

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

Wednesday, September 05, 2018 WELL WORK PERMIT Vertical / New Drill

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Permit approval for E. P. BELL 507 Re:

47-043-03588-00-00

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

Operator's Well Number: E. P. BELL 507

Farm Name: JASON & ASHLEY BENDER

U.S. WELL NUMBER: 47-043-03588-00-00

Date Issued: 9/5/2018

Vertical New Drill

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.

Waste Disposal

Quadrangle Griffithsville 7.5'

FORM WW-3 (B) 1/12

5) WELL TYPE:

6) LOCATION:



Elevation: 888'

7) WELL OPERATOR: HG Energy, LLC

District: Duval

Liquid Injection /



1) Date: 08/10/20	8				
2) Operator's Well	No.	E.F	P. Bell 507		
3) API Well No.:	47		043	-	
	State	-	County	-	Permit
4) UIC Permit No.	LIICZI	20/32	AP		

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

Porter Fork

8) DESIGNATED AGENT Diane White

Gas Injection (not storage)

County Lincoln

Watershed:

	Address	5260 Dupont	Road				Addre	ss 5260 Du	pont Road
		Parkersburg,	WV 26101					Parkersh	ourg, WV 26101
9) OIL & (GAS INSPEC	TOR TO BE	NOTIFI	ED		10) DRILLIN	G CONTE	RACTOR	
Name	Jeffery L. Smith					Name Tol	Be Determine	d Upon Approva	al of Permit
Address	5369 Big Tyler I	Road				Address			
	Cross Lanes, W	V 25313							
11) PROP	OSED WELL			old form	/ Drill of	leeper Performant		drill ormation	/ Stimulate Convert
12) GFOI	OGIC TARG	ET FORMA			change in ,	Depth	2580	Feet (top) to 2600 Feet (bottom)
13) Estima	ted Denth of	Completed V	Well (or s	ctual de	nth of exist	ting well): 270		Feet	
	cimate water			esh 200		Feet	Salt		Feet
	cimate water		445'				- Juli		
	being mined				No				
	reservoir pres			on 1250	_ psig	Source	Estimated		
	ted reservoir			650	P518	Source	- Louisiana		psig (BHFP)
					IONS: I	olume per hou	r 25 BBI	Rottom I	
									S Fresh water, produced
						prove oil recovery	CLODING	ADDITIVE	
The state of the s	RS (IF ANY)	Christian Charles Commission		11120000		prove on recovery			
						OTHER CORI	NOISON C	CONTROL	
22) SPECI	FICATIONS	FOR CATH	ODICTI	COLECT	ION AND	OTTER COR	KOSIOIV C	CONTROL	-
23) CASING	G AND TUBIN	IG PROGRAI	M						
			ECIFICAT	ONE		FOOTAGE IN	TEDMALS	CEMENT	DACVEDS
CASING TUBING			Weight	New	Used	For Drilling	Left In	FILL -UP	PACKERS
1001110	312	Clade	per ft.	New	Oscu	Tot Drining	Well	OR SACKS (CU. FT.)	(2)
Conductor									Kinds
Fresh Water	7"	LS	17#			510'	510'	CTS	
Coal									Sizes
Intermediate									2.375"
Production	4 1/2	2" J-55	10.5#			2700'	2700'	150 sks	Depths set
Tubing	2 3/8	3" J-55	4.8#			2450'	2450'		2350'
Liners									Perforations
									Top Bottom
								1	
24) APPLI	CANT'S OP	ERATING R	IGHTS v	vere aca	uired from	Susan M. Bryan	t		
	d/					/ dated	06/10/2014		of record in the
Lincoln			County Cl	erk's off	ice in Le			Book 54	Page 354
2014 14 5 3 5 2 1			, ,		The second second			and the second second	

RECEIVED Office of Oil and Gas

FORM WW-3 (A) 1/12



1) Date: August	10, 2018			
2) Operator's We	ll No.	E. P. B	ell 507	
3) API Well No.:	47	-		
	State		County	Permit
4) UIC Permit No	. UIC2F	R04302AF		

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 Ow	vner(S) To Be Served 7	(a) Coal Ope	rator	,
(a) Name	Jason and Ashley Bender	Name	NA	
Address	4794 Midway Road	Address		
	Yawkey, WV 25573			
(b) Name		(b) Coal Ow	ner(S) With I	Declaration Of Record
Address		Name	NA	
		Address	-	
(c) Name		Name	-	
Address	-	Address		
6) Inspector	Jeffery L. Smith 7)	(c) Coal Less	ee with Decl	aration Of Record
Address	5369 Big Tyler Road	Name	NA NA	aration of record
21441655	Cross Lanes, WV 25313	Address		
Telephone	681-313-6743			
The date THE REASON APPLICATION THE APPLICA ACTION AT A Take notice the Notice and Ap West Virginia Application an	at under Chapter 22-6 of the West Virginia Cooplication and accompanying documents for a Department of Environmental Protection, we discount depicted on the attached Form WW-6. Cop	MENTS IS ON STRUCTION OF YOU. HO de, the unders Well Work Pith respect to ies of this No	THAT YOU NS" ON THI DWEVER Y igned well opermit with the a well at the tice, the App	HAVE RIGHTS REGARDING THE E REVERSE SIDE OF THE COPY OF OU ARE NOT REQUIRED TO TAKE perator proposes to file or has filed this ne Chief of the Office of Oil and Gas, he location described on the attached dication, the plat, and the Construction
	on Plan have been mailed by registered or cert in certain circumstances) on or before the day of The person signing this document	of the mailing	or delivery t	o the Chief.
	The person signing this document			
"I certify under	penalty of law that I have personally examine	u anu		HG Energy, LLC
	th the information submitted in this document a	ara ari	lress	5260 Dupont Road
	d that, based on my inquiry of those individuals			Parkersburg, WV 26101
	sponsible for obtaining the information, I belie t is true, accurate and complete. I am aware that			Diane White
	penalties for submitting false information, inclu			Agent
	of fine and imprisonment.	7 - 7	nature:	Diane White
	RECEIVED Office of Oil and 0			

WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County	Lincoln	Operator Operator well number	HG Energy, LLC EP Bell 507
	INSTRUCTIONS TO SURF	ACE OWNERS NAMED ON PAG	E WW2-A / 3A
The	well operator named on page WW-2/	A / 3A is applying for a permit from	n the State to do oil or gas well work.

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:

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

<u>Time Limits and methods for filing comments.</u> 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.

<u>Comments must be in writing.</u> 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.

<u>List of Water Testing Laboratories</u>. 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		FO	R EXECUTION BY A CO	DRPORATION, ETC.
Signature Ashley Brown Da	ate <u>7-24.18</u>	Company Name By		
Jason & Ashley Bender		Its		Date
Print Name	RECEIVED		Signature	Date
	Office of Oil and	Gas	-	

WW-2B1
(5-12)

Well	No.	E.	Ρ.	Bell	507	

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	3		
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.

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WV Department of Environmental Protection WW-2B1
Page 2 - Continued

Well No.

E. P. Bell 507

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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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
 4794 Midway Road
 Yawkey, WV 25573
- Matthew & Jessica Pauley
 4786 Midway Road
 Yawkey, WV 25573
- Jeremy & Sarah McClung 4810 Midway Road Yawkey, WV 25573

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Office of Oil and Gas

SEP 5 ZUIS

WV Department of Environmental Protection 09/07/2018

WW-9 (2/15)

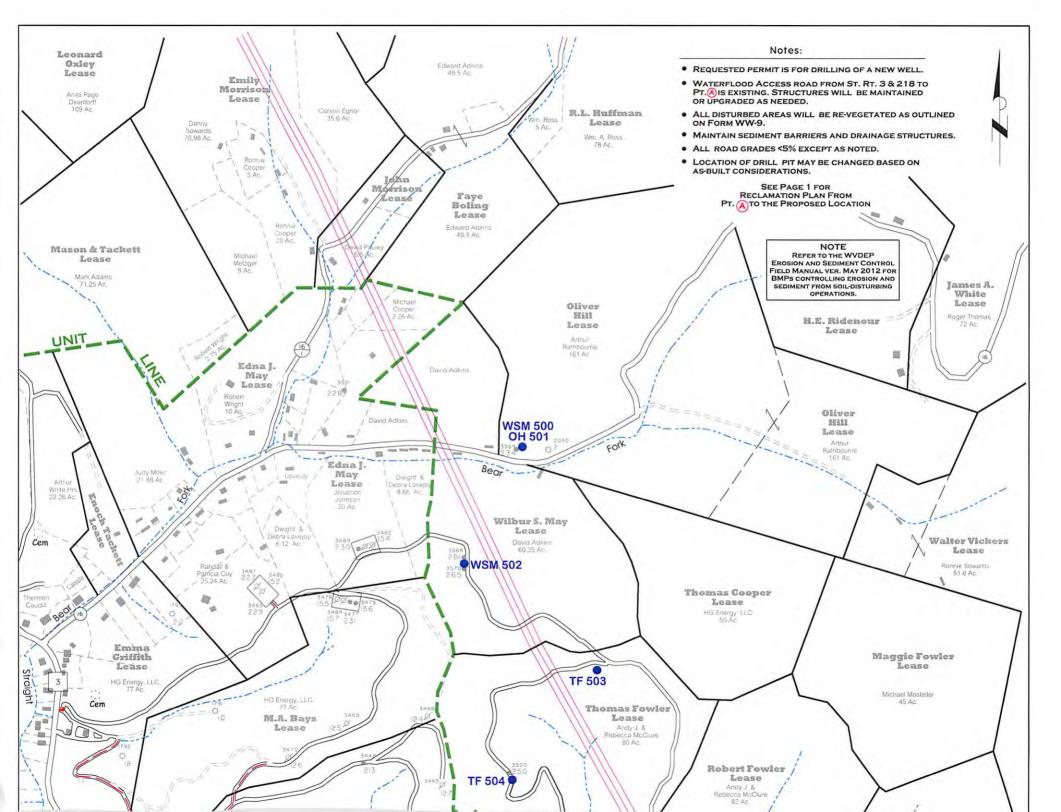
API Number 47 -			
Operator's	Well No.	E. P. Bell 507	

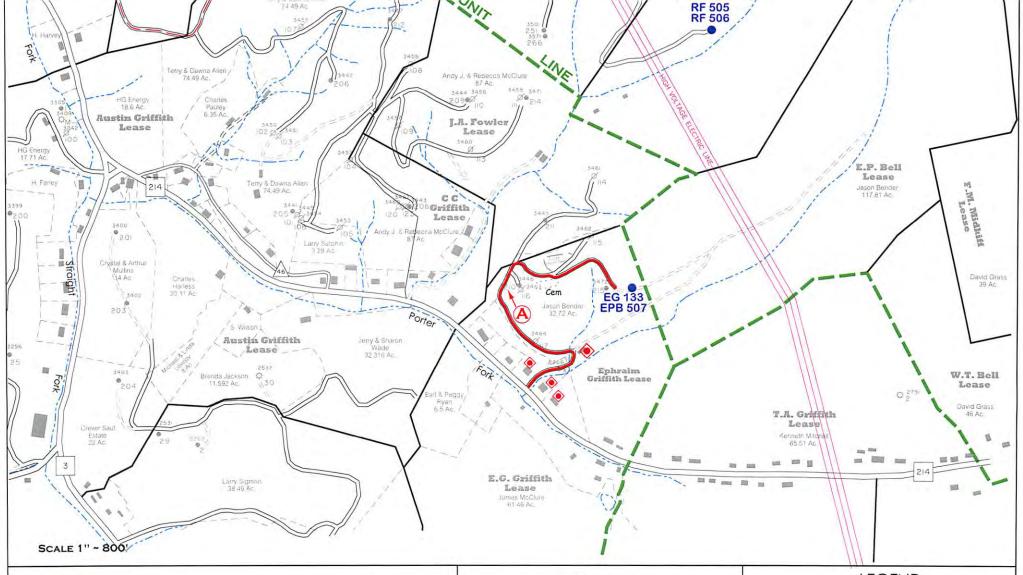
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DISPOSAL	X RECLAMATION PLAN
Operator Name HG Energy, LLC	OP Code 494497948
	uadrangle Griffithsville 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No No	proposed well work? Yes No
If so, please describe anticipated pit waste: Fluids encounte	red while drilling subject well
Will a synthetic liner be used in the pit? Yes No	If so, what ml 2, 20 ml
Proposed Disposal Method For Treated Pit Wastes:	Office of Oil and Gas
Land Application	AUG 1 5 2018
Underground Injection (UIC Permit Number	
Reuse (at API Number Off Site Disposal (Supply form WW-9 for of Other (Explain **No land application of fluids	WV D≱partment of Environmental Protection
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)? Air	r, freshwater, oil based, etc. Air, Freshwater
-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,	etc. Offsite Disposal
-If left in pit and plan to solidify what medium will be used?	
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of ar West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	
I certify that I understand and agree to the terms and condition on August 1, 2005, by the Office of Oil and Gas of the West Virginia D provisions of the permit are enforceable by law. Violations of any terlaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examin application form and all attachments thereto and that, based on my obtaining the information, I believe that the information is true, acceptables for submitting false information, including the possibility of false.	Department of Environmental Protection. I understand that the rm or condition of the general permit and/or other applicable med and am familiar with the information submitted on this y inquiry of those individuals immediately responsible for curate, and complete. I am aware that there are significant
Company Official Signature Diane White	
Company Official (Typed Name) Diane White	
Company Official Title Agent	
Subscribed and sworn before me this 19th day of August	, 20 18 OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST MRIGMA MARK J SCHALL H G Energy LLC
My commission expires $11/2/2021$	PO Box 5519, Vienna, WV 20100 My Commission Expires November 2, 2001

roposed Revegetation Treatment: Acres Disturbed 0.5 acres Prevegetation pH Lime 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 or equivalent 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 Tall Fescue 5 Ladino Clover 5 Ladino Clover 5 Ladino Clover 5 Latisch: rawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have rovided) hotocopied section of involved 7.5' topographic sheet. Itan Approved by: Tall Septement Control to be removed prior to release. Tall Septement Control to be removed prior to release.		•	Operator's	Well No. E. P. Bell 507
Lime 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 or equivalent 500 lbs/acre 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 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 rovided) That Approved by: If Control to the proposed area for land application (unless engineered plans including this info have rovided) That Comments: All Sediment Control to be proposed properties. Title: O: I + Cas Insector Date: 8-14-78	HG Energy, LLC			
Fertilizer amount 500 bs/acre	Proposed Revegetation Trea	atment: Acres Disturbed).5 acres Prevegetation p	ЭН
Fertilizer amount 500 lbs/acre Mulch Straw 2 Tons/acre Seed Mixtures	Lime	3 Tons/acre or to correct	ot to pH 6.5	
Seed Mixtures Temporary Permanent Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 **Sediment 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 revoked) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Threy Sm. th Comments: All Sediment Control to be removed prof to **Classe*, Title: Oil + Cas Insector Date: 8-14-78	Fertilizer type 10-	-20-20 or equivalent	<u> </u>	
Temporary Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 **Sediment 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 provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: They Smith Comments: All Sediment Condrol to be removed prior to release, Title: O:l + Cas Inspector Date: 8-14-18	Fertilizer amount_	Ę	500 lbs/acre	
Temporary Seed Type Ibs/acre Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 **Sediment 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 provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: The Sediment Control to be provided prior to release, Title: O:lt Cas Insector Date: 8-1478	_{Mulch} Straw	2	_Tons/acre	
Seed Type lbs/acre Seed Type lbs/acre Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 **Sediment 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 provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Threy Sm. +h Comments: All Sediment Control to be removed prior to Telegse, Fitte: 0:1+ Cas Insector Date: 8-1478			Seed Mixtures	
Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 Ladino Clover 5 **Sediment 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 provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: They Sm.+h Comments: All Septement Control to be removed prior to relayse, Title: O:l + Cas Insector Date: 8-14-78	Т	emporary	Perm	anent .
Ladino Clover 5 Ladino	Seed Type	lbs/acre	Seed Type	lbs/acre
**Sediment 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 provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Tellery Sm. th Comments: All sediment Control to be removed prior to Tellerse, Title: 0:1 + Cars Insector Date: 8-14-18	Tall Fescue	40	Tall Fescue	40
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Title: 0:1+ Cas Inspector Date: 8-14-18				
Title: 0:1+ Cas Inspector Date: 8-14-18	Plan Approved by:	Grey Smith	1 /	
Title: 0:1+ Gas Inspector Date: 8-14-18	Comments: All So	ediment Contro	I to be removed ,	20/ 10/
	release,			
				
	Title: 0:1 + Gas	Insactor	Date: 8-14-18	
rield Reviewed?	Field Reviewed?	Yes) No	RECEIVEI Office of Oil an







GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN
RECEIVEMOWING ROAD SYSTEMS
Office of Oil and FOSBE USED FOR 2018
AUG 15 2018 DRILLING PROGRAM

WV Department of Environmental Protection

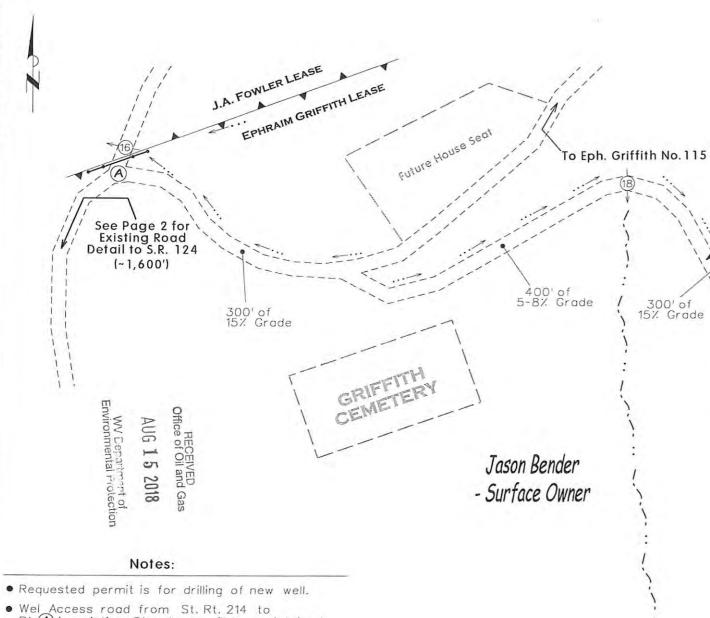
PAGE 2

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 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. EPB 507 LOCATION FOR PROPOSED WELLS POTENTIAL WATER SUPPLY SOURCE TO BE

SAMPLED (LOC. APPROX.)

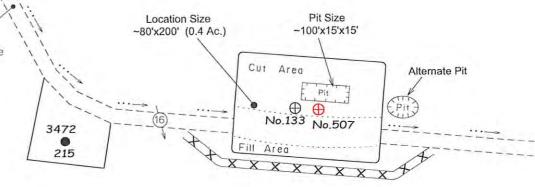


Reclamation Plan For:

Ephraim Griffith No. 133

E.P. Bell No.507

This section of road is existing and is used for access to Griffith Cemetery. Maintain road access to cemetery at all times

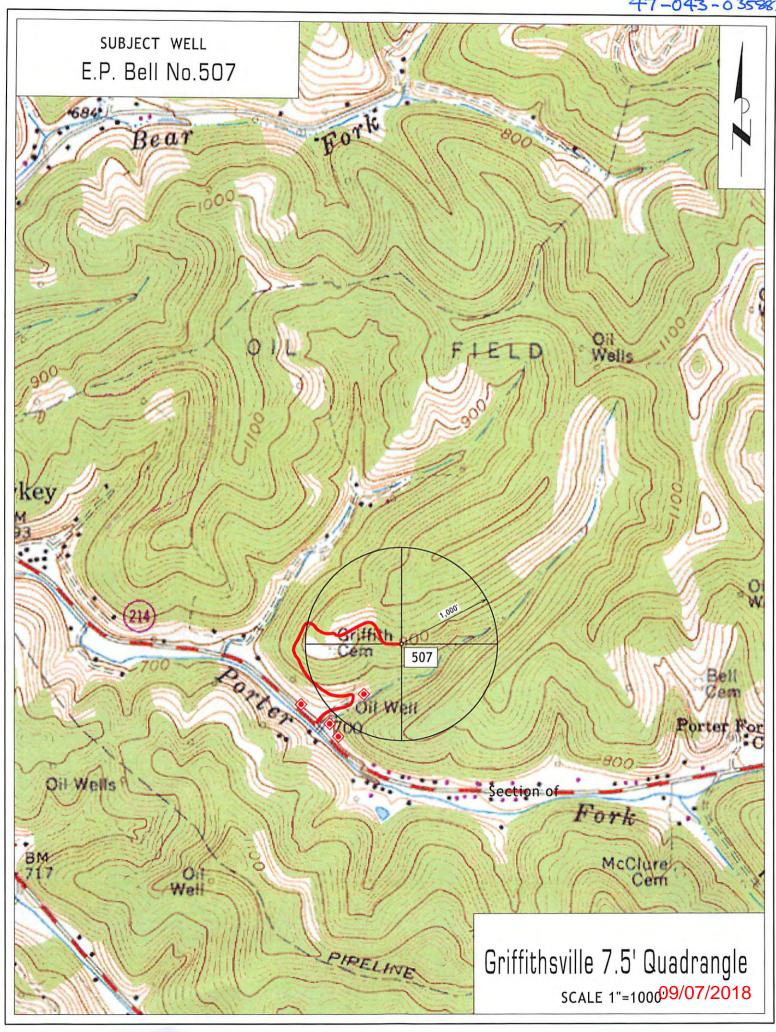


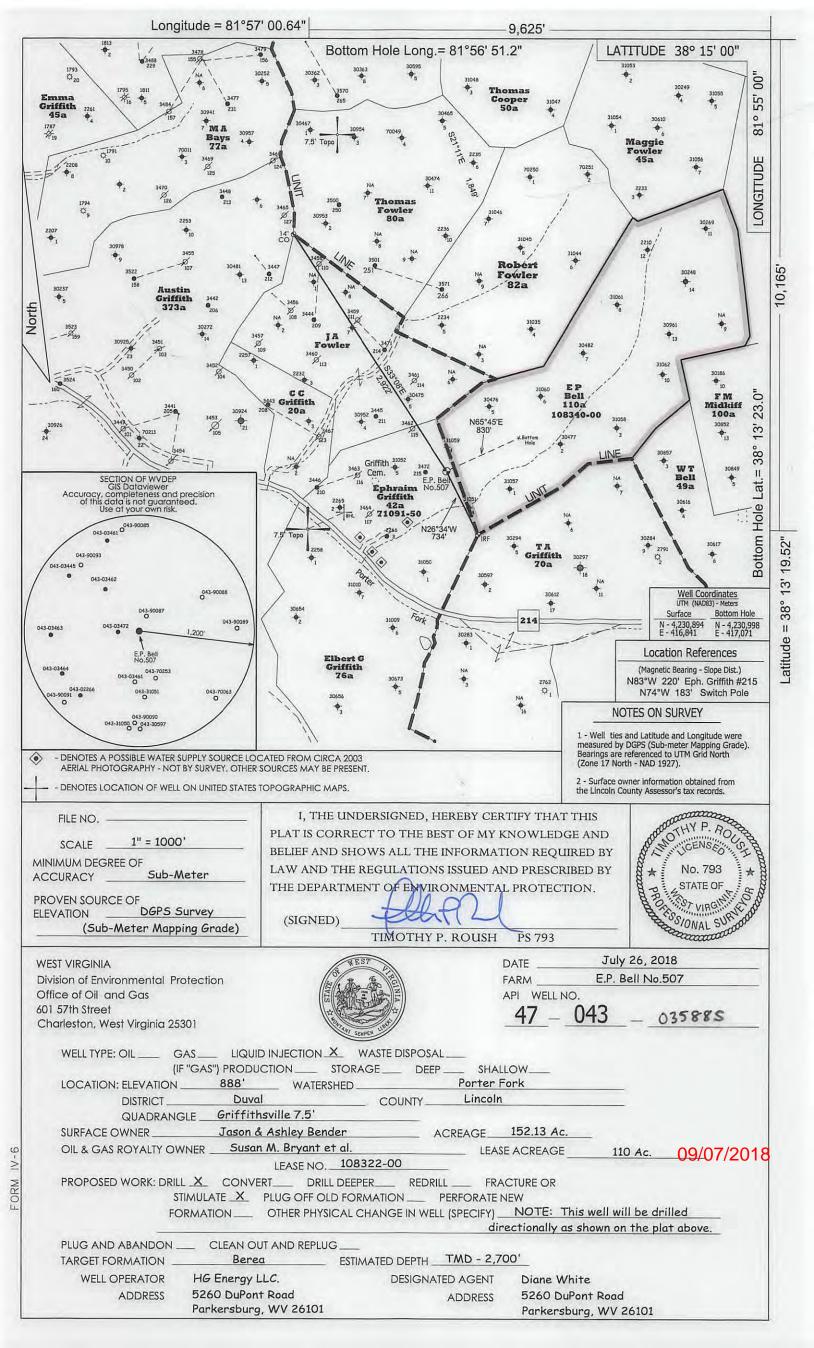
- Pt. (A) is existing. Structures will be maintained or upgraded as needed.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.
- All road grades <5% except as noted.
- Location of drill pit may be changed based on as-built considerations.

NOTE REFER TO THE WVDEP

EROSION AND SEDIMENT CONTROL FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING

Note: Drawing not to Scale







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

August 10, 2018

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

RE: E. P. Bell No. 507

Duval District, Lincoln County

West Virginia

Dear Mr. McLaughlin,

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

Let me know if you need any further information.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Jeffery L. Smith - Inspector

RECEIVED Office of Oil and Gas

Check #3808 8-14-18 650.



