

west virginia department of environmental protection

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

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

Tuesday, March 5, 2019 WELL WORK PERMIT Vertical / New Drill

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for EG GRIFFITH 253

47-043-03592-00-00

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: EG GRIFFITH 253

Farm Name: JOSHUA & KELLY ENDICOT

U.S. WELL NUMBER: 47-043-03592-00-00

Vertical New Drill Date Issued: 3/5/2019

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. 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 §22-6-20, 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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

FORM WW-3 (B) 1/12





1) Date: 12/31/2	018				
2) Operator's Well	No.	E.C	G. Griffith 253		
3) API Well No.:	47	-	Lincoln	-	503592
	State		County		Permit
A) HIC Permit No.	11100	00.100			

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

	Distric	t: Duval			Co	unty Lincoln		Quadrar	gle Griffithsville 7.5'
WELL O	PERATOR:	IG Energy, L	LC			8) DESIGNA	TED AGE	NT Diane W	hite
		5260 Dupont					Addres		pont Road
	the state of the s	Parkersburg,	WV 26101					Parkersb	ourg, WV 26101
O) OIL & G	AS INSPECTO			ED		10) DRILLIN	IG CONTE	RACTOR	
	Jeffery L. Smith							d Upon Approva	of the Permit
	5369 Big Tyler Ros	ıd				Address			
	Cross Lanes, WV 2	5313							
	SED WELL W			physical		/ Perfo	/ Recorate new for	ormation	/ Stimulate Convert
	GIC TARGET				-th - Covie	Depth		Feet (top) to 2530' Feet (bottom)
						ting well): 265	Salt	Feet	Feet
	imate water straimate coal sean		475'	esh 300°		reet	Sait	1000	reet
	neing mined in				No				
	eservoir pressu			on 1250	5/14/	g Source	Estimated		
	ed reservoir fra				psig	g Source	Estillated		psig (BHFP)
					IONIC. I	olume per hou	25 DDI	Dattom I	
9) IVIAAIIV	TUM PROPOS	ED INJE	CHON	PERAL	LOND. V				
	ED IDENTIFIE	CATION							nole pressure 2400 psi
20) DETAII			OF MA	TERIAL	S TO BE I	NJECTED, IN			Parameter Land
20) DETAII water, bacter	ricides and other ch	emicals as ne	OF MA	TERIAL ntain water	S TO BE I	NJECTED, IN			Parameter Land
water, bacter 21) FILTER	ricides and other ch	emicals as ne Cartridge filte	OF MA' eeded to mai	TERIAL ntain water coal bed filte	S TO BE I quality and imp ers	NJECTED, INC prove oil recovery	CLUDING	ADDITIVE	S Fresh water, produced
water, bacter 21) FILTER	ricides and other ch	emicals as ne Cartridge filte	OF MA' eeded to mai	TERIAL ntain water coal bed filte	S TO BE I quality and imp ers	NJECTED, IN	CLUDING	ADDITIVE	Parameter Land
water, bacter 21) FILTER 22) SPECIF	ricides and other ch S (IF ANY) _ ICATIONS FO	emicals as no Cartridge filte DR CATH	OF MA' eeded to mai ers and chard IODIC PF	TERIAL ntain water coal bed filte	S TO BE I quality and imp ers	NJECTED, INC prove oil recovery	CLUDING	ADDITIVE	S Fresh water, produced
water, bacter 21) FILTER 22) SPECIF 23) CASING	RS (IF ANY) _CICATIONS FO	emicals as no Cartridge filte DR CATH	OF MA' eeded to mai ers and chard ODIC PF	TERIAL ntain water coal bed filte ROTECT	S TO BE I quality and imp ers	NJECTED, INC prove oil recovery	CLUDING ROSION C	ADDITIVE	S Fresh water, produced NA
water, bacter 21) FILTER 22) SPECIF 23) CASING CASING C	ricides and other ch RS (IF ANY) _ FICATIONS FO AND TUBING DR	emicals as no Cartridge filte DR CATH PROGRA	OF MA edded to mai ers and charc ODIC PF	TERIAL ntain water coal bed filte ROTECT	S TO BE II quality and imp ers TON AND	NJECTED, INC prove oil recovery OTHER COR FOOTAGE IN	ROSION C	ADDITIVE CONTROL CEMENT	S Fresh water, produced
water, bacter 21) FILTER 22) SPECIF 23) CASING	RS (IF ANY) _CICATIONS FO	emicals as no Cartridge filte DR CATH	OF MA' eeded to mai ers and chard ODIC PF	TERIAL ntain water coal bed filte ROTECT	S TO BE I quality and imp ers	NJECTED, INC prove oil recovery	CLUDING ROSION C	ADDITIVE	S Fresh water, produced NA
water, bacter 1) FILTER 2) SPECIF 3) CASING CASING C TUBING TY	ricides and other ch RS (IF ANY) _ FICATIONS FO AND TUBING DR	emicals as no Cartridge filte DR CATH PROGRA	OF MA eeded to mai ers and charc ODIC PF	TERIAL ntain water coal bed filte ROTECT	S TO BE II quality and imp ers TON AND	NJECTED, INC prove oil recovery OTHER COR FOOTAGE IN	ROSION C	ADDITIVE CONTROL CEMENT FILL -UP OR SACKS	S Fresh water, produced NA
water, bacter 21) FILTER 22) SPECIF 23) CASING CASING C TUBING TY	ricides and other ch RS (IF ANY) _ FICATIONS FO AND TUBING DR	emicals as no Cartridge filte DR CATH PROGRA	OF MA eeded to mai ers and charc ODIC PF	TERIAL ntain water coal bed filte ROTECT	S TO BE II quality and imp ers TON AND	NJECTED, INC prove oil recovery OTHER COR FOOTAGE IN	ROSION C	ADDITIVE CONTROL CEMENT FILL -UP OR SACKS	NA PACKERS
water, bacter 21) FILTER 21) SPECIF 22) SPECIF 23) CASING CASING C TUBING TY Conductor Gresh Water	AND TUBING OR YPE Size	emicals as ne Cartridge filte DR CATH PROGRA SP Grade	OF MA eeded to mai ers and charc ODIC PF M ECIFICAT Weight per ft.	TERIAL Intain water coal bed filte ROTECT IONS New	S TO BE II quality and imp ers TON AND	OTHER COR	ROSION C	CONTROL CEMENT FILL - UP OR SACKS (CU. FT.)	NA PACKERS
water, bacter 1) FILTER 2) SPECIF 3) CASING CASING CASING TUBING TO	AND TUBING OR YPE Size	emicals as ne Cartridge filte DR CATH PROGRA SP Grade	OF MA eeded to mai ers and charc ODIC PF M ECIFICAT Weight per ft.	TERIAL Intain water coal bed filte ROTECT IONS New	S TO BE II quality and imp ers TON AND	OTHER COR	ROSION C	CONTROL CEMENT FILL - UP OR SACKS (CU. FT.)	NA PACKERS Kinds
water, bacter 21) FILTER 21) SPECIF 22) SPECIF 23) CASING CASING CASING TUBING TO	AND TUBING OR YPE Size	emicals as ne Cartridge filte DR CATH PROGRA SP Grade	OF MA eeded to mai ers and charc ODIC PF M ECIFICAT Weight per ft.	TERIAL Intain water coal bed filte ROTECT IONS New	S TO BE II quality and imp ers TON AND	OTHER COR	ROSION C	CONTROL CEMENT FILL - UP OR SACKS (CU. FT.)	NA PACKERS Kinds Sizes
water, bacter 21) FILTER 22) SPECIF 23) CASING CASING CASING TUBING TO Conductor Fresh Water Coal Intermediate	AND TUBING OR YPE Today	emicals as ne Cartridge filte DR CATH PROGRA SP Grade	N OF MA' eeded to mai ers and charc ODIC PF M ECIFICATI Weight per ft.	TERIAL ntain water coal bed filte ROTECT TONS New	S TO BE II quality and imp ers TON AND	NJECTED, INC prove oil recovery OTHER COR FOOTAGE IN For Drilling 535"	ROSION C	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2.375"
water, bacter 21) FILTER 22) SPECIF 23) CASING CASING C	AND TUBING OR YPE A 1/2"	emicals as ne Cartridge filte DR CATH PROGRAL SP Grade	M OF MA' eeded to mai ers and charc ODIC PF M ECIFICATI Weight per ft. 17#	TERIAL Intain water coal bed filte ROTECT TONS New X	S TO BE II quality and imp ers TON AND	NJECTED, INC prove oil recovery OTHER COR FOOTAGE IN For Drilling 535' 2650'	ROSION CONTERVALS Left In Well 535'	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2.375" Depths set
water, bacter 21) FILTER 21) FILTER 22) SPECIF 23) CASING CASING CASING CASING CASING CASING CASING CASING CASING CONDUCTOR CO	AND TUBING OR YPE A 1/2"	emicals as ne Cartridge filte DR CATH PROGRAL SP Grade	M OF MA' eeded to mai ers and charc ODIC PF M ECIFICATI Weight per ft. 17#	TERIAL Intain water coal bed filte ROTECT TONS New X	S TO BE II quality and imp ers TON AND	NJECTED, INC prove oil recovery OTHER COR FOOTAGE IN For Drilling 535' 2650'	ROSION CONTERVALS Left In Well 535'	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2.375" Depths set
water, bacter 21) FILTER 21) SPECIF 23) CASING CASING CASING TUBING TY Conductor Fresh Water Coal Intermediate Production Fubing Liners	AND TUBING OR YPE A 1/2"	emicals as ne Cartridge filte DR CATH PROGRAL SP Grade	MOF MA seeded to mai ers and charce CODIC PF M ECIFICATI Weight per ft. 17# 10.5# 4.8#	TERIAL Intain water coal bed filte ROTECT IONS New X X	S TO BE II quality and impers TON AND Used	NJECTED, INC prove oil recovery OTHER COR FOOTAGE IN For Drilling 535' 2650'	CLUDING ROSION C STERVALS Left In Well 535' 2650' 2400'	CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2.375" Depths set 2300' Perforations Top Borrecelved



gram PER PHONE

03/08/2019

FORM WW-3 (A) 1/12



1) Date:	December	31, 2018				
2) Operate	or's Well	No.	E. G. G	riffith 253		
3) API W	ell No.:	47	2		6.0	
		State		County		Permit
4) UIC Per	mit No.	UIC2F	R04301AF	2		

STATE OF WEST VIRGINIA TION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION

	ner(S) To Be Served	7) (a) Coal Op	erator
(a) Name	Joshua & Kelly Endicott	Name	NA
Address	4701 Midway Road	Address	
	Yawkey, WV 25573		
(b) Name	Earl & Peggy Ryan	7) (b) Coal Ov	vner(S) With Declaration Of Record
Address	4797 Midway Road	Name	NA
	Yawkey, WV 25573	Address	
(c) Name		Name	-
Address		Address	
6) Inspector	Jeffery L. Smith	7) (c) Coal Les	ssee with Declaration Of Record
Address	5369 Big Tyler Road	Name	NA
	Cross Lanes, WV 25313	Address	
Telephone	681-313-6743		
	colored to the dettilion or esternished		
(2) The plat ((3) The Cons plan for e	volved in the drilling or other worl surveyor's map) showing the well truction and Reclamation Plan on rosion and sediment control and for proposed for the first injection	location on Form WW-6 Form WW-9 (unless the or reclamation for the site	well work is only to plug a well), which sets out the

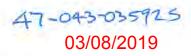
The person signing this document shall make the following certification:

Signature:

Well Operator "I certify under penalty of law that I have personally examined and Address 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.

HG Energy, LLC Office of Oil and Gas 5260 Dupont Road Parkersburg, WV 26101 JAN 18 2019 By: Diane White Its: Accountant WV Department of Environmental Protection Diane White



WW-2B1	
(5-12)	

Well No.	E. G. Griffith 253	

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
Sampling Contractor

Sturm Environmental Labs

Telephone

Sturm Environmental Labs

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.

* See Attached Sheet *

TOPO MAP

Office of Oil and Gas

JAN 1 8 2019

WV Department of Environmental Protection

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.

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 underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Surface Owners Identified With Water Sources to be Sampled and Tested:

Jason & Ashley Bender Joshua & Kelly Endicott 4701 Midway Road 4794 Midway Road Yawkey, WV 25573 Yawkey, WV 25573

Robert McCallister Earl & Peggy Ryan 4797 Midway Road 104 Lock Lane Yawkey, WV 25573 Alum Creek, WV 25003

Jackie & Sandra Stowers Davis Brothers, LLC 4818 Midway Road 1700 Vecuna Circle Panama City, FL 32407 Yawkey, WV 25573

Wanda Bird Jeremy & Sarah McClung 1400 Bedford Road 4810 Midway Road Yawkey, WV 25573 Charleston, WV 25314

Garland Endicott Matthew & Jessica Pauley 4705 Midway Road 4786 Midway Road Yawkey, WV 25573 Yawkey, WV 25573

> Joann McMellon 4642 Midway Road Yawkey, WV 25573

> > RECEIVED Office of Oil and Gas

> > > JAN 18 2019

WV Department of Environmental Protection WW-9 (2/15)

PI Number	47 -	
-----------	------	--

Operator's Well No, E. G. Griffith 253

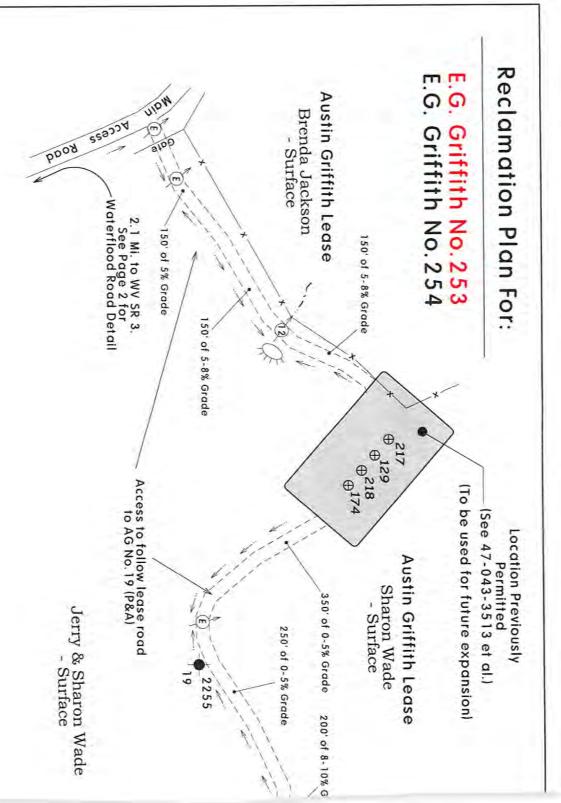
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL &	RECLAMATION PLAN
Operator Name HG Energy, LLC	OP Code 494497948
Watershed (HUC 10) Porter Fork Qua	adrangle Griffithsville 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the probability will a pit be used? Yes V No No	
If so, please describe anticipated pit waste: Fluids encountered	ed while drilling subject well
Will a synthetic liner be used in the pit? Yes No	If so, what ml.? 20 mil
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 dis Other (Explain	sposal location)
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, KCI	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, et	c. Offsite Disposal at a DEP Approved Landfill
-If left in pit and plan to solidify what medium will be used? (c	
-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 West Virginia solid waste facility. The notice shall be provided within 24 where it was properly disposed.	
I certify that I understand and agree to the terms and conditions on August 1, 2005, by the Office of Oil and Gas of the West Virginia De provisions of the permit are enforceable by law. Violations of any term law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examine application form and all attachments thereto and that, based on my obtaining the information, I believe that the information is true, accurpenalties for submitting false information, including the possibility of fin	partment of Environmental Protection. I understand that the n or condition of the general permit and/or other applicable and am familiar with the information submitted on this inquiry of those individuals immediately responsible for rate, and complete. I am aware that there are significant
Company Official Signature Diane White	RECEIVED
Company Official (Typed Name) Diane White	Office of Oil and Gas
Company Official Title Accountant	JAN 1 8 2019
	WV_Department of Environmental Protection
Subscribed and sworn before me this 31st day of December	, 20 18 OFFICIAL SEAL
My commission expires August 30, 2022	Deskersburg, West Virginia 26101

Operator's Well No. E. G. Griffith 253

Proposed Revegetation Treatm	nent: Acres Disturb	ned 1.5 acres Prevegetati	on pH
Lime 3	Tons/acre or to	correct to pH 6.5	
Fertilizer type 10-20	0-20		
Fertilizer amount		500 lbs/acre	
Mulch Straw		2 Tons/acre	
		Seed Mixtures	
Ten	nporary	Po	ermanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach:		ill be in place at all time ** a for land application (unless engineered plan	ns including this info have b
Attach: Drawing(s) of road, location, porovided) Photocopied section of involve	pit and proposed are ed 7.5' topographic	a for land application (unless engineered plansheet.	
Attach: Drawing(s) of road, location, porovided) Photocopied section of involved Plan Approved by: Section Se	pit and proposed are ed 7.5' topographic	a for land application (unless engineered plansheet.	ued prior to

WV Department of Environmental Protection



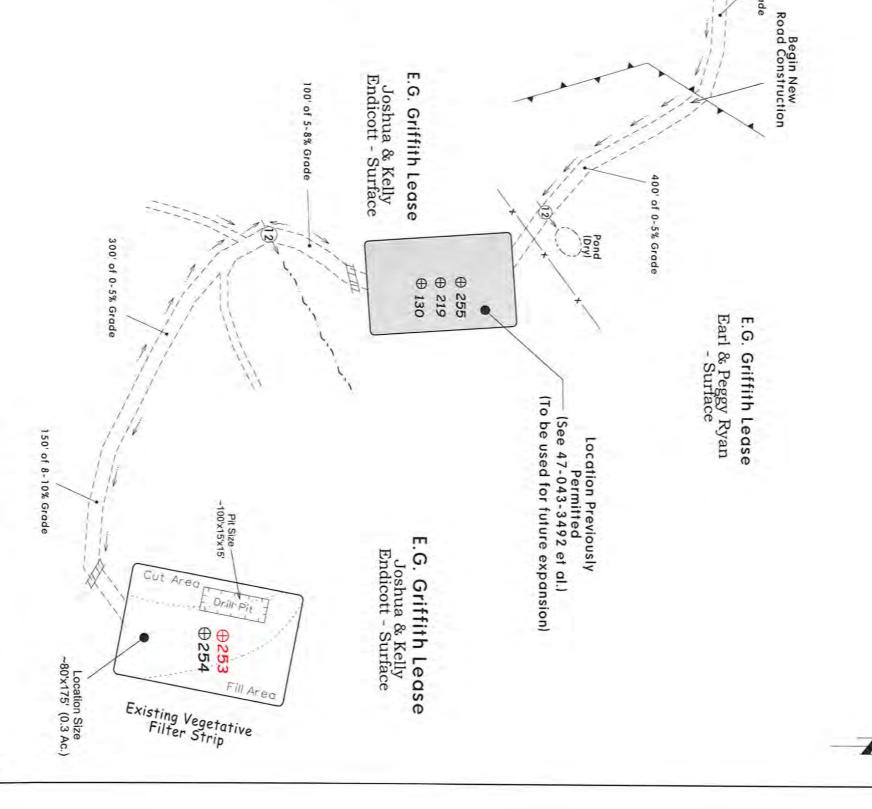
Notes:

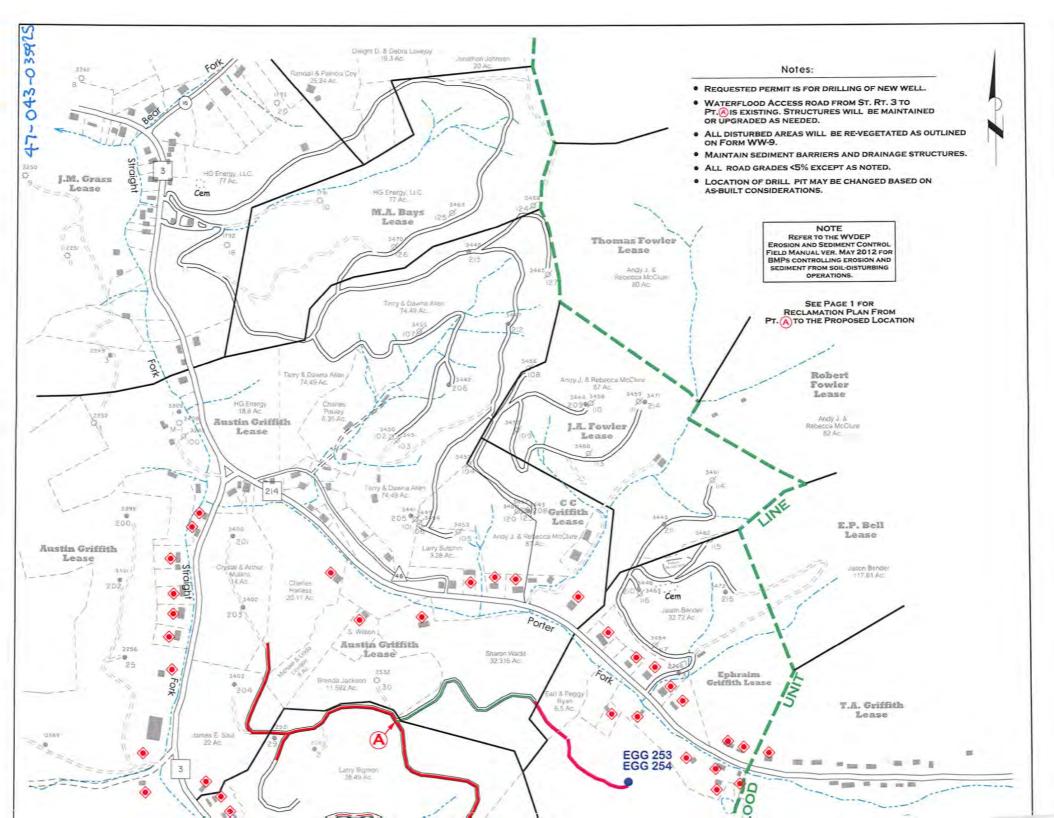
- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- SOME ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED TO WVDEP STANDARDS, NEW STRUCTURES WILL BE INSTALLED AS SHOWN.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- Maintain 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

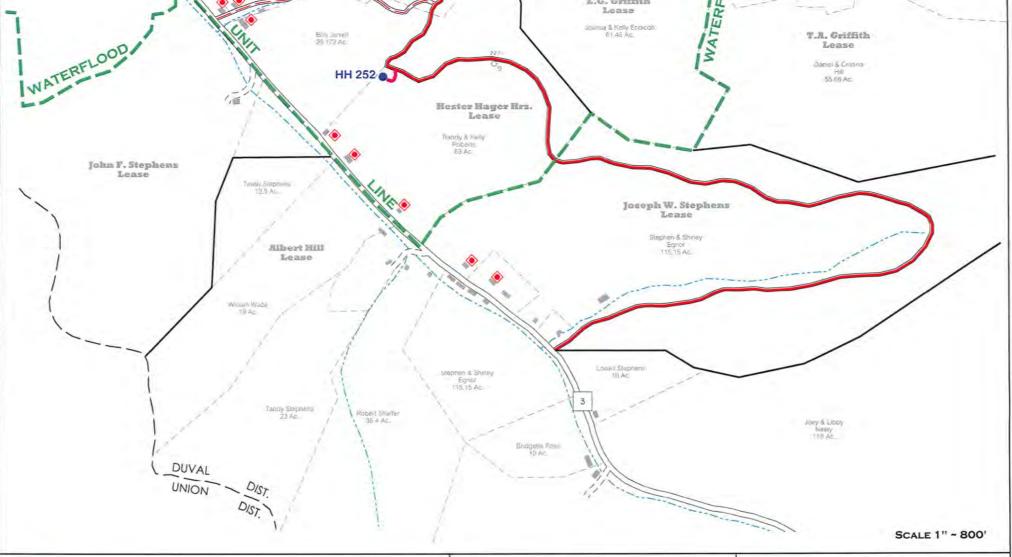
NOTE

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

WV Department of









GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2019 DRILLING PROGRAM (SOUTH)

PAGE 2

NOTES

- 1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. MAY 20, 2013) FOR BMP'S CONTROLLING EROSION AND SEDIMENTATION FROM ALL SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT A TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG PRIOR TO 2015 (AS SHOWN). SEE PERMITS ON FILE FOR MORE DETAIL.

EXISTING V ROADS TO OTHER EXI WATERFLO

EGG 253

EXISTING WATERFLOOD ROADS TO BE USED.

OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS).

EXISTING LEASE OR FARM ROADS TO BE UPGRADED.

NEW ROADS TO BE CONSTRUCTED.

LOCATION FOR PROPOSED WELLS

POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (LOC. APPROX.)

DECEMBER 5, 2018

