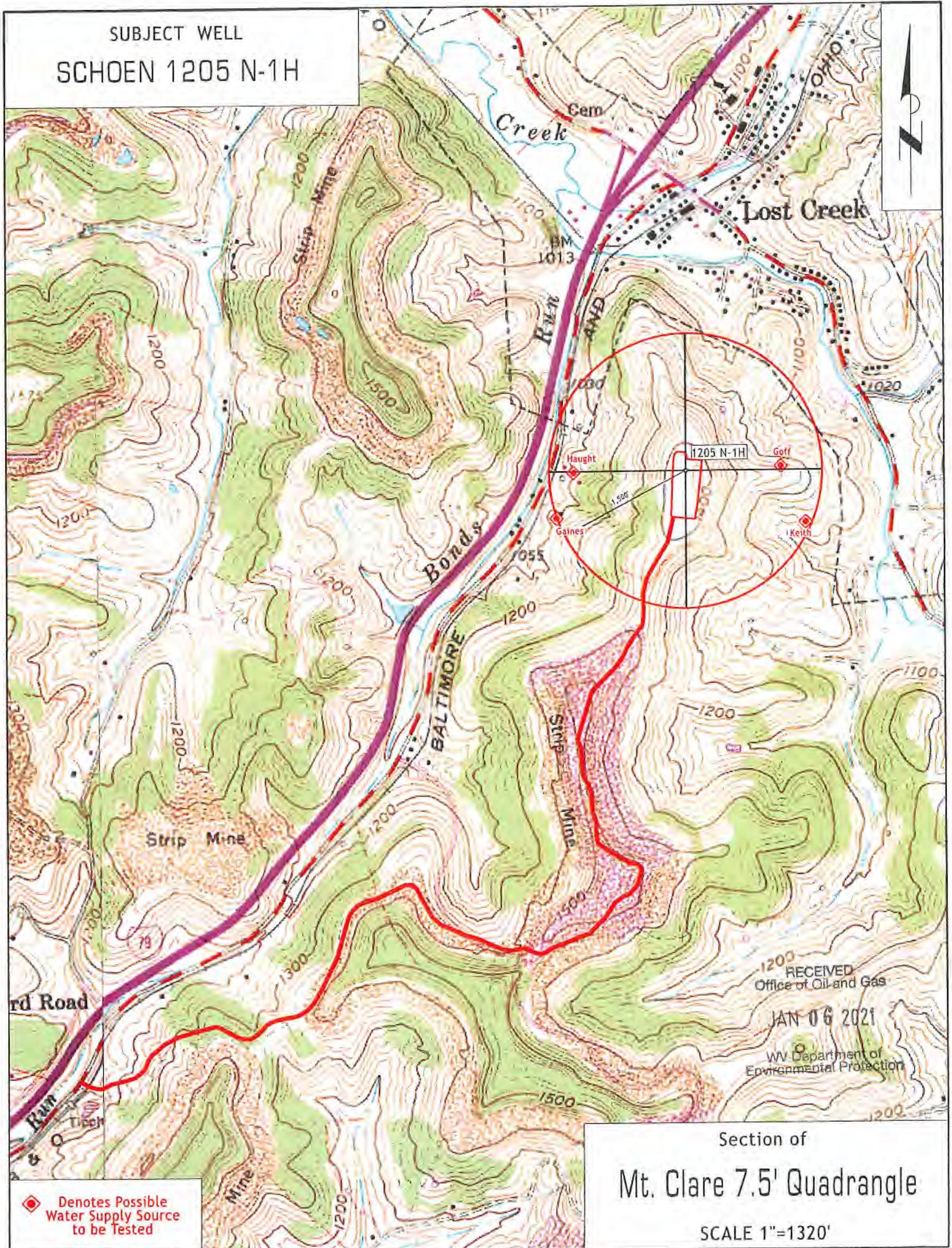
Charles and Franklin Sutton ✓
801 Worthington Drive
Bridgeport, WV 26330

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SUBJECT WELL
SCHOEN 1205 N-1H



◆ Denotes Possible Water Supply Source to be Tested

Section of
Mt. Clare 7.5' Quadrangle

SCALE 1"=1320'

WW-6A4
(1/12)

**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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 12/28/2020 **Date Permit Application Filed:** 01/11/2021

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JAN 06 2021

WV Department of
Environmental Protection

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: George & Rosanne Schoen
Address: PO Box 158
Lost Creek, WV 26385

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 555986.976
County: Harrison Northing: 4333800.330
District: Grant Public Road Access: McWhorter Road / SR19
Quadrangle: Mount Clare Generally used farm name: Schoen
Watershed: Middle West Fork Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-3172

Authorized Representative: Diane White
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
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.

73-06001

WW-6A5
(1/12)

Operator Well No. Schoen 1205 N-11 to S-10H

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

Notice Time Requirement: notice shall be provided no later than the **filing date** of permit application.
Date of Notice: 12/29/2020 **Date Permit Application Filed:** 01/11/2021

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: George & Rosanne Schoen Name: _____
Address: PO Box 158 Address: _____
Lost Creek, WV 26385 _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 555986.976
County: Harrison Northing: 4333800.330
District: Grant Public Road Access: McWhorter Road / SR 19
Quadrangle: Mount Clare 7.5' Generally used farm name: Schoen
Watershed: Middle West Fork Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: HG Energy II Appalachia, LLC Address: 5260 Dupont Road
Telephone: 304-420-1119 Parkersburg, WV 26101
Email: dwhite@hgenergyllc.com 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.

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JAN 06 2021
WV Department of
Environmental Protection



4703306001

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

September 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 Schoen 1205 Pad, Harrison County
Schoen N-1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2020-0615 which has been issued to HG Energy LLC for access to the State Road for a well site located off Harrison County Route 25 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.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Jerod Duelley
HG Energy LLC
CH, OM, D-4
File

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WV Department of
Environmental Protection

4703306001

HG Energy II Appalachia, LLC
List of Frac Additives by Chemical Name and CAS #
Schoen 1205 Well Pad (N-1H to N-6H, S-7H to S-11H)

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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WV Department of
Environmental Protection

4703306001

CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1205 WELL PAD

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

GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

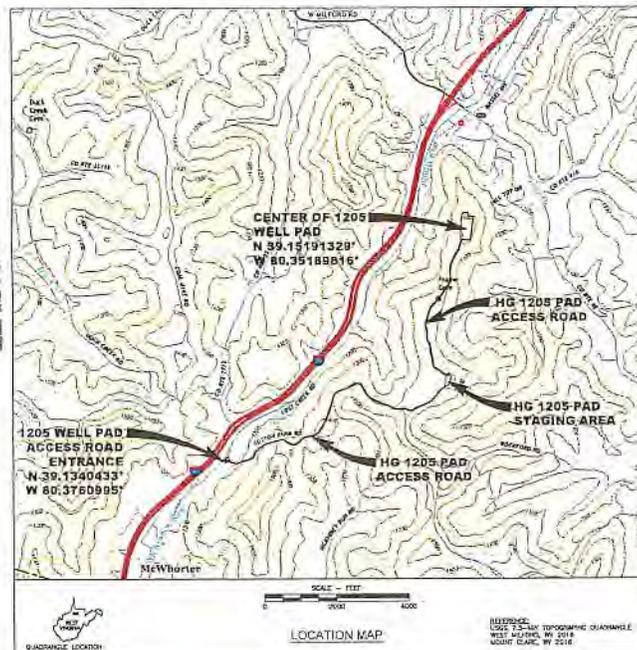
CONSTRUCTION SEQUENCE

- Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 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 barriers where equipment may not be parked, staged, operated or located for any purpose.
- 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 the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles.
- 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.
- 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.
- 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.
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- Final Stabilization, Topsoiling, Trees and Shrubs - After construction is completed, install 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.

Department of Environmental Protection

JAN 06 2021

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Division of Oil and Gas



PREPARED FOR
HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD
PARKERSBURG, WEST VIRGINIA 26101
(304) 420-1100

PREPARED BY
PENN ENVIRONMENTAL & REMEDIATION, INC.
111 RYAN COURT
PITTSBURGH, PA 15205
(412) 722-1222

Estimated Gross Material Volume (CY)			
Final Development - Gravel Option			
	CU	FB	Stockpile
1205 Well Pad	11,660	16,710	560
1205 Well Pad Access Road	2,410	12,230	470
1205 Well Pad Staging Area	340	230	10
Totals	24,410	29,270	1,040
Est. Swell Factor (20%)			205
Total Site Balance			1,245
Total Site Balance:			
Stripped Topsoil (Limits of Disturbance)			3,182
Est. Swell Factor (20%)			1,273
Est. Topsoil Stockpile Volume (Approx. CY)			11,801
Minimum Total Stockpile Capacity (Assumed) (CY)			12,751

Notes:
1. Material balance for est. gross earthwork quantities only.
2. Topsoil est. volume based on 6' rather average depth.
3. Material balance and aggregate quantities based on estimates and may not be representative of actual quantities.
4. Estimates do not reflect construction pay volumes.

Estimated Gravel Quantities				
	Final Site Access Road	Final Site Staging Area	1205 Well Pad	TOTAL
10# Crush (Base)	10,550	3,950	20,405	35,010
2" Depth 1/2" (Dune Run)	1,110	245	1,480	2,845
Estimated Pad Access Road #1 Filter Stock Length (LF)				800
Estimated Staging Area Pad #1 Filter Stock Length (LF)				3,115
Estimated Well Pad #1 Filter Stock Length (LF)				0.325
TOTAL Estimated #1 Filter Stock Length (LF)				1,680
TOTAL Estimated #1 Filter Stock Length (LF)				1,680
Estimated Pad Access Road Limit of Disturbance (Acres)				1.251
Estimated Staging Area Pad Limit of Disturbance (Acres)				1.251
Estimated Well Pad Limit of Disturbance (Acres)				0.002
TOTAL Estimated Limit of Disturbance (Acres)				2.504
Well Pad Peak Pre-Construction Elevation (FT)				1407.09
Well Area Elevation Elevation (Top of Soil Cement Subbase) (FT)				1407.09
Well Area Surface Elevation (FT)				1407.25

WELL #	LAT.	LONG.
N-3H	N 39.1524688	W 80.3518727
N-2H	N 39.1524777	W 80.3518752
N-4H	N 39.1523867	W 80.3518438
N-1H	N 39.1523457	W 80.3518963
N-5H	N 39.1523047	W 80.3518949
S-6H	N 39.1516447	W 80.3520489
S-7H	N 39.1516036	W 80.3520554
S-10H	N 39.1515636	W 80.3520722
S-8H	N 39.1515222	W 80.3520650
S-9H	N 39.1514813	W 80.3520750

WELL ELEVATIONS 1407.25
UTM83-17F

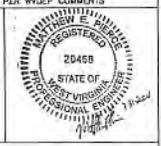
	LATITUDE	LONGITUDE
1205 WELL PAD ACCESS ROAD ENTRANCE	N 39.1340433	W 80.3760985

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
INTERSTATE 79 RIGHT OF WAY	N/A	N/A	0.704
FRANKLIN L. SUTTON	17-12-0466-0014-0002	39.4314	0.498
CHARLES R. SUTTON	17-12-0466-0015-0000	11.3466	0.532
FRANKLIN L. SUTTON	17-12-0466-0016-0000	22.3733	1.381
CHARLES R. SUTTON	17-12-0466-0017-0000	37.5166	3.008
FRANKLIN L. SUTTON	17-12-0466-0047-0000	25.9566	1.399
CHARLES R. SUTTON	17-12-0466-0048-0000	86.5040	3.008
CHARLES R. SUTTON	17-12-0466-0019-0000	62.7575	0.604
JOSEPH C. QUEEN	17-12-0447-0043-0001	16.9336	2.145
JOSEPH C. QUEEN	17-12-0447-0032-0000	35.5669	2.162
THOMAS H. YOUNG	17-12-0446-0028-0000	73.2754	6.570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2564	7.792
TOTAL LIMIT OF DISTURBANCE			29.812 AC

APPROVED
WVDEP OOG
12/1/2020

THIS DRAWING IS UNREGISTERED. THIS DRAWING IS A TRADE SECRET AND ONLY DISCLOSED TO THE RECORD FOR HIS ORIGINAL USE. WITHOUT THE WRITTEN PERMISSION OF PENN ENVIRONMENTAL & REMEDIATION, INC. IT SHALL NOT BE COPIED NOR MADE AVAILABLE TO THIRD PARTIES. INCLUDING CONTRACTORS. NOT BE USED AS A BASIS FOR ANY OTHER PROJECTS. ANY SUCH USE IN THE FUTURE OF THIS DRAWING FOR ANY OTHER PROJECT IS UNLAWFUL AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. THIS DRAWING MUST BE RETURNED ON REQUEST OF THE COMPANY.

REVISION	DATE	DESCRIPTION
1	08/17/2020	QUANTITY UPDATE AND CHANNEL MODIFICATIONS
2	08/27/2020	CLIENT REVISIONS
3	08/18/2020	REVISED PER WVDEP COMMENTS
4	10/28/2020	REVISED PER CLIENT COMMENTS
5	11/17/2020	CLIENT WELL REVISIONS
6	11/20/2020	REVISED PER WVDEP COMMENTS



TITLE SHEET
HG 1205 PAD
GRANT DISTRICT
HARRISON COUNTY, WEST VIRGINIA

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

APPROVED	MDP 03/31/2020
CHECKED	CAD 03/30/2020
DRAWN	MFR 03/24/2020
PROJECT No.	4800-PA007918
DRAWING NUMBER	PA007918-001
SHEET	1

111 RYAN COURT, PITTSBURGH, PA 15205
412-722-1222

WEST VIRGINIA **811** CALL BEFORE YOU DIG! Dial 811 or 800.245.4848

WEST VIRGINIA **811** CALL BEFORE YOU DIG! Dial 811 or 800.245.4848

1. SERVICE UTILITY LINES ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING, AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE.

CA PROJECT FILES\MCD-PA007918 HG 1205 (DRAWINGS)\PA007918 HG 1205 PAD TITLE SHEET.DWG:11/20/2020 3:02 PM

