

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

Friday, September 13, 2019 WELL WORK PERMIT Vertical / Convert

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

,

Re: Permit approval for E. J. MAY 147 REV 47-043-03589-00-00

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: E. J. MAY 147 REV

Farm Name: JUDY R. SMITH

U.S. WELL NUMBER: 47-043-03589-00-00

Vertical Convert
Date Issued: 9/13/2019

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.

WW - 2B (Rev. 8/10)

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

1) vveii Operato	or: HG E	nergy, LL	_C	494497948	Lincoln	Duval	Griffithsville 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's W	/ell Numb	er:EJ M	1ay 147		3) Elevation:	840'	-
4) Well Type: (a							
(b) If Gas:	Produ	iction / Und	derground Sto	rage		
		Deep	o/ 8	Shallow _x			
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	tal Depth fresh wa	: <u>2726'</u> ter strata	a depths: 125'	Formation at F	Proposed Tar Proposed Tota	get Depth: _ al Depth: _ ^{Bere}	2542' 3a
9) Approximate	coal sea	m depths	s: <u>315', 385'</u>				
10) Approximate	e void de	pths.(coa	al, Karst, other):	None		ï	
					one		
11) Does land c	contain co	oai seam	s tributary to ac	uve mine? <u>N</u>	0110		
,			nd fracturing meth	•			
well has been drille running rods through			is is a request to co	onvert presently p	permitted injection	on well to a pro	ducing well by
uning rous unoug	gri trio tabii	ig iii tiio w	OII.				
12)		CA	ASING AND TU	DING DDAGD	A 10/1		
13) <u>TYPE S</u>	PECIFIC			FOOTAGE	INTERVALS	S CEME	NT
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	. Ft.)
Conductor	13 3/8"	LS			25'	Already p	resent
Fresh Water	7"	LS	17#		462.7'	Already p	resent
Coal							
Intermediate							
Production	4 1/2"	LS	10.5#		2678.43'	Already p	resent
Tubing							Office of Oil and (
Liners							AUG 1 5 201
Packers: Kind	l:	L				L	WV Department Environmental Prote
Size	es:						
Dep	ths Set						

WW-2	2A
(Rev.	6-14)

1). Date: <u>July 25, 2019</u>

2.) Operator's Well Number <u>EJ May 147</u>
State County Permit

3.) API Well No.: 47- 043 - 03589

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

		NOTICE AND APPLIC	ATION FOR A W	ELL WORK PERIMIT	
4)	Surface Owi	ner(s) to be served:	5) (a) Coal Ope	rator	
,	(a) Name	Judy Smith	Name	NA	
	Address	25 Pond Gap	Address		
		Yawkev, WV 25573			
	(b) Name	Justin White	(b) Coal Ov	vner(s) with Declaration	
	Address	90 Bear Fork Road	Name	NA	
		Yawkev, WV 25573	Address		
	(c) Name		Name		
	Address		Address		
6) I	Inspector	Jefferv Smith	 (c) Coal Le	ssee with Declaration	
	Address	5369 Big Tyler Road	Name	NA	
		Cross Lanes, WV 25313	Address		
	Telephone	681-313-6743			
	The second secon	TO THE PERSONS I	NAMED ABOVE TA	KE NOTICE THAT:	
	Included is th	e lease or leases or other continu			extract oil and gas
OR					
Х		e information required by Chaptei			
		nat as required under Chapter 22			
app	olication, a loca	ation plat, and accompanying docu Personal Service (Affidavit a		gn on the above named p	arties by:
		Certified Mail (Postmarked p	,	1)	
	_^	Publication (Notice of Public		''	
	I have rea	ad and understand Chapter 22-6		agree to the terms and cond	ditions of any permit
issı	ued under this	application.		_	
		nder penalty of law that I have p			
		rm and all attachments, and that			tely responsible for
opt		mation, I believe that the informare that there are significant penal			anaihility of fine and
imn	orisonment.	re that there are significant penal	iles for submitting rais	se information, including the po	ossibility of fine and
mη	-	Well Opera	tor HG Energy, L	I C	
		OFFICIAL SEAL	By: Diane White	Diane White	Office of Oil and Gas
		STATE OF WEST VIRGINIA	Its: Accountant		
		NOTARY PUBLIC CASSIDY A. BOARDMAN Addre	ss: 5260 Dupont		AUG 15 2019
	530	1 13th Ave Vienna, WV 26105	Parkersburg,		
	My Co	ommission Expires July 31, 2022 Telephor			WV Department of Environmental Protection
		Em		eravllc.com	
Sub	oscribed and s	worn before me this <u>25th</u> day	of July	, <u>03589</u>	
		Casad A. Bo	du	Notary Public	
Му	Commission E			· ·	
Oil a	nd Gas Privacy N	Notice			

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov



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

July 25, 2019

Judy Smith 25 Pond Gap Yawkey, WV 25573

RE:

Edna May No. 147

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 of the enclosed permit application papers.

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

Very truly yours,

Diane C. White

Enclosures

W Department of Environmental Protection



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

July 25, 2019

Justin White 90 Bear Fork Road Yawkey, WV 25573

RE:

Edna May No. 147

Duval District, Lincoln County

West Virginia

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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.

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

Office of Oil and Gas 2019 AUG 15 2019

Very truly yours,

Diane White

Diane C. White

Enclosures

WW-2A1 (Rev. 1/11)

Operator's Well Number EJ May 147

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) 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:

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

**See Attached*1

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit app licant for the proposed well work addressed in this application he reby a cknowledges 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

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Office of Chand Gas

AUG 1 5 2019

WV Department of Environmental Protection

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 ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator:

By:Its:

Diane White HG Energy, LLC

Diane White, Agent

Form	WW-2A(1)
(10/10	0)

Operator's Well No	۰

Е	T	May	147
L	J	iviay	14/

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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- (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;
- 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:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
E J May	Penzoil Company	1/8	35/154	

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

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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:

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AUG 15 2019

WV Department of Environmental Protection

WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways U.S. Army Corps of Engineers US Fish and Wildlife Service County Floodplain Coordinator

> Well Operator: HG Energy, LLC Bv: Diane C. White Its: Accountant

WW-2B ²	1
(5-12)	

Well No.	E J May 147	

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 Labora	atory Name	Sturm Environmental Lab
Sampling Contractor		Sturm Environmental Lab
Well Operator	HG Energy, LL0	c
Address	5260 Dupont Re	oad
	Parkersburg, W	V 26101
Telephone	304-420-1119	

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.

* No water sources identified within 1000 Est.

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AUG 1 5 2019

WV Department of Environmental Protection WW-9 (5/16)

API Number	47 -	043	_ 03589	
Operator's W	ell No	. EJ May	147	

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) Bear Fork	Quadrangle Griffithsville 7.5'	
Do you anticipate using more that	15,000 bbls of water to complete the proposed well work? Yes No	
Will a pit be used? Yes		
Will a synthetic liner be	cipated pit waste: No 🚺 If so, what ml.?	
Proposed Disposal Meth	od For Treated Pit Wastes:	
	pplication (if selected provide a completed form WW-9-GPP)	
	round Injection (UIC Permit Number)	
Off Si	(at API Number) be Disposal (Supply form WW-9 for disposal location)	
Other	Explain No pit will be used, this is a conversion of an existing well	
Will closed loop systembe used	If so, describe: No	
Drilling medium anticipated for t	is well (vertical and horizontal)? Air, freshwater, oil based, etc. NA	
-If oil based, what type?	Synthetic, petroleum, etc	
Additives to be used in drilling m	dium?NA	
Drill cuttings disposal method? I	eave in pit, landfill, removed offsite, etc. NA	
-If left in pit and plan to	solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name	permit number? NA	
	tice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any The notice shall be provided within 24 hours of rejection and the permittee shall also disclose	
on April 1, 2016, by the Office of provisions of the permit are enfor or regulation can lead to enforcer I certify under penalty application form and all attachment the information, I believe that the	of law that I have personally examined and am familiar with the information submitted on this atts thereto and that, based on my inquiry of those individuals immediately responsible for obtaining information is true, accurate, and complete. I am aware that there are significant penalties for adding the possibility of fine or imprisonment. Diane White	9
Company Official Title	WV-Department Environmental Prote	of ectio
Subscribed and sworn before me		
Carson	Notary Public OFFICIAL SEAL	
My commission expires \(\frac{1}{3}	Notary Public OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 261 My Commission Expires July 31, 2	

WV Department of Environmental Protection

Field Reviewed?

Form WW-9		Operator's W	Vell No. EJ May 147		
Proposed Revegetation Trea	tment: Acres Disturbed0	5 acre Preveg etation p	Н		
Lime	3 Tons/acre or to correct	to pH 6.5			
Fertilizer type	10-20-20	6			
Fertilizer amount_	50	00 _{lbs/acre}			
{Mulch} Straw	2	Tons/acre			
		Seed Mixtures			
Temporary		Perma	Permanent		
Seed Type	lbs/acre	Seed Type	lbs/acre		
Tall Fescue	40	Tall Fescue	40		
Ladino Clover	5	Ladino Clover	5		
Attach: Maps(s) of road, location, pi provided). If water from the (L, W), and area in acres, of Photocopied section of invol	pit will be land applied, prov the land application area.	application (unless engineered plans incluvide water volume, include dimensions (L	ding this info have been, W, D) of the pit, and dimension		
Plan Approved by:	Grey Smith				
Comments: All 5	rediment confro	of to be removed,	prior to		
release,					
			RECI		
			Office of C		
			AUG 1		

0:/ + Gas Inspector Date: 07/25/2019

wed? () Yes () No

N/A

WW-9- GPP Rev. 5/16

Page	of 2	
API Number 47 - 043	- 03589	
Operator's Well No. EJ Ma	ay 147	

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

GROUNDWATER PROTECTION PLAN

Operator Name: HG Energy, LLC	
Watershed (HUC 10): Bear Fork	Quad: Griffithsville 7.5'
Farm Name: E J May	
. List the procedures used for the treatment and discharge of groundwater.	f fluids. Include a list of all operations that could contaminate the
NA	
2. Describe procedures and equipment used to protect ground	lwater quality from the list of potential contaminant sources above.
NA	
List the closest water body, distance to closest water bod discharge area.	dy, and distance from closest Well Head Protection Area to the
NA	
INA	
Summarize all activities at your facility that are already reg	gulated for groundwater protection.
NA	
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	AVG 1 5 2019
	Environmental Prote

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WW-9- GPP Rev. 5/16

N/A

Page 2 of 2

API Number 47 - 043 - 03589

Operator's Well No. EJ May 147

Provide a statement that no waste material will be used for deicing or fill material on the property. NA Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination. NA Provide provisions and frequency for inspections of all GPP elements and equipment. NA Office of Or and or AUG 15 20.3 Wy Driver and or Environmental Procedures and equipment and equipment and equipment.	NA	
Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination. NA Provide provisions and frequency for inspections of all GPP elements and equipment. NA Office of G and G AUG 1 5 20 3		
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Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination. JA Provide provisions and frequency for inspections of all GPP elements and equipment. JA Office of Offi		This material on the property.
Provide provisions and frequency for inspections of all GPP elements and equipment. NA Office of Oil and each of Aug 15 20.3	NA .	
Provide provisions and frequency for inspections of all GPP elements and equipment. NA Office of Oil and each of Aug 1 5 20.3		
Provide provisions and frequency for inspections of all GPP elements and equipment. JA Aug 15 20.3		
Provide provisions and frequency for inspections of all GPP elements and equipment. NA Office of Oil and each of Aug 15 20.3		Table of the state
Provide provisions and frequency for inspections of all GPP elements and equipment. NA Office of Oil and Office AUG 1 5 2013	provide direction on how to prevent groundwater contamination.	provided to the employees. Job procedures shall
NA RECEIVED Office of Oil and Ga AUG 1 5 2009	 VA	
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NA RECEIVED Office of Oil and Ga AUG 1 5 2009		
Office of Oil Lind Ga AUG 1 5 2009	Provide provisions and frequency for inspections of all GPP element	s and equipment.
Office of Oil Lind Ga	NA	
AUG 1 5 2009		DECENTED.
148/ Perwinant of		
ignature: Diane White Environmental Protect		AUG 1 5 203
gnature	innoture: Diana 1. White	WV Department of Environmental Prote
	gnature:	

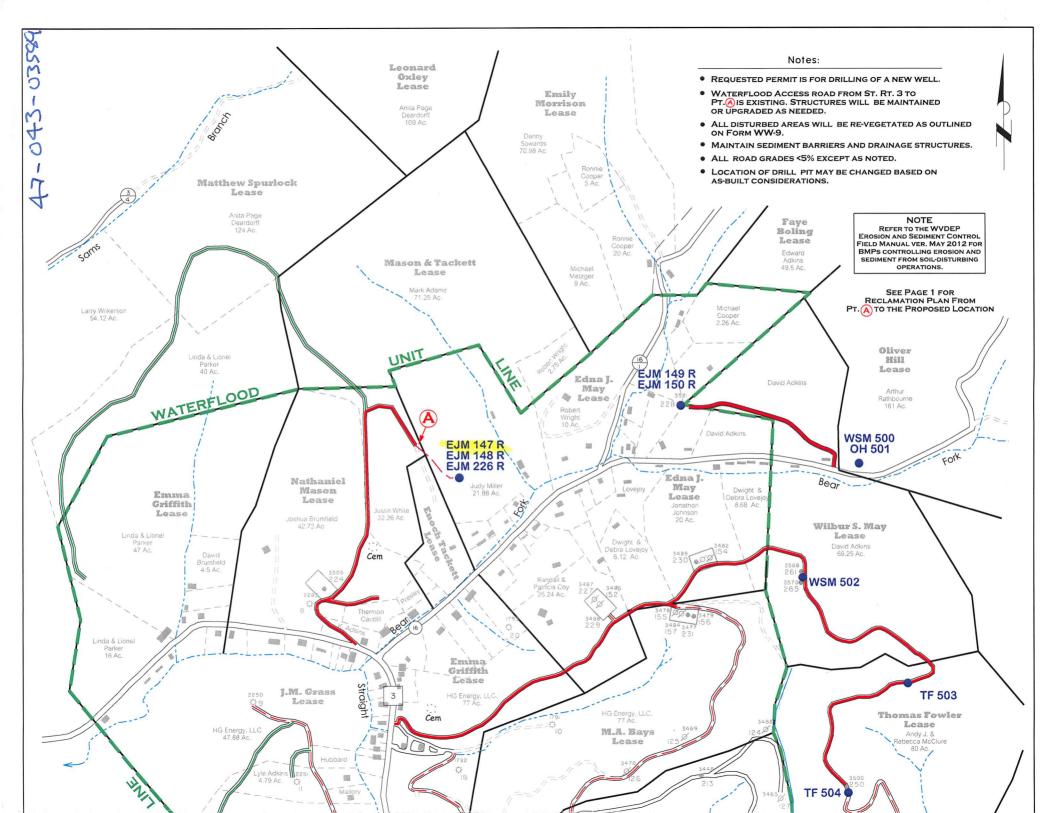
Reclamation Plan For: E.J. May No. 147 Rev. (47-043-03589) E.J. May No. 148 Rev. (47-043-03590) E.J. May No. 226 Rev. (47-043-03591) 0.5 Mi. to WV SR 3. See Page 2 for Waterflood Road Detail 250' of 22% Grade Begin New Road Construction **Nathaniel** Mason Lease E.J. May Justin White - Surface Lease 250' of 15% Grade Judy Smith - Surface 150' of 8-10% Grade NOTE: THIS WELL WAS DRILLED IN 2019 AS PER PERMIT No.47-043-03589. RECLAMATION WAS COMPLETED AND ALL E&S STRUCTURES ARE IN PLACE. Enoch NO PIT WILL BE REQUIRED FOR **Tackett** PERMITTED WELL WORK Lease Justin White Surface EXISTING LOCATION ⊕⊕⊕148 R 226 R 147 R Existing Vegetative Filter Strip Location Size ~80'x175' (0.3 Ac.)

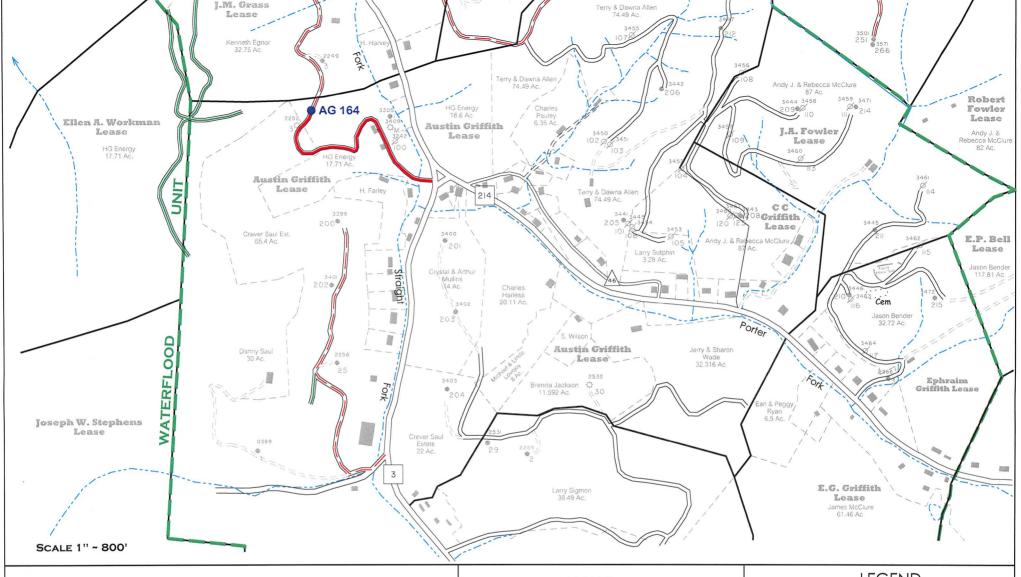
Notes:

- REQUESTED PERMIT IS FOR CONVERSION OF EXISTING WELL.
- ALL ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS.
- ANY DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- 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.







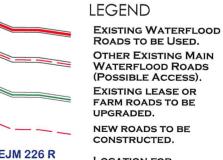
GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2019 **DRILLING PROGRAM**

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.



EJM 226 R

LOCATION FOR PROPOSED WELLS

POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (SEE TOPO SHEET)

JULY 15, 2019

PAGE 2

47-043-03589

