

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

June 17, 2013

### WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-4303460, issued to HG ENERGY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: J.A. FOWLER NO. 113

Farm Name: MCCLURE, ANDY J. & REBECCA

API Well Number: 47-4303460

Permit Type: Secondary Recovery Well

Date Issued: 06/17/2013

### **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. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **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 within 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 20 mil thickness synthetic liner.
- 5. No land application of pit fluids.

WW-3B 10/07



1) Date	April 23, 2013				
2) Operator's Well	No.	J	. A. Fowle	r No. 1	13
3) API Well No. 47		4	043	-	
	State		County		Permit
4) UIC Permit No.		U	IIC2R0430	DIAP	

# 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 TY	PE:	Liqu	id Injectio	n X	<u>a</u>	Gas In	jection (not s	storage	e)	Waste 1	Disposa	1	
6) LOCATIO	N:	Elevatio	n 88	2'			Watershee	d	Porter	Fork		-	
	Distric	et	Duval	02	_ (	County	Lincoln		TOLLE	Quadrangle	Gr	iffithsville 7.5'	38
7) WELL OP	ERATOR:	HG Ene	ergy, LLC		49449	97948	8) DESIGN.	ATED	AGENT	. Mi	ke Kirs	ch	
			upont Roa					100 707				ont Road	
		Parkers	burg, WV	26101								rg, WV 26101	
9) OIL & GAS	SINSPECT	OR TO B	E NOTIFI	ED:			10) DRILLI	NG C	ONTRAC				
		e Ralph T						012/2	Name				
	Addres		cClellan H						Address	s			
		Branch	land, WV	25506									
11) PROPOSE	D WELL W	ORK:		11 X		Drill I	Deeper		Redril	l St	imulate	X	
					Old Forn			rate N	ew Forn			Convert	
			Other	r Physi	ical Chan	ge in Well (s <sub>I</sub>	pecify)						
12) Geological	target form	ation		Bere	a		Depth	- 1	2,352	Ft. (Top) to		2,373 Ft. (B	ottom)
13) Estimated	depth of con	mpleted w	ell (or act	ual der	oth of exi	sting well)	2473'			Ft.			
14) Approxima	te water stı	rata depth	ıs:	Fres	h	250	Ft.			Salt	95	2 Ft.	
15) Approxima	te coal sean	n depths:			310		Ft.						
16) Is coal bein	g mined in	the area?				Yes		X	No				
17) Virgin rese	rvoir pressi	are in targ	get format	ion:			1,250		psig.	Source		Patimated	
18) Estimated			the first of the con-				2,650		-	Dource	-	Estimated	
19) MAXIMUM				ED AMI	ONG	77.1	-		psig.				
						Volume per	The second second	BBL	_	Bottom Hole Pr	ressure	2,400 ps	i
20) DETAILED and other cl	IDENTIFI nemicals as	CATION needed to	OF MATE	ERIALS	TO BE	INJECTED, 1 and improve	NCLUDING	ADD	ITIVES	Fresh water	, produ	ced water, bacte	ericides
21) FILTERS (I	The second	Heeded to											
		- CIMITO				coal bed filter							
22) SPECIFICA	TION FOR	CATHO	DIC PROT	ECTIC	ON AND	OTHER COR	ROSION CC	ONTRO	OL				
23) CASING AN	ID THIDING	a ppoap	ANG	_									
	I CBING	3 FROGR	AIVI		-								
CASING OR		SPECI	FICATION	NS		FOOTA	GE INTERV	ALS		CEMENT FIL	LUP	PACKER	S
TUBING TYPE	Size	Grade	Weight	New	Used	For Drillin	ng Le	ft in W	/ell	OR SACKS (CI	J. FT.)	18.00	
Conductor				C.								Kinds	
Fresh Water	7"	L.S.	17#	X		410'		410'		Cement to Surf	ace	Tension	
Coal										8		Sizes	
Intermediate Production	4.4.600	7 22										2.375" x 4.5"	
Pubing	4 1/2"	J-55 J-55	10.5#	X		2473'		2473'		150 sacks		Depths Set	
iners	2.3/8"	9-99	4.6#	X		2175'		2175'				2075'	4
Jilieto				-		•						Perforations	
												Top Bottom	t
								-					
24) APPLICANT	S OPERAT	TING RIG	HTS were	aconis	red from	1	Freehold Con						
by Deed		Lease	X		ther Cont						Do	-	
						mont.	Dated		Tel	y 12, 1973	19 Parent	el record in the	N 1000 11

13

MAY 9 2013



1) Date:	April 23, 2	2013			
2) Operator's We	11 No.	J. A. Fowl	er No.	113	
3) API Well No.	47	043	5.		
W.103.100.00.	State	County		Permit	

4) UIC Permit No. UI

UIC2R04301AP

check# 2175

# 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) Surface Owne	er(s) To Be Served	7 (a) Coal Operator	L.
(a) Name	Andy & Rebecca McClure	Name	NA
Address	109 Coon Whistle Hollow	Address	
	Yawkey, WV 25573		and the same of th
(b) Name			With Declaration Of Record
Address		Name	NA
		Address	
(c) Name			
Address		Name	
		Address	
6) Inspector	Ralph Triplett	7(c) Coal Lessee Wi	th Declaration Of Record
Address	5539 McClellan Hwy		NA
ruures	Branchland, WV 25506		
Telephone			
			rm and the following documents:
The date proportion of the REASON NUMBER ARE SURE NOT REQUAKE notice that upplication and achievironmental Proportion of the Number 2015 of the REASON of th	s out the plan for erosion and sediment control and sed for the first injection or waste disposal is TOU RECEIVED THESE DOCUMENTS IS THAT YOU JIMMARIZED IN THE "INSTRUCTIONS" ON FORM VIRED TO TAKE ANY ACTION AT ALL.  Inder Chapter 22-6 of the West Virginia Code, the undersigned ecompanying documents for a Well Work Permit with the Chie otection, with respect to a well at the location described on the his Notice, the Application, the plat, and the Construction and elivered by hand to the person(s) named above (or by publication to the Chief.	To be determine J HAVE RIGHTS R WW-3(A) DESIGNA well operator propose of of the Office of Oil and attached Application Reclamation Plan have	EGARDING THE APPLICATION TED TO YOU. HOWEVER YOU es to file or has filed this Notice and and Gas, West Virginia Department of and depicted on the attached Form we been mailed by registered or
	The person signing this document shall make the	following certification	on:
	It of leasthat I have possenally eventual and am	Well Operator	HG Energy, LLC
certify under pe	nalty of law that I have personally examined and am information submitted in this document and all attachments	Address	5260 Dupont Road
nd that based on	my inquiry of those individuals immediately responsible	24442223	Parkersburg, WV 26101
or obtaining the i	nformation, I believe that the information is true, accurate		
nd complete. I an	n aware that there are significant penalties for submitting	By:	Diane C. White
alse information.	including the possibility of fine and imprisonment."	Its:	Accountant
		Signature	Beceivedt

Oil and Gas Privacy 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 course of business or as paeded to domain 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

ww	-2B1
** **	-21)1

Well No.	J. A. Fowler	r No. 113

## 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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

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

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

X Contractor Name	Sturm Environmental Services			
Well operator's p	private laboratory			
Well Operator	HG Energy, LLC			
Address	5260 Dupont Road			
	Parkersburg, WV 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 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.

## Received

Special Note:

Water sampling was completed through out the Griffithsville area for the UIC permit review late in 2012 per jamie Peterson, WVDEP, the timing of that large UIC sampling was sufficent for this Griffithsville project.

Office of Oil and Gas
WV Dept. of Environmental Protection

Form WW-9 Rev. 10/94

	Page	3	of	3
APIN	Tumber 47-	043		
Operator's Well No.	J. A. Fo	wler N	lo. 113	

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

### CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	HG Energ	gy, LLC			OP Code 494497948
Watershed	Porter Fo	rk		Quadrangle	Griffithsville 7.5'
Elevation	882'	County	Lincoln	District	Duval
Description of a	anticipated Pit Waste:	· Fluids encou	intered in drilling shal	llow well.	16
Do you anticipa	ate more than 5,000 bbl	s of water to com	plete the proposed well	worl Yes	No X
Will a synthetic	c liner be used in pit?	Yes	If so, what mil.?	10 Mil. 20 Mi	4
Proposed Dispo	Reuse (at A	ication nd Injection (UI API Number	C Permit Number	ocation)	<u>)</u>
_	Other	(Explain			)
Additives to be Drill cuttings d	isposal method? Leave	Synthetic, petro oap, KCI in pit, landfill, r solidify, what m	emoved offsite, etc: edium will be used? Cen		Native soil, cement, lime
applicable law of I of this application for obtaining the penalties for su Company Offi	or regulation can lead to certify under penalty of form and all attachmen to information, I believe bmitting false informat cial Signature	enforcement ac law that I have nts thereto and t that the inform	tion.  personally examined and hat, based on my inquiry ation is true, accurate and e possibility of fine or im  Dième C L	d am familiar with the of those individuals in d complete. I am awa aprisonment.	neral permit and/or other information submitted on mmediately responsible re that there are significant
	cial (Typed Name)	-	Diane C. White		
Company Offi	cial Title	*p *	Accountant		
Subscribed an	d sworn before me th	is <u>23</u> P P.F.A	day of April	) 2013 1	Received
My commissio	n expires	00 12,20	18	0	FFICIAL SEAL
Form WW-9			Wis (	STATE	OTARY PUBLIC9 2013 OF WEST VIRGINIA A L. PETHTEL

Property Boundary

### Legend

Diversion

Property Boundary	A A	Spring	<b>○&gt;</b>
Road		Sming	ينر ا
Existing Fence	—x——x——	Wet Spot	U
Planned Fence	<del>//</del> /	Drain Pipe	
		Waterway	←> ←> ←>
Stream		Cross Drain	
Open Ditch	987.688	Filter Strip	XXXXXXXXXX
Rock	98 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Pit; Cut Walls	Commission
•		Fig Cat from	11111
North	N N	Pit: Compacted	7
Buildings		Fill Walls	Marie Comment
Water Wells	W	Area of Land	
Drill Site	$\oplus$	Application of Pit Waste	متات تات تات تات تات تات تات تات تات تات
Dill Silv	<u> </u>		
		*	
	Area pent: Agres Disturbed Approx.	1.0 Ac Pr	evegetation pH
roposed Revegetation Treatm	nent: Acres Disturbed Approx.  Area		
	Approx.	1.0 Ac	
Lime	2. Tons/Acre or Co	rrect to pH 6.5	II. A Minimum
Fertili	zer (10-20-20 or Equivalent)50		lbs. Minimum)
Mulch		re	
	SEED MD	XTURES	
Are	a I (Location)		Area II (Road) Lbs/Ac.
Seed Type	Lbs/Ac.	Seed Type	40
Tall Fescue	40	Tall Fescue  Ladino Clover	
Ladino Clover	5	Ladino Ciova	
		•	
W.			
Attach:	, pit and proposed area for land application	1	•
Photocopied section of invol	ved 7.5' topographic sheet.	•	
Plan approved by:	and & Truptoff		
Comments:			
Committee		<u> </u>	Paralyad
Title:	extruct : Inspectate		Date: V SV
ghana	and the state of t	(	) No (
Field Reviewed?	( / ) Yes		MAY 9 2013
Ainia 🖁	ose men		
<b>}</b>	* *** ********************************		Office of Oil and Gas
	interest of the second of the		WV Dept. of Environmental Protection 06/21/20
T	A PROPERTY OF THE PROPERTY OF		

PAGE 1 **Reclamation Plan For:** J.A. Fowler No. 113 NOTE REFER TO THE WVDEP **EROSION AND SEDIMENT CONTROL** FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING OPERATIONS. 135' of 8% Grade Andy J. & Rebecca McClure - Surface Owner 390' of 0-5% Grade 230' of 8% Grade 315' of 0-5% Grade ⊕ No.113 **Begin New** Fill Area Construction

> Existing Vegetative Filter Strip

RDT 05/02/13

#### Notes:

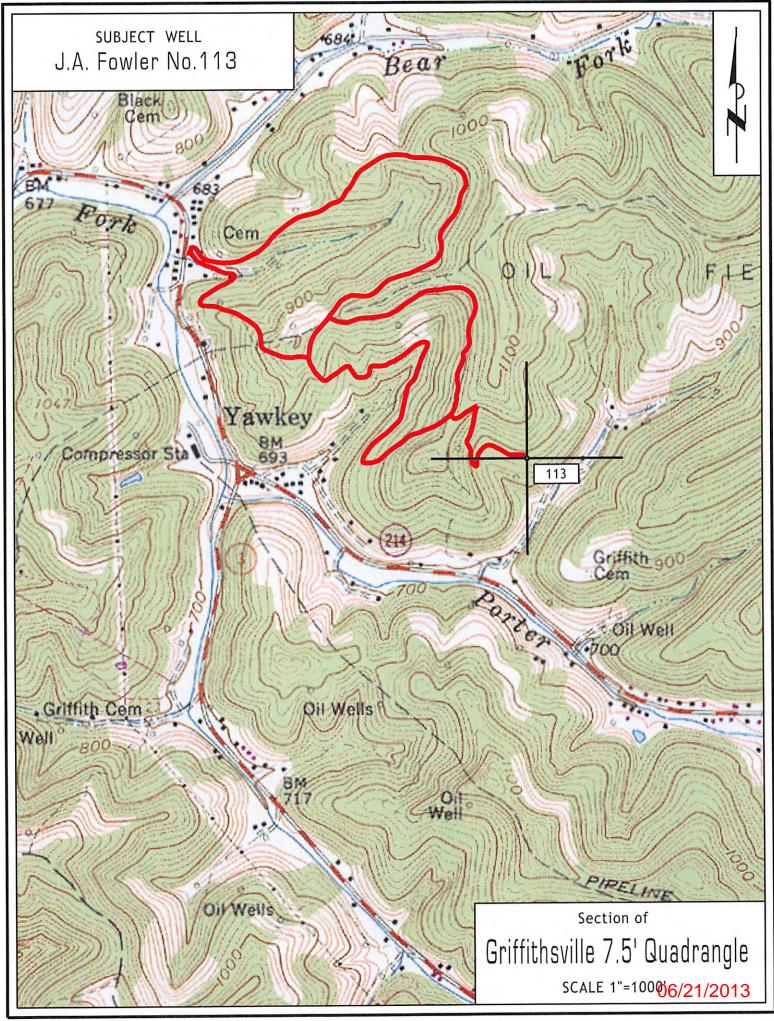
- Requested permit is for drilling of new well.
- Portions of Access road from St. Rt. 3 to Pt. (A) is existing. Structures will be maintained or upgraded as needed.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.
- All road grades <5% except as noted.</li>
- Location of drill pit may be changed based on as-built considerations.

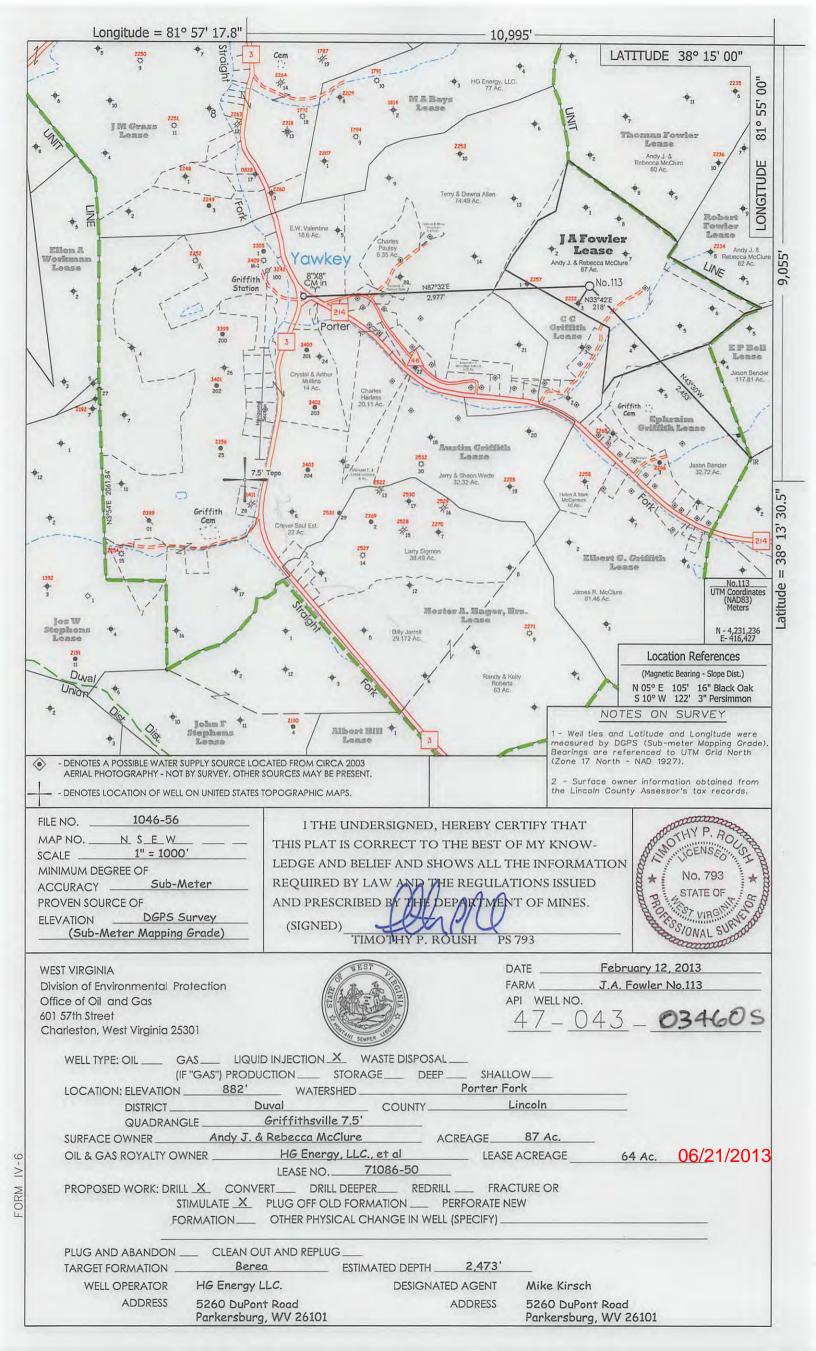
## Received

MAY 9 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

06/21/2013 Note: Drawing not to Scale







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

OK# 2175

April 23, 2013

Mr. James Peterson WVDEP Division of Oil & Gas 601 57<sup>th</sup> Street Charleston, West Virginia 25304

RE: J. A. Fowler No. 113

Duval District, Lincoln County

West Virginia

Diane C White

Dear Mr. Peterson:

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 a liquid 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

ce: Andy & Rebecca McClure - Certified

Ralph Triplett - Inspector

Office of Oil and Gas WV Dept. of Environmental Protection

ETOS 9 YAM

Received

