

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

4704303612

February 4, 2020

Mr. Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RE: Emma Griffith No. 168
Duval District, Lincoln County
West Virginia

RECEIVED
Office of Oil and Gas

Check AMT \$650 FEB 18 2020
Check Date 02/06/2020
Check No. 4520
WV Department of
Environmental Protection

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to drill the above referenced injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane C. White

Enclosures

cc: Joshua D. Brumfield – Certified
Justin White - Certified
Jeffery Smith – Inspector

CAUTION: External email. Do not click links or open attachments unless you verify sender.

RE: Permit No. UIC2R04301AP
Wells: Emma Griffith 166 – Elevation 920'
Emma Griffith 167 – Elevation 920'
Emma Griffith 168 – Elevation 911'
Emma Griffith 267 – Elevation 920'
Nathaniel Mason 169 – Elevation 911'
Nathaniel Mason 268 – Elevation 911'
Operator: HG Energy, LLC
Locations: Duval District, Lincoln County, West Virginia
Quadrangle: Griffithsville 7.5' Watershed: Straight Fork
Elevations: 920'

I am writing on behalf of Joshua D. Brumfield of 31 Vandalia Drive, Yawkey, West Virginia 25573. His telephone number is 304-561-7831. My contact information is below.

Mr. Brumfield's comments are as follows:

1. Mr. Brumfield requests that any producing wells placed on his property have underground electricity run to them so electric motors can be installed. He was told by HG that this would be done on the well that is currently located on his property but it was never done. The well can be heard from his house.
2. He disagrees with the proximity to his home of at least one of the well pads which will be used for the Emma Griffith 166, 167 and 267 Wells and requests that they explore alternative locations.
3. He believes the road HG Energy intends to build to access the well sites will be a major land disturbance leading to erosion of his property. HG Energy claims to "already have a right-of-way" but he isn't sure if that is true.
4. He feels that the standard \$5,000 per pad offer for "nuisance pay" to the landowner is insufficient considering the locations they have chosen, one of which is very close to his home.
5. He also requests that the producing well established in 2014 or 2015 (believed to be Nathaniel Mason 224) be switched to an electric motor as he was told it would be so that there will be less noise from said well.

We are in the process of reviewing the applications and anticipate submitting more comments by the end of the month and hopefully by the end of next week.

Mo Persinger



Howard M. "Mo" Persinger, III
237 Capitol Street
Charleston, WV 25301
Phone: 304-346-9333
Fax: 304-346-9337
hmp3@persingerlaw.com

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FEB 18 2020

WV Department of
Environmental Protection

FORM WW-3 (B)
1/12



1) Date: 02/04/2020
 2) Operator's Well No. Emma Griffith 168
 3) API Well No.: 47 - 043 - s
 State County Permit
 4) UIC Permit No. UIC2R04301AP

**STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**

- 5) WELL TYPE: Liquid Injection / Gas Injection (not storage) / Waste Disposal
 6) LOCATION: Elevation: 911' Watershed: Straight Fork
 District: Duval County Lincoln Quadrangle Griffithsville 7.5'
 7) WELL OPERATOR: HG Energy, LLC 8) DESIGNATED AGENT Diane White
 Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
 9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR
 Name Jeffery L. Smith Name To Be Determined Upon Approval of the Permit
 Address 5369 Big Tyler Road Address _____
Cross Lanes, WV 25313
 11) PROPOSED WELL WORK Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation / Convert
 Other physical change in well (specify) _____
 12) GEOLOGIC TARGET FORMATION Berea Depth 2560' Feet (top) to 2581' Feet (bottom)
 13) Estimated Depth of Completed Well, (or actual depth of existing well): 2700' MD Feet
 14) Approximate water strata depths: Fresh 260' Feet Salt 970' Feet
 15) Approximate coal seam depths: 400'
 16) Is coal being mined in the area? Yes _____ No _____
 17) Virgin reservoir pressure in target formation 1250 psig Source Estimated
 18) Estimated reservoir fracture pressure 2650 psig (BHFP)
 19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 BBL Bottom hole pressure 2400 psi
 20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Fresh water, produced
water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery
 21) FILTERS (IF ANY) Cartridge filters and charcoal bed filters
 22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL NA

23) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well		
Conductor									Kinds
Fresh Water	7"	LS	17#	X		460'	460'	CTS	
Coal									Sizes
Intermediate									2.375"
Production	4 1/2"	J-55	10.5#	X		2680'	2680'	150 sks	Depths set
Tubing	2 3/8"	J-55	4.8#	X		2425'	2425'		2325'
Liners									Perforations
									Top Bottom

24) APPLICANT'S OPERATING RIGHTS were acquired from George J Weiler et al
 by deed _____ / lease x / other contract _____ / dated 03/20/1945 of record in the
Lincoln County Clerk's office in Lease Book 125 Page 188

JS

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Office of Oil and Gas

FEB 18 2020

WW-2B1
(5-12)

Well No. Emma Griffith 168

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name	<u>Sturm Environmental Labs</u>	RECEIVED Office of Oil and Gas FEB 18 2020
Sampling Contractor	<u>Sturm Environmental Labs</u>	
Well Operator	<u>HG Energy, LLC</u>	WV Department of Environmental Protection
Address	<u>5260 Dupont Road</u> <u>Parkersburg, WV 26101</u>	
Telephone	<u>304-420-1119</u>	

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

- * Justin White
53 Bear Fork
Yawkey WV 25573
- * Joshua Brumfield
31 Vandalia Dr
Yawkey WV 25573

Diane White

From: Diane White
Sent: Tuesday, February 4, 2020 11:05 AM
To: Vicki Hoops
Subject: Pre-Drill Water Testing - Griffithsville Wells 169, 169, 268
Attachments: 20200204111603765.pdf

Vicki,
For the well pad identified above there are two land owners with a water source. One of them, Joshua Brumfield has been identified before recently so doesn't need to be tested again. Please test Justin White. Attached are a topo, plat and rec plan to help you locate the water source. If he declines testing please document that as well.

Justin White
53 Bear Fork
Yawkey, WV 25573

Thanks,
Diane

Diane C. White



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

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Office of Oil and Gas

FEB 18 2020

WV Department of
Environmental Protection



1) Date: February 4, 2020
 2) Operator's Well No. Emma Griffith 168
 3) API Well No.: 47 - -
 State County Permit
 4) UIC Permit No. UIC2R04301AP

**STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,**

5) Surface Owner(S) To Be Served (a) Name <u>Justin White</u> ✓ Address <u>53 Bear Fork</u> <u>Yawkey, WV 25573</u> (b) Name <u>Joshua D. Brumfield</u> ✓ Address <u>31 Vandalia Drive</u> <u>Yawkey, WV 25573</u> (c) Name _____ Address _____	7) (a) Coal Operator Name <u>NA</u> Address _____ 7) (b) Coal Owner(S) With Declaration Of Record Name <u>NA</u> Address _____ Name _____ Address _____ 7) (c) Coal Lessee with Declaration Of Record Name <u>NA</u> Address _____
6) Inspector <u>Jeffery L. Smith</u> Address <u>5369 Big Tyler Road</u> <u>Cross Lanes, WV 25313</u> Telephone <u>681-313-6743</u>	

RECEIVED
 Office of Oil and Gas
 WV Department of
 Environmental Protection
 FEB 18 2020

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is _____ 20 ____ 20 ____ .

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

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

Well Operator HG Energy, LLC
 Address 5260 Dupont Road
Parkersburg, WV 26101
 By: Diane White
 Its: Accountant
 Signature: Diane White

7019 0700 0002 0456 8214

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$ 3.55
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 2.55
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 1.40
Total Postage and Fees	\$ 7.80

Sent To Joshua Brumfield ✓
 Street and Apt. No., or PO Box No. 31 Vandalia Drive
 City, State, ZIP+4® Yawkey WV 25573

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Postmark: FEB 04 2020
 USPS EG168

7019 0700 0002 0456 8207

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$ 3.55
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 2.55
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 1.40
Total Postage and Fees	\$ 7.80

Sent To Justin White ✓
 Street and Apt. No., or PO Box No. 53 Bear Fork
 City, State, ZIP+4® Yawkey WV 25573

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Postmark: FEB 04 2020
 USPS EG168

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FEB 18 2020

WV Department of
 Environmental Protection



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

February 4, 2020

Joshua D. Brumfield
31 Vandalia Drive
Yawkey, WV 25573

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Office of Oil and Gas

FEB 18 2020

WV Department of
Environmental Protection

RE: Emma Griffith No. 168
Duval District, Lincoln County
West Virginia

Dear Landowner:

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

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

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

Very truly yours,

Diane C. White

Enclosures



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

February 4, 2020

Justin White
53 Bear Fork
Yawkey, WV 25573

RE: Emma Griffith No. 168
Duval District, Lincoln County
West Virginia

RECEIVED
Office of Oil and Gas

FEB 18 2020

WV Department of
Environmental Protection

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Very truly yours,

Diane C. White

Enclosures

SURFACE OWNER WAIVER

County 043

Operator
Operator well number

HG Energy, LLC
Emma Griffith 168

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A

The well operator named on page WW-2A / 3A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

RECEIVED
Office of Oil and Gas

FEB 18 2020

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

WV Department of
Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A / 3A, and attachments consisting of pages 1 through ___ including a work order on Form WW-2B / 3A, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date

Company Name
By
Its

Date

Print Name

Signature

Date

WW-9
(2/15)

4704303612

API Number 47 - _____ - _____
Operator's Well No. Emma Griffith 168

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948

Watershed (HUC 10) Straight Fork Quadrangle Griffithville 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: Fluids encountered while drilling subject well

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 ml

Proposed Disposal Method For Treated Pit Wastes:

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

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air, Fresh Water

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

Additives to be used in drilling medium? Water, Soap, KCl

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Offsite Disposal at a DEP 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? To Be Determined Upon Approval of Permit

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 Accountant

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Office of Oil and Gas

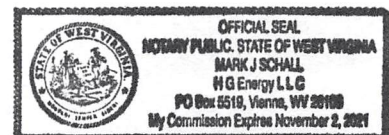
FEB 18 2020

WV Department of
Environmental Protection

Subscribed and sworn before me this 4th day of February, 20 20

[Signature] Notary Public

My commission expires 11/2/2021



HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.3 acres Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

****Sediment and Erosion Control will be in place at all times ****

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jeffrey Smith

Comments: All sediment control to be removed prior to release.

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Office of Oil and Gas

FFB 18 2020

WV Department of
Environmental Protection

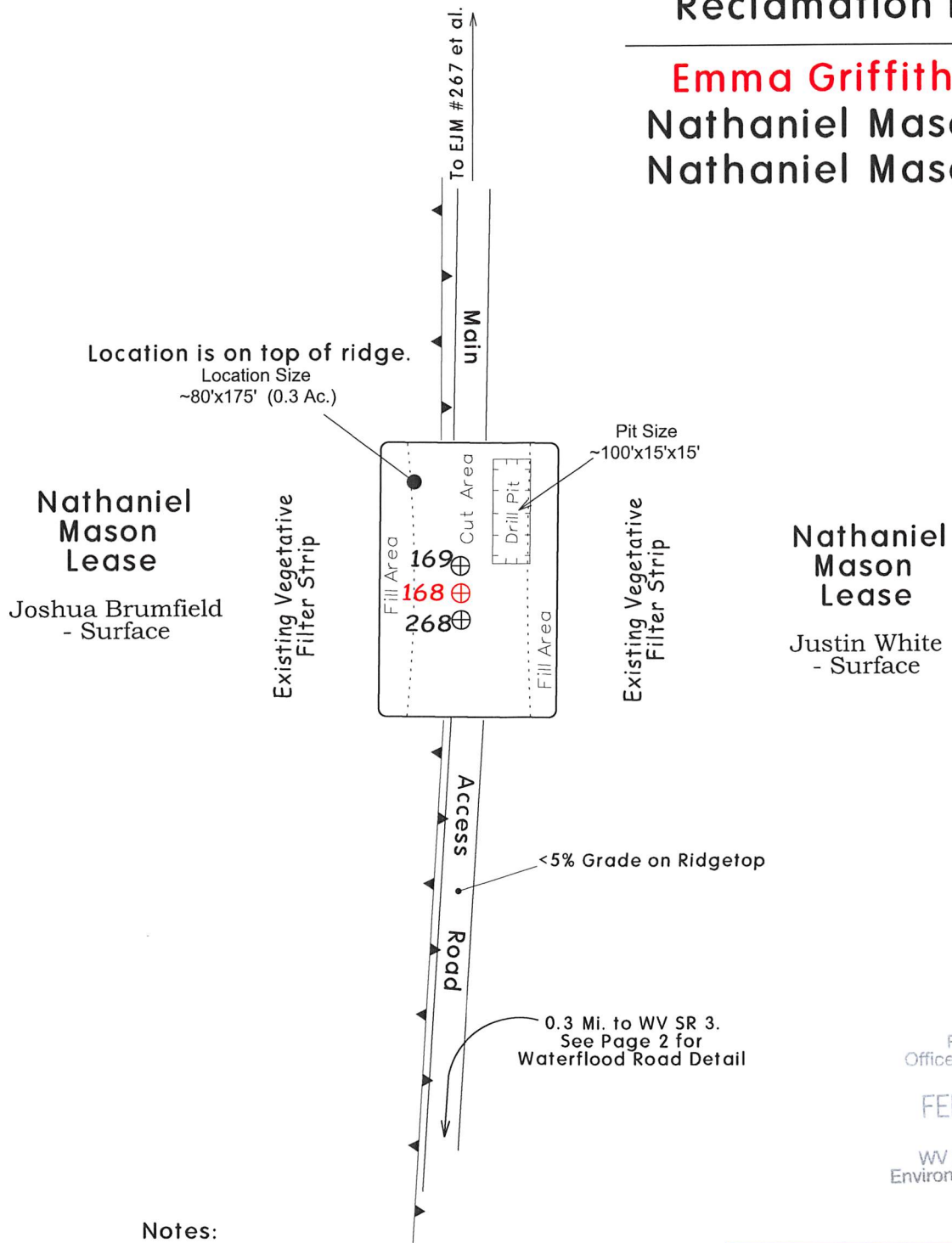
Title: Oil & Gas Inspector

Date: 2-11-20

Field Reviewed? Yes No

Reclamation Plan For:

Emma Griffith No. 168
Nathaniel Mason No. 169
Nathaniel Mason No. 268



Nathaniel Mason Lease
 Joshua Brumfield
 - Surface

Nathaniel Mason Lease
 Justin White
 - Surface

Notes:

- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS. NEW STRUCTURES WILL BE INSTALLED AS SHOWN.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- STACK BRUSH BELOW DISTURBED AREAS FOR SEDIMENTATION CONTROL.
- DRAWING NOT TO SCALE.

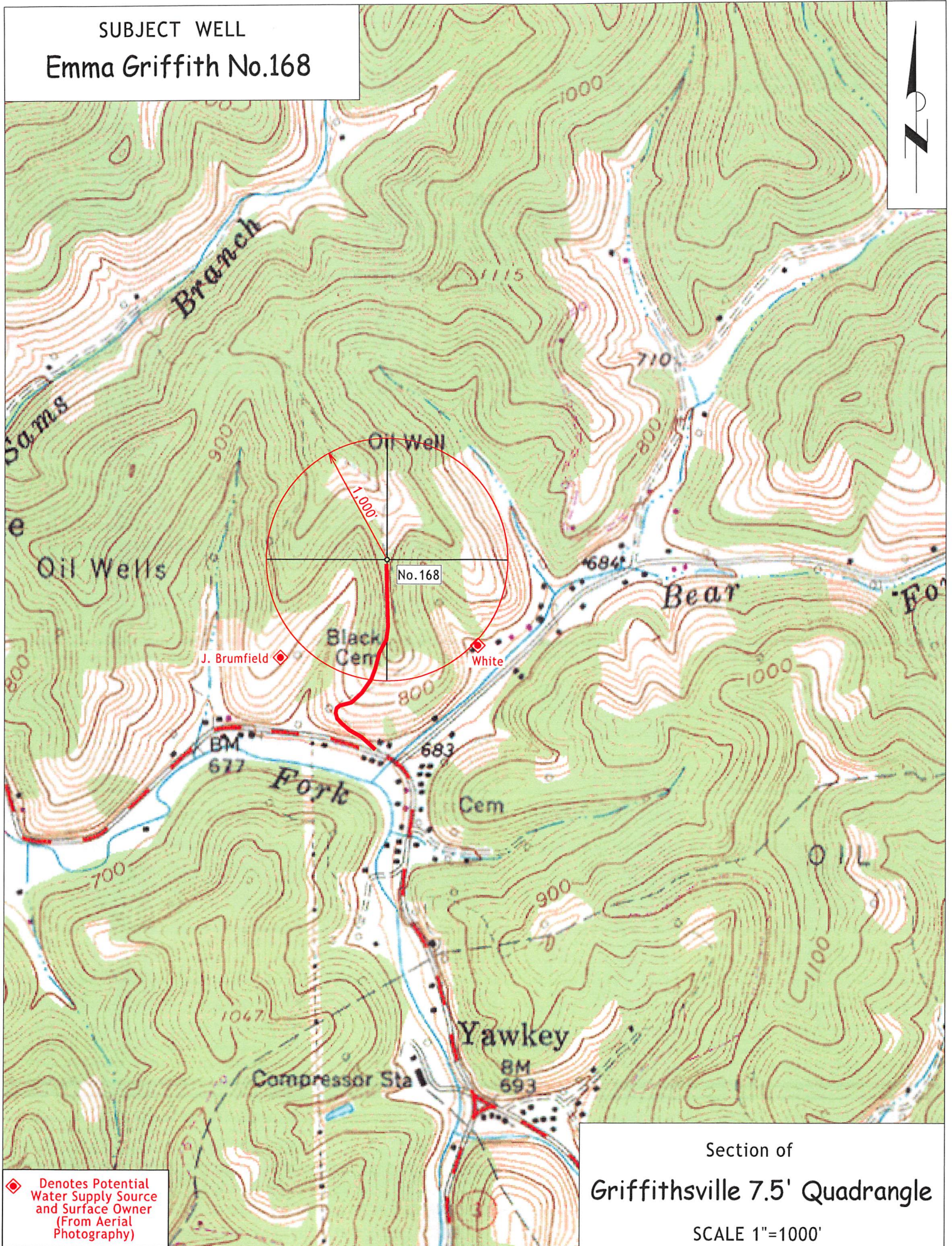
NOTE
 REFER TO THE WVDEP
 EROSION AND SEDIMENT CONTROL
 FIELD MANUAL VER. MAY 2012 FOR
 BMPs CONTROLLING EROSION AND
 SEDIMENT FROM SOIL-DISTURBING
 OPERATIONS.

RECEIVED
 Office of Oil and Gas

FEB 18 2020

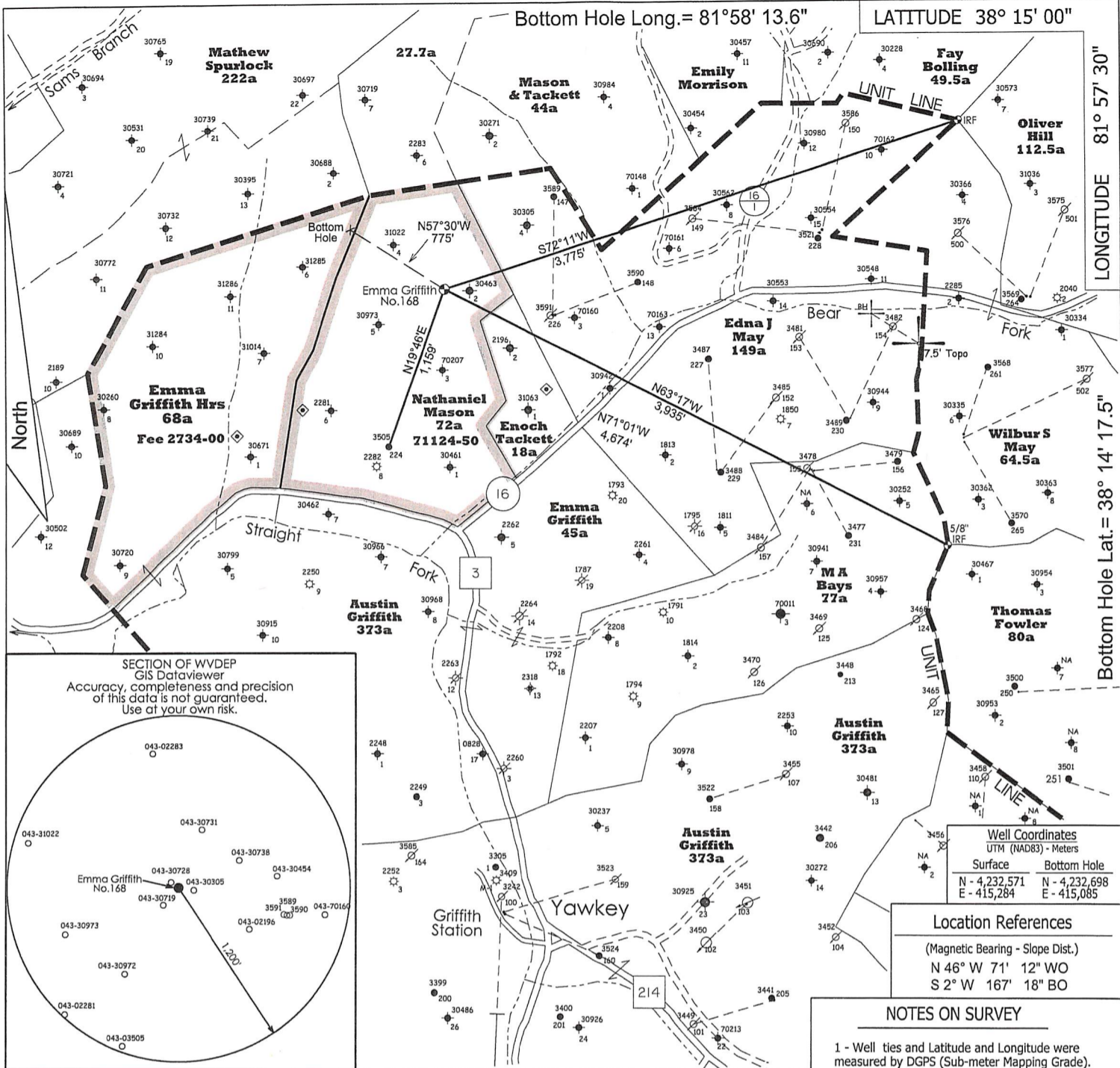
WV Department of
 Environmental Protection

SUBJECT WELL
Emma Griffith No.168

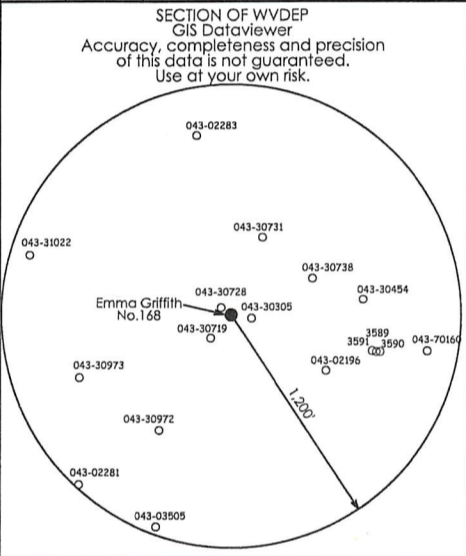


◆ Denotes Potential Water Supply Source and Surface Owner (From Aerial Photography)

Section of
Griffithsville 7.5' Quadrangle
SCALE 1"=1000'



LONGITUDE 81° 57' 30"
 Bottom Hole Lat. = 38° 14' 17.5"
 Latitude = 38° 14' 13.42"
 4,712'



Well Coordinates	
UTM (NAD83) - Meters	
Surface	Bottom Hole
N - 4,232,571	N - 4,232,698
E - 415,284	E - 415,085

Location References
 (Magnetic Bearing - Slope Dist.)
 N 46° W 71' 12" WO
 S 2° W 167' 18" BO

NOTES ON SURVEY

1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owner information obtained from the Lincoln County Assessor's tax records.

◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2016 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.

⊕ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

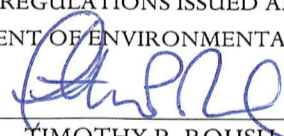
FILE NO. _____

SCALE **1" = 1000'**

MINIMUM DEGREE OF ACCURACY **Sub-Meter**

PROVEN SOURCE OF ELEVATION **DGPS Survey**
 (Sub-Meter Mapping Grade)

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) 
TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25301



DATE **December 19, 2019**

FARM **Emma Griffith No.168**

API WELL NO. **47 - 043 - D3612**

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

LOCATION: ELEVATION **911'** WATERSHED **Straight Fork**
 DISTRICT **Duval** COUNTY **Lincoln**
 QUADRANGLE **Griffithsville 7.5'**

SURFACE OWNER **Joshua Brumfield; Justin White** ACREAGE **42.72 Ac.; 22.26 Ac.**

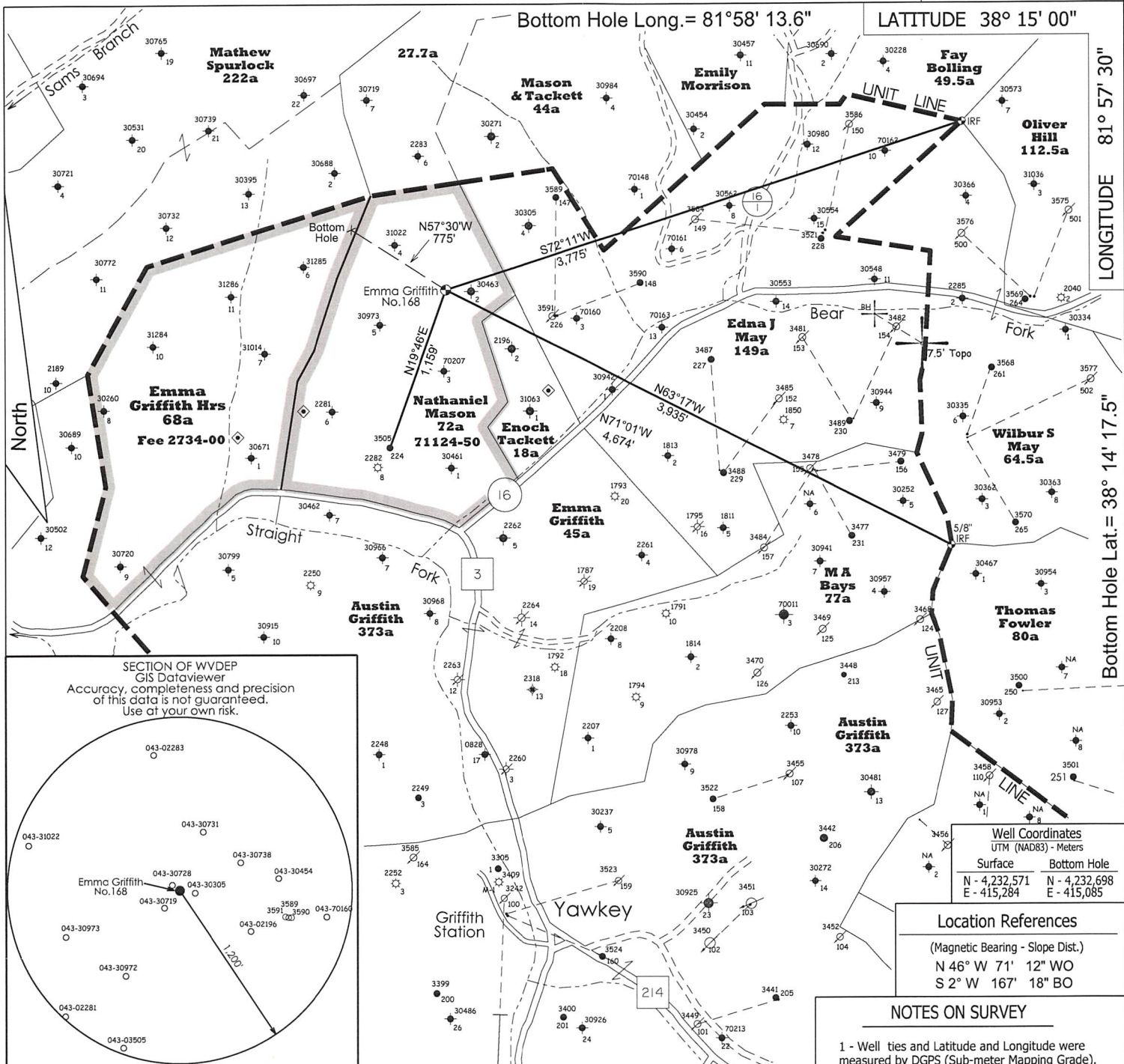
OIL & GAS ROYALTY OWNER **HG Energy, LLC et al.** LEASE ACREAGE **68 Ac.**
 LEASE NO. **Fee 2734-00**

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) NOTE: This well will be drilled directionally as shown on the plat above.

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION **Berea** ESTIMATED DEPTH **2,700' MD**

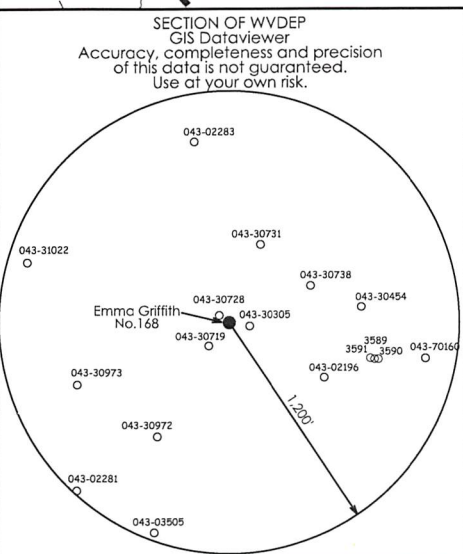
WELL OPERATOR **HG Energy LLC.** DESIGNATED AGENT **Diane White**
 ADDRESS **5260 DuPont Road** ADDRESS **5260 DuPont Road**
Parkersburg, WV 26101 **Parkersburg, WV 26101**



LONGITUDE 81° 57' 30"

Bottom Hole Lat. = 38° 14' 17.5"

Latitude = 38° 14' 13.42"



Well Coordinates	
UTM (NAD83) - Meters	
Surface	Bottom Hole
N - 4,232,571 E - 415,284	N - 4,232,698 E - 415,085

Location References	
(Magnetic Bearing - Slope Dist.)	
N 46° W 71' 12" WO	
S 2° W 167' 18" BO	

NOTES ON SURVEY

1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owner information obtained from the Lincoln County Assessor's tax records.

◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2016 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.

⊕ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

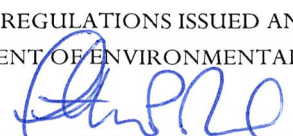
FILE NO. _____

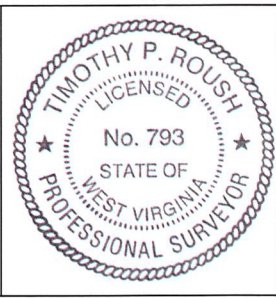
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY Sub-Meter

PROVEN SOURCE OF ELEVATION DGPS Survey (Sub-Meter Mapping Grade)

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED)  TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25301



DATE December 19, 2019

FARM Emma Griffith No.168

API WELL NO. 47 - 043 - 03612

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

LOCATION: ELEVATION 911' WATERSHED Straight Fork

DISTRICT Duval COUNTY Lincoln

QUADRANGLE Griffithville 7.5'

SURFACE OWNER Joshua Brumfield; Justin White ACREAGE 42.72 Ac.; 22.26 Ac.

OIL & GAS ROYALTY OWNER HG Energy, LLC et al. LEASE ACREAGE 68 Ac.

LEASE NO. Fee 2734-00

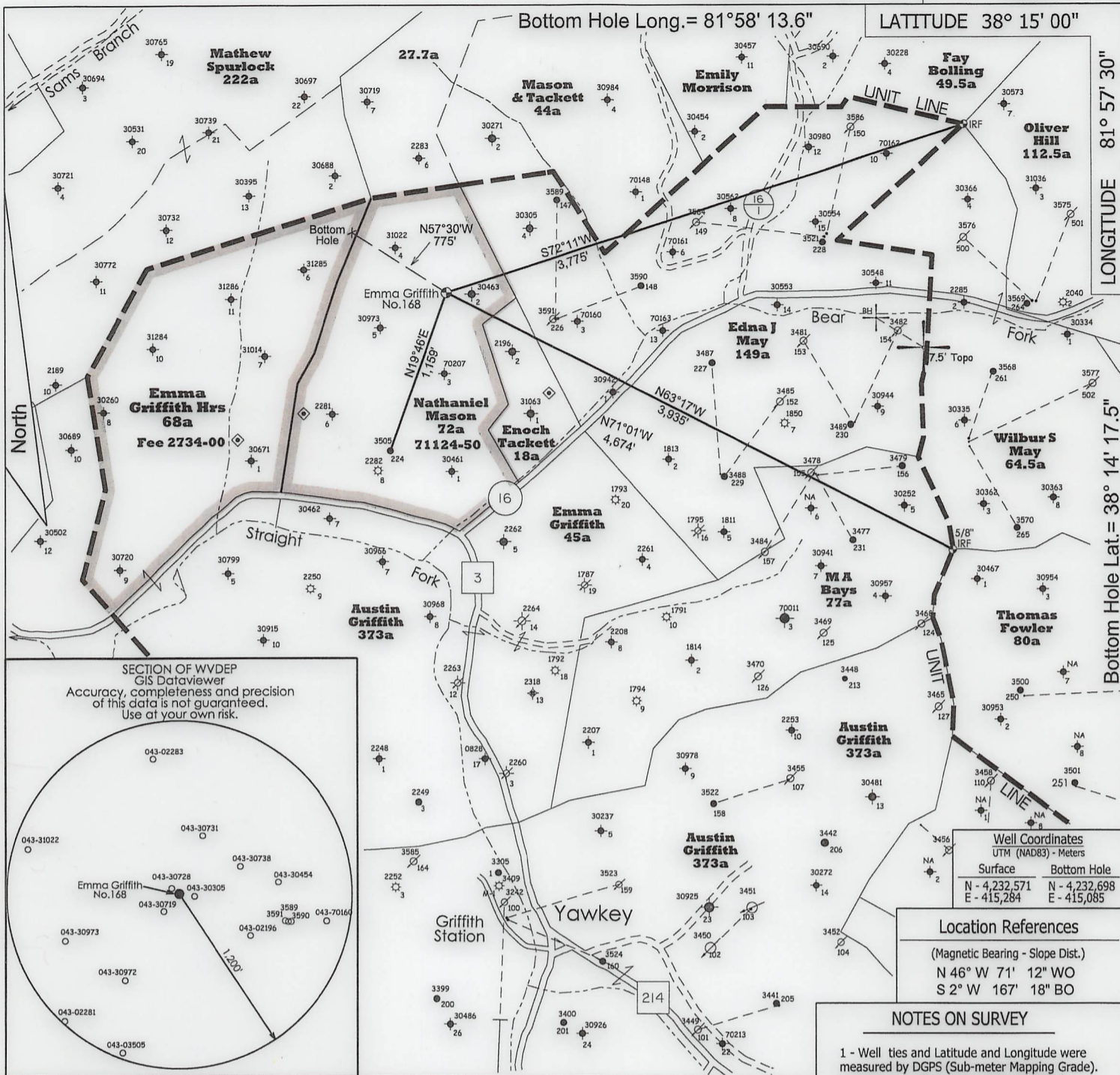
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PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION Berea ESTIMATED DEPTH 2,700' MD

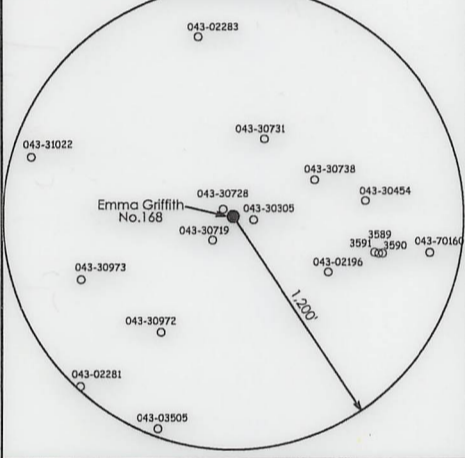
WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White

ADDRESS 5260 DuPont Road Parkersburg, WV 26101 ADDRESS 5260 DuPont Road Parkersburg, WV 26101



LONGITUDE 81° 57' 30"
Longitude = 81° 58' 05.39"
Latitude = 38° 14' 13.42"

SECTION OF WVDEP GIS Dataviewer
Accuracy, completeness and precision of this data is not guaranteed. Use at your own risk.



Well Coordinates	
UTM (NAD83) - Meters	
Surface	Bottom Hole
N - 4,232,571 E - 415,284	N - 4,232,698 E - 415,085

Location References

(Magnetic Bearing - Slope Dist.)
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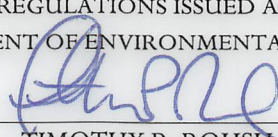
NOTES ON SURVEY

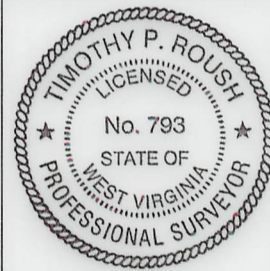
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- ⊕ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY Sub-Meter
 PROVEN SOURCE OF ELEVATION DGPS Survey
(Sub-Meter Mapping Grade)

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) 
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25301



DATE December 19, 2019
 FARM Emma Griffith No.168
 API WELL NO. 47 - 043 - 03612

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 DISTRICT Duval COUNTY Lincoln
 QUADRANGLE Griffithsville 7.5'
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directionally as shown on the plat above.

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Berea ESTIMATED DEPTH 2,700' MD

WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White
 ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

MAR 13 2020

McLaughlin, Jeffrey W

WV Department of
Environmental Protection

From: McLaughlin, Jeffrey W
Sent: Friday, March 13, 2020 12:50 PM
To: Timothy Roush
Cc: Diane White; Roger L. Heldman; Ed Haas; Mark Schall
Subject: RE: [External] HG Energy Permit Withdrawals

Tim,

Your request to withdraw the following permit applications has been granted as of March 13, 2020: Your applications should be mailed out today.

1. Emma Griffith No.166 47-043-03610
2. Emma Griffith No. 167 47-043-03611
3. Emma Griffith No. 168 47-043-03612
4. Emma Griffith No. 267 47-043-03613
5. Nathaniel Mason No. 169 47-043-03614
6. Nathaniel Mason No. 268 47-043-03615

Regards

Jeffrey W. McLaughlin

Jeff McLaughlin, B.S. Petroleum Eng.
Technical Analyst, Office of Oil & Gas
WV Dept. of Environmental Protection
Phone: 304-926-0499 Ext. 1614

From: Timothy Roush <troush@hgenergyllc.com>
Sent: Friday, March 13, 2020 10:36 AM
To: McLaughlin, Jeffrey W <Jeffrey.W.McLaughlin@wv.gov>
Cc: Diane White <dwhite@hgenergyllc.com>; Roger L. Heldman <rheldman@hgenergyllc.com>; Ed Haas <ehaas@hgenergyllc.com>; Mark Schall <mschall@hgenergyllc.com>
Subject: [External] HG Energy Permit Withdrawals

CAUTION: External email. Do not click links or open attachments unless you verify sender.

Jeff,

This email is to confirm our phone conversation this morning.

HG Energy wishes to withdraw the following permits that are currently under review by your office:

1. Emma Griffith No.166 47-043-03610
2. Emma Griffith No.167 47-043-03611
3. Emma Griffith No.168 47-043-03612

RECEIVED
Office of Oil and Gas

MAR 13 2020

WV Department of
Environmental Protection

4. Emma Griffith No.267 47-043-03613
5. Nathaniel Mason No.169 47-043-03614
6. Nathaniel Mason No.268 47-043-03615

Thank you for your attention to this matter.
Tim

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



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

RECEIVED
Office of Oil and Gas

FEB 20 2020

WV Department of
Environmental Protection

February 20, 2020

Jacob Rhodes
WV DEP - Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Response to a Letter from Howard Persinger on behalf of Joshua Brumfield –
Lincoln County, WV
Proposed Wells – E Griffith 166, 167, 168, 267, N Mason 169, 268

Dear Mr. Rhodes,

Mr. Persinger, writing on behalf of landowner, Joshua Brumfield, in a letter received by the WV DEP, expressed several concerns regarding the proposed drilling of the above referenced wells on his surface property by HG Energy, LLC (HG). This letter is in response to those concerns.

1. Mr. Brumfield requests that any producing wells placed on his property have underground electricity run to them so electric motors can be installed. He was told by HG that this would be done on the well that is currently located on his property but it was never done. The well can be heard from his house.

The original plan for that well in 2015 did anticipate that it would be electrified. However after the actual costs for doing so were fully evaluated, it was clear that the project would not support the expense of the electrical infrastructure that would be needed. Since 2015, HG has abandoned electrification of producing wells in favor of the more economic gas engines.

2. He disagrees with the proximity to his home of at least one of the well pads which will be used for the Emma Griffith 166, 167 and 267 Wells and requests that they explore alternative locations.

WVDEP requires that new wells be at least 200 feet from dwellings. The wells in question are to be located on a neighboring property at a distance in excess of 550 feet. HG did explore other potential locations for these wells but, because of the topography and pipelines in the area, this option was determined to be the most feasible location for these wells.

3. He believes the road HG Energy intends to build to access the well sites will be a major land disturbance leading to erosion of his property. HG Energy claims to “already have a right-of-way” but he isn’t sure if that is true.

FEB 20 2020

WV Department of
Environmental Protection

HG Energy, LLC, will construct and maintain the drill site, access roads and pipelines in accordance with WVDEP requirements and industry BMPs. It should be noted that HG uses pad drilling in this project, enabling the drilling of three or more wells from one location in order to minimize the total amount of earthwork required for drill sites, roads and pipelines. This approach significantly reduces overall environmental impact and minimizes the surface use of Mr. Brumfield's land. The access road is authorized under terms of the lease which HG holds on Mr. Brumfield's property. That lease provides for the rights of ingress and egress for wells on the premises.

4. He feels that the standard \$5,000 per pad offer for "nuisance pay" to the landowner is insufficient considering the locations they have chosen, one of which is very close to his home.

The obligations of oil and gas operators to the surface owners are spelled out in Chapter 22-7-3 of the WV Code and HG fully complies with each of these requirements. Although it is not required by law, HG's policy is to go a step further and offer a \$5,000 location fee to landowners in order to help mitigate any inconvenience incurred during the drilling process.

5. He also requests that the producing well established in 2014 or 2015 (believed to be Nathaniel Mason 224) be switched to an electric motor as he was told it would be so that there will be less noise from said well.

After becoming aware of this noise issue, HG has explored options to minimize the sound generated by the subject well. As discussed above, electrification is not an economic feasibility, but HG has taken other measures to suppress the noise from the well. A noise reducing muffler and an acoustic enclosure have since been installed on this pumping unit in order to address Mr. Brumfield's complaint.

I trust we have adequately addressed Mr. Brumfield's concerns and respectfully request the subject drilling permits be issued by the WV DEP – Office of Oil and Gas.

Sincerely,

Diane White

Diane White

CC Jeffery Smith – DEP Inspector
Mr. Joshua Brumfield
Howard Persinger – Persinger & Persinger LLC

FEB 14 2020

Rhodes, Jacob K

WV Department of
Environmental Protection

From: Mo Persinger <hmp3@persingerlaw.com>
Sent: Friday, February 14, 2020 1:08 PM
To: Rhodes, Jacob K
Cc: Robin Phelps; joshdrumfield@hotmail.com
Subject: [External] WVDEP Permit No. UIC2R04301AP

CAUTION: External email. Do not click links or open attachments unless you verify sender.

RE: Permit No. UIC2R04301AP
Wells: Emma Griffith 166 – Elevation 920'
Emma Griffith 167 – Elevation 920'
Emma Griffith 168 – Elevation 911'
Emma Griffith 267 – Elevation 920'
Nathaniel Mason 169 – Elevation 911'
Nathaniel Mason 268 – Elevation 911'
Operator: HG Energy, LLC
Locations: Duval District, Lincoln County, West Virginia
Quadrangle: Griffithsville 7.5' Watershed: Straight Fork
Elevations: 920'

I am writing on behalf of Joshua D. Brumfield of 31 Vandalia Drive, Yawkey, West Virginia 25573. His telephone number is 304-561-7831. My contact information is below.

Mr. Brumfield's comments are as follows:

1. Mr. Brumfield requests that any producing wells placed on his property have underground electricity run to them so electric motors can be installed. He was told by HG that this would be done on the well that is currently located on his property but it was never done. The well can be heard from his house.
2. He disagrees with the proximity to his home of at least one of the well pads which will be used for the Emma Griffith 166, 167 and 267 Wells and requests that they explore alternative locations.
3. He believes the road HG Energy intends to build to access the well sites will be a major land disturbance leading to erosion of his property. HG Energy claims to "already have a right-of-way" but he isn't sure if that is true.
4. He feels that the standard \$5,000 per pad offer for "nuisance pay" to the landowner is insufficient considering the locations they have chosen, one of which is very close to his home.
5. He also requests that the producing well established in 2014 or 2015 (believed to be Nathaniel Mason 224) be switched to an electric motor as he was told it would be so that there will be less noise from said well.

We are in the process of reviewing the applications and anticipate submitting more comments by the end of the month and hopefully by the end of next week.

Mo Persinger



Howard M. "Mo" Persinger, III
237 Capitol Street
Charleston, WV 25301
Phone: 304-346-9333
Fax: 304-346-9337
hmp3@persingerlaw.com

RECEIVED
Office of Oil and Gas

FEB 14 2020

WV Department of
Environmental Protection