

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

May 05, 2015

WELL WORK PERMIT

Rework-Secondary Recovery

This permit, API Well Number: 47-3304070, 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.

Operator's Well No: NATHAN GOFF 62

Farm Name: MYERS, ROXANNA M., ETAL

API Well Number: 47-3304070

Permit Type: Rework-Secondary Recovery

Date Issued: 05/05/2015

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 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) I	Date:	02/24/20	15					
2) (Operator	's Well N	No.	Nat	han Goff 62			
3) 1	API Wel	1 No.:	47	-	Harrison	-	4070	
			State		County	3	Permit	
4) 1	UIC Per	mit No.	HICO	Rnas	ROTAR			

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

) LOCATION:	Elevatio	d Injectio n: 1193'				tion (not storag tershed: Te	nmile Creek	7	aste Disp	
	District:	Tenmil	е		Cor	inty Harrison				Summit 7.5'
) WELL OPERA	TOR: HO	Energy,	LLC			8) DESIGNA	TED AGE	NT Diane W	hite	
Add	iress 52	60 Dupont	Road				Addres	s 5260 Du	pont Road	
	Pa	rkersburg,	WV 2610	1				Parkersb	ourg, WV 2	26101
) OIL & GAS IN	SPECTO	R TO BE	NOTIFI	ED		10) DRILLIN	G CONTR	ACTOR		
Name Sam W			111111111			Name To	Be Determin	ed Upon Appr	oval of Pe	rmit
Address P.O. E	3ox 2327					Address				
Buckha	annon, WV 2	26201				_				
1) PROPOSED				hysical o	change in w	/ Perfo		rmation		Stimulate Convert
2) GEOLOGIC	TARGET	FORMA'	TION F	ifth Sand		Depth		Feet (top)	to 284	Feet (botton
3) Estimated De	pth of Con	npleted V	Vell, (or a	ctual de	pth of exist			Feet		
4) Approximate			Fre	esh	NA	Feet	Salt _	NA	_ Feet	
5) Approximate			NA							
6) Is coal being	mined in th	ne area?	Yes		No					
7) Virgin reserve	oir pressure	e in targe	t formati	on 60	psig		Estimated			
8) Estimated res	ervoir frac	ture pres	sure			1200				_ psig (BHFP)
9) MAXIMUM	PROPOSE	ED INJEC	CTION O	PERAT	IONS: V	olume per hou	r 25 bbl/h	Bottom h	ole press	sure 2400 psi
0) DETAILED I	DENTIFIC	CATION	OF MA	FERIAL	STOBEL	olume per hou NJECTED, INC	CLUDING	ADDITIVE	ole press	sure 2400 psi water, produced
0) DETAILED I	DENTIFIC	CATION	OF MA	FERIAL	STOBEL	NJECTED, INC	CLUDING	ADDITIVE	ole press S Fresh	sure 2400 psi n water, produced
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MAR 1 8 2015

5PW 2/10/15 ARECEIVED
WY Division of Environmental Protection

API#

17-Oct-94 47-033-4070

APR 15 1996

State of West Virginia Division of Environmental Protection Section of Oil and Gas

MAY 8 1996

Permitting Office of Oil & Gas

Well Operator's Report of Well Work

Farm name:	MYERS, RO	XANNA 1	√. ETΔI	0					
LOCATION:	Elevation:	1,193'	217115				THAN GOF	F #62	
	District:	TENMIL	Æ		drangle:	WOLF ST	JMMIT		
	Latitude: Longitude:	13,900 7,700	Feet south of Feet west of	39	nty: HA Deg 20 Deg 27	RRISON Min 0 Min 30	Sec. Sec.		
Company:	PENNZOIL F P.O. BOX 55	RODUCT	S COMPANY		Casing	Used in	Left	Cer	nent
	VIENNA, WY		519		& Tubing	Drilling	in Well	Fill	Up
Agent:	PHILIP S. ON	DRUSEK			Size	Diming	і ш мен	- Cu	. Ft.
Inspector: Permit Issued: Well work Com	TIM BENNE	10/17/							
Well work Comp Verbal plugging permission grant	pleted:	11/9/9 4/5/9			8-5/8	570'	570¹	-185	SKS
Rotary X Total Depth (fee Fresh water depti	Cable	Rig 954' NA	<u> </u>		4 1/2"	2918.35'	2918.35'	450 \$	SKS
Salt water depths	(ft)	NA				(T. 17)	eceiv	/ed	
Is coal being min Coal Depths (ft):	ed in area (Y/N))	N_				MAR 18	015	
OPEN FLOW DA	ATA ×	Water Pro	oducer	_			Office of Oil and		
Gas: I I	g formation nitial open flow Final open flow		Fifth Sand * MCI * MCI cen initial and	F/d final	Oil: Initial	Pay zone de open flow open flow	. of Environmen	2824'-2 B	
Gas: I F T	roducing forma nitial open flow inal open flow ime of open f	_	MCF MCF en initial and f	2/4	Oil: Initial	ay zone depopen flow open flow	oth (ft) Hours	B	bl/d bl/d
NOTE: ON BACK	OF THIS FOR	 TO DI IO M	psig	(surfa	ace pressu	•	fter		ours 1
INTERVALS, FRA LOG WHICH IS A INCLUDING COA	SYSTEMATI	CDETAIL	ED CEOL OCK		CHANGI RECORD	E, ETC. 2) OF ALL F	THE WELI	VS,	
		Fo	PENNZOIL By: Date:	PRØ	PUCTS	AL C	7		

<u>Treatment:</u>

Perforated Fifth Sand 2832-2834 (12 Holes) Treated Via 4 1/2" CSG 300 gal 15% HCl Acid, 146 BBL gelled water & 5000 lb 20/40 Sand.

Well Log:

Sand & Shale	0	-	1505'
Sand	1505'	-	1549'
Shale	1549'	-	1746'
Sand	1746'	-	1823'
Sand & Shale	1823¹·	-	1950'
Sand	1950'	-	1975'
Shale	1975'	-	2407
Sand	2407'	-	2418'
Shale	2418'	-	25001
Sand	2500'	_	25291
Sand & Shale	2529'	-	25851
Sand	` 25 85'	-	2607'
Shale	2607'	-	2614'
Sand	2614'	-	2663'
Sand & Shale	2663'	-	2824
Fifth Sand	2824'	-	2842'

T.D. 2954'

CK# 2955 \$650°

FORM WW-3 (A) 1/12



1) Date:	February	24, 201	5				
2) Operato	r's Well	No.	Nath	an Goff 62			
3) API We	ell No.:	47	-	033	-	4070	
		State	_	County		Permit	
4) UIC Per	mit No.	UIC2R	03301	AP			

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	ner(S) To Be Served 7)	(a) Coal O	perator	/
(a) Name	William R. Johnson	Name	Murray Energ	ay
Address	RR 4, Box 1000	Address	46226 Nation	nal Road
	Salem, WV 26426		St Clairsville,	
(b) Name	7)	(b) Coal O	wner(S) With D	eclaration Of Record
Address		Name		
		Address		
(c) Name		Name		
Address		Address		
6) Inspector	Sam Ward 7)	(c) Coal L	essee with Decla	aration Of Record
Address	P. O. Box 2327	Name		Account of the Control of the Contro
	Buckhannon, WV 26201	Address		
Telephone	304-389-7583			
plan for e The date THE REASON	truction and Reclamation Plan on Form WW-rosion and sediment control and for reclamation proposed for the first injection or waste did not not the first injection or waste did not	n for the si sposal is MENTS I NSTRUCT	te and access roa S THAT YOU IONS" ON THE	HAVE RIGHTS REGARDING THE E REVERSE SIDE OF THE COPY OF
Notice and Ap West Virginia Application an and Reclamation	at under Chapter 22-6 of the West Virginia Co- pplication and accompanying documents for a Department of Environmental Protection, w d depicted on the attached Form WW-6. Cop- on Plan have been mailed by registered or cert in certain circumstances) on or before the day	Well Work ith respect ies of this tified mail	k Permit with the to a well at the Notice, the App or delivered by	the Chief of the Office of Oil and Gas, the location described on the attached lication, the plat, and the Construction thand to the person(s) named above (or
	The person signing this document	shall mal	te the following	g certification:
"I partifu unda	r penalty of law that I have personally examine		Well Operator	HG Energy, LLC
am familiar wi	th the information submitted in this document	and all	Address	5260 Dupont Road
	d that, based on my inquiry of those individual			Parkersburg, WV 26101
immediately re	sponsible for obtaining the information, I belie	eve that	Зу:	Diane White
the information	is true, accurate and complete. Jam aware th	at there	ts:	Agent
	penalties for submitting false information, incl	uding		
the possibility	of fine and imprisonment.		Signature:	Diane White
	MAR 1 8 201			

В	(Domestic Mail O) MAIL™ REC nly; No Insurance Co	verage F	
917	For delivery informa	tion visit our website at	www.usp	s.com ₈
	OFF	ICIAL	U,	
4004	Postage	s 1.61		
	Certified Fee	3.30	p	ostmark
0000	Return Receipt Fee (Endorsement Required)	2.70		Here
	Restricted Delivery Fee (Endorsement Required)	10	1	(5)
7014 0510	Total Postage & Fees	\$7.61		NG 62
	Sent To M	urray Ener	av	4,
076	or PO Box No.	6226 Natio	nal t	Road
r~	City, State, ZIP+4 5	t Clairsville	OH	43950
	PS Form 3800, August 2		See Reve	rse for Instructions

М	(Domestic Mail Or	MAIL _{TM} REC	coverage Provided)
975	For delivery informa	tion visit our website	at www.usps.com
4074	Postage	s 1.61	
	Certified Fee	3.30	Postmark
0000	Return Receipt Fee (Endorsement Required)	2.70	Here
H	Restricted Delivery Fee (Endorsement Required)		ET
7014 0510	Total Postage & Fees	\$ 7.6/	NG 62
	Sent To	Villiam R =	Tohnson
070		R4, Box	
1-		alem WV	26426
	PS Form 3800, August 2		See Reverse for Instructions

Received

MAR 1 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-9 Rev. 5/10

	Page	274	of	
API Number 47 -	. 033		4070	
Operator's Well N	o. Natha	n Goff 62		

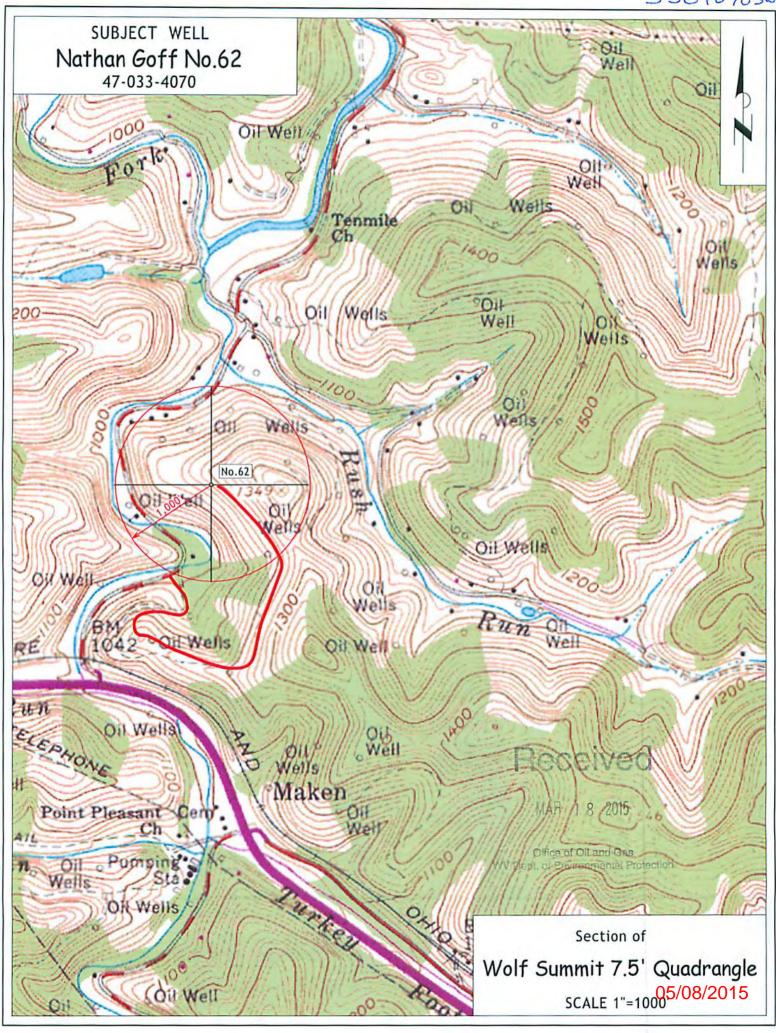
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

Operator Name HG Energy, LLC		OP Code 494497948	
Watershed_Tenmile Creek	Qua	drangle Wolf Summit 7.5'	
Elevation 1193'	County_Harrison	District_Tenmile	
Description of anticipated Pit Waste:	Fluids encjountered while stimula	ting subject well	
Do you anticipate using more than 5, Will a synthetic liner be used in the p	A CONTRACTOR OF THE PROPERTY O	proposed well work? Yes No _X at mil.? 20 mil	-
Reuse (at	lication and Injection (UIC Permit Number API Number_ isposal (Supply form WW-9 for d		5D0 2/1
Drilling medium anticipated for this -If oil based, what type? Sy Additives to be used? Water, Soap,	nthetic, petroleum, etc. NA	tc. Air	_
Will closed loop system be used ? N			
	dify what medium will be used? (etc. Leave in pit Cement, lime, sawdust Native soll, cement, lime and sawdus	1
on August 1, 2005, by the Office of Oprovisions of the permit are enforced law or regulation can lead to enforce I certify under penalty of application form and all attachment obtaining the information, I believe penalties for submitting false information.	Dil and Gas of the West Virginia Dable by law. Violations of any tement action. aw that I have personally examinate thereto and that, based on mentather that the information is true, accordingly.		rstand that the her applicable mitted on this esponsible for are significant
Company Official (Typed Name) Di		MAR 18	2015
Company Official Title Agent		Office of Oil an WV Dept. of Environme	
Subscribed and sworn before me this	24rd day of February	OFFICIAL SE NOTARY PUBLIS, DIANNE DULA	ILIC /IRGINIA ANEY
My commission expires Of	4, 3016	5260 Dupont Ro Parkersburg, West Virgi My Commission Expires C	nia 26101 \$

	LEGEND				
Property Boundary	Diversion 11.11111:11111				
Road = = = = = = = = = =	Spring O				
Existing Fence — X — X — X —	Wet Spot				
Planned Fence / / /	Drain Pipe with size in inches				
Stream	Waterway C+ C+C	$\Rightarrow \iff \iff$			
Open Ditch	Cross Drain 7/1/1/1				
Rock 636 866	Artificial Filter Strip XXXX	XXXXXXXXXXXX			
North N	Pit: cut walls	STILLY.			
Buildings	Pit: compacted fill walls	THE STATE OF THE S			
Water wells	Area for Land Application of Pit	Waste			
Drill site	(===:				
Proposed Revegetation Treatment: Acres Disturbed .3 ac	Cres Prevegetation pH				
Lime 3 Tons/acre or to correct to pH					
Fertilizer (10-20-20 or equivalent)lbs	s/acre (500 lbs minimum)				
Mulch Straw 2 Tons/a	acre				
See	d Mixtures				
Area I	Area				
Seed Type lbs/acre	Seed Type	lbs/acre			
Tall Fescue 40	Tall Fescue	40			
Ladino Clover 5	Ladino Clover	5			
	-				
Attach: Drawing(s) of road, location,pit and proposed area for land app	plication.				
Photocopied section of involved 7.5' topographic sheet. **Sediment Control in place at all times**	*				
Plan Approved by: S. DWarot M.		Received			
Comments:					
		MAR 1 8 2015			
Title: 006 Inspector	Date: 2/13/15	Office of Oil and Gas			
	Date: 2 (13) 13	WV Dept. of Environmental Protection			





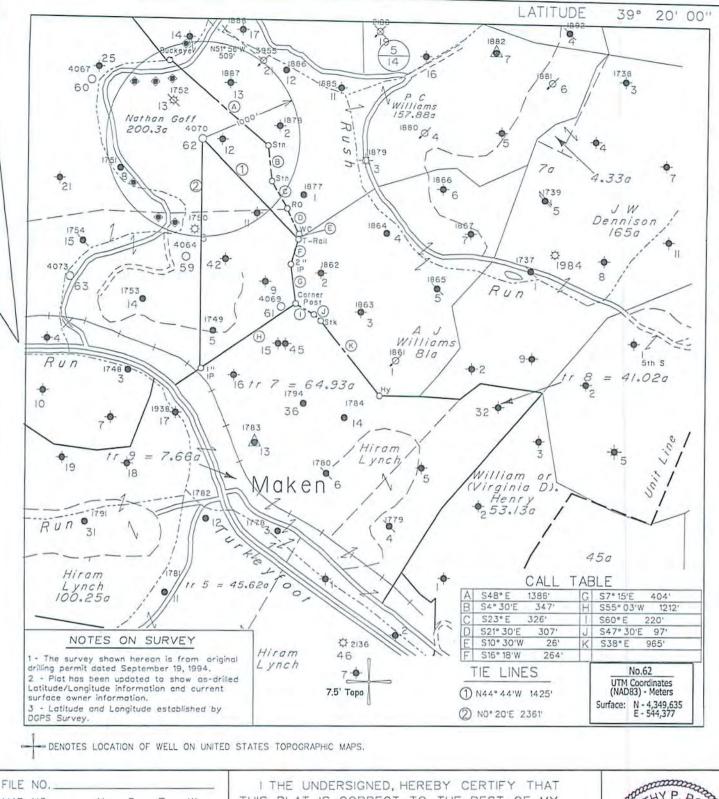
27

80°

ONGITUDE

14,000





MAP NO.__ N: 1" = 1000' MINIMUM DEGREE OF Sub-Meter DGPS ACCURACY -PROVEN SOURCE OF DGPS Survey ELEVATION _

THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGU-THE DEPART LATIONS ISSUED AND RESCRIBED BY MENT OF MINES.

PS 793 TIMOT

STATE OF VIRGINIO A SIONAL SU

924 Ac. 05/08/2015

WEST VIRGINIA

Division of Environmental Protection Office of Oil and Gas 601 57th Street Charleston, West Virginia 25304



February 19, 2015 DATE_ Nathan Goff No.62 FARM API WELL NO. 04070 SW

		OLIADDANICI E	Walf S	ummit 75'			
		DISTRICT	Ten Mile		COUNTY_	Harrison	
LOC	ATION:	ELEVATION _	1,193'	WATERSHED	Tenmile	Creek	
				STORAGE_			
WELL	TYPE:	OIL GAS_	_ LIQUID	INJECTION_X	WASTE DISPOS	SAL CORE	

(SIGNED)

ACREAGE 91.19 Ac. Wm. R. Johnson SURFACE OWNER_ HG Energy, LLC et al. LEASE ACREAGE_ OIL & GAS ROYALTY OWNER.

CONVERT __ DRILL DEEPER _ REDRILL_ FRACTURE OR

PROPOSED WORK: DRILL __ STIMULATE X PLUG OFF OLD FORMATION __ PERFORATE NEW OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

Fifth Sand TARGET FORMATION __ _ ESTIMATED DEPTH_

WELL OPERATOR **ADDRESS**

14-6

HG Energy LLC. 5260 DuPont Road Parkersburg, WV 26101 **ADDRESS**

Diane White 5260 DuPont Road

2.940'

PLUG AND ABANDON_ CLEAN OUT AND REPLUG

DESIGNATED AGENT

Parkersburg, WV 26101



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

3304070 SW CK# 2955 65000

February 24, 2015

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

RE: Nathan Goff No. 62 (47-033-4070)

Tenmile District, Harrison County

West Virginia

Dear Mr. McLaughlin:

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

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: William R. Johnson - Certified

Murray Energy, Inc. - Certified

Sam Ward - Inspector

Received

MAR 1 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection