



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-6H
47-017-06925-00-00

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

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

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

James A. Martin
Chief


Operator's Well Number: SCHMIDT 1222 S-6H
Farm Name: JOHN A SCHMIDT
U.S. WELL NUMBER: 47-017-06925-00-00
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.

<u>494519932</u>	<u>Doddridge</u>	<u>Cove</u>	<u>Vadis 7.5'</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Schmidt 1222 S-6H 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'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28,227'

11) Proposed Horizontal Leg Length: 19,685'

12) Approximate Fresh Water Strata Depths: 54', 150', 826'

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

14) Approximate Saltwater Depths: NA

15) Approximate Coal Seam Depths: 425'-431', 725'-829'

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

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

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

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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	5862'	5862'	Lead - 40% excess, Tail - 0% Excess <input type="checkbox"/>
Production	5 1/2"	NEW	P-110 HP	23	28227'	28227'	Lead - Yield = 1.15, Tail - yield = 1.94 <input type="checkbox"/>
Tubing							
Liners							

*SDW
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 = 1.15, tail yield = 1.94 <input type="checkbox"/>
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WV Department of
Environmental Protection

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 19,685' lateral length, 28,227', 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 6.5' long joint to the top of the curve.

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

Conductor - N/A, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water - *15.6 ppg Class A Neat 94#/sk40% ExcessYield=1.18 / CTS*
Intermediate - *Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS*
Production - *Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc ECI + 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% ExcessLead 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.

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*Note: Attach additional sheets as needed.

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

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>85997-15-1</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	85997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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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>1302-78-9</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	1302-78-9	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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EC-1	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>111-78-2</td> </tr> <tr> <td>Proprietary surfactant</td> <td>10 - 20</td> <td>Trade secret.</td> </tr> <tr> <td>D-Glucopyranose, oligomeric</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	111-78-2	Proprietary surfactant	10 - 20	Trade secret.	D-Glucopyranose, oligomeric	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



1222 S-6H
Marcellus Shale Horizontal
Lewis County, WV

Ground Elevation			1222 S-6H SHL					14206366.09N 1725373.52E		
Azm			1222 S-6H LP					14205363.78N 1729250.69E		
WELLBORE DIAGRAM			1222 S-6H BHL					14186805.75N 1735793.18E		
HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
	20"	20" 94# LS			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" 64.5# 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 = 0.390" wall thickness Burst=2730 psi
			Fresh Water Protection	0	1000					
	12.25"	9-5/8" 40# N-80 BTC	Little Limer/Big Lime	2057/2136	2055/2166	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' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=5750 psi
			Big Injun/Gantz	2174/2521	2258/2535					
			50 Foot/Gordon	2629/2726	2651/2864					
			Fifth	2977	3021					
			Bayard	3052	3064					
			Warren/Speechley	3359/3564	3383/3583					
			Benson	4967	4989					
	Intermediate	0	TVD: 5116' MD: 5862' Inc. 35 deg.							
	8.75'	5-1/2" 23# P-110 HP CDC HTQ	Alexander	5241	5363	AIR / 9.0ppg SOBDM	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
Rhinestreet	6106		6408							
Cashaque	6408		6660							
Middlesex	6660		6727							
West River	6727		6814							
Burkett	6814		6850							
Tully Limestone	6850		6870							
Hamilton	6870		6890							
Marcellus	6890		6965							
TMD / TVD (Production)	28227		6962							
8.5" Lateral	Onondaga	6965	7000	11.5ppg-12.5ppg SOBDM						

LP @ 8962' TVD / 8542' MD

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

+/-19685' R Lateral

TD @ +/-6962' TVD
+/-28227' MD

X=centralizers

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 MAR 07 2022

WV Department of
 Environmental Protection

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Schmidt 1222 S-6H

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.? _____

*SDW
2/23/2022*

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 _____)

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air, Air/KCL, Air/SOBM, Horizontal - SOB

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

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

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

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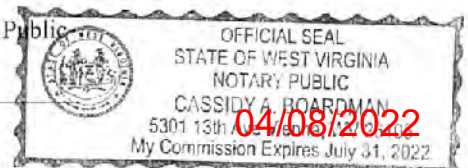
Cassidy Boardman

MAR 07 2022

Notary Public

My commission expires 7/31/2022

WV Department of
Environmental Protection



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: SID Waver II

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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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
Cochranon, 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 #R30-079001 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
Collfers, 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
930-536-6825

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 Commerca Drive
Moorestown, NJ 08057

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

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

Equipment Transport
1 Tyler Court
Carlisle, PA 17015

Myers Well Service, -----
2001 Ballpark Court
Export, PA 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

Grasella (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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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

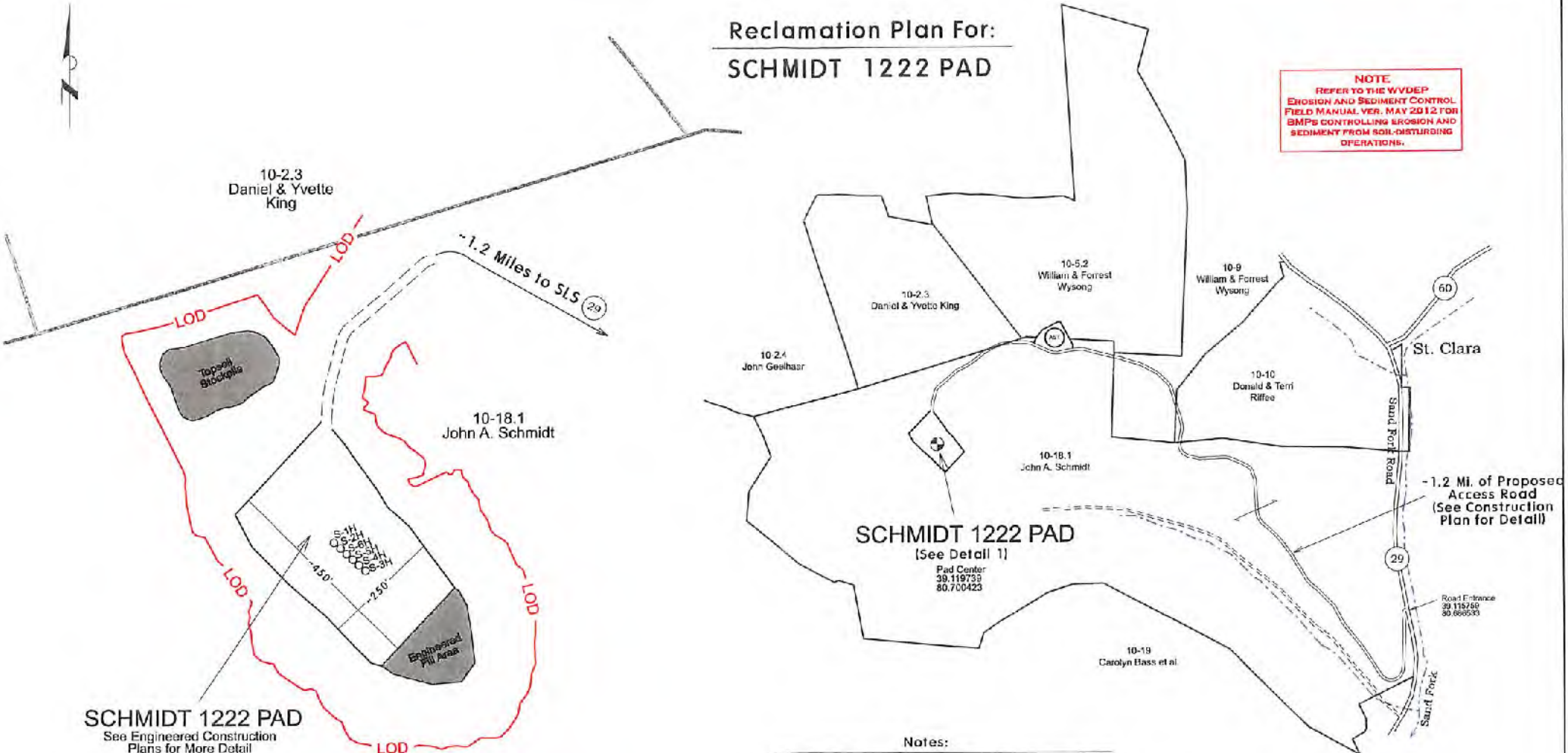
Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas & Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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Reclamation Plan For: SCHMIDT 1222 PAD

NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL, VER. MAY 2012 FOR
BMPs 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)

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 REVEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- NO DRILL PIT WILL BE CONSTRUCTED AND A CLOSED LOOP SYSTEM WILL BE UTILIZED TO HANDLE DRILL CUTTINGS.
- DRAWING NOT TO SCALE.

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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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MAR 07 2022

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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)
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Diane White

Diane White

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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

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

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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

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Sincerely,

Diane White

Diane White

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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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Sincerely,

Diane White

Diane White

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HG Energy, LLC
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

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

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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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Sincerely,

Diane White

Diane White

Enclosure

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MAR 07 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 27, 2021

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

RE: Drilling Under Roads – Schmidt 1222 S-6H
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

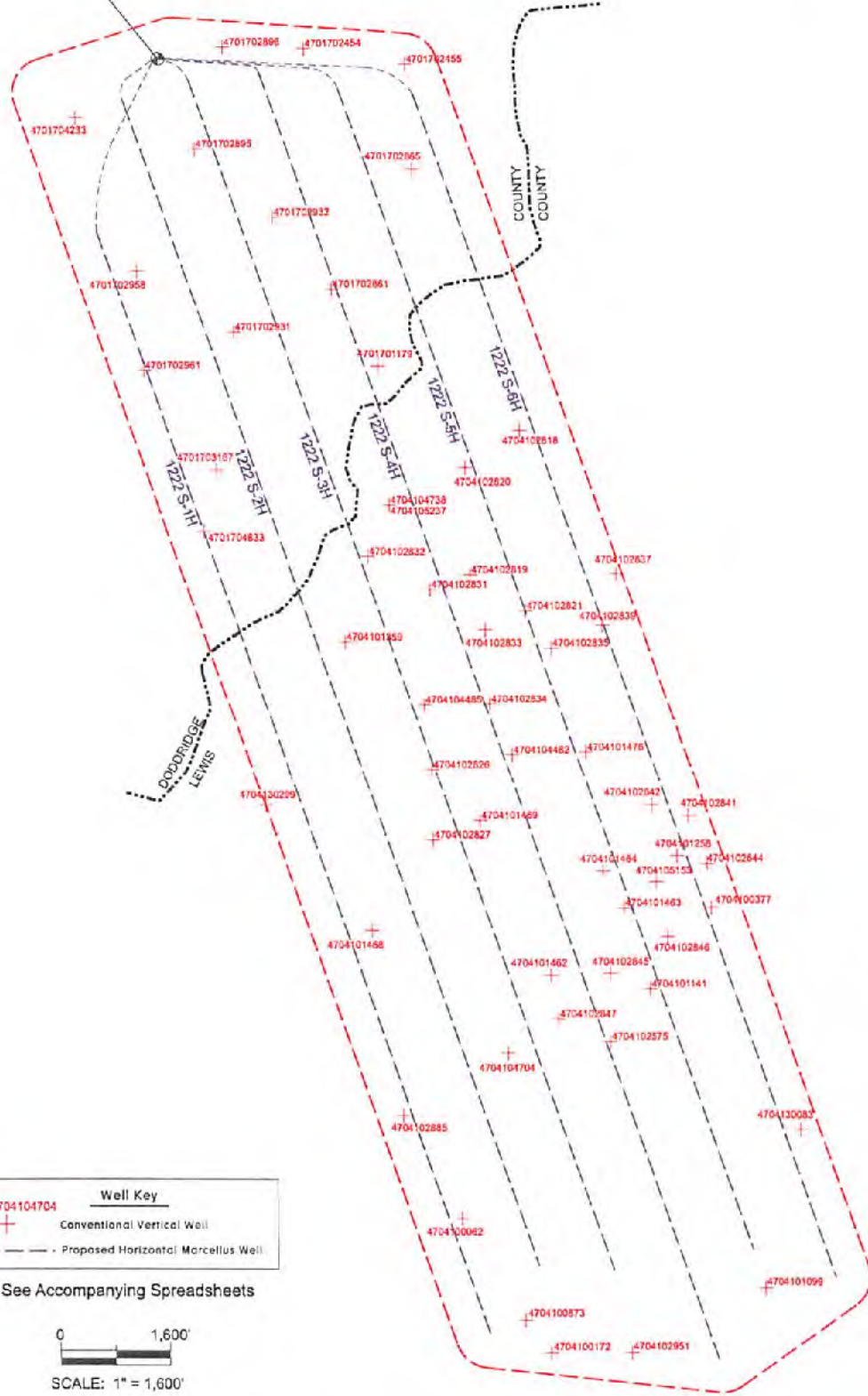
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04/08/2022

SCHMIDT
1222 PAD



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

See Accompanying Spreadsheets



SCALE: 1" = 1,600'

DATA SOURCES
WVGES Data Set - 2020; WVDEP Website

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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

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

Office of Oil and Gas
 APR 07 2022
 WV Department of Environmental Protection

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	Abandoned	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 Krenn	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	2468	Plugged	39.091589	-80.686772
35	4704102827	Lewis	Kermit Moneypenny	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	2507	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

RECEIVED
Office of Oil and Gas

MAR 07 2022

Department of
Environmental Protection

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

UPDATED 8/20/2021

YELLOW DENOTES WELL WITH TVD > 4,500'

GREEN DENOTES SURVEYED WELLS

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**

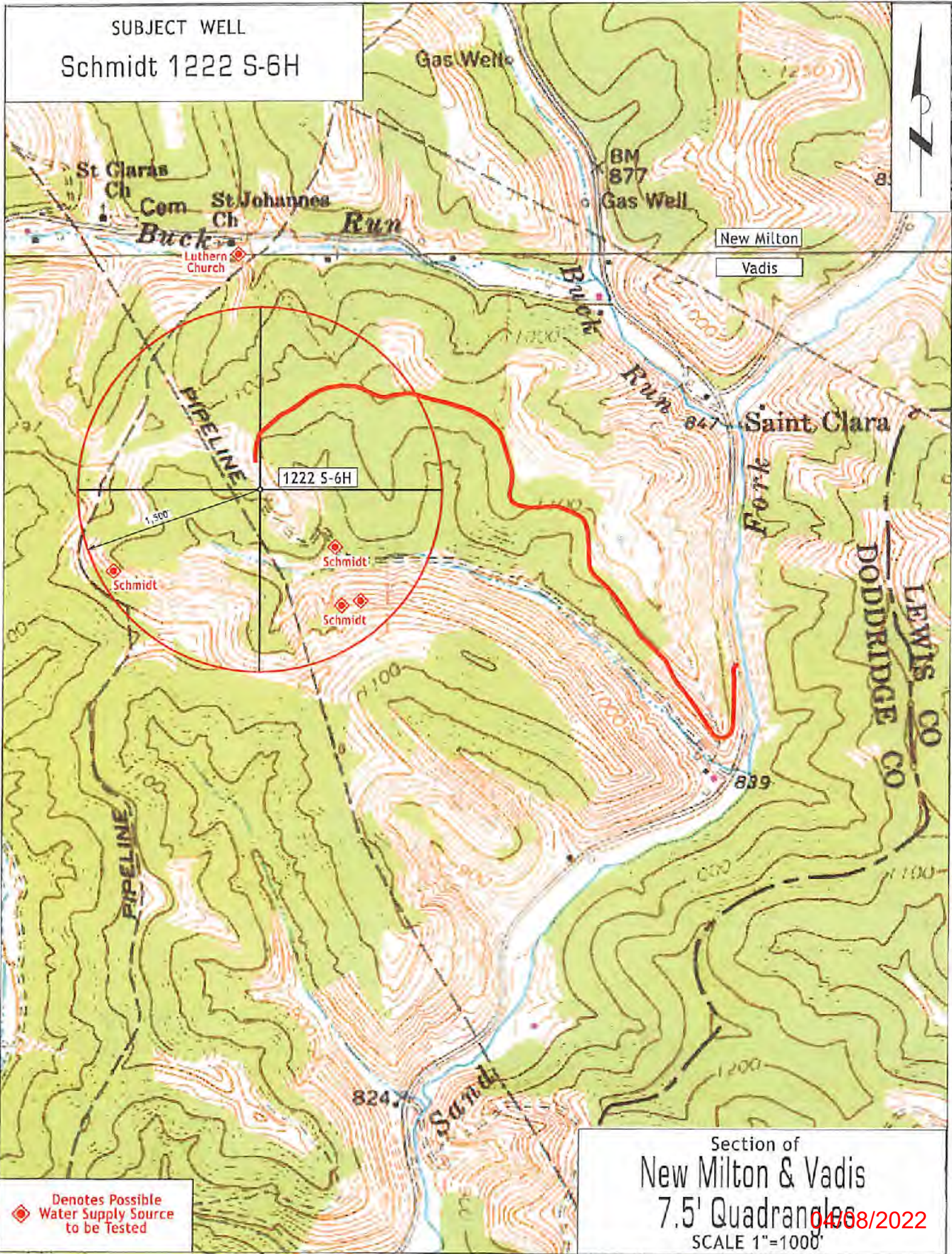
*SDW
2/23/2022*

RECEIVED
Office of Oil and Gas

MAR 07 2022

WV Department of
Environmental Protection

SUBJECT WELL
Schmidt 1222 S-6H



Denotes Possible
Water Supply Source
to be Tested

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

HG Energy II Appalachia, LLC
Well No. Schmidt 1222 S-6H

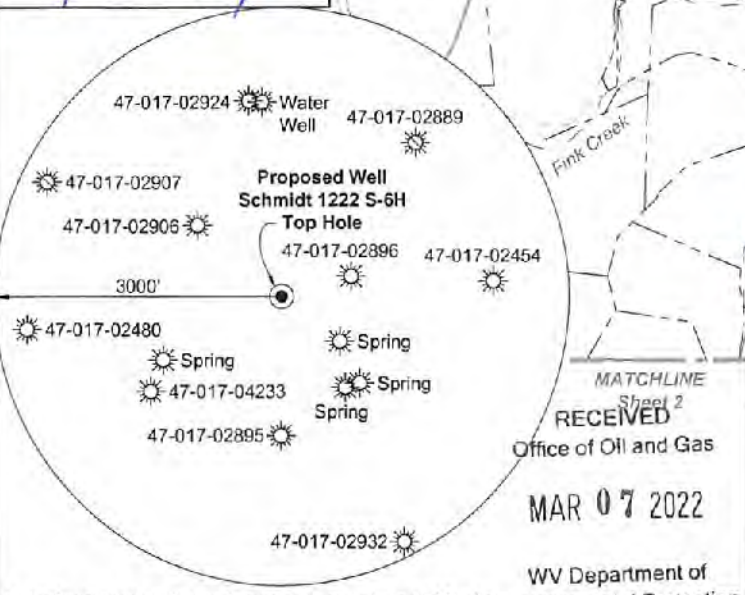
Page 1 of 3



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.

9,632' to Top Hole

11,111' to Bottom Hole

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



TOP LONGITUDE 80 - 40 - 30
BTM LONGITUDE 80 - 37 - 30

6,368' to Bottom Hole

1,941' to Top Hole

Tag	Bearing	Dist.
L1	S 61°38' E	817.6'
L2	S 42°34' W	1,117.0'
L3	N 86°31' W	2,010.2'
L4	N 00°15' W	1,450.3'
L5	S 75°30' E	4,004.6'

Notes: Well No. Schmidt 1222 S-6H West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Latitude: 39°07'10.81" Longitude: 80°42'02.25" UTM Zone 17, NAD 1983
Bottom Hole coordinates Latitude: 39°03'57.03" Longitude: 80°39'50.92" UTM Zone 17, NAD 1983
Top Hole Coordinates N: 4,330,109.044m E: 525,894.901m
Bottom Hole Coordinates N: 4,324,147.041m E: 529,070.819m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes: Well No. Schmidt 1222 S-6H UTM NAD 1983 (USSF)
Top Hole Coordinates N: 14,206,366.09' E: 1,725,373.52'
Landing Point Coordinates N: 14,205,363.78' E: 1,729,250.69'
Bottom Hole Coordinates N: 14,186,805.75' E: 1,735,793.18'

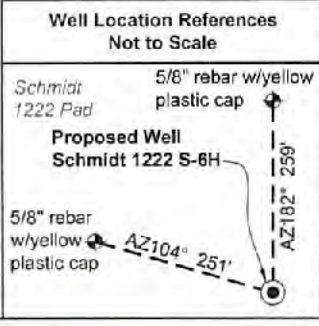
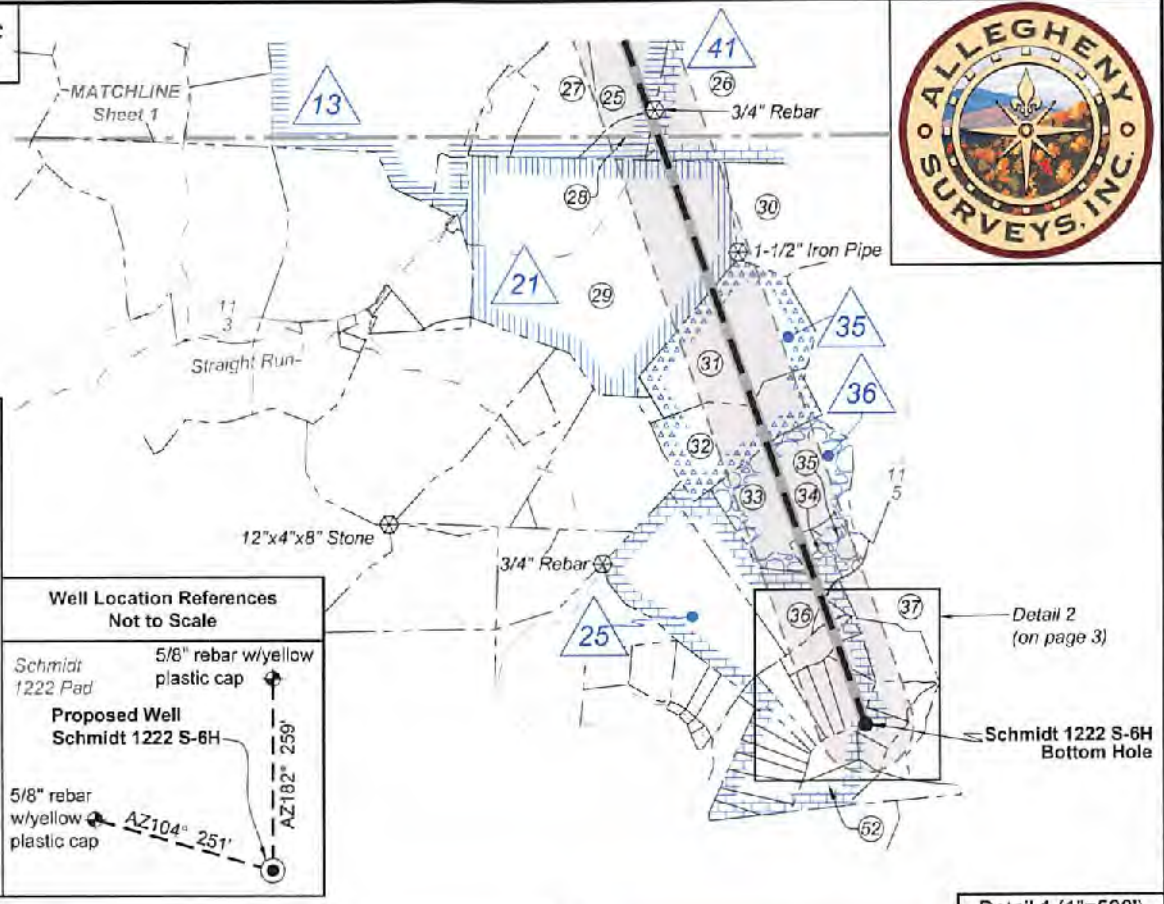
FILE NO: 156-12-FC-21
DRAWING NO: Schmidt 1222 S-6H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

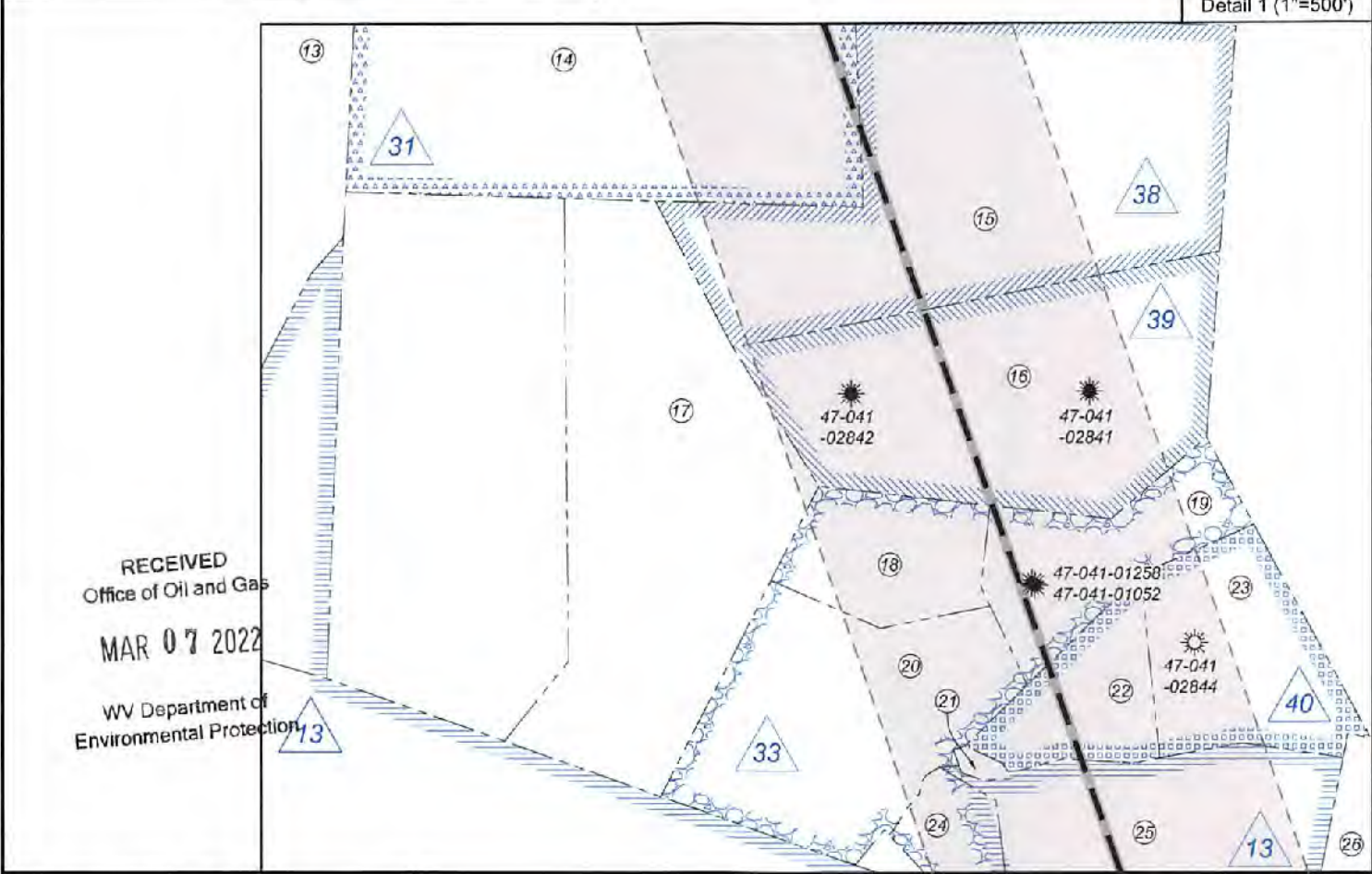
DATE: February 21 2022
OPERATOR'S WELL NO. Schmidt 1222 S-6H
API WELL NO
47 - 017 - 06925
STATE COUNTY PERMIT

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 QUADRANGLE: Vadis
SURFACE OWNER: John A. Schmidt COUNTY: Doddridge
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) _____ 6.962' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,228' MD

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



Detail 1 (1"=500')



FILE NO: 156-12-FC-21
DRAWING NO: Schmidt 1222 S-6H 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 21 2022
OPERATOR'S WELL NO. Schmidt 1222 S-6H
API WELL NO
47 - 017 - 06915
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: Boone
SURFACE OWNER: John A. Schmidt ACREAGE: 237.07
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) _____ 6,962' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,228' MD

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



ID	Lease
1	Frona M. Schmidt, et vir
13	A.T. Gooden, et ux
16	HG Energy II Appalachia, LLC
17	HG Energy II Appalachia, LLC
21	W.D. McCutchan, et al
25	R.G. King, et al
30	Glenn G. Rastle, et al
31	HG Energy II Appalachia, LLC
33	HG Energy II Appalachia, LLC
35	L.I. Osbourn
36	L.I. Osbourn, et al
37	HG Energy II Appalachia, LLC
38	HG Energy II Appalachia, LLC
39	HG Energy II Appalachia, LLC
40	HG Energy II Appalachia, LLC
41	M.C. Marsh, 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.)
	Adjoiner surface tracts (approx.)
	County Line (approx.)

RECEIVED
Office of Oil and Gas

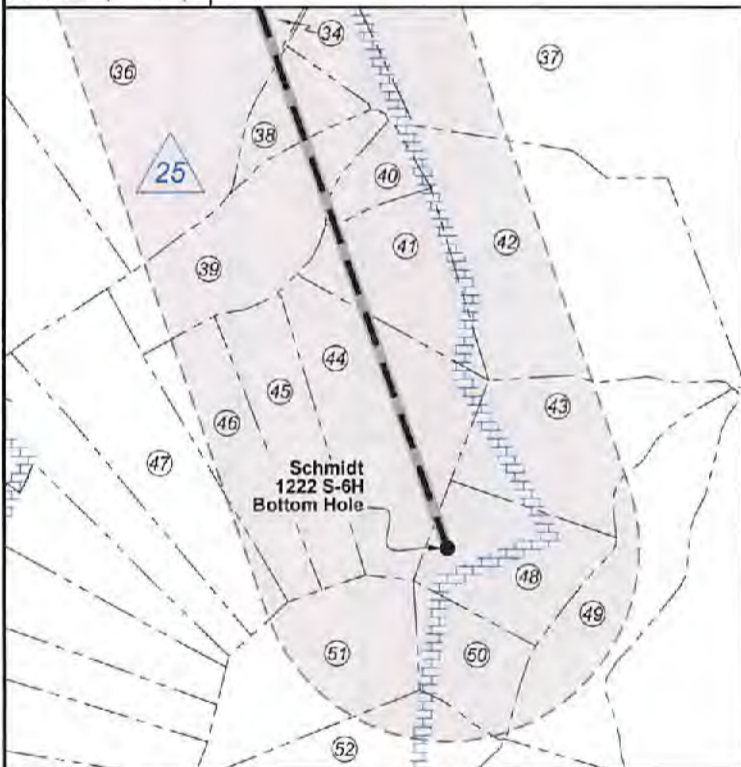
MAR 07 2022

WV Department of
Environmental Protection

Doddridge Co. - Cove Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	10 / 18.1	John A. Schmidt	281 / 622	237.07
2	10 / 9	Forest G. & William S. Wysong, Jr.	W98 / 627	27.00
3	10 / 10	Donald & Terri Riffée	294 / 37	48.92
4	10 / 18	Thomas E. & Anna S. Doak	281 / 631	64.29
5	10 / 20	John A. Schmidt	281 / 627	4.17
6	10 / 19	Marilyn Barns & Carolyn Bass	W28 / 552	175.30

Lewis Co. - Freemans Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
7	2C / 5	Martin A. Keely, Jr., et al	706 / 573	135.00
8	2D / 48	John M. Keely, et al	541 / 127	81.00
9	2D / 1	Martin A. Keely, Jr., et al	716 / 520	132.50
10	2D / 3.2	Jim C. Hamer Co.	530 / 378	20.00
11	2D / 3.3	Jim C. Hamer Co.	530 / 378	10.00
12	2D / 3	HFP, LLC	641 / 576	131.85
13	2D / 4	Margaret Hamberry Estate	AP 150 / 48	85.50
14	2D / 27	M.P. & D.M. Davidovich, et al	539 / 131	17.50
15	2D / 26	M.P. & D.M. Davidovich, et al	539 / 131	22.50
16	2D / 25	M.P. & D.M. Davidovich, et al	539 / 131	16.00
17	2D / 23	M.P. & D.M. Davidovich, et al	539 / 131	20.00
18	2D / 21	M.P. & D.M. Davidovich, et al	539 / 131	4.00
19	2D / 19	M.P. & D.M. Davidovich, et al	539 / 131	4.50
20	2D / 20	M.P. & D.M. Davidovich, et al	539 / 131	11.64
21	2D / 17	M.P. & D.M. Davidovich, et al	539 / 131	0.22
22	2D / 18	Anthony S. & Dawn H. VanWie	732 / 622	3.72
23	2D / 18.1	Anthony S. & Dawn H. VanWie	732 / 622	6.10
24	2D / 16	Michael T. & Joan C. Parker	538 / 403	1.96
25	2D / 14.1	Earl R. Oney	668 / 318	23.86
26	2D / 32	Arthur A. Ruble	544 / 536	58.00
27	2D / 14	Michael T. & Joan C. Parker	538 / 403	21.40
28	2D / 11	Arthur A. Ruble	544 / 536	5.50
29	2E / 39	Carl G. White, III, et al	544 / 734	126.50
30	2E / 41.1	David B. Long	717 / 614	72.75
31	2E / 40	Kevin Finneyfrock	620 / 774	40.00
32	2E / 36	Kevin Finneyfrock	620 / 774	25.00
33	2E / 35	Kevin Finneyfrock	620 / 774	40.00
34	2E / 35.2	Oscar Lunsford III	MR 12 / 300	4.50
35	2E / 35.1	Kevin Finneyfrock	620 / 774	4.14
36	2E / 33	Kevin Finneyfrock	620 / 774	19.36
37	2E / 45	Chad W. Johnson, et al	723 / 719	173.00
38	2E / 31.3	Marjorie Futcher	515 / 211	1.23
39	2E / 31.4	Jeri L. Pospech	FR29 / 652	3.87
40	2E / 31.2	Craig T. Pospech, et al	FID / 652	0.82
41	2E / 31.5	Jeri L. Pospech	FR29 / 652	2.68
42	2E / 31.1	Craig T. Pospech, et al	FID / 652	10.00
43	2E / 31.19	Jeri L. Pospech	670 / 613	3.90
44	2E / 31.6	Jeri L. Pospech	FR29 / 652	5.14
45	2E / 31.7	Freddie & Beverly Baisden	515 / 74	2.60
46	2E / 31.8	Frankie Osbourne	646 / 715	2.62
47	2E / 31.9	Matthew A. & Beth A. Pennington	724 / 284	4.54
48	2E / 31.20	Jeri L. Pospech	670 / 613	2.90
49	2E / 31.24	Jeri L. Pospech	670 / 613	4.74
50	2E / 31.18	Timothy J. Moore	513 / 388	1.73
51	2E / 31.21	Jeri L. Pospech	670 / 613	4.09
52	2E / 31.22	Jeri L. Pospech	670 / 613	6.15

Detail 2 (1"=500')



FILE NO: 156-12-FC-21
DRAWING NO: Schmidt 1222 S-6H 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 21 2022
OPERATOR'S WELL NO. Schmidt 1222 S-6H
API WELL NO
47 - 017 - 06925
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 QUADRANGLE: Vadis
SURFACE OWNER: John A. Schmidt COUNTY: Doddridge
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) 6,962' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,228' MD

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

9,632' to Top Hole

11,111' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Schmidt 1222 S-6H

Page 1 of 3

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

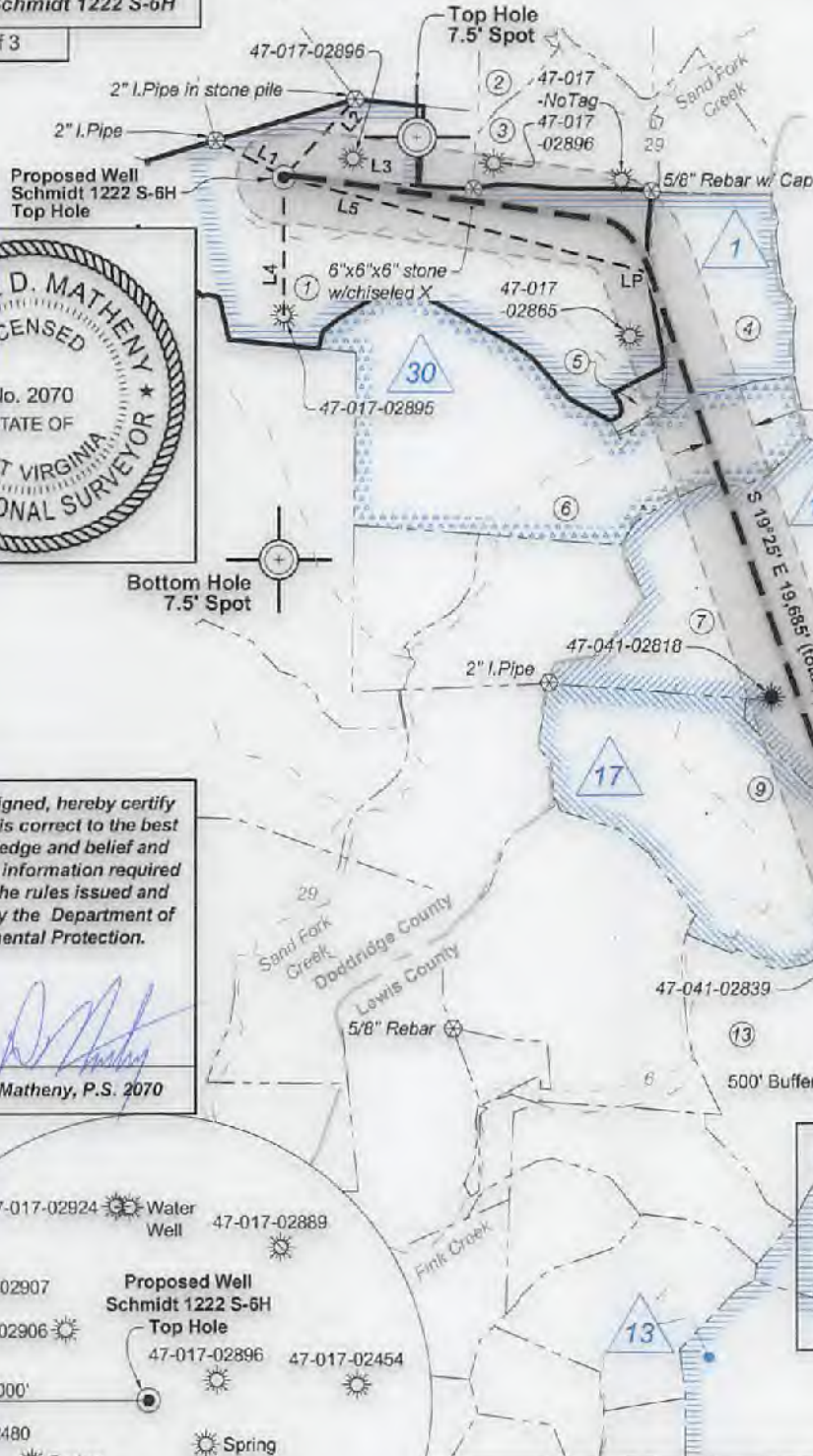
TOP LONGITUDE 80 - 40 - 00
BTM LONGITUDE 80 - 37 - 30



Tag	Bearing	Dist.
L1	S 61°38' E	817.6'
L2	S 42°34' W	1,117.0'
L3	N 86°31' W	2,010.2'
L4	N 00°15' W	1,450.3'
L5	S 75°30' E	4,004.6'

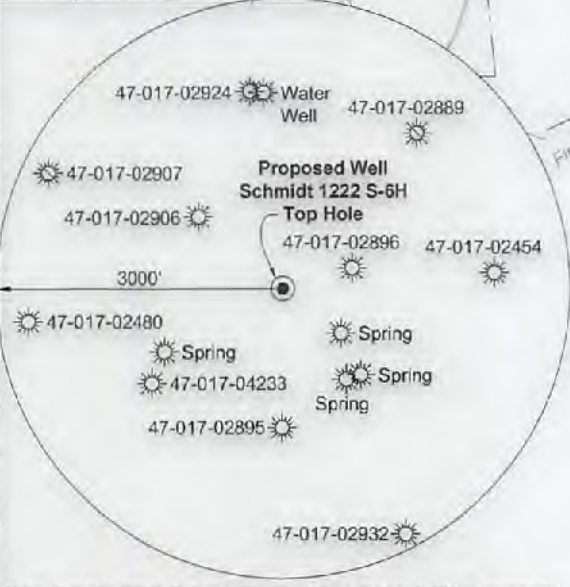
6,368' to Bottom Hole

1,941' 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.

MATCHLINE Sheet 2

Notes: Well No. Schmidt 1222 S-6H West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Top Hole coordinates Latitude: 39°07'10.81" Longitude: 80°42'02.25" UTM Zone 17, NAD 1983
 Bottom Hole coordinates Latitude: 39°03'57.03" Longitude: 80°39'50.92" UTM Zone 17, NAD 1983
 Top Hole Coordinates N: 4,330,109.044m E: 525,894.901m
 Bottom Hole Coordinates N: 4,324,147.041m E: 529,070.819m
 Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes: Well No. Schmidt 1222 S-6H UTM NAD 1983 (USSF)
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 Landing Point Coordinates N: 14,205,363.78' E: 1,729,250.69'
 Bottom Hole Coordinates N: 14,186,805.75' E: 1,735,793.18'

FILE NO: 156-12-FC-21
 DRAWING NO: Schmidt 1222 S-6H 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 21 20 22
 OPERATOR'S WELL NO. Schmidt 1222 S-6H
 API WELL NO
 47 - 017 - 06925
 STATE COUNTY PERMIT

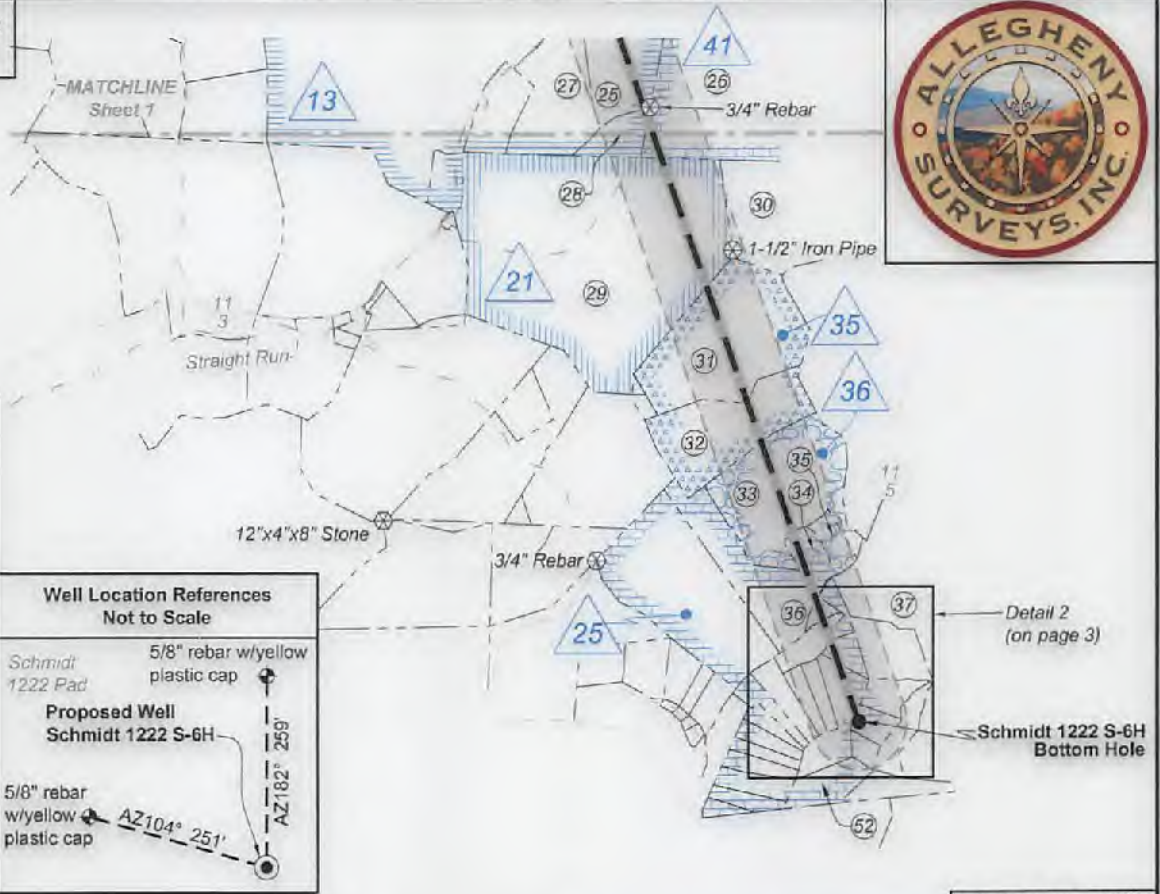
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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) _____ 6,962' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,228' 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

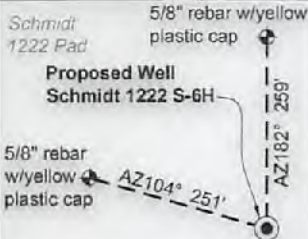
04/08/2022



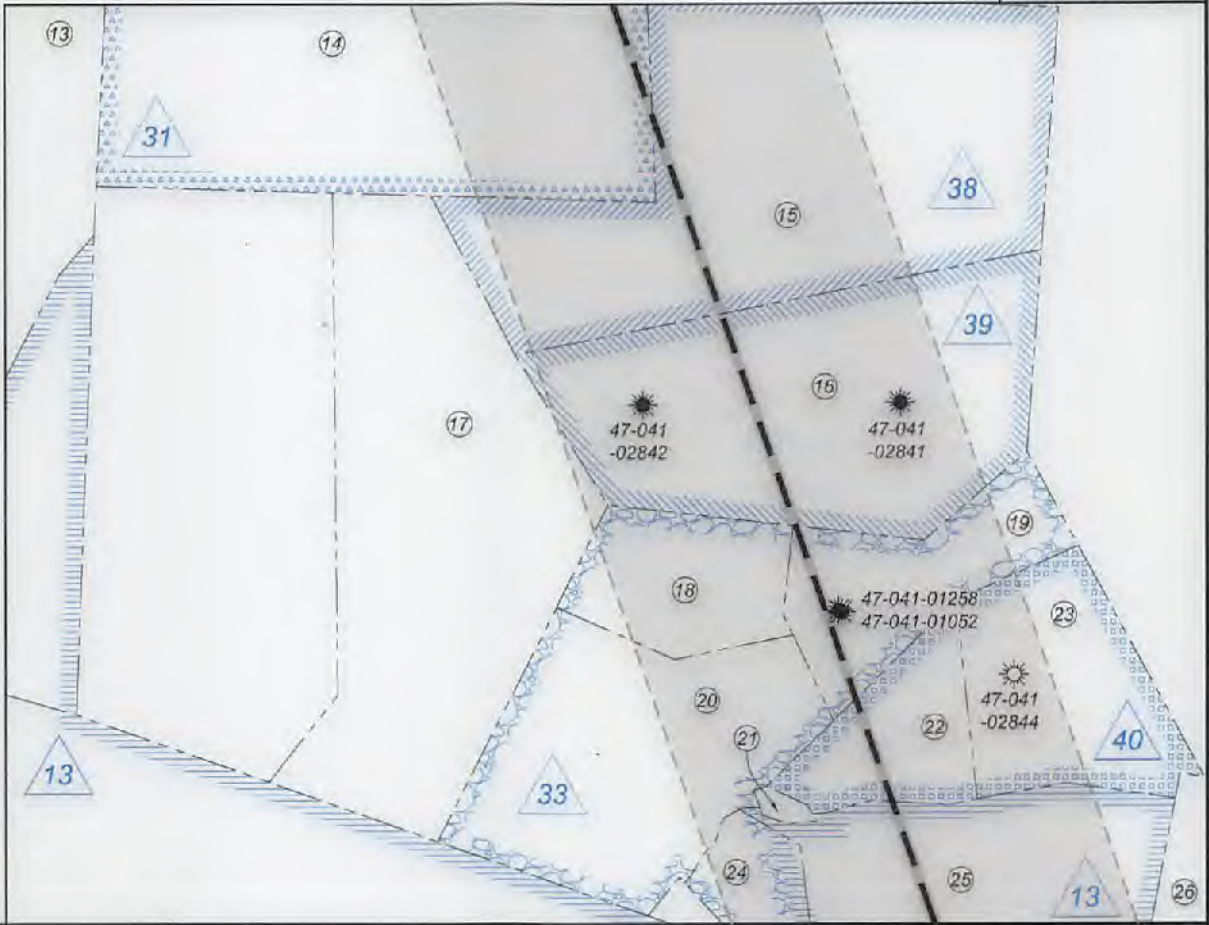
Wellhead Layout (NTS)



Well Location References
Not to Scale



Detail 1 (1"=500')



FILE NO: 156-12-FC-21
DRAWING NO: Schmidt 1222 S-6H 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 21 2022
OPERATOR'S WELL NO. Schmidt 1222 S-6H
API WELL NO
47 - 017 - 06926
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

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,228' MD 6,962' TVD

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

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

QUADRANGLE: Vadis
COUNTY: Boone

ACREAGE: 237.07

LEASE NO: _____ ACREAGE: 289.00

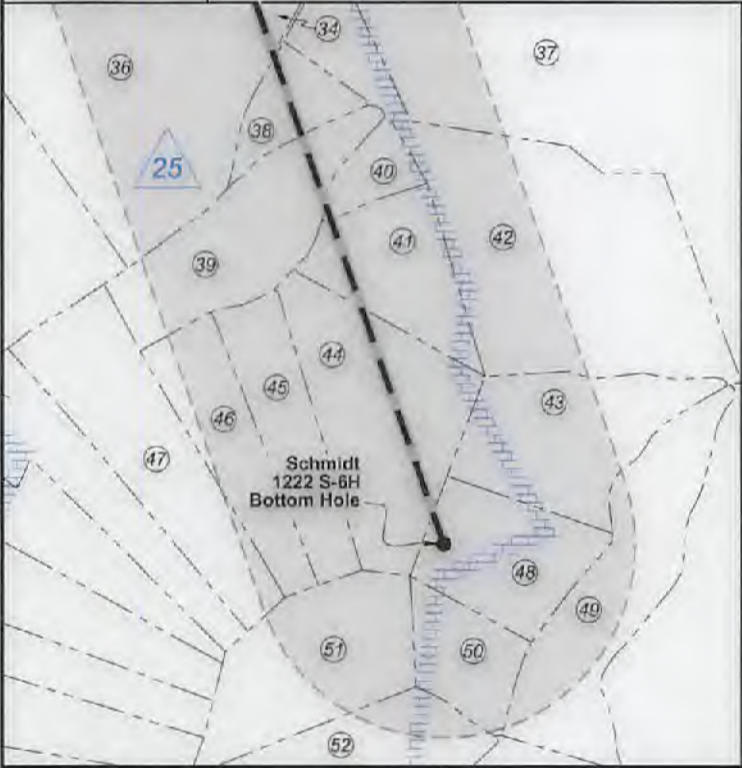
04/08/2022



ID	Lease
1	Frona M. Schmidt, et vir
13	A.T. Gooden, et ux
16	HG Energy II Appalachia, LLC
17	HG Energy II Appalachia, LLC
21	W.D. McCutchan, et al
25	R.G. King, et al
30	Glenn G. Rastle, et al
31	HG Energy II Appalachia, LLC
33	HG Energy II Appalachia, LLC
35	L.I. Osbourn
36	L.I. Osbourn, et al
37	HG Energy II Appalachia, LLC
38	HG Energy II Appalachia, LLC
39	HG Energy II Appalachia, LLC
40	HG Energy II Appalachia, LLC
41	M.C. Marsh, 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.)

Detail 2 (1"=500')



Doddridge Co. - Cove Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	10 / 18.1	John A. Schmidt	281 / 622	237.07
2	10 / 9	Forest G. & William S. Wysong, Jr.	W98 / 627	27.00
3	10 / 10	Donald & Terri Riffie	294 / 37	48.92
4	10 / 18	Thomas E. & Anna S. Doak	281 / 631	64.29
5	10 / 20	John A. Schmidt	281 / 627	4.17
6	10 / 19	Marilyn Barns & Carolyn Bass	W28 / 552	175.30
Lewis Co. - Freemans Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
7	2C / 5	Martin A. Keely, Jr., et al	706 / 573	135.00
8	2D / 48	John M. Keely, et al	541 / 127	81.00
9	2D / 1	Martin A. Keely, Jr., et al	716 / 520	132.50
10	2D / 3.2	Jim C. Hamer Co.	530 / 378	20.00
11	2D / 3.3	Jim C. Hamer Co.	530 / 378	10.00
12	2D / 3	HFP, LLC	641 / 576	131.85
13	2D / 4	Margaret Hamberry Estate	AP 150 / 46	85.50
14	2D / 27	M.P. & D.M. Davidovich, et al	539 / 131	17.50
15	2D / 26	M.P. & D.M. Davidovich, et al	539 / 131	22.50
16	2D / 25	M.P. & D.M. Davidovich, et al	539 / 131	16.00
17	2D / 23	M.P. & D.M. Davidovich, et al	539 / 131	20.00
18	2D / 21	M.P. & D.M. Davidovich, et al	539 / 131	4.00
19	2D / 19	M.P. & D.M. Davidovich, et al	539 / 131	4.50
20	2D / 20	M.P. & D.M. Davidovich, et al	539 / 131	11.64
21	2D / 17	M.P. & D.M. Davidovich, et al	539 / 131	0.22
22	2D / 18	Anthony S. & Dawn H. VanWie	732 / 622	3.72
23	2D / 18.1	Anthony S. & Dawn H. VanWie	732 / 622	6.10
24	2D / 16	Michael T. & Joan C. Parker	538 / 403	1.96
25	2D / 14.1	Earl R. Oney	668 / 318	23.86
26	2D / 32	Arthur A. Ruble	544 / 536	58.00
27	2D / 14	Michael T. & Joan C. Parker	538 / 403	21.40
28	2D / 11	Arthur A. Ruble	544 / 536	5.50
29	2E / 39	Carl G. White, III, et al	544 / 734	126.50
30	2E / 41.1	David B. Long	717 / 614	72.75
31	2E / 40	Kevin Finneyfrock	620 / 774	40.00
32	2E / 36	Kevin Finneyfrock	620 / 774	25.00
33	2E / 35	Kevin Finneyfrock	620 / 774	40.00
34	2E / 35.2	Oscar Lunsford III	MR 12 / 300	4.50
35	2E / 35.1	Kevin Finneyfrock	620 / 774	4.14
36	2E / 33	Kevin Finneyfrock	620 / 774	19.36
37	2E / 45	Chad W. Johnson, et al	723 / 719	173.00
38	2E / 31.3	Marjorie Futcher	515 / 211	1.23
39	2E / 31.4	Jeri L. Pospech	FR29 / 652	3.87
40	2E / 31.2	Craig T. Pospech, et al	FID / 652	0.82
41	2E / 31.5	Jeri L. Pospech	FR29 / 652	2.68
42	2E / 31.1	Craig T. Pospech, et al	FID / 652	10.00
43	2E / 31.19	Jeri L. Pospech	670 / 613	3.90
44	2E / 31.6	Jeri L. Pospech	FR29 / 652	5.14
45	2E / 31.7	Freddie & Beverly Baisden	515 / 74	2.60
46	2E / 31.8	Frankie Osbourne	646 / 715	2.62
47	2E / 31.9	Matthew A. & Beth A. Pennington	724 / 284	4.54
48	2E / 31.20	Jeri L. Pospech	670 / 613	2.90
49	2E / 31.24	Jeri L. Pospech	670 / 613	4.74
50	2E / 31.18	Timothy J. Moore	513 / 368	1.73
51	2E / 31.21	Jeri L. Pospech	670 / 613	4.09
52	2E / 31.22	Jeri L. Pospech	670 / 613	6.15

FILE NO: 156-12-FC-21 DRAWING NO: Schmidt 1222 S-6H 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 21 2022 OPERATOR'S WELL NO. Schmidt 1222 S-6H API WELL NO 47 - 017 - 06925 STATE COUNTY PERMIT
WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> 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		QUADRANGLE: Vadis COUNTY: Doddridge ACREAGE: 237.07
PROPOSED WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input checked="" type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,962' TVD 28,228' 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

**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

RECEIVED
Office of Oil and Gas

MAR 07 2022

HG Energy II Appalachia, LLC 1222 S-6H Lease Chain

RECEIVED
Office of Oil and Gas
MAR 07 2022
WV Department of
Environmental Protection

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. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	475 479	576 1
30	FK064894	02-0010-0019-0000	Q100708000	GLENN G. RASTLE AND NINA RASTLE, HIS WIFE; EDNA KRENN AND HENRY KRENN JR., HER HUSBAND; JOSEPH C. WOOFER; AND ALFRED J. WOOFER AND RUTH WOOFER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	58	81
				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
				JOHN ANCIL SCHMIDT	CNX GAS COMPANY LLC	NOT LESS THAN 1/8	417	711
				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	390
				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. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	475 479	576 1				
16	FK054823 FEE FK079812 FEE	03-002C-0005-0000 03-002C-0048-0000 03-002D-0002-0000	FK054823 FEE FK079812 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
17	FK079771 FEE	03-002D-0001-0000	FK079771 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
				JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	232
				WILLIAM A. LOUWTHOR	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	401
				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	

37	FK054825 FK079440 FEE	03-002D-0003-0000 03-002D-0003-0001 03-002D-0003-0003 03-002D-0028-0000 03-002D-0029-0000 03-002D-0030-0000	Q100903000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				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
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				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
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
31	FK051297 FK079863	03-002D-0027-0000	Q100756000	J. W. LOWTHER AND IDA E. LOWTHER, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	153	237
				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
				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
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	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	ASSIGNMENT (68%)	736	220				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746				
38	FK078872 FEE	03-002D-0026-0000	FK078872 FEE	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
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				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
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
				39	FK057870	03-002D-0026-0000	FK057870	PHEBE L LOWTHER & ET AL
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	9					628
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

39	FK078711 FEE FK079964 FEE	03-002D-0025-0000	Q100773000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				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
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
				33	FK054826 FK054827 FK078537 FEE	03-002D-0016-0000 03-002D-0009-0000 03-002D-0020-0000 03-002D-0021-0000	Q101030000 Q100340000	MAHALA LOWTHER; EMMA JONES; J. T. LOWTHER; J. H. LOWTHER; A. T. GOODEN AND G. N. GOODEN, HIS WIFE; AND MAHALA LOWTHER, GUARDIAN OF G. E. LOWTHER
WILLIAM A. LOUWTHOR	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42					401
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	9					628
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
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	692					570
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712					848
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
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746				
40	FK079381 FEE	03-002D-0018-0000 03-002D-0018-0001	266480000	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
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				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				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746				
13	FK054817 FK078871 FEE	03-002D-0007-0000 03-002D-0011-0000 03-002D-0012-0000 03-002D-0013-0000	Q100780000	A. T. GOODEN AND O. N. GODDEN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	313
				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	9	628
				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

13	FK079964 FEE FK026593 FEE	03-002D-0014-0000 03-002D-0014-0001 03-002E-0061-0000		Dominion Transmission, Inc.	CNX Gas Company LLC and Noble Energy, Inc.	Partial Assignment (32%)	712	848				
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment	717	1				
				Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	722	170				
				Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change	WVSOS					
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia, LLC	Second Amendment to Memorandum of Farmout Agreement	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	Assignment (68%)	736	220				
				M. C. Marsh, Catherine E. Marsh, and C. E. Marsh	South Penn Oil Company	Not Less Than 1/8	39	356				
				South Penn Natural Gas Co	Hope Natural Gas Company	Assignment	85	122				
				South Penn Oil Company	South Penn Natural Gas Co	Assignment	156	570				
41	FK000787 FK079964 FEE	03-002D-0032-0000	Q100906000	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				
				Dominion Transmission, Inc.	CNX Gas Company LLC and Noble Energy, Inc.	Partial Assignment (32%)	712	848				
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment	717	1				
				Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	722	170				
				Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change	WVSOS					
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia, LLC	Second Amendment to Memorandum of Farmout Agreement	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	Assignment (68%)	736	220				
				21	FK000788 FK079964 FEE FK078870 FEE	03-002E-0039-0000	Q100255000	W. D. McCutchan and M. C. McCutchan, His Wife	South Penn Oil Company	Not Less Than 1/8	39	374
								South Penn Oil Company	Hope Natural Gas Company	Deed	85	122
								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	9					628				
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				
Dominion Transmission, Inc.	CNX Gas Company LLC and Noble Energy, Inc.	Partial Assignment (32%)	712					848				
CNX Gas Company LLC	Noble Energy, Inc.	Assignment	717					1				
Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	722					170				
Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change	WVSOS									
Dominion Energy Transmission, Inc.	HG Energy II Appalachia, LLC	Second Amendment to Memorandum of Farmout Agreement	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	Assignment (68%)	736					220				
								L I Osborn	Hope Natural Gas Company	Not Less Than 1/8	185	284
				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				
				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				

36	FK058723	03-002E-0034-0001 03-002E-0035-0000 03-002E-0035-0001 p/o 03-002E-0035-0002	Q101038000	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				L. I. OSBORN, WIDOWER; URSULA SMITH AND A. L. SMITH, HER HUSBAND; P. J. STOUT AND JESSICA E. STOUT, HIS WIFE; J. ROY WATSON, COMMITTEE FOR BESSIE STOUT, AN INCOMPETENT PERSON	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	187	323
				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
				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
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				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
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
25	FK059558 FK072221	03-002E-0015-0000 03-002E-0030-0000	Q100688000 Q101068000	R.G. KING ET UX	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	187	49
				L.I. OSBORN ET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	276	1
				SHREDA E. STOUT	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	277	110
				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
				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
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				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				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				

RECEIVED
Office of Oil and Gas

APR 05 2022

WV Department of
Environmental Protection

1222 Well Site

Site Design, Construction Plan, & Erosion and Sediment Control Plans

HG Energy LLC
Doddridge County
Cove District

Latitude 39.11973857°
Longitude -80.70042324°
Fink Creek Watershed

APPROVED
WVDEP OOG
11/19/2021

Pertinent Site Information
1222 Well Site
Emergency Number: 304-873-1343
Cove District, Doddridge County, WV
Watershed: Fink Creek Watershed
Site 911 Address

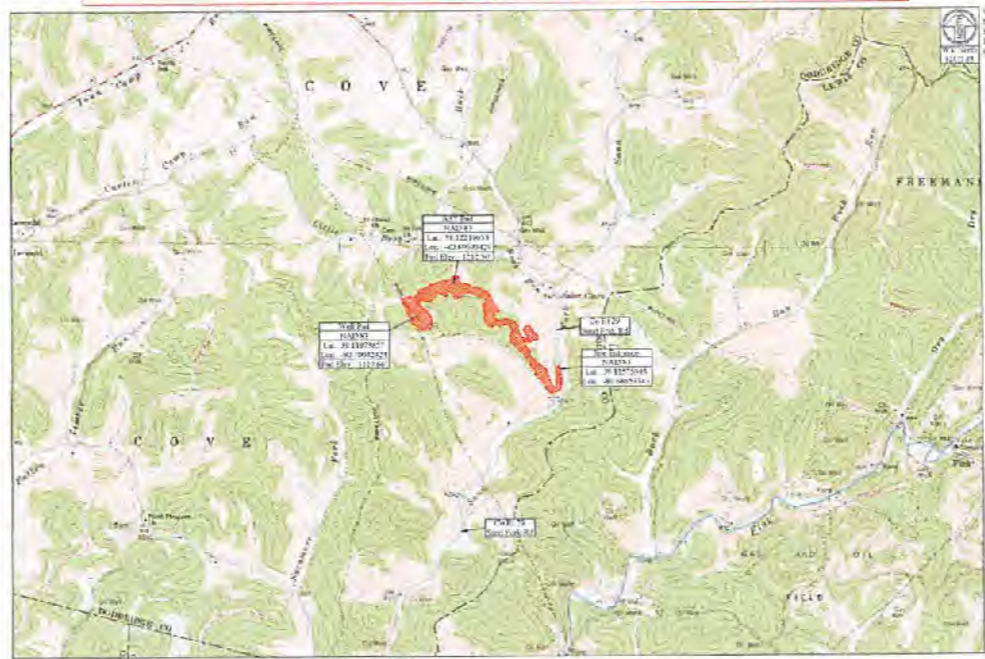
HG Energy Contact Number: 304-420-1100

Property Owner Information - 1222 Well Site
Cove District - Doddridge County

Owner	Tax Parcel	Acres	Area (Acres)	Area (Sq Ft)	Area (Sq Yds)	Area (Sq Ft)	Area (Sq Yds)
John Schmitt	01-01	0.10	0.10	4356	1000	1000	1000
John Schmitt	01-02	0.10	0.10	4356	1000	1000	1000
Donald & Jean Rubin et al	01-03	0.10	0.10	4356	1000	1000	1000
William Wallace & Family	01-04	0.10	0.10	4356	1000	1000	1000
William Wallace & Family	01-05	0.10	0.10	4356	1000	1000	1000
Local Prop. & John V. Vint	01-06	0.10	0.10	4356	1000	1000	1000



Exhibit A: Final Design: Issue for Permitting



Access Road

Access Road	TM, Type	Foot Length	Cost
Local & John Rubin et al	14-10	214.24	www.accessroad.com/pricebook
Local & John Rubin et al	14-11	214.24	www.accessroad.com/pricebook
Local & John Rubin et al	14-12	214.24	www.accessroad.com/pricebook

Disturbed Area

Disturbed Area	Quantity
Well Pad Construction	0.10 AC
Access Road Construction	2.14 AC
Clearing - Power Line	0.11 AC
Additional Clearing	0.10 AC
Total Disturbed Area	2.35 AC

Additional Information

Additional Information	Quantity
Long Wooded Area Damaged	11.72 AC
Total Area of Disturbed Area	14.07 AC

1222 Well Site Quantities

Description	Quantity	Unit	Notes
Well Pad	0.10	AC	
Access Road	2.14	AC	
Clearing - Power Line	0.11	AC	
Additional Clearing	0.10	AC	
Total Disturbed Area	2.35	AC	
Total Area of Disturbed Area	14.07	AC	

Site Elevation

Point	Elevation
11	1250.00
12	1250.00
13	1250.00
14	1250.00
15	1250.00
16	1250.00
17	1250.00
18	1250.00
19	1250.00
20	1250.00
21	1250.00
22	1250.00
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25	1250.00
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57	1250.00
58	1250.00
59	1250.00
60	1250.00



SPC
2/23/2022

Project Contacts

HG Energy LLC
Lead Engineer - Construction Manager
304-420-1100

Client and Engineer
Client: HG Energy LLC
Lead Engineer: John Schmitt
304-420-1100

Approach Routes:

From the intersection of WV Rt 18 and US Rt 50 near West Union, WV. Travel South on WV Rt 18 for 14.1 mi. Turn Right onto County Route 29.5 and Fork. Follow County Route 29.5 to 37.4. The site entrance will be on the Right (West) side of the road.

HG Energy LLC will obtain an Encroachment Permit (Form MM-10) from the WV Department of Transportation, Division of Highways, prior to the commencement of any construction activities.

The WV Mines Website was consulted. Previous mining activities are not within the AOE.

WVDEP Website files show that there are active and/or abandoned gas wells within the AOE.

Hydroplan Conditions

Condition	Value
Soil Type	CL
Soil Moisture	10%
Soil Slope	5%
Soil Surface	Gravel
Soil Vegetation	Grass
Soil Wind	10 mph
Soil Temperature	50°F



All land construction complies with the following restrictions:

- WV Dept. of Highways (DHS) or approved agency used for basins or drainage control.
- All trees on occupied existing or proposed land 2" DBH and greater to be retained or replaced with a tree of equal or greater value.
- WV Dept. of Highways (DHS) or approved agency used for basins or drainage control.
- 100% of surface or ground water shall be captured in a suitable water supply.
- WV Dept. of Highways (DHS) or approved agency used for basins or drainage control.



Sheet	Description
1	Cover Sheet
01-01	Schedule of Quantities
01-02	Site Notes
2	Prop. Construction Site Conditions
3	Site Plan Map
4	Clearing Exhibit
5	Overall Plan View
6-11	S&S Plan Views
12	Site Plan Exhibit
13-18	Plan View
19-21	Cross Sections - Well Pad
22	Cross Sections - Topsoil Stockpiles
23	Cross Sections - AS1 Pad
23-25	Cross Sections - Access Road
01-02	Geotechnical Exhibit
03	Landowner Disturbed Area Exhibit
04	Site Reclamation
05-06	Erosion and Sediment Control Detail
07	Access Road Detail
08	Well Pad Detail

Cover Sheet
1222 Well Site
Cove District
Doddridge County, WV

Date: 09/15/2021
Scale: AS Shown
Designed By: JS
File No.
Sheet 1 of 25

1222 Well Site
HG Energy LLC
Exhibit A: Final Design Issue for Permitting



John Tolson II
 Permit ID
 1942-401-0001-0001
 03/28/2022

John Tolson II
 Permit ID
 1942-401-0001-0001
 03/28/2022

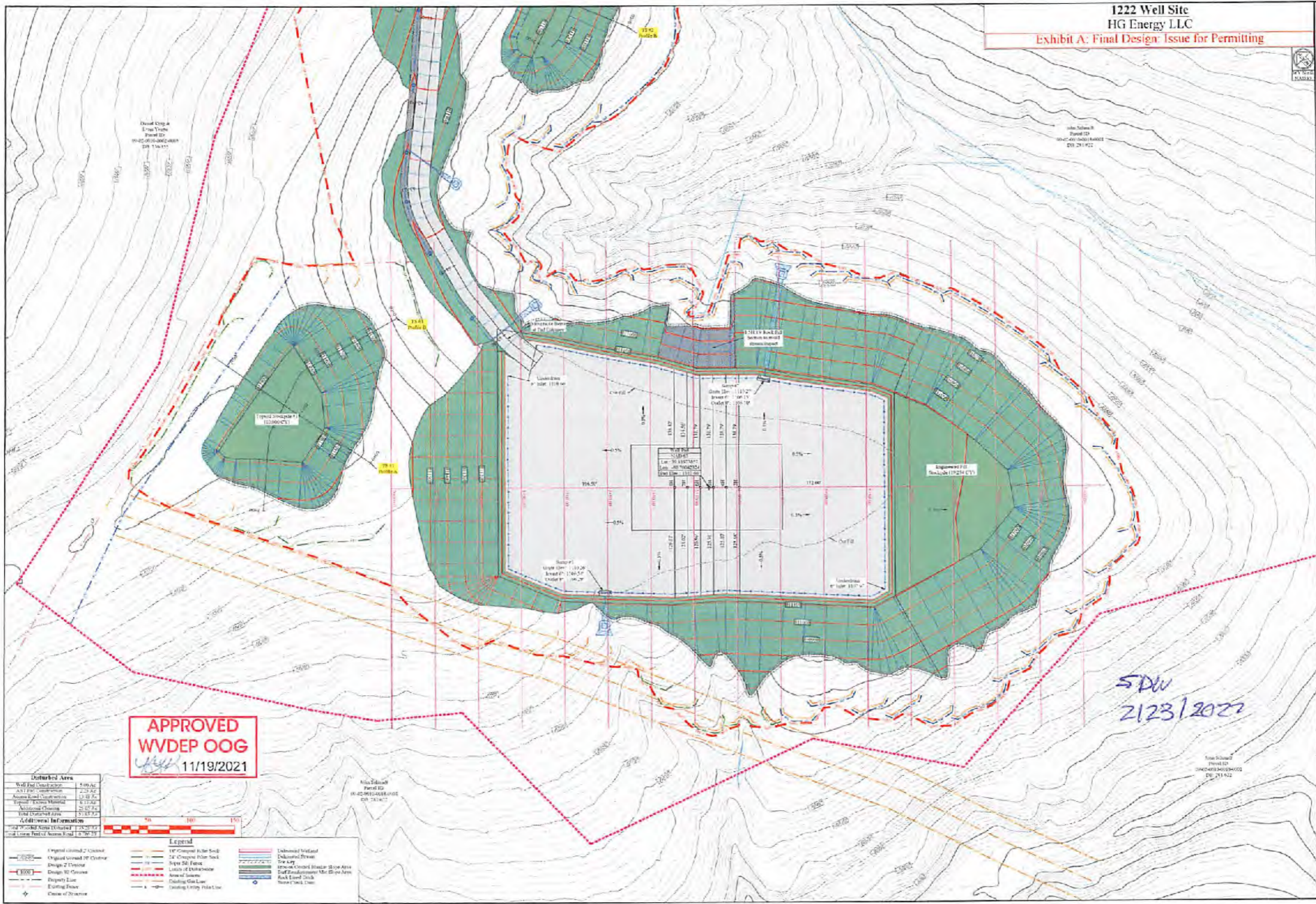


THIS DOCUMENT
 PREPARED FOR
 HG ENERGY LLC



Site Plan
1222 Well Site
 Cove District
 Doddridge County, WV

Date: 09/15/2021
 Scale: As Shown
 Drawn By: JTS
 File No:
 Sheet 18 of 25



APPROVED
WVDEP OOG
 11/19/2021

SDW
2/23/2022

Distributed Areas

Well Pad Construction	1,409.42
AS 1 Pipe Construction	2,232.42
Access Road Construction	12,118.42
Access Road Material	8,118.42
Additional Clearing	26,077.42
Total Distributed Areas	50,956.10

Additional Information

Well Pad Area (Excluded)	1,409.42
Total Green Field Net Area (Excl)	1,409.42



Legend

Original Ground Contour	10' Contour Blue Tick	Undisturbed Wetland
Original Ground 10' Contour	24' Contour Blue Tick	Disturbed Wetland
Design 10' Contour	Survey 50' Fence	Tree Area
Design 50' Contour	Survey 50' Fence	100-foot Contour Buffer Slope Area
Property Line	Line of Enclosure	Top Endowment Mt. Drive Area
Existing Fence	Area of Interest	Rock Land Clear
Chain of Structure	Existing 60' Line	Survey 100' Dist.
	Existing 100' Line	