



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, April 5, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for SCHMIDT 1222 S-1H
47-017-06922-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, Chief, is written over a white background.

James A. Martin
Chief

Operator's Well Number: SCHMIDT 1222 S-III
Farm Name: JOHN A SCHMIDT
U.S. WELL NUMBER: 47-017-06922-00-00
Horizontal 6A New Drill
Date Issued: 4/5/2022

Promoting a healthy environment.

04/08/2022

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.

API Number: _____

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

04/08/2022

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. 494519932 Doddridge Cove Vadis 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Schmidt 1222 S-1H Well Pad Name: Schmidt 1222

3) Farm Name/Surface Owner: John A Schmidt Public Road Access: SLS 29

4) Elevation, current ground: 1117' Elevation, proposed post-construction: 1111'

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

(b) If Gas Shallow Deep _____
Horizontal _____

*SDW
2/23/2022*

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 6890' - 6965' and 75' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 6962'

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9) Formation at Total Vertical Depth: Marcellus

MAR 02 2022 ✓

10) Proposed Total Measured Depth: 24,729'

WV Department of
Environmental Protection

11) Proposed Horizontal Leg Length: 16,950'

12) Approximate Fresh Water Strata Depths: 150', 181', 826'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-017-02906, 47-017-02480, 4233)

14) Approximate Saltwater Depths: 47-017-04233 ~ 1315' & 2230'

15) Approximate Coal Seam Depths: 220'-225', 428'-438', 495'-501'

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: _____

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	20"	New	LS	94	120'	120' ✓	Drilled In
Fresh Water	13.375"	NEW	J-55 BTC	54.5	1000'	1000' ✓	40% excess yield = 1.18, CTS
Coal							
Intermediate	9 5/8"	NEW	N-80 BTC	40	5390'	5390' ✓	Lead = 40% excess, Tail = 0% Excess <input type="checkbox"/>
Production	5 1/2"	NEW	P-110 HP	23	24729'	24729' ✓	Lead - Yield = 1.18, Tail - yield = 1.94 <input type="checkbox"/>
Tubing							
Liners							

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2/23/2022*

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	20"	20"	.438				Drilled In
Fresh Water	17.5"	13 3/8"	.380	2730	1200	Type 1, Class A	30 % excess yield = 1.20, CTS
Coal							
Intermediate	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	40% excess yield = 0% Excess Lead <input type="checkbox"/>
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.18, tail yield = 1.94 <input type="checkbox"/>
Tubing							
Liners							

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Kind:				
Sizes:				
Depths Set:				

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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 6962'. Drill horizontal leg to an estimated 16,950' lateral length, 24,729' 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.

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): 51.93 acres

22) Area to be disturbed for well pad only, less access road (acres): 5.00 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater - Bow Spring on every other joint.
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.

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

Conductor -N/A. Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water - "15.8 ppg Class A Neal 94#/sk40% Excess/Yield=1.18 / CTS"
Intermediate - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl2 0% Excess / Tail: 15.8 ppg PNE-1 + 2.5% bwoc CaCl2 0% Excess. CTS"
Production - "Lead: 14.5 ppg POZ:PNE-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% Excess/Lead Yield=1.19Tail Yield=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.
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.

*Note: Attach additional sheets as needed.



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1222 S-1H 4701706922

Marcellus Shale Horizontal
Lewis County, WV

Ground Elevation		1111'		1222 S-1H SHL				14206386.64N 1725351.66E		
Azm		160.58°		1222 S-1H LP				14203974.02N 1724439.02E		
WELLBORE DIAGRAM		160.58°		1222 S-1H BHL				14187994.63N 1730072.43E		
HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
20"	20" 94# 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.	Surface casing = 0.438" wall thickness	
17.5"	13-3/8" 54.5# J-55 BTC	Coal	636	646	AIR	15.6 ppg Class A Neat 94#/sk 40% Excess Yield=1.18 / CTS	Bow Spring on every other joint	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.380" wall thickness Burst=2730 psi	
12.25"	9-5/8" 40# N-80 BTC	Little Lime/Big Lime	2057/2136	2065/2166	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' from surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=5750 psi	
		Big Injun/Gantz	2174/2521	2259/2535						
		50 Foot/Gordon	2629/2726	2651/2894						
		Fifth	2977	3021						
		Bayard	3052	3084						
		Warren/Speechley	3359/3564	3383/3583						
		Benson	4967	4989						
Intermediate	0	TVD: 5116' MD: 5390' Inc. 23 deg								
8.75"	5-1/2" 23# P-110 HP CDC HTQ	Alexander	5241	5363	AIR / 9.0ppg SOB M	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	
Rhinesfreet		6106	6408							
Cashaqua		6409	6660							
Middlesex		6660	6727							
West River		6727	6814							
Burkett		6814	6850							
Tully Limestone		6850	6870							
Hamilton		6870	6890							
Marcellus		6890	6965							
TMD / TVD (Production)		24729	6962	11.5ppg-12.5ppg SOB M						
8.5" Lateral	Onondaga	6965	7000	11.5ppg-12.5ppg SOB M						

LP @ 6962' TVD / 7779' MD

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

+/-16950' ft Lateral

TD @ +/-6962' TVD
+/-24729' MD

X=centralizers

HG Energy II Appalachia, LLC
Schmidt 1222 Well Pad (S-1H, S-2H, S-3H, S-4H, S-5H, S-6H)
Cement Additives

MAR 02 2022

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Material Name	Material Type	Material Description	CAS #																		
Premium NE-1	Portland Cement	Premium NE-1 is a portland cement with early compressive strength properties.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Portland cement</td> <td>90 - 100</td> <td>65997-15-1</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> <tr> <td>Magnesium oxide</td> <td>1 - 5</td> <td>1309-48-4</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>0.1 - 1</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Portland cement	90 - 100	65997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>bentonite</td> <td>90 - 100</td> <td>1302-78-8</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-8	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
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Calcium Chloride	Accelerator	A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>90 - 100</td> <td>10043-52-4</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
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Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>128-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	128-73-8												
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Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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MPA-170	Gas Migration	Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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Poz (Fly Ash)	Base	A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7	Calcium oxide	1 - 5	1305-78-8									
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R-3	Retarder	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Organic acid salt</td> <td>40 - 50</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
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S-5	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>2-Butoxyethanol</td> <td>20 - 30</td> <td>111-76-2</td> </tr> <tr> <td>Proprietary surfactant</td> <td>10 - 20</td> <td>Trade secret.</td> </tr> <tr> <td>D-Glucopyranose, oligomeric. C10-16-alkyl glycosides</td> <td>5 - 10</td> <td>110615-47-9</td> </tr> <tr> <td>Alkylarylsulfonate amine salt</td> <td>1 - 5</td> <td>Trade secret.</td> </tr> <tr> <td>Polyoxyalkylenes</td> <td>0.1 - 1</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	2-Butoxyethanol	20 - 30	111-76-2	Proprietary surfactant	10 - 20	Trade secret.	D-Glucopyranose, oligomeric. C10-16-alkyl glycosides	5 - 10	110615-47-9	Alkylarylsulfonate amine salt	1 - 5	Trade secret.	Polyoxyalkylenes	0.1 - 1	Trade secret.
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04/08/2022

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Schmidt 1222 S-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) Sand Fork Quadrangle Vadis 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

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

*SDW
2/23/2022*

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 - SOBIM

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

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

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

-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

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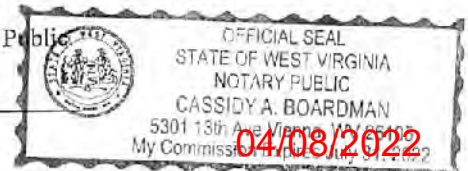
MAR 02 2022

WV Department of
Environmental Protection

Subscribed and sworn before me this 21st day of February, 2022

Cassidy Boardman Notary Public

My commission expires 7/31/2022



HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 51.93 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: SEW Wanda

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: 2/23/2022

Field Reviewed? Yes No

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WV Department of
Environment **04/08/2022**

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-103-87 / WV 0109029
Rd 2 Box 410
Colliers, 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

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

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

Grosella (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

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WV Department of
 Environmental Protection

04/08/2022

4701706922

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, OH 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 keye 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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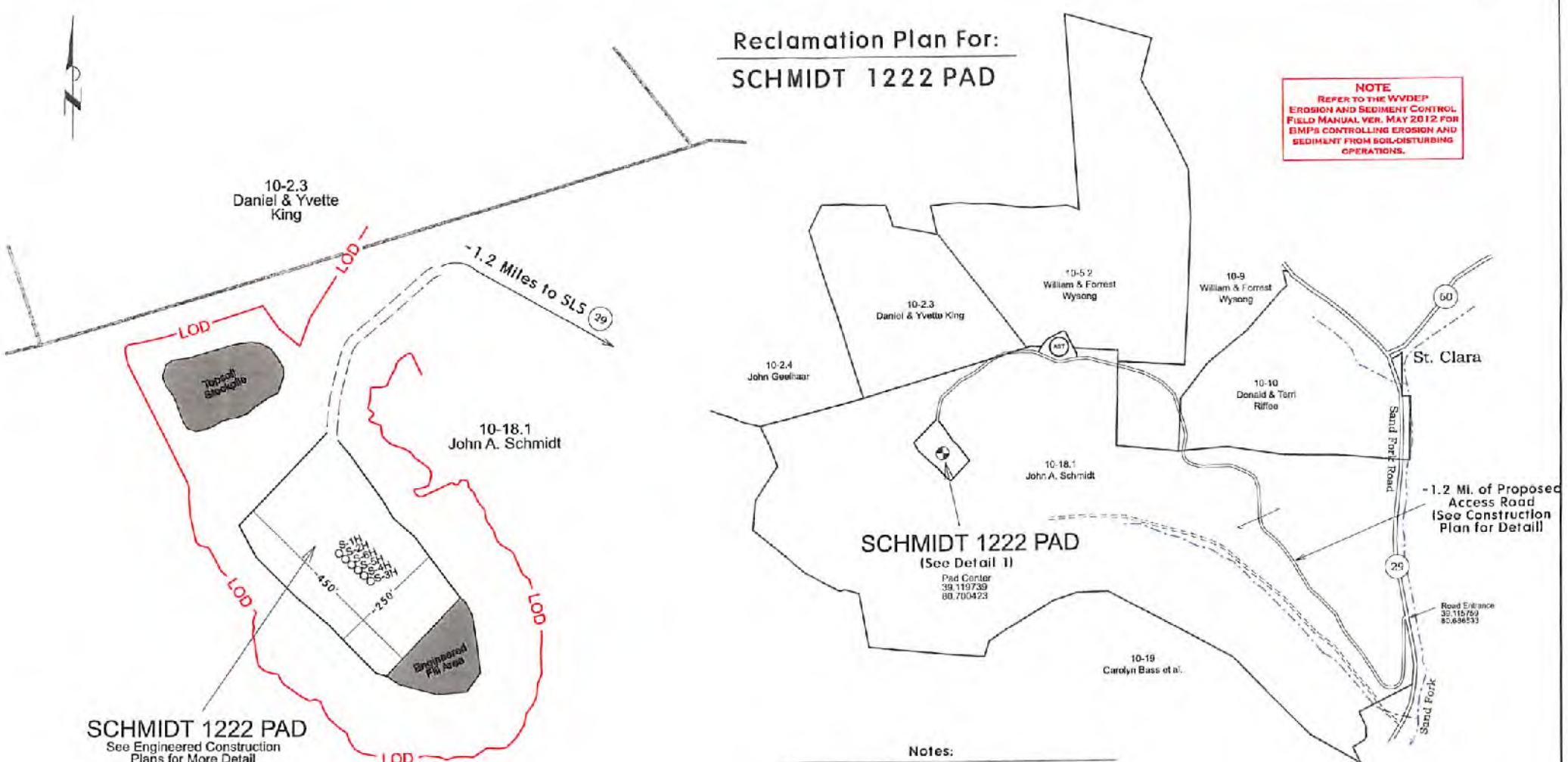
MAR 02 2022

WV Department of
Environmental Protection

04/08/2022

Reclamation Plan For: SCHMIDT 1222 PAD

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



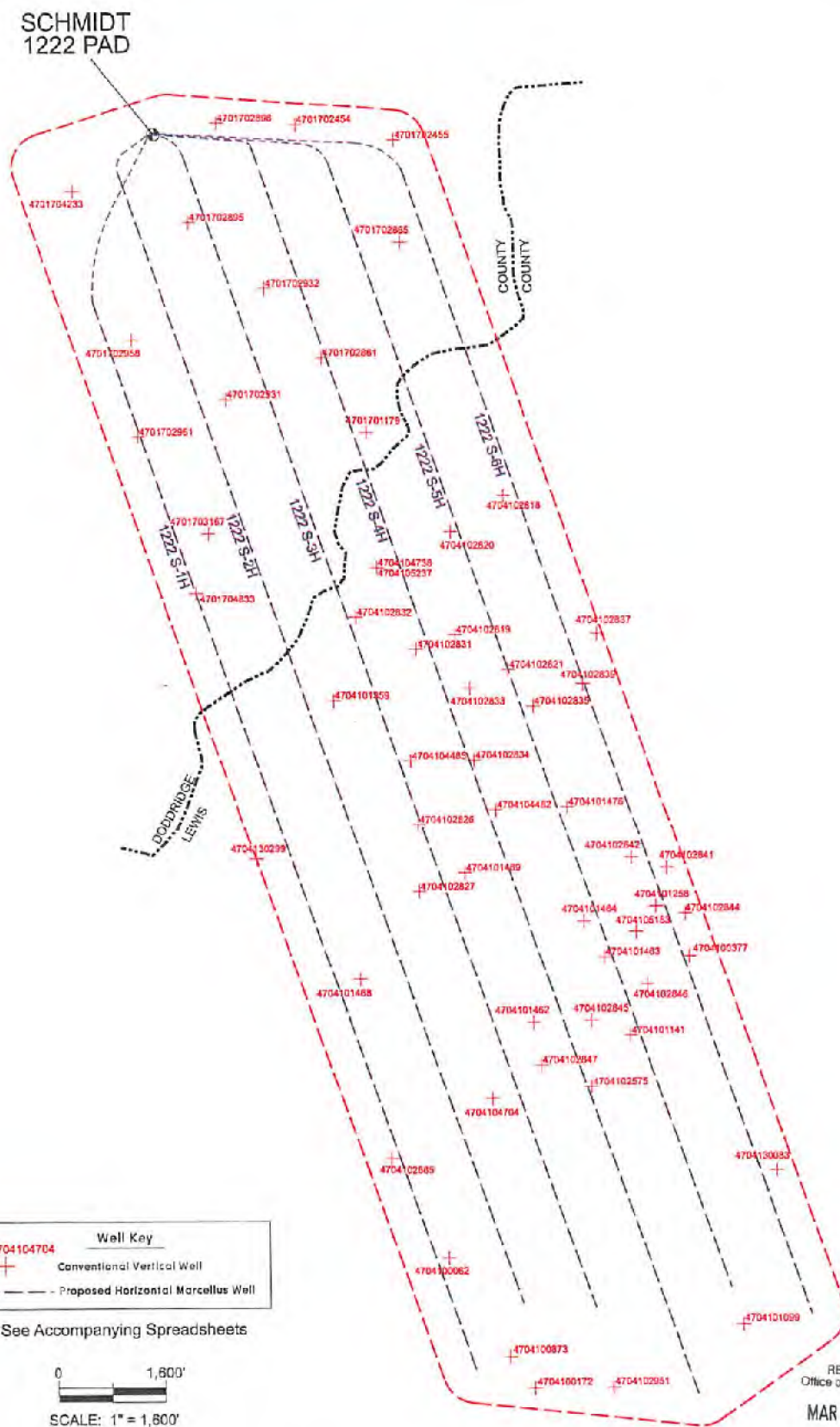
SCHMIDT 1222 PAD
See Engineered Construction
Plans for More Detail

SCHMIDT 1222 PAD
Detail 1

SCHMIDT 1222 PAD
(See Detail 1)
Pad Center
39.119739
80.700423

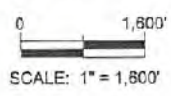
Notes:

- 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.



Well Key	
4704104704	Conventional Vertical Well
---	Proposed Horizontal Marcellus Well

See Accompanying Spreadsheets



DATA SOURCES
WVGES Data Set - 2020; WVDEP Website

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MAR 02 2022
WV Department of
Environmental Protection

Area of Review for:

SCHMIDT 1222 SOUTH UNIT

Proposed 1222 S-1H Proposed 1222 S-2H Proposed 1222 S-3H
Proposed 1222 S-4H Proposed 1222 S-5H Proposed 1222 S-6H

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



Cove District, Doddridge County, W.Va.
Freeman's Creek District, Lewis County, W.Va.

04/08/2022

MAR 02 2022

WV Department of
Environmental Protection

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

SCHMIDT 1222 SOUTH UNIT AND PROPOSED WELLS S-1H, S-2H, S-3H, S-4H, S-5H, & S-6H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4701701179	Doddridge	Leopold Krenn	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2446	Active	39.107498	-80.689312
2	4701702454	Doddridge	R B Schmidt	Beta Helix Energy, LLC	Alexander	Gas	5432	Active	39.120095	-80.692879
3	4701702455	Doddridge	R B Schmidt	Ross & Wharton Gas Company, Inc.	Alexander	Gas	5313	XAbandoned	39.119440	-80.687733
4	4701702861	Doddridge	G G & N M Rastle	Beta Helix Energy, LLC	Alexander	Gas	5134	Active	39.110564	-80.691636
5	4701702865	Doddridge	H & T Schmidt	Beta Helix Energy, LLC	Alexander	Gas	5270	Active	39.115252	-80.687451
6	4701702895	Doddridge	Herbert Schmidt	Beta Helix Energy, LLC	Alexander	Gas	5425	Active	39.116109	-80.698548
7	4701702896	Doddridge	H J & T Schmidt	Beta Helix Energy, LLC	Elk	Gas	5981	Active	39.120173	-80.697051
8	4701702931	Doddridge	Paul Bragg	Beta Helix Energy, LLC	Alexander	Gas	5450	Active	39.108896	-80.696667
9	4701702932	Doddridge	G G & N M Rastle	Beta Helix Energy, LLC	Alexander	Gas	5340	Active	39.113403	-80.694619
10	4701702958	Doddridge	Nevin Stagarwalt	Beta Helix Energy, LLC	Alexander	Gas	5496	Active	39.111340	-80.701597
11	4701702961	Doddridge	Nevin Stagarwalt	Beechlick Oil, Inc.	Big Injun (Grnbr)	Gas	2275	Active	39.107396	-80.701296
12	4701703167	Doddridge	Daniel Persiani	Beta Helix Energy, LLC	Big Injun (Grnbr)	Gas	2280	Active	39.103442	-80.697624
13	4701704233	Doddridge	Wilma Rastle Reed	Greylock OPCO, LLC	Greenland Gap Fm	Gas	5581	Active	39.117402	-80.704652
14	4701704833	Doddridge	Leopold Kreen	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	Plugged	39.101015	-80.698314
15	4704100062	Lewis	M H Piercy	Eastern Gas Transmission & Storage, Inc.	Big Injun (Grnbr)	Gas	2161	Plugged	39.073852	-80.685464
16	4704100172	Lewis	Eliza Starcher	R & R Oil & Gas, LLC	Big Injun (Grnbr)	Oil w/ Gas Show	1987	Abandoned	39.068486	-80.680998
17	4704100377	Lewis	Andrew T Gooden	UNKNOWN	Up Devonian	Storage	2360	Plugged	39.086078	-80.672628
18	4704100873	Lewis	W W Starcher	R & R Oil & Gas, LLC	Greenland Gap Fm	Oil and Gas	3712	Abandoned	39.069791	-80.682301
19	4704101099	Lewis	R G King	Eastern Gas Transmission & Storage, Inc.	Up Devonian	Oil and Gas	2402	Active	39.071037	-80.670053
20	4704101141	Lewis	Andrew Gooden	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2486	Plugged	39.082888	-80.675788
21	4704101258	Lewis	G E Lowther	Eastern Gas Transmission & Storage, Inc.	Up Devonian	Dry w/ Gas Show	2640	Plugged	39.088129	-80.674349
22	4704101359	Lewis	T M Bone	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2583	Active	39.096626	-80.691152
23	4704101462	Lewis	Eddie & Donald Ross	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2360	Plugged	39.083423	-80.680815
24	4704101463	Lewis	Eddie & Donald Ross	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2362	Plugged	39.086078	-80.677094
25	4704101464	Lewis	E E Jones	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2490	Active	39.087521	-80.678122
26	4704101468	Lewis	O Means	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2360	Active	39.085208	-80.689933
27	4704101469	Lewis	C Shaner	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2650	Active	39.089559	-80.684352
28	4704101476	Lewis	J W Lowther	Eastern Gas Transmission & Storage, Inc.	Gordon (undiff)	Storage	2898	Active	39.092262	-80.678920
29	4704102575	Lewis	Wm M McCutcheon	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Observation	-	Active	39.080813	-80.677838
30	4704102818	Lewis	John M Keely et al	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	Plugged	39.104931	-80.682123
31	4704102819	Lewis	John Kenney	Eastern Gas Transmission & Storage, Inc.	UDev undf:Ber/LoHURN	Oil	2302	Plugged	39.099275	-80.684727
32	4704102820	Lewis	John M Keely et al	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	Plugged	39.103481	-80.684914
33	4704102821	Lewis	John Kenney	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	Active	39.097825	-80.681935

34	4704102826	Lewis	Charles Shaner	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Observation	-	Active	39.091589	-80.686772
35	4704102827	Lewis	Kermit Money Penny	Eastern Gas Transmission & Storage, Inc.	Gantz	Gas	2468	Plugged	39.088805	-80.686763
36	4704102831	Lewis	T M Bode	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	Plugged	39.098695	-80.686774
37	4704102832	Lewis	T M Bode	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2507	Plugged	39.100000	-80.689939
38	4704102833	Lewis	Leopold Statler	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Oil	2308	Plugged	39.097100	-80.683982
39	4704102834	Lewis	Leopold Statler	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	Active	39.094199	-80.683795
40	4704102835	Lewis	Leopold Statler	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2415	Plugged	39.096375	-80.680632
41	4704102837	Lewis	Joseph Krenn	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	Active	39.099275	-80.677282
42	4704102839	Lewis	Jim C Hamer Company	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	2392	Plugged	39.097245	-80.678027
43	4704102841	Lewis	J R Lowther	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Oil	2477	Plugged	39.089704	-80.673745
44	4704102842	Lewis	J R Lowther	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2410	Plugged	39.090139	-80.675606
45	4704102844	Lewis	Wdward/Lois Howlin	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	Active	39.087819	-80.672814
46	4704102845	Lewis	A T Gooden	Eastern Gas Transmission & Storage, Inc.	Berea	Observation	2190	Active	39.083503	-80.677808
47	4704102846	Lewis	A T Gooden	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Oil	2385	Plugged	39.084918	-80.674861
48	4704102847	Lewis	A T Gooden	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Observation	-	Active	39.081708	-80.680453
49	4704102885	Lewis	Dollie Means	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Observation	2445	Active	39.077912	-80.688442
50	4704102951	Lewis	Smith & Chapman	Eastern Gas Transmission & Storage, Inc.	Big Injun (Grnbr)	Oil and Gas	2318	Active	39.068486	-80.676905
51	4704104482	Lewis	Margaret Hamberry	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2316	Plugged	39.092169	-80.682678
52	4704104485	Lewis	Dolores Hinterer	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	Plugged	39.094175	-80.687135
53	4704104704	Lewis	William Dawson Means et al	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	Plugged	39.080378	-80.683047
54	4704104738	Lewis	John Keely	Eastern Gas Transmission & Storage, Inc.	Gantz	Oil	2494	Plugged	39.102030	-80.688823
55	4704105153	Lewis	Michael D & Cheryl K Casey	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	Plugged	39.087094	-80.675420
56	4704105237	Lewis	John M Keely et al	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	Plugged	39.102030	-80.688823
57	4704130083	Lewis	J W Osbourn et al	Hope Natural Gas Company	UNKNOWN	not available	2095	Plugged	39.077332	-80.668162
58	4704130299	Lewis	Conrad Rastle	Hope Natural Gas Company	Hampshire Grp	Gas	2191	Plugged	39.090184	-80.695332

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

YELLOW DENOTES WELL WITH TVD > 4,500'

GREEN DENOTES SURVEYED WELLS

UPDATED 8/20/2021



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

September 29, 2021

R & R Oil and Gas, LLC
7147 Hackers Creek Road
Buckhannon, WV 26201

RE: Area of Review – Schmidt 1222 Well Pad (S-1H to S-6H)
Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Schmidt 1222 pad) located in Doddridge County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6962' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Schmidt 1222 Pad during the third quarter of 2022. We have identified conventional natural gas wells operated by your company within 1500' of one of the newly planned laterals. A copy of the AOR map for the well pad is attached.

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

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

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

Sincerely,

Diane White

Diane White

Enclosure

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Office of Oil and Gas
MAR 02 2022
WV Department of
Environmental Protection

04/08/2022



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

September 29, 2021

Hope Natural Gas Company
Bank One Center, West 3rd Street
Clarksburg, WV 26301

RE: Area of Review – Schmidt 1222 Well Pad (S-1H to S-6H)
Hydraulic Fracturing Notice

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

Sincerely,

Diane White

Diane White

Enclosure

04/08/2022



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

September 29, 2021

Eastern Gas Transmission and Storage, Inc.
925 White Oaks Blvd
Bridgeport, WV 26330

RE: Area of Review – Schmidt 1222 Well Pad (S-1H to S-6H)
Hydraulic Fracturing Notice

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Sincerely,

Diane White

Diane White

Enclosure

04/08/2022



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

September 29, 2021

Beta Helix Energy, LLC
12864 Staunton Turnpike
Smithville, WV 26178

RE: Area of Review – Schmidt 1222 Well Pad (S-1H to S-6H)
Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Schmidt 1222 pad) located in Doddridge County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6962' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Schmidt 1222 Pad during the third quarter of 2022. We have identified conventional natural gas wells operated by your company within 1500' of one of the newly planned laterals. A copy of the AOR map for the well pad is attached.

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

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

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

Sincerely,

Diane White

Diane White

Enclosure

04/08/2022



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

September 29, 2021

Ross & Wharton Company
29 Morton Street
Buckhannon, WV 26201

RE: Area of Review – Schmidt 1222 Well Pad (S-1H to S-6H)
Hydraulic Fracturing Notice

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

September 29, 2021

Greylock OPCO, LLC
500 Corporate Landing
Charleston, WV 25311

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Enclosure

04/08/2022



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

September 29, 2021

Beechlick Oil, Inc.
3076 Big Isaac Road
Salem, WV 26426

RE: Area of Review – Schmidt 1222 Well Pad (S-1H to S-6H)
Hydraulic Fracturing Notice

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Diane White

Enclosure

04/08/2022

HG Energy II Appalachia, LLC

Site Safety Plan

**1222 Well Pad
3156 Saint Clara Rd, Alum Bridge
Doddridge County, WV 26321**

September 2021: 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
2/23/2022*

RECEIVED
Office of Oil and Gas

MAR 02 2022

WV Department of
Environmental Protection

TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 05 - 00

Tag	Bearing	Dist.
L1	S 62°11' E	786.7'
L2	S 44°06' W	1,117.0'
L3	N 85°58' W	2,033.4'
L4	N 01°08' W	1,471.1'
L5	S 20°43' W	2,579.5'

TOP LONGITUDE 80 - 40 - 00
BTM LONGITUDE 80 - 40 - 00

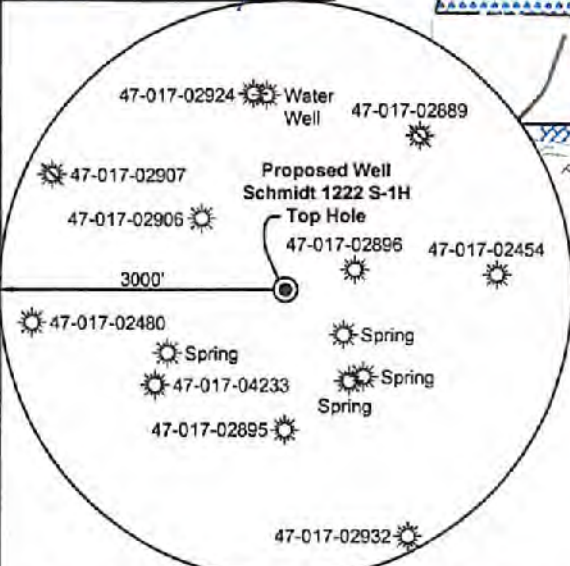
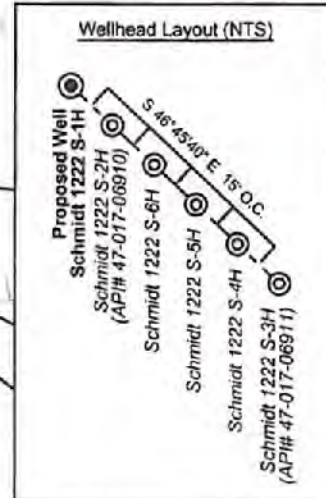
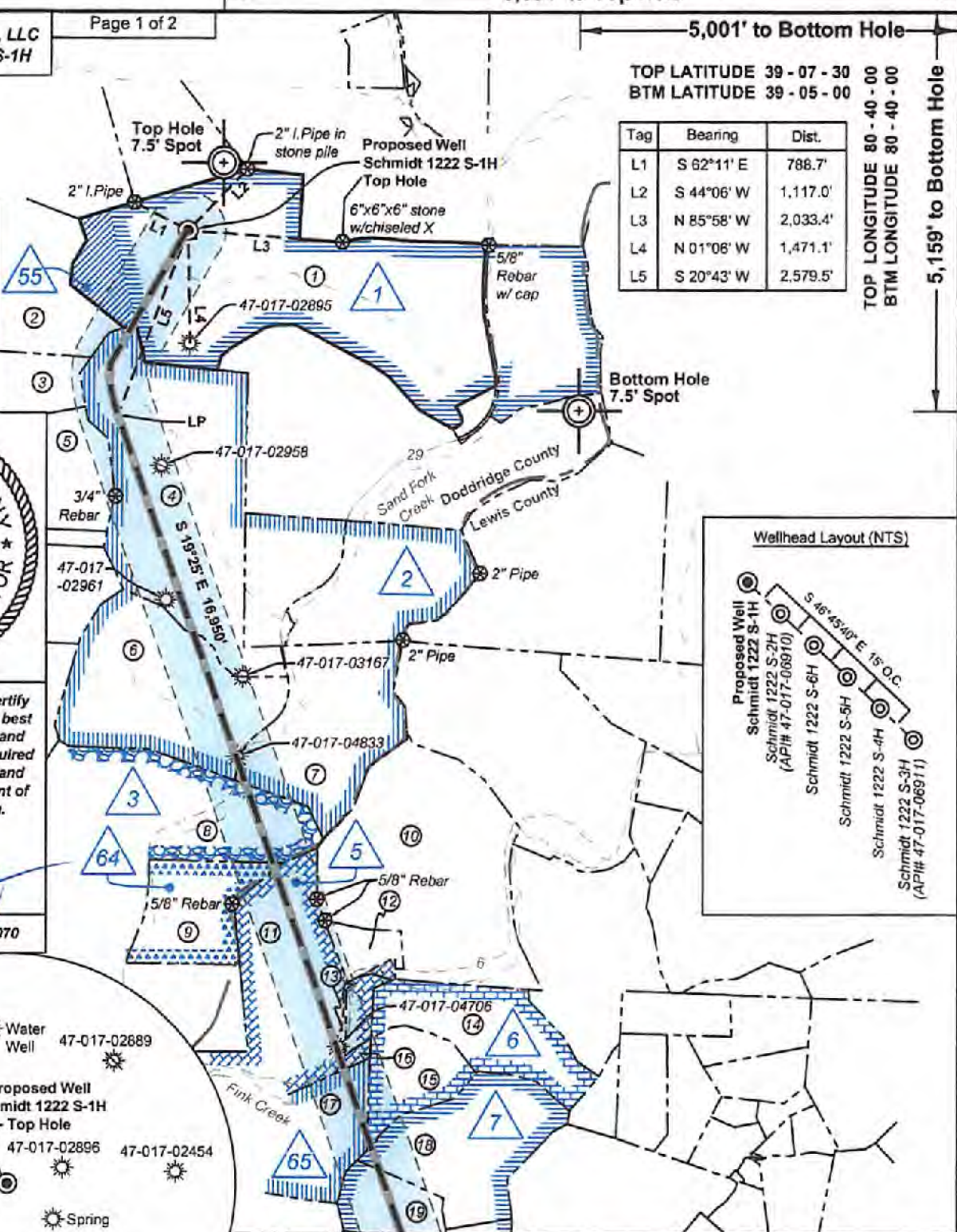
1,921' to Top Hole



SEAL

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
Dwayne D. Matheny, P.S./2070



Note: 0 water wells & 4 springs was found within 1500' 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.

MATCHLINE Sheet 2

GRID NORTH

Notes:
Well No. Schmidt 1222 S-1H
West Virginia Coordinate System of 1927, North Zone
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,206,386.64'
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Landing Point Coordinates
N: 14,203,974.02'
E: 1,724,439.02'
Bottom Hole Coordinates
N: 14,187,994.63'
E: 1,730,072.43'

Notes: Well No. Schmidt 1222 S-1H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
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Top Hole Coordinates Bottom Hole Coordinates
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E: 525,888.238m E: 527,327.131m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

FILE NO: 156-12-FC-21
DRAWING NO: Schmidt 1222 S-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: February 3 2022
OPERATOR'S WELL NO. Schmidt 1222 S-1H
API WELL NO
47 - 017 - 06922
STATE COUNTY PERMIT

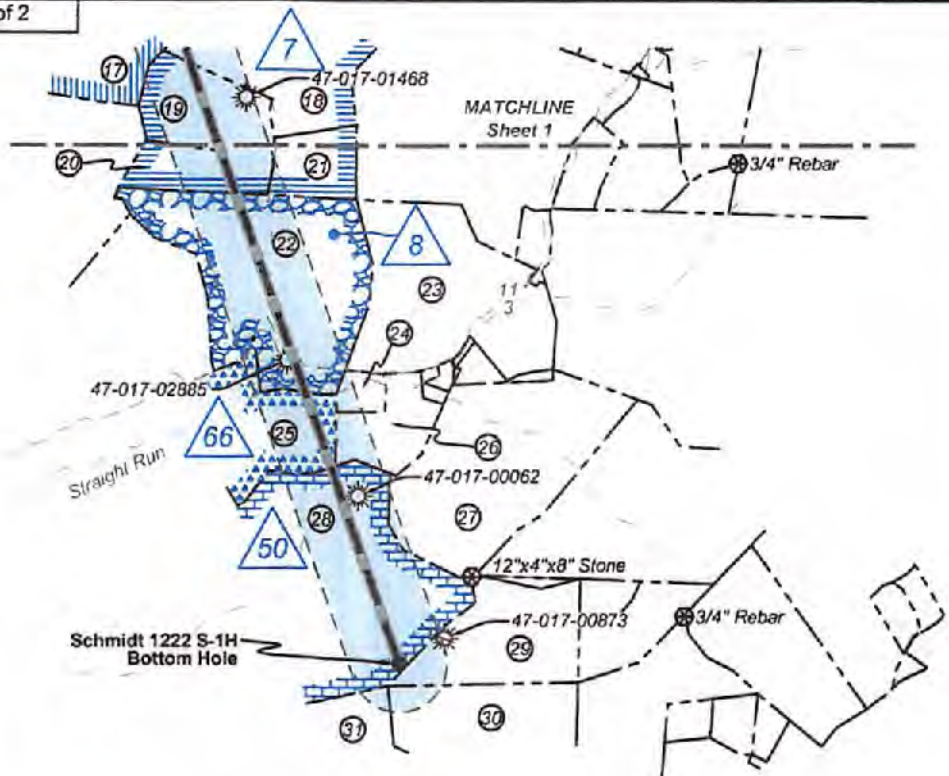
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,111' WATERSHED: Sand Fork of Fink Creek
DISTRICT: Cove/Freemans Creek
SURFACE OWNER: John A. Schmidt
ROYALTY OWNER: Frona M. Schmidt, et ux, et al LEASE NO: ACREAGE: 289.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Drill pilot hole, plug back & drill horizontal well
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,729' 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

04/08/2022



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1	Frona M. Schmidt, et vir
2	Leopold Krenn, et ux
3	HG Energy II Appalachia, LLC
5	HG Energy II Appalachia, LLC
6	HG Energy II Appalachia, LLC
7	HG Energy II Appalachia, LLC
8	Dollie Means, et al
50	Lydia Starcher, et al
55	John Ancil Schmidt
64	HG Energy II Appalachia, LLC
65	HG Energy II Appalachia, LLC
66	N.N. Wiseman, et al

Legend

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

Doddridge Co. - Cove Dist.				
No.	TM / Per	Owner	Bk / Pg	Ac.
1	10 / 18.1	John A. Schmidt	281 / 622	237.07
2	10 / 16.1	Richard E. Spracklen	APP 41 / 714	74.90
3	10 / 16	Marilyn Barnes, et al	W28 / 552	76.10
4	14 / 2	Georganna & Henry Miller, Jr.	333 / 202	153.55
5	10 / 17	Marilyn Barnes, et al	W28 / 552	90.00
6	14 / 2.2	Michael E. Dayhoff	429 / 259	128.50
7	14 / 2.1	Lois Hluhan	262 / 583	80.60
8	14 / 3	Keith A. Tatro, et al	W56 / 172	101.37
9	14 / 4.1	James & Mary Donnelly	222 / 564	41.20
Lewis Co. - Freemans Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
10	1D / 12	Dolores Hinterer	WB Y / 218	138.19
11	1D / 11	Barbara Moorefield	W25 / 401	98.24
12	1D / 13	Dolores Hinterer	511 / 165	12.00
13	1D / 11.4	Marvin & Douglas Shinn	680 / 693	1.47
14	2D / 6	Margaret Hambery Estate	APP 150 / 46	57.25
15	1D / 11.2	James Boyer Jr.	603 / 60	30.60
16	1D / 11.3	James Boyer Jr.	603 / 60	2.20
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SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV



DATE: February 3 2022
OPERATOR'S WELL NO. Schmidt 1222 S-1H
API WELL NO
47 - 017 - 06922
STATE COUNTY PERMIT

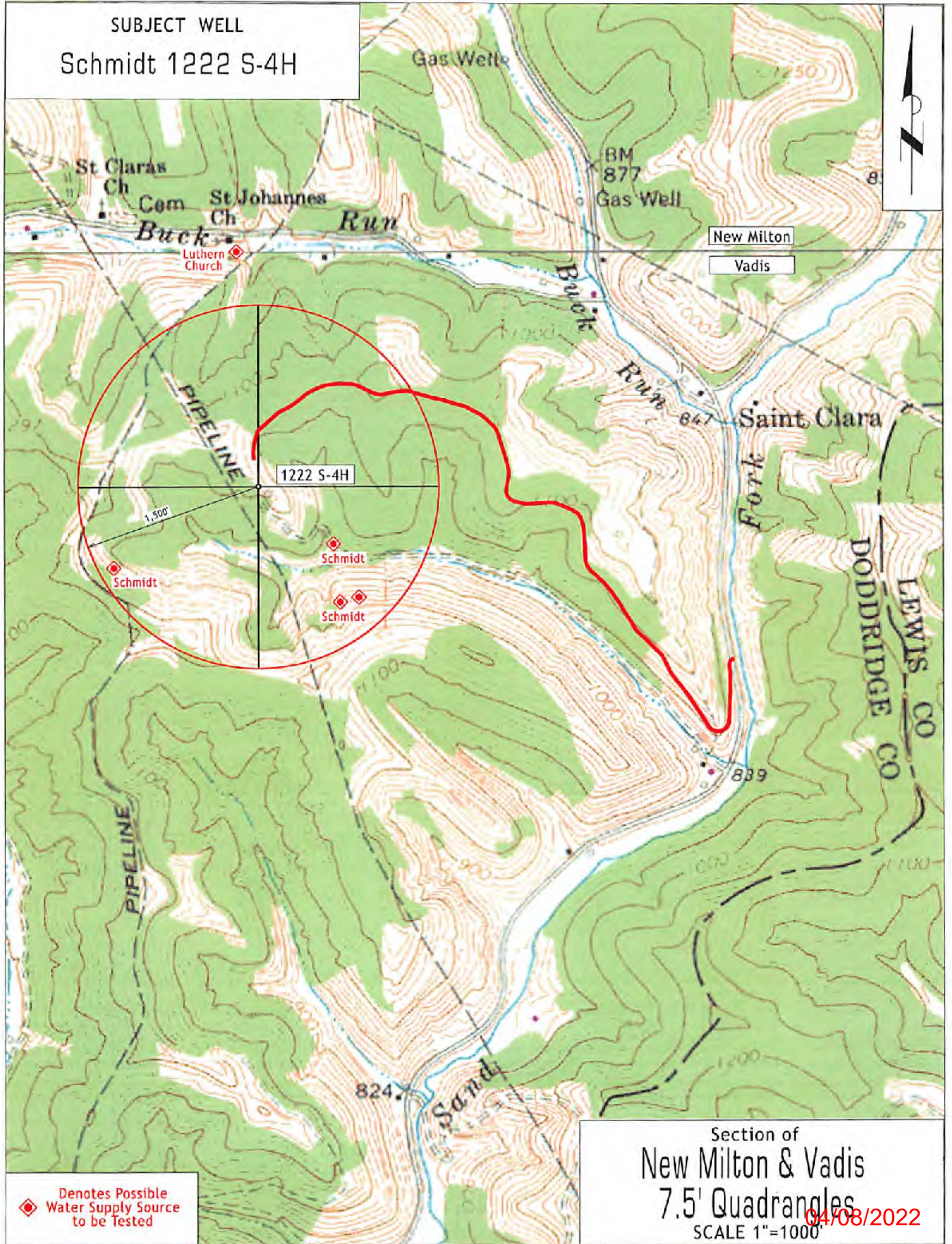
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,111' WATERSHED: Sand Fork of Fink Creek QUADRANGLE: Vadis
DISTRICT: Cove/Freemans Creek COUNTY: Doddridge/Lewis
SURFACE OWNER: John A. Schmidt ACREAGE: 237.07
ROYALTY OWNER: Frona M. Schmidt, et ux, et al LEASE NO: ACREAGE: 289.00

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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

SUBJECT WELL
Schmidt 1222 S-4H



◆ Denotes Possible Water Supply Source to be Tested

Section of
New Milton & Vadis
7.5' Quadrangles
SCALE 1"=1000'

04/08/2022

9,654' to Top Hole

5,001' to Bottom Hole

TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 05 - 00

Tag	Bearing	Dist.
L1	S 62°11' E	788.7'
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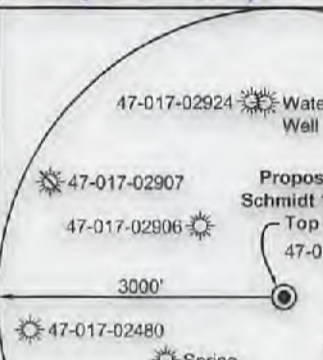
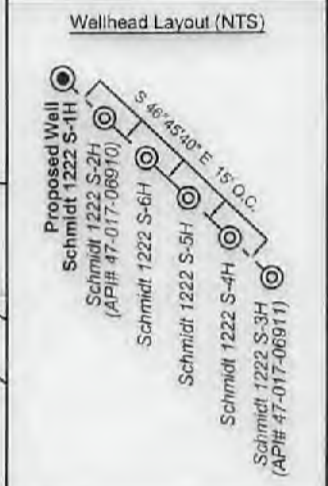
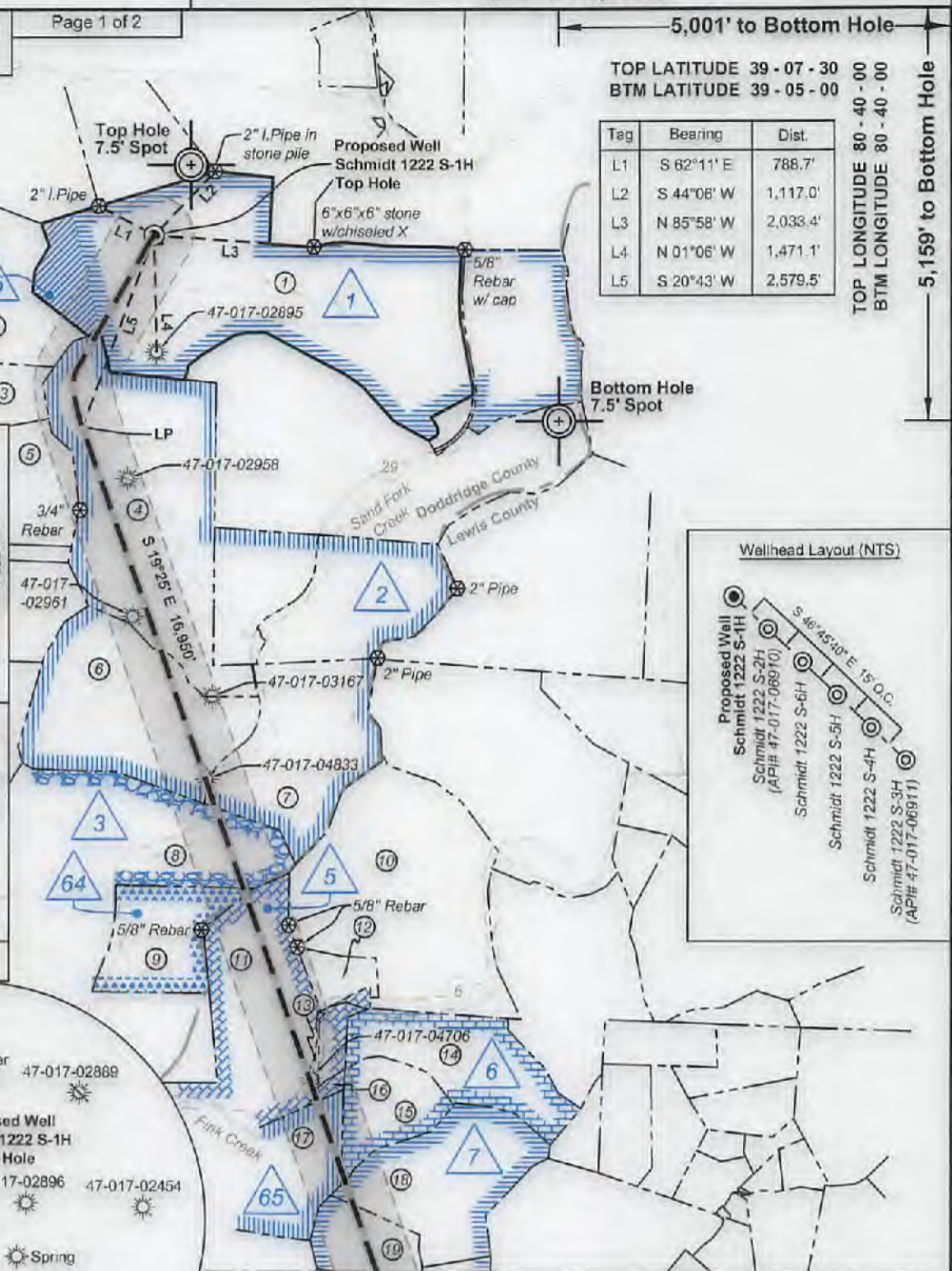
TOP LONGITUDE 80 - 40 - 00
BTM LONGITUDE 80 - 40 - 00
5,159' to Bottom Hole

1,921' to Top Hole



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
Dwayne D. Matheny, P.S. 2070



Note: 0 water wells & 4 springs was found within 1500' 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.

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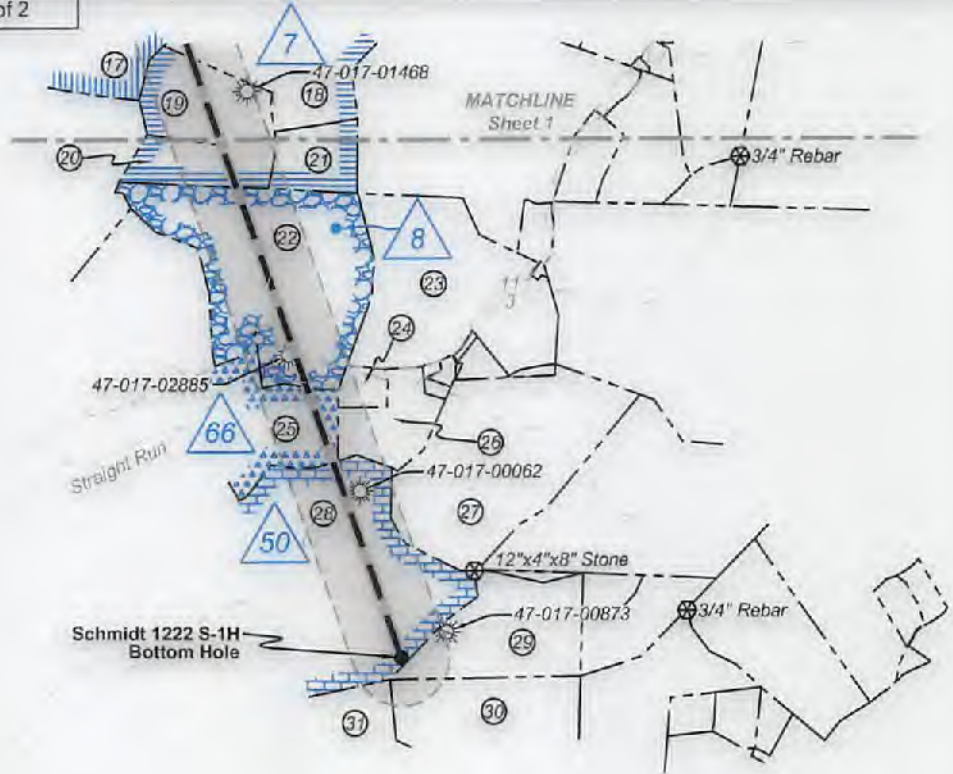
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

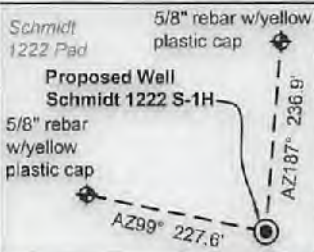
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API WELL NO
47 - 017 - 01922
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1,111' WATERSHED: Sand Fork of Fink Creek
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Parkersburg, WV 26101 Parkersburg, WV 26101



**Well Location References
Not to Scale**



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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: February 3 2022
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API WELL NO
47 - 017 - 06922
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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QUADRANGLE: Vadis
COUNTY: Doddridge

DISTRICT: Cove/Freemans Creek

ACREAGE: 237.07

SURFACE OWNER: John A. Schmidt

ROYALTY OWNER: Frona M. Schmidt, et ux, et al

LEASE NO: ACREAGE: 289.00

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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Drill pilot hole, plug back & drill horizontal well 6,962' TVD

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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

WW-6A1
(5/13)

Operator's Well No. Schmidt 1222 S-2H

**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

S-14

HG Energy II Appalachia, LLC - Schmidt 1222

1222S Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	FRONA SCHMIDT AND E. A. SCHMIDT, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	54	167
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	143	345
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135	583
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	323	187
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	337	446
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	424	234
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	377	212
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	449	364
				DOMINON 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	454	483
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	475	576
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	479	1				
55	N/A	P/O 02-0010-0018-0001	TBD	JOHN ANCIL SCHMIDT	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8		
2	FK054802 FK087531 FEE	02-0014-0002-0000 02-0014-0002-0001 02-0014-0002-0002 02-0014-0002-0003 02-0014-0002-0004	Q100902000	LEOPOLD KRENN AND THERESIA KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	23	157
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	53	162
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	54	178
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	143	345
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135	583
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	323	187
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				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	394	646
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	424	234
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	377	212
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	449	468
DOMINON 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	454	483				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	475	576				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	479	1				
3	FK079412 FEE	p/o 02-0014-0003-0000	FK079412 FEE	CLARA WANSTREET	CONSOLIDATED GAS SUPPLY CORPORATION	Mineral Deed	157	723
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135	583
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	475	576
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	(LEWIS) 740	746
				FRONA M. SCHMIDT	CONSOLIDATED GAS SUPPLY CORPORATION	Mineral Deed	164	55
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135	583
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	(LEWIS) 740	746
				CONRAD RASTLE AND MARY RASTLE, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	24	370
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
				DOMINON 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	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
				CLARA GAMSJAGER	Dominion Transmission	Mineral Deed	327	185
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135	583
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	424	234
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	377	212
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	449	468
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
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				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON 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	723	499

				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
7	FK078560 FEE	03-001D-0015-0000 03-001D-0017-0000 03-002D-0008-0000 03-002D-0009-0000	FK078560 FEE	OTHO MEANS AND OMIE MEANS, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	99	68
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
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DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746				
8	FK055278 FK067373	03-002E-0001-0000	Q100677001 Q100315000	DOLLIE MEANS, SINGLE; TEDDIE B. MEANS, SINGLE; CARLTON G. MEANS, SINGLE; OPAL MATHENY AND D. M. MATHENY, HER HUSBAND; AND MABEL MEANS, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	168	295
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				66	FK055106	03-001E-0052-0000	Q100490000	N.N. WISEMAN AND AUDREY WISEMAN, HIS WIFE; AND W. H. LATTEA AND LOLIE P. LATTEA, HIS WIFE
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672					154
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CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722					170
DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
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DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734					558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736					220

✓	50	FK066125 HG110001 HG110002	p/o 03-002E-0044-0000	Q100990000	LYDIA STARCHER, SINGLE; D. O. MEANS AND CORA MEANS, HIS WIFE; MINNIE M. BRADFORD AND R. D. BRADFORD, HER HUSBAND; ELYSON M. LASURE AND SIMON LASURE, HER HUSBAND; C. W. RADCLIFF, WIDOWER; OPAL WOOFER AND OTIS M. WOOFER, HER HUSBAND; J. B. MEANS; CLARICE PRATT AND HARLEY PRATT, HER HUSBAND; ELLA METZ, WIDOW; OLEY U. CAMPBELL AND A. B. CAMPBELL, HER HUSBAND; OLEY U. CAMPBELL, GUARDIAN OF LORETTA MAE MEANS; JAMES G. MEANS; WILLIAM A. MEANS, SINGLE; FRANCIS M. MEANS AND EDRIE E. MEANS, HIS WIFE; MARGARET F. FARBER AND SAMUEL H. FARBER, HER HUSBAND; NORMA O. DONALD AND R. W. DONALD, HER HUSBAND; PEARL WHITE AND VIRGIL A. WHITE, HER HUSBAND; VIRGIL C. RADCLIFF AND CATHERINE E. RADLIF, HIS WIFE, SARAH I. WALLICK AND ELMORE W. WALLICK, HER HUSBAND; MILDRED MCINTYRE AND JAMES W. MCINTYRE, HER HUSBAND; EDITH ELLEN KIDWELL AND FRANCIS J. KIDWELL, HER HUSBAND; OPAL BRADY AND WOODROW W. BRADY, HER HUSBAND; ROY I. MEANS AND IRENE E. MEANS, HIS WIFE; AGNES E. MEANS, SINGLE; ARLIE TETER AND CLARENCE TETER, HER HUSBAND; O. R. MEANS AND VADA MEANS, HIS WIFE; BEULAH TUCKER AND G. B. TUCKER, HER HUSBAND; MARGARET MEANS, WIDOW; MARGARET ANN YARBROUGH; MYRA R. MCBRIDE, COMMITTEE OF GRACE MEANS, AN INCOMPETENT PERSON; AND NORA O. BARNES AND THOMAS G. BARNES, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	236	141
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
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					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
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					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220



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

4701706922

September 27, 2021

Cragin Blevins
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Drilling Under Roads – Schmidt 1222 S-1H
Cove District, Doddridge County
West Virginia

Dear Mr. Blevins:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Schmidt 1222 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 Schmidt 1222 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

04/08/2022

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

Date of Notice Certification: 10/01/2021

API No. 47- _____
Operator's Well No. Schmidt 1222 S-1H
Well Pad Name: Schmidt 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>525888.2</u>
County: <u>Doddridge</u>		Northing: <u>4330115.4</u>
District: <u>Cove</u>	Public Road Access: <u>WV18 and CR29</u>	
Quadrangle: <u>Vadis WV 7.5's</u>	Generally used farm name: <u>Schmidt</u>	
Watershed: <u>Sand Fork</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 checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input 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 type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

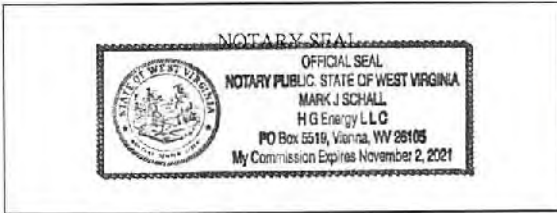
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

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: HG II Appalachia, LLC
By: Diane White
Its: Agent
Telephone: 304-420-1119 *Diane White*

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3172
Email: dwhite@hgenergyllc.com



Subscribed and sworn before me this 1st day of October, 2021.
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.

WW-6A
(9-13)

API NO. 47- -
OPERATOR WELL NO. Schmidt 1222 S-1H to S-6H
Well Pad Name: Schmidt 1222

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: 09/30/21 Date Permit Application Filed: 10/04/21

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: John Ancil Schmidt (pad, road, water)

Address: 3184 St Clara Road
Alum Bridge, WV 26321

Name: Daniel & Yvette King

Address: 16483 US 224 E
Findley, OH 45840

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

Name: Don & Terri Riffe

Address: 2632 St Clara Road
New Milton, WV 26441

Name: William & Forrest Wyson

Address: 3417 Maple Leaf Lane
Richardson, TX 75082

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: NA

Address: _____

COAL OPERATOR

Name: NA

Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____

Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: NA

Address: _____

*Please attach additional forms if necessary

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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(8-13)

API NO. 47-4701706922
OPERATOR WELL NO. Schmidt 1222 S-1H to S-6H
Well Pad Name: Schmidt 1222

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

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.**

04/08/2022

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. Schmidt 1222 S-1H to S-8H
Well Pad Name: Schmidt 1222

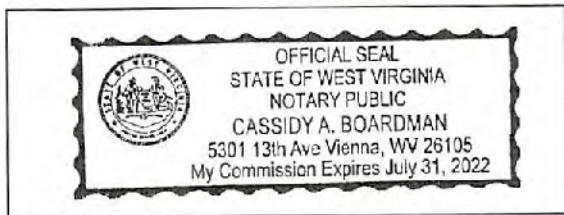
Notice is hereby given by:

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

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 depprivacyofficer@wv.gov.



Subscribed and sworn before me this 27th day of September, 2021.

Cassidy Boardman Notary Public

My Commission Expires 7/31/2022

04/08/2022



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

4701706922

September 29, 2021

John A. Schmidt
3164 St. Clara Road
Alum Bridge, WV 26321

RE: Schmidt 1222 S-1H thru S-6H Well Work Permit Application - Notification
Cove District, Doddridge County
West Virginia

Dear Mr. Schmidt:

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

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

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

04/08/2022



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

September 29, 2021

Daniel and Yvette King
16483 US 224 E
Findlay, OH 45840

RE: Schmidt 1222 S-1H thru S-6H Well Work Permit Application - Notification
Cove District, Doddridge County
West Virginia

Dear Mr. and Mrs. King -

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

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

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

04/08/2022



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

September 29, 2021

William and Forrest Wysong
3417 Maple Leaf Lane
Richardson, TX 75082

RE: Schmidt 1222 S-1H thru S-6H Well Work Permit Application - Notification
Cove District, Doddridge County
West Virginia

Dear Sirs -

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

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

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

04/08/2022



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

September 29, 2021

Donald and Terri Riffiee
2532 St Clara Road
New Milton, WV 26441

RE: Schmidt 1222 S-1H thru S-6H Well Work Permit Application - Notification
Cove District, Doddridge County
West Virginia

Dear Mr. and Mrs. Riffiee -

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

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

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

04/08/2022

Sturn Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 10-01-21 1235

SAMPLE ID: SCHMIDT SPRING 1
1222 WELL PAD

DATE/TIME RECEIVED: 10-01-21 1527

SAMPLED BY: K. WILLIAMS

LABORATORY ID: HG 211001-1

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FLOW	NF	gpm				10-01-21 1235	KW
FIELD pH	8.8	units				10-01-21 1235	KW
FIELD TEMP	19.4	°C				10-01-21 1235	KW
FIELD COND	94	µmhos				10-01-21 1235	KW
pH O	6.7	units	SM 22 nd 4500 H B	.1	2.-10.	10-04-21 1201	MM
Fe	.16 J	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB
TDS	95	mg/L	USGS I-1750-85	4	4	10-05-21 0414	JS/EK
Cl ⁻	1.06	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC
MBAS	.02 J	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided

**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and/or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136.141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136/141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved



04/08/2022

Sturm Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 10-01-21 1252

SAMPLE ID: SCHMIDT 10026
1222 WELL PAD

DATE TIME RECEIVED: 10-01-21 1527

SAMPLED BY: K. WILLIAMS

LABORATORY ID: HG 211001-2

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FLOW	NF	gpm				10-01-21 1252	KW
FIELD pH	8.5	units				10-01-21 1252	KW
FIELD TEMP	20.8	°C				10-01-21 1252	KW
FIELD COND	352	µmhos				10-01-21 1252	KW
pH O	7.9	units	SM 22 nd 4500 H B	.1	2.-10.	10-04-21 1201	MM
Fe	U	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB
TDS	244	mg/L	USGS I-1750-85	4	4	10-05-21 0414	JS/EK
Cl	2.00	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC
MBAS	.02 J	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided

**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136.141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136.141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved



S *Sturm* **E** *Environmental* **S** *Services*

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.
SAMPLE ID: SCHMIDT 10022
1222 WELL PAD
SAMPLED BY: K. WILLIAMS

DATE/TIME SAMPLED: 10-01-21 1306
DATE/TIME RECEIVED: 10-01-21 1527
LABORATORY ID: HG 211001-3

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FLOW	NF	gpm				10-01-21 1306	KW
FIELD pH	7.5	units				10-01-21 1306	KW
FIELD TEMP	22.1	°C				10-01-21 1306	KW
FIELD COND	101	µmhos				10-01-21 1306	KW
pH O	7.2	units	SM 22 nd 4500 H B	.1	2.-10.	10-04-21 1201	MM
Fe	3.66	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB
TDS	100	mg/L	USGS I-1750-85	4	4	10-05-21 0414	JS EK
Cl ⁻	U	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC
MBAS	.03 J	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided

**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136/141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136/141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved



04/08/2022

Sturn Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 10-01-21 1320

SAMPLE ID: SCHMIDT 10023
1222 WELL PAD

DATE/TIME RECEIVED: 10-01-21 1527

SAMPLED BY: K. WILLIAMS

LABORATORY ID: HG 211001-4

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FLOW	NF	gpm				10-01-21 1320	KW
FIELD pH	8.7	units				10-01-21 1320	KW
FIELD TEMP	19.5	°C				10-01-21 1320	KW
FIELD COND	348	µmhos				10-01-21 1320	KW
pH O	7.6	units	SM 22 nd 4500 H B	.1	2.-10.	10-04-21 1201	MM
Fe	.23 J	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB
TDS	236	mg/L	USGS 1-1750-85	4	4	10-05-21 0414	JS/EK
Cl	2.00	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC
MBAS	.03 J	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided

**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136 141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136/141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved Victoria L Hoops

Sturn Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 10-01-21 1327

SAMPLE ID: SCHMIDT 10024
1222 WELL PAD

DATE/TIME RECEIVED: 10-01-21 1527

SAMPLED BY: K. WILLIAMS

LABORATORY ID: HG 211001-5

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FLOW	NF	gpm				10-01-21 1327	KW
FIELD pH	8.7	units				10-01-21 1327	KW
FIELD TEMP	16.0	°C				10-01-21 1327	KW
FIELD COND	210	µmhos				10-01-21 1327	KW
pH O	8.3	units	SM 22 nd 4500 H B	.1	2.-10.	10-04-21 1201	MM
Fe	.07 J	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB
TDS	139	mg/L	USGS I-1750-85	4	4	10-05-21 0414	JS/EK
Cl ⁻	2.18	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC
MBAS	.03 J	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided

**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136 141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136 141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved 

S **turm** **E** **nvironmental** **S** **ervices**

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 10-01-21 1338

SAMPLE ID: SCHMIDT 10025
1222 WELL PAD

DATE/TIME RECEIVED: 10-01-21 1527

SAMPLED BY: K. WILLIAMS

LABORATORY ID: HG 211001-6

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST		
FLOW	NF	gpm				10-01-21 1338	KW		
FIELD pH	8.2	units				10-01-21 1338	KW		
FIELD TEMP	14.5	°C				10-01-21 1338	KW		
FIELD COND	128	µmhos				10-01-21 1338	KW		
pH	O	7.6	units	SM 22 nd 4500 H B	.1	2.-10.	10-04-21 1201	MM	
Fe		.99	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB	
TDS		121	mg/L	USGS I-1750-85	4	4	10-05-21 0414	JS/EK	
Cl ⁻		1.14	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC	
MBAS		.02	J	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided
 **See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and/or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136/141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136/141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved 

04/08/2022

Sturm Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.
 SAMPLE ID: SCHMIDT WELL TS
 1222 WELL PAD
 SAMPLED BY: K. WILLIAMS

DATE/TIME SAMPLED: 10-01-21 1348
 DATE/TIME RECEIVED: 10-01-21 1527
 LABORATORY ID: HG 211001-7

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.9	units				10-01-21 1348	KW
FIELD TEMP	17.0	°C				10-01-21 1348	KW
FIELD COND	256	µmhos				10-01-21 1348	KW
pH O	7.6	units	SM 22 nd 4500 H B	.1	2.-10.	10-04-21 1201	MM
Fe	.25	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB
TDS	178	mg/L	USGS 1-1750-85	4	4	10-05-21 0414	JS/EK
Cl ⁻	1.90	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC
MBAS	.04	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided
 **See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136.141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136/141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved Victoria L. Hoops

Sturm Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 10-01-21 1403

SAMPLE ID: SCHMIDT WELL FO
1222 WELL PAD

DATE/TIME RECEIVED: 10-01-21 1527

SAMPLED BY: K. WILLIAMS

LABORATORY ID: HG 211001-8

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.2	units				10-01-21 1403	KW
FIELD TEMP	19.5	°C				10-01-21 1403	KW
FIELD COND	148	µmhos				10-01-21 1403	KW
pH O	7.0	units	SM 22 nd 4500 H B	.1	2,-10.	10-04-21 1201	MM
Fe	.13 J	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	10-04-21 1953	DB
TDS	99	mg/L	USGS 1-1750-85	4	4	10-05-21 0414	JS EK
Cl	U	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	10-08-21 0337	DC
MBAS	.02 J	mg/L	SM22 nd 5540C	.02	.04	10-01-21 2208	SW

*Client Provided
**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136.141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136.141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved 

04/08/2022

Sturm Environmental Services

CHAIN OF CUSTODY RECORD

STURM ENVIRONMENTAL
BRUSHY FORK ROAD
BRIDGEPORT, WV 26330
PHONE: 304-623-6549
FAX: 304-623-6552

STURM ENVIRONMENTAL SERVICES
610 D STREET
SO. CHARLESTON, WV 25303
PHONE: 304-744-9864
FAX: 304-744-7866

MAILING ADDRESSES ARE LISTED BELOW

REPORT TO: Client Name: HG Energy

Address: _____

City/State/Zip: _____

Contact Person: _____

Telephone Number: _____

Email Address: _____

Sampler Name: (Print) Russell Williams

Project Name: STURM 222 Well Pad

Special Reporting: _____

BILL TO: Client Name: _____

Address: _____

City/State/Zip: _____

Contact Person: _____

Telephone Number: _____

Email Address: _____

Purchase Order #: _____

TURN AROUND TIME: _____

Standard _____
RUSH (pre-scheduled, surcharges may apply) Please Check One
Date Needed _____

1 DAY 2 DAY 3 DAY

Sample ID / Description	COMPOSITE SAMPLE		GRAB SAMPLE		PRESERVATIVE				MATERIAL		METHOD/ANALYSES											
	START DATE	START TIME	END DATE	END TIME	DATE	TIME	Ice	OTHER	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	# of Bottles	Field pH	Flow (gpm, cfs, mgd) circle one	Field Conductivity	Field DO	Field Chlorine (mg/L or ug/L) circle one	Field Temp (F° or C°) circle one	
Spinas 1					10-21	1235	0								3	8.8	WF	94				19.4
10020						1252									3	8.5	WF	352				20.5
10022						1306									3	7.5	WF	101				22.1
<u>Rock Spinas Feed</u>						1344									3	8.7	WF	348				19.5
10023						1320									3	8.7	WF	210				16.0
10024						1327									3	8.2	WF	128				14.5
10025						1335									3	7.9	WF	256				17.0
Well TS						1348									3	7.2		145				19.5
Well FD						1403									3							

Comments

Records retained for 5 years

Laboratory Comments: _____
Temperature Upon Receipt: _____
Bottles Preserved? _____
Temp upon Receipt: _____

2

1

N

Retained by: _____

Date: 10-21 Time: 1527

Requisitioned by: _____

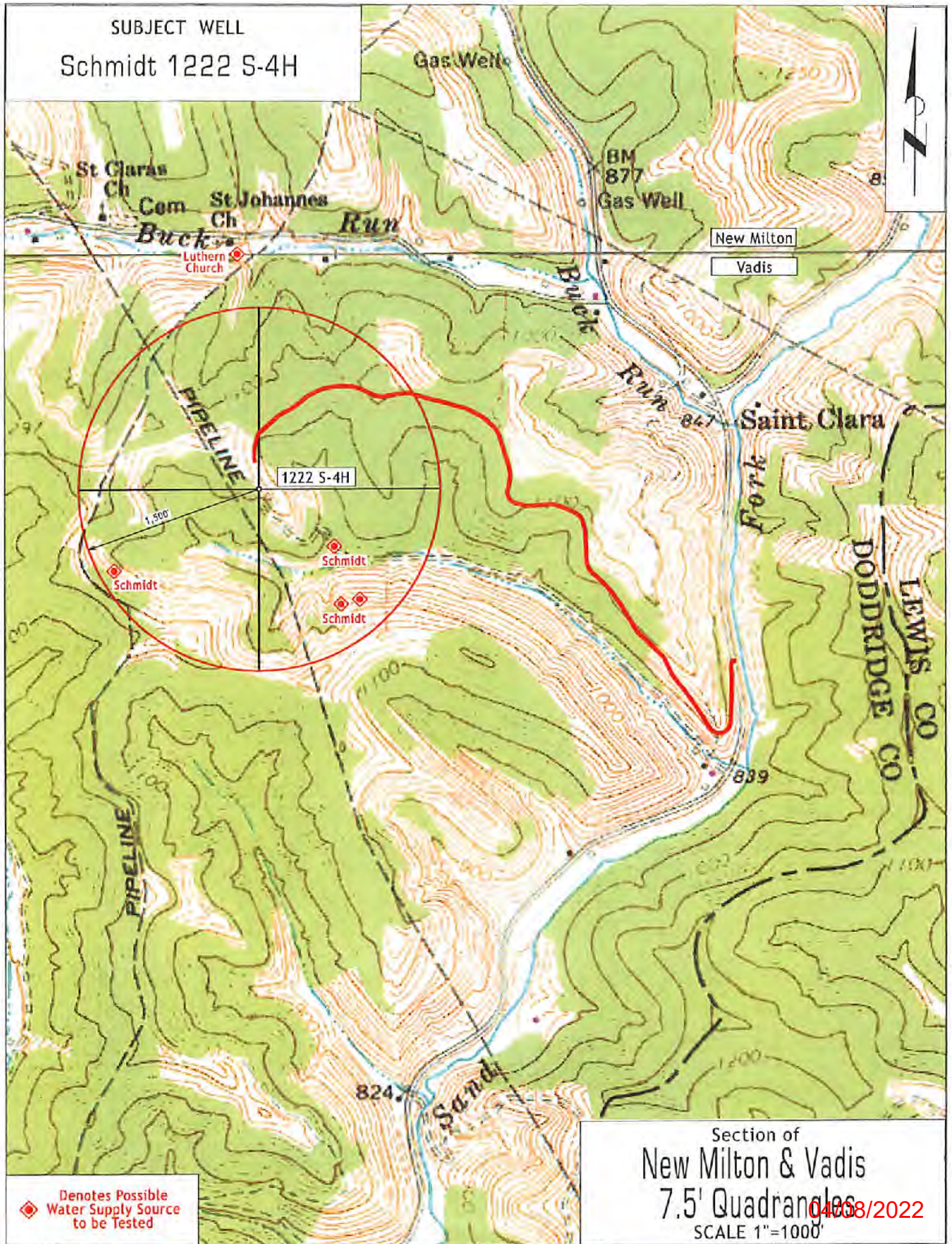
Date: 10-21 Time: 1527

Received by: _____

Date: 10-21 Time: 1527

04/08/2022

SUBJECT WELL
Schmidt 1222 S-4H



New Milton
Vadis

1222 S-4H

PIPELINE

1,500'

Schmidt

Schmidt

Schmidt

Saint Clara

LEWIS CO
DODDRIDGE CO

839

824

Sand Run

Section of
New Milton & Vadis
7.5' Quadrangles
04/08/2022
SCALE 1"=1000'

Denotes Possible
Water Supply Source
to be Tested

Diane White

From: Diane White
Sent: Thursday, September 16, 2021 11:55 AM
To: Missy Hoops
Subject: Request for Pre-Drill Water Sampling and Analysis for the Schmidt 1222 Well Pad
Attachments: 1222 water well owners - Schmidt 9.9.21.pdf

Missy,

Good morning. Could you please arrange for pre-drill sampling and testing for Ancil Schmidt, the surface owner for our Schmidt 1222 well pad? I'm not sure he wants testing but if you can offer and document if he doesn't want water to be tested. I'm attaching a topo which shows several springs but I don't see a water well in the testing area, (~1500'). Since he's the owner for the pad and road, HG is willing to test any water sources he would like to have tested.

Please identify any paperwork generated with the "Schmidt 1222 Well Pad".

John Ancil Schmidt
304-873-1369
3164 St Clara Road
Alum Bridge, WV 26321

Thanks,
Diane

Diane C. White



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
304-420-1119 (O)
304-482-0108 (C)
dwhite@hgenergyllc.com
<https://hgenergyllc.com>

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 9/15/2021 **Date of Planned Entry:** 9/25/2021

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: John A Schmidt
Address: 3154 St. Clara Road
Alum Bridge, WV 26321

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: ** See Attached List **
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Doddridge
District: Cove
Quadrangle: Vadis 7.5'

Approx. Latitude & Longitude: 39.119814 / 80.700526
Public Road Access: SLS 29
Watershed: Sand Fork
Generally used farm name: John Schmidt Farms

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: HC Energy II Appalachia, LLC
Telephone: 3047-420-1119
Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: _____

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.



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

September 15, 2021

RE: Schmidt 1222 S1H thru S-6H
Cove District, Doddridge County
West Virginia

Dear Royalty Owner

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WVDEP at 304-926-0450, located at 601 57th Street, Charleston, WV. Copies of such documents or additional information related to horizontal drilling may also be obtained by visiting the WV DEP online.

No action on your part is required. If you have any questions or comments regarding this permit application, you may call this office at (304) 420-1119. Questions concerning lease issues may be directed to Mark Schall at 304-420-1115. Address inquiries should be directed to Bethanne Wilson at 304-370-3246.

Very truly yours,

Diane White

Diane C. White

Enclosures

04/08/2022

Schmidt 1222 Royalty Listing (Using Tract 1 for the WW-3A royalty notification)

TRACT #	LEGACY LEASE #	TAX MAP	LEASE #	LESSOR	STREET ADDRESS	CITY	STATE & ZIP
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	John Ancil Schmidt	732 Old Rt. 33	Weston	WV 26452 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Thomas E. Doak & Anna S. Doak	213 Armstrong Ave.	West Union	WV 26456 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	WV Department of Transportation - Byrd E. White, III, Secretary of Transportation	1900 Kanawha Blvd, E. Bldg. 5 Room 110	Charleston	WV 25305 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Helen J. McClain	7455 Georgetown Rd.	Roanoke	WV 26447-8242 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Christine A. Wampler	1566 Wayne Dr.	West Chester	PA 19382-6934 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Lisa Denise McCutcheon	339 Moreland St.	Saint Louisville	OH 43071 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Alice M. Rastle Taylor	541 Valley Hill Ests.	Horner	WV 26372 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Franklin S. Rastle	1760 US Highway 33 W	Weston	WV 26452 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Yvonne Foster	2395 Tallmansville Rd.	Buckhannon	WV 26201 ✓
1	FK054795	02-0010-0018-0000 02-0010-0018-0001	Q100676000	Henry Gray Rastle	115 Sycamore Rd.	Alum Bridge	WV 26321 ✓

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: 09/16/2021 **Date Permit Application Filed:** 10/07/2021

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: John Ancil Schmidt
Address: 3164 St. Clara Road
Alum Bridge, WV 26321

Name: _____
Address: _____
WV Department of Environmental Protection

MAR 02 2022

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 UTMNAD 83 Easting: 525891.6
County: Doddridge Northing: 4330112.2
District: Cove Public Road Access: SLS 29
Quadrangle: Vadis WV 7.5' Generally used farm name: Schmidt
Watershed: Sand Fork

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.

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: 09/17/2021 **Date Permit Application Filed:** 10/07/2021

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: John Ancil Schmidt Name: _____
Address: 3164 St. Clara Road Address: _____
Alum Bridge, WV 26321

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: 525891.5
County: Doddridge Northing: 4330112.2
District: Cove Public Road Access: SLS 29
Quadrangle: Vadis WV 7.5' Generally used farm name: Schmidt
Watershed: Sand Fork

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.

RECEIVED
Office of Oil and Gas

MAR 02 2022

WV Department of
Environmental Protection

04/08/2022



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

D. Alan Reed, P.E.
State Highway Engineer

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

October 18, 2021

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 Schmidt 1222 Pad , Doddridge County

Schmidt 1222 S-2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2021-0904 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Doddridge County Route 29 SLS MP 2.98.

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. This letter is valid for permitting purposes for one year from the date of this letter.

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

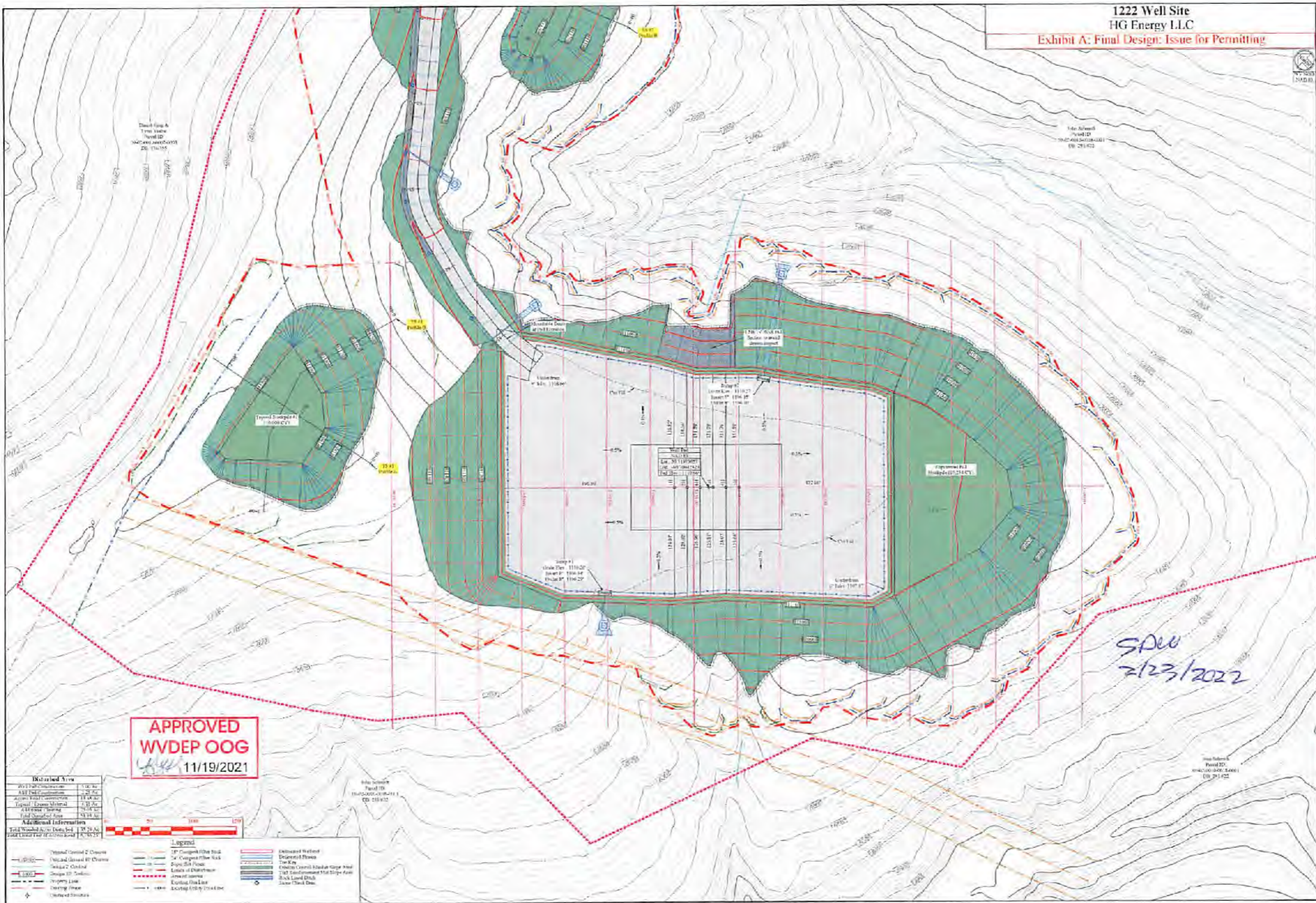
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MAR 02 2022
Division of Oil and Gas

WV Department of
Environmental Protection

HG Energy II Appalachia, LLC

**List of Frac Additives by Chemical Name and CAS #
Schmidt 1222 Well Pad (S-1H, S-2H, S-3H, S-4H, S-5H, and S-6H)**

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	



APPROVED
WVDEP OOG
[Signature] 11/19/2021

Disturbed Area	
20' Buffer	1,100.00
10' Buffer	1,100.00
Access Road Construction	11.00
Typical Design #1	1,100.00
Typical Design #2	1,100.00
Typical Design #3	1,100.00
Total Disturbed Area	3,510.00



Legend		
Typical Design #1	10' Contour (Blue)	Estimated Well
Typical Design #2	20' Contour (Red)	Design #1
Typical Design #3	30' Contour (Green)	Design #2
Access Road	40' Contour (Yellow)	Design #3
Property Line	50' Contour (Orange)	Design #4
Disturbed Area	60' Contour (Light Green)	Design #5
Well Pad	70' Contour (Light Blue)	Design #6
Well Pad	80' Contour (Light Purple)	Design #7
Well Pad	90' Contour (Light Cyan)	Design #8
Well Pad	100' Contour (Light Blue-Green)	Design #9
Well Pad	110' Contour (Light Green)	Design #10
Well Pad	120' Contour (Green)	Design #11
Well Pad	130' Contour (Dark Green)	Design #12
Well Pad	140' Contour (Dark Green)	Design #13
Well Pad	150' Contour (Dark Green)	Design #14
Well Pad	160' Contour (Dark Green)	Design #15
Well Pad	170' Contour (Dark Green)	Design #16
Well Pad	180' Contour (Dark Green)	Design #17
Well Pad	190' Contour (Dark Green)	Design #18
Well Pad	200' Contour (Dark Green)	Design #19
Well Pad	210' Contour (Dark Green)	Design #20
Well Pad	220' Contour (Dark Green)	Design #21
Well Pad	230' Contour (Dark Green)	Design #22
Well Pad	240' Contour (Dark Green)	Design #23
Well Pad	250' Contour (Dark Green)	Design #24
Well Pad	260' Contour (Dark Green)	Design #25
Well Pad	270' Contour (Dark Green)	Design #26
Well Pad	280' Contour (Dark Green)	Design #27
Well Pad	290' Contour (Dark Green)	Design #28
Well Pad	300' Contour (Dark Green)	Design #29
Well Pad	310' Contour (Dark Green)	Design #30
Well Pad	320' Contour (Dark Green)	Design #31
Well Pad	330' Contour (Dark Green)	Design #32
Well Pad	340' Contour (Dark Green)	Design #33
Well Pad	350' Contour (Dark Green)	Design #34
Well Pad	360' Contour (Dark Green)	Design #35
Well Pad	370' Contour (Dark Green)	Design #36
Well Pad	380' Contour (Dark Green)	Design #37
Well Pad	390' Contour (Dark Green)	Design #38
Well Pad	400' Contour (Dark Green)	Design #39
Well Pad	410' Contour (Dark Green)	Design #40
Well Pad	420' Contour (Dark Green)	Design #41
Well Pad	430' Contour (Dark Green)	Design #42
Well Pad	440' Contour (Dark Green)	Design #43
Well Pad	450' Contour (Dark Green)	Design #44
Well Pad	460' Contour (Dark Green)	Design #45
Well Pad	470' Contour (Dark Green)	Design #46
Well Pad	480' Contour (Dark Green)	Design #47
Well Pad	490' Contour (Dark Green)	Design #48
Well Pad	500' Contour (Dark Green)	Design #49
Well Pad	510' Contour (Dark Green)	Design #50
Well Pad	520' Contour (Dark Green)	Design #51
Well Pad	530' Contour (Dark Green)	Design #52
Well Pad	540' Contour (Dark Green)	Design #53
Well Pad	550' Contour (Dark Green)	Design #54
Well Pad	560' Contour (Dark Green)	Design #55
Well Pad	570' Contour (Dark Green)	Design #56
Well Pad	580' Contour (Dark Green)	Design #57
Well Pad	590' Contour (Dark Green)	Design #58
Well Pad	600' Contour (Dark Green)	Design #59
Well Pad	610' Contour (Dark Green)	Design #60
Well Pad	620' Contour (Dark Green)	Design #61
Well Pad	630' Contour (Dark Green)	Design #62
Well Pad	640' Contour (Dark Green)	Design #63
Well Pad	650' Contour (Dark Green)	Design #64
Well Pad	660' Contour (Dark Green)	Design #65
Well Pad	670' Contour (Dark Green)	Design #66
Well Pad	680' Contour (Dark Green)	Design #67
Well Pad	690' Contour (Dark Green)	Design #68
Well Pad	700' Contour (Dark Green)	Design #69
Well Pad	710' Contour (Dark Green)	Design #70
Well Pad	720' Contour (Dark Green)	Design #71
Well Pad	730' Contour (Dark Green)	Design #72
Well Pad	740' Contour (Dark Green)	Design #73
Well Pad	750' Contour (Dark Green)	Design #74
Well Pad	760' Contour (Dark Green)	Design #75
Well Pad	770' Contour (Dark Green)	Design #76
Well Pad	780' Contour (Dark Green)	Design #77
Well Pad	790' Contour (Dark Green)	Design #78
Well Pad	800' Contour (Dark Green)	Design #79
Well Pad	810' Contour (Dark Green)	Design #80
Well Pad	820' Contour (Dark Green)	Design #81
Well Pad	830' Contour (Dark Green)	Design #82
Well Pad	840' Contour (Dark Green)	Design #83
Well Pad	850' Contour (Dark Green)	Design #84
Well Pad	860' Contour (Dark Green)	Design #85
Well Pad	870' Contour (Dark Green)	Design #86
Well Pad	880' Contour (Dark Green)	Design #87
Well Pad	890' Contour (Dark Green)	Design #88
Well Pad	900' Contour (Dark Green)	Design #89
Well Pad	910' Contour (Dark Green)	Design #90
Well Pad	920' Contour (Dark Green)	Design #91
Well Pad	930' Contour (Dark Green)	Design #92
Well Pad	940' Contour (Dark Green)	Design #93
Well Pad	950' Contour (Dark Green)	Design #94
Well Pad	960' Contour (Dark Green)	Design #95
Well Pad	970' Contour (Dark Green)	Design #96
Well Pad	980' Contour (Dark Green)	Design #97
Well Pad	990' Contour (Dark Green)	Design #98
Well Pad	1000' Contour (Dark Green)	Design #99
Well Pad	1010' Contour (Dark Green)	Design #100



THIS DOCUMENT
 PREPARED FOR
 HG ENERGY LLC



Site Plan
 1222 Well Site
 Cove District
 Doddridge County, WV

Date: 09/13/2021
 Scale: As Shown
 Designer: Bk 7.5
 Title: S
 Sheet: 18 of 25