

#### 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

November 05, 2013

#### WELL WORK PERMIT

#### **Rework-Secondary Recovery**

This permit, API Well Number: 47-10302175, 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: MARY B. LONG NO. 251

Farm Name: LONG, STEVEN & TIMOTHY

API Well Number: 47-10302175

Permit Type: Rework-Secondary Recovery

Date Issued: 11/05/2013

Promoting a healthy environment.

## **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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-3B 10/07



1) Date		S	eptember	16, 2	013
2) Operator's Well	No.	N	Mary B. Lo	ng N	o. 251
3) API Well No.	47	-	103		2175
	State		County		Permit
4) UIC Permit No.		J	JIC2R1030	04AP	

# 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 TYPE	:	Liqui	id Injectio	n X		Gas	Injection (	not stora	ge)	Waste 1	Disposa	1		
6)	LOCATION:		Elevation	n 738	3'			Water	rshed	North	Fork of Fishing	Creek	-	_	
		Distric	et	Grant	04	_ C	ounty	Wetzel		3	Quadrangle		ine Grov	e 7.5' 1	548
7)	WELL OPER	ATOR:	HG Ene	rgy, LLC		49449	7948	8) DES	IGNATE	D AGEN	r: Mi	ke Kirs	ch ·		3
				ipont Road			-	A. 61010				4475	ont Road	l	
			Parkers	burg, WV	26101						Pa	rkersbu	ırg, WV	26101	
9)	OIL & GAS II	NSPECT	OR TO BI	E NOTIFI	ED:			10) DR	ILLING	CONTRA	CTOR:				
			e Derek H							Nam	e To Be Determin	ed Upon	Permit A	pproval	
		Addres	s PO Box	A STATE OF THE PARTY OF THE PAR						Addres	s				
			Smithvi	lle, WV 26	5178	-									
11)	PROPOSED V	WELL W	ORK:	Dril	-			l Deeper_		Redri		imulate	е		
						Old Form			Perforate	New Form	nation		Conver	t	X
10)	0 1 1 1			Other			ge in Well	-			Sant La Till of		-		
12)	Geological tar	ACT ACAT		42.0	Gordo			Depth_		2,554	_Ft. (Top) to		2,564	_Ft. (B	ottom)
13)	Estimated dep				ual dep	th of exi	sting well)	_		2840'	Ft.				
14)	Approximate	water str	rata depth	s:	Fresh	1		50 F	t.		Salt	1,4	30	Ft.	10
15)	Approximate	coal sean	n depths:				520	F	t.					Dr	1 Kg
16)	Is coal being n	nined in	the area?				Yes		X	No				1	0-3-1
17)	Virgin reservo	ir pressu	ire in targ	et formati	ion:		(	30		psig.	Source		Estima	ted	
18)	Estimated res	ervoir fr	acture pre	ssure:			120	00		psig.	-				
19)	MAXIMUM P	ROPOSE	ED INJEC	TION OP	ERATI	ONS:	Volume r	oer hour	25 hbl/h		Bottom Hole P	racciira		2400 ps	.;
20)	DETAILED II							_	122 200 300				-		
20)	and other cher	micals as	needed to	maintair	water	quality	and improv	e oil recov	erv.	DITIVES	Fresh water	r, produ	iced wat	er, bacte	ericides
21)	FILTERS (IF	WALTER TO					coal bed filt								
22)	SPECIFICATI	ION FOR	R CATHO						N CONT	POT.					
		.01(1.01	. 0.111101	01011101	LOTTO	71, 111,12	OTTEN	omobio	N CONT.	IOL		-			
23)	CASING AND	TUBIN	G PROGR	AM											
CVG	ING OR	-	CDECI	FICATION	vic.		EOO	DA CID INIT	TIDILLI		CD) (D) In m				
	ING TYPE	Size	Grade	Weight	_	Used	For Dri	PAGE INT	Left in		OR SACKS (C		P	ACKER	as .
	luctor	DIZC	Grade	Height	11011	Osea	FOI DII	iiiig	Leit III	wen	OR SACAS (C	U. F1.)	Kinds	-	-
	h Water	7"	LS	17#	X		611'		611		Use Existing Ca	sing	Tension	1	-
Coal									- 1225	3=12-5	The state of the s		Sizes		
Inter	mediate												2.375"	X 4.5"	
Prod	uction	4 1/2"	J-55	10.5#	X		2759		275	9'	Use Existing Ca	sing	Depths		
<b>Fubi</b>	ng	2 3/8"	J-55	4.6#	X		2450		245	0'		fice c	2350'		385
ine	rs											The state of the s	Perfora		200
												00	Top 7		n
												UU	0 11	U13	
24)	APPLICANTS	OPERA	TING RIG	HTS were	acqui	red from	Ire	ne Reilly,	et al		V	TV D	epari	ment	
	by Deed		Lease	X		ther Con	_		ated	Januar	ry 17, 1889	Onn	of recor	ding	C1-111
			Wetzel				Office in		ease	Book	47 at F		193	a in the	
						1		-				480	100		

depprivacyofficer@wv.gov

WW-3A 10/07

5) Surface Owner(s) To Be Served

Name

Steve & Timothy Long



1) Date:		Septembe	r 16, 20	13	
2) Operator's We	ll No.	Mary B. L	ong No	. 251	
3) API Well No.	47	103	-	2175	
	State	County		Permit	
4) UIC Permit N	0.	UIC2R103	304AP		

NA

# 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

7 (a) Coal Operator

Name

	Address	P. O. Box 6		Address	
	_	Pine Grove, WV 26419		-	
	(b) Name		7 (b)	Coal Owner(s	s) With Declaration Of Record
	Address			Name	NA
	_			Address	
	(c) Name				
	Address	<del></del>		Name	NA
	Tiudices	1		Address	*112
	-			Address	
6)	Inspector	Derek Haught	7(c)	Coal Lessee W	7ith Declaration Of Record
	Address	PO Box 85			NA
		Smithville, WV 26178		-	
	Telephone	206-7613			
	2.1862(1.151)				
TOT	THE PERS	ON(S) NAMED ABOVE: You should have	recei	ved this fo	orm and the following documents:
(1)	The Applica	ation for a Liquid Injection or Waste Disposal W	ell Wo	ork Permit	on Form WW-3(B), which
		parties involved in the drilling or other work;			
(2)	The plat (su	urveyor's map) showing the well location on Form	m WW	7-6; and	
		uction and Reclamation Plan on Form WW-9 (ur			k is only to plug a well).
		out the plan for erosion and sediment control an			
The o	date propos	ed for the first injection or waste disposal is	1	VA.	
THE	REASON YO	OU RECEIVED THESE DOCUMENTS IS THAT YOU	U HAV	E RIGHTS F	REGARDING THE APPLICATION
WHIC	CH ARE SUN	MMARIZED IN THE "INSTRUCTIONS" ON FORM V	WW-3(	A) DESIGNA	TED TO YOU. HOWEVER YOU
ARE	NOT REQUI	RED TO TAKE ANY ACTION AT ALL.			
Take 1	notice that und	ler Chapter 22-6 of the West Virginia Code, the undersigned	d well o	perator propos	ses to file or has filed this Notice and
		ompanying documents for a Well Work Permit with the Chie			
0.0		ection, with respect to a well at the location described on the			어디어 아들이 하면 아들아들이 아이들의 아이를 하면 가장에 가장 바라가 되었다고
		Notice, the Application, the plat, and the Construction and			
		vered by hand to the person(s) named above (or by publicati			
	g or delivery t				
					RECEIVED
		The person signing this document shall make the	followi	ng certificati	on: Office of Oil and Gas
"I cert	ify under pena	alty of law that I have personally examined and am	Well	Operator	HG Energy, LLC
		ormation submitted in this document and all attachments	Add		5260 Dupont Road 72013
		ny inquiry of those individuals immediately responsible		T A 700	Parkersburg, WV 26101
		ormation, I believe that the information is true, accurate			Diane Christenent of
		ware that there are significant penalties for submitting	By:		Diane C. White
		cluding the possibility of fine and imprisonment."	Its:		Accountant The Hall Tollection
		The state of the s			- Anti-
					11:1
			Sign	ature	Diane CWhite
Oil an	d 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 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:

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

## Well Operator's Report of Well Work

		Well Ope	rator's Repo	t of Well	Work	C.8	
Farm name:	LONG, HEL	EN L.	Ope	rator Well	No.: MARY	LONG 251	
LOCATION:	Elevation:	733'	Qua	drangle:	PINE GRO	VE 7.5'	
	District: Latitude: Longitude:	GRANT 3,150 Feet s 10,950 Feet v	Cou outh of 39 vest of 80	Deg 35	Min 0	Sec.	
Company:	P.O. BOX 5:	OURCES, INC. 519 V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK					
Inspector: Permit Issued: Well work Cor Well work Cor Verbal pluggin	mpleted: ig	ERWOOD 06/02/06 06/18/06 09/08/06					
permission gra Rotary X Total Depth (fe	Cable eet)	Rig 2840'		7"	611'	611'	150 sks
Fresh water de	pths (ft)	50'		4 1/2"	2759'	2759'	150 sks
Salt water dept	ths (ft)						
Is coal being m Coal Depths (f OPEN FLOW	t):	7N) NA NA * WATERFLOC	D PRODUCE	ER			
Produ- Gas:	cing formation Initial open f Final open fl	low y	* MCF/d	Fina	Pay zone de al open flow ll open flow		2554'-2564'  * Bbl/d  * Bbl/d
Static	rock pressure	en flow between i	psig (s	urface pres	ssure)	after	Hours
Secon Gas:	d producing fo Initial open f Final open fl Time, of op	low	MCF/d	Oil: Initia Fina	Pay zone de al open flow l open flow	*	-1722', 1834'-1840 Bbl/d Bbl/d
Static	rock pressure		psig (s	urface pres	ssure)	after	Hours
OR STIMULATI	NG, PHYSICAL	4, PUT THE FOLLOW CHANGE, ETC. 2) TH FORMATIONS, INC	HE WELL LOG V	WHICH IS A	SYSTEMATIC	C DETAILED WELLBORE.	TURING and Gas 013
		For: 1	EAST RESOU By:	JRCES, IN	E. John	WW Departr	nent d
: 9			Date:		2/1/08		

#### Treatment:

Treated Gordon perforations 2554'-2564' w/ 230 gals. 15% HCl acid, 271 bbls cross linked gel, and 13,000 # 30/50 sand.

Treated Big Injun/Big Lime perforations 1714'-1722', 1834'-1840' w/ 1500 gals. 15% HCl acid, 186 bbls cross linked gel and 7,000 # 30/50 sand.

Well Log:	0	254	Sand and Shale
	254	278	Sand
	278	310	Shale
	310	367	Sand
	367	388	Shale
	388	399	Sand
	399	452	Shale
-	452	466	Sand
	466	560	Shale
	560	579	Sand
	579	954	Shale
	954	992	Sand
	992	1340	Shale
•	1340	1398	Sand
	1398	1430	Shale
	1430	1464	Sand
	1464	1470	Shale
	1470	1480	Sand
	1480	1620	Shale
	1620	1633	Sand
	1633	1660	Shale
	1660	1710	Big Lime
	1710	1956	Big Injun
	1956	2520	Shale
	2520	2543	Gordon Stray
	2543	2552	Shale
	2552	2565	Gordon
	2565	2840	Shale
	2840		TD

Form WW-9 Rev. 10/94	**	··· .	 ::	::	::	••	::	:							::	::3	::
1167. 10/94							_					nber 47				·2175	5
							Ope	rator's	s Well	No	_	Mary B.	Long	No. 25	1		

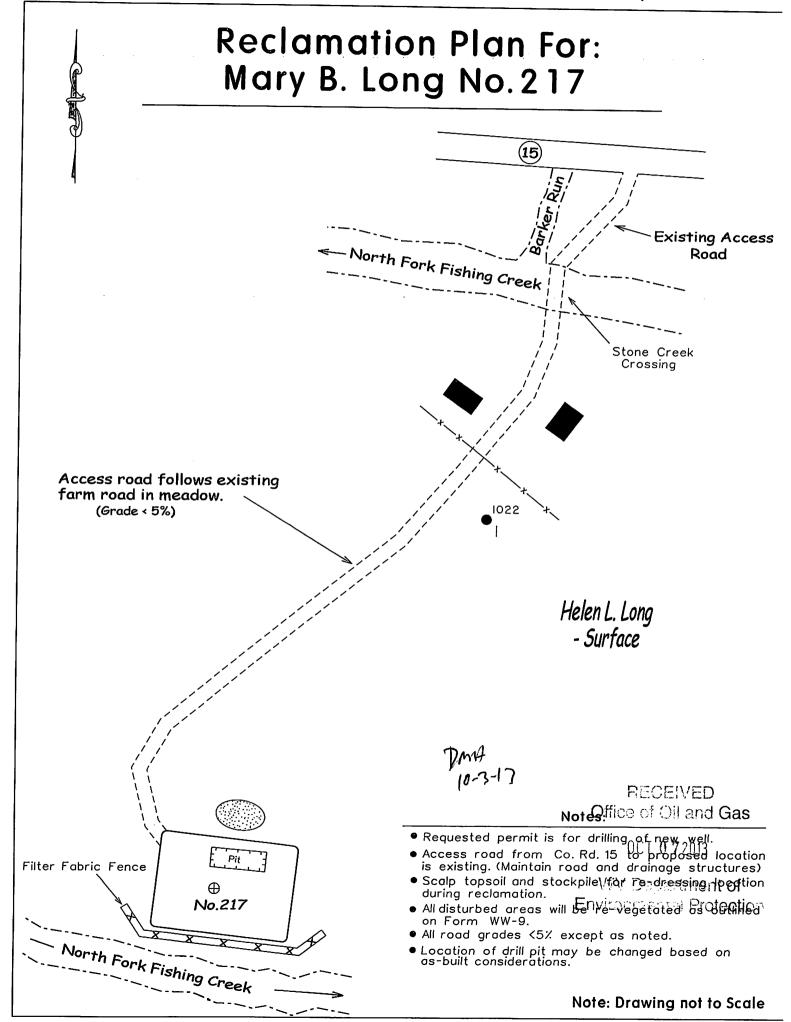
#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

# CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM

*** ·	HG Energy	, LLC		0.	P Code	494497948
Watershed	North Fork	of Fishing Cre	ek	Quadrangle	· <del></del>	Frove 7.5'
Elevation	733'	County	Wetzel	District		rant
Description of a	inticipated Pit Waste:	A pit will:	not be used	·		
Do you anticipa	te more than 5,000 bbls o	f water to comple	ete the proposed well work	Yes	No	X
	liner be used in pit?	ŇA	If so, what mil.?			
Proposed Dispos	sal Method For Treated F	it Wastes:	• • •			DM.
_	Land Applica	tion				10
		Injection (UIC I	Permit Number			)
	Reuse (at AP					)
			n WW-9 for disposal location	n)		
-		(Explain				)
	anticipated for this well			NA		
	foilbased, what type? Sy	nthetic, petroleu	m, etc.			
Additives to be u						
	sposal method? Leave in					
	andfill or offsite name/pe		um will be used? Cement, l	ime, sawdust $N$	<u>A</u>	· .
	or original manage					
applicable law or I ce this application f	regulation can lead to er ertify under penalty of lav orm and all attachments	oforcement action of that I have per of thereto and that	sonally examined and am fa	amiliar with the in	formation	submitted on
penalties for sub	mitting false information	, including the po	n is true, accurate and compossibility of fine or imprison	plete. I am aware i ment.	nediately i that there	are significant
penalties for sub:	mitting false information	, including the po	n is true, accurate and com	plete. I am aware i ment.	nediately i that there	are significant
Company Office	mitting false information	including the po	n is true, accurate and compossibility of fine or imprison	plete. I am aware i ment.	nediately i	are significant
Company Office	mitting false information ial Signature ial (Typed Name)	including the po	n is true, accurate and compossibility of fine or imprison	plete. I am aware i ment.	nediately that there	are significant
Company Office Company Office	mitting false information ial Signature ial (Typed Name)	including the po	n is true, accurate and compossibility of fine or imprison  Nave Cuh  Diane C. White	plete. I am aware i ment.	that there	are significant  RECEIVED
penalties for sub Company Office Company Office Company Office	mitting false information ial Signature ial (Typed Name)	including the po	n is true, accurate and compossibility of fine or imprison  Counce Cuh  Diane C. White  Accountant	plete. I am aware ment.	that there	are significant  RECEIVED
penalties for sub Company Office Company Office Company Office	mitting false information ial Signature ial (Typed Name) ial Title	including the po	n is true, accurate and compossibility of fine or imprison  Concern Conference  Diane C. White  Accountant	plete. I am aware ment.	F Office	RECEIVED of Oil and Gas
penalties for sub Company Office Company Office Company Office	mitting false information ial Signature ial (Typed Name) ial Title sworn before me this	including the po	n is true, accurate and compossibility of fine or imprison  Counce Cuh  Diane C. White  Accountant	plete. I am aware ment.	FOffice	RECEIVED of Oil and Gas

#### WW9\_Back

. r	A A A	] r	
Property Boundary	A A A	Diversion	
Road.	<u></u>	Spring	. \(\)
Existing Fence	_xx	Wet Spot	$\mathcal{O}_{\mathcal{O}}$
Planned Fence	<del>//</del> /	Drain Pipe	(12)
Stream .		Waterway	$\longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow$
Open Ditch	>	Cross Drain	
Rock	800000 8000000000000000000000000000000	Filter Strip	XXXXXXXXXX
		Pit: Cut Walls	Emmi
. North	N-	Pit: Compacted	simmer.
Buildings	<b>联键</b>	Fill Walls	- Transfer
Water Wells	W	Area of Land	
Dṛiļl Site	$\oplus$	Application of Pit Waste	
Lime _	Approx.  2 Tons/Acre or Co		ho Minimum)
_	2 Tons/Acre or Co. er (10-20-20 or Equivalent) 500 Straw 2 Tons/Acr	rrect to pH 6.5  Lbs./Acre (500 l	bs. Minimum)
Fertilize	2 Tons/Acre or Co. er (10-20-20 or Equivalent) 500	rrect to pH 6.5  Lbs./Acre (500 l	bs. Minimum)
Fertilize Mulch Area ]	2 Tons/Acre or Control of Control	rrect to pH 6.5  Lbs./Acre (500 less  CTURES	Area II (Road)
Fertilize Mulch  . Area 1	2 Tons/Acre or Control (10-20-20 or Equivalent) 500 Straw 2 Tons/Acre or C	rrect to pH 6.5  Lbs./Acre (500 less  CTURES  Seed Type	
Fertilize Mulch Area ]	2 Tons/Acre or Control of Control	rrect to pH 6.5  Lbs./Acre (500 less  CTURES	Area II (Road) Lbs/Ac. 40
Fertilize Mulch  Area  Seed Type Tall Fescue Ladino Clover	2 Tons/Acre or Cor (10-20-20 or Equivalent) 500 Straw 2 Tons/Acre  SEED MIX  I (Location)  Lbs/Ac.  40 5	rrect to pH 6.5  Lbs./Acre (500 less)  CTURES  Seed Type Tall Fescue	Area II (Road) Lbs/Ac. 40
Fertilize Mulch  Area  Seed Type  Tall Fescue  Ladino Clover	2 Tons/Acre or Control (10-20-20 or Equivalent) 500 Straw 2 Tons/Acre  SEED MIX  I (Location) Lbs/Ac. 40	rrect to pH 6.5  Lbs./Acre (500 left)  TO EXTURES  Seed Type  Tall Fescue  Ladino Clover	Area II (Road) Lbs/Ac. 40
Fertilize  Mulch  Area  Seed Type  Tall Fescue  Ladino Clover  ch:  ring(s) of road, location, pi	2 Tons/Acre or Cor (10-20-20 or Equivalent) 500 Straw 2 Tons/Acre  SEED MIX  I (Location)  Lbs/Ac.  40  5	Seed Type Tall Fescue Ladino Clover	Area II (Road)  Lbs/Ac.  40  5
Fertilize Mulch  Area  Seed Type  Tall Fescue  Ladino Clover  ch:  ring(s) of road, location, piocopied section of involved	2 Tons/Acre or Cor (10-20-20 or Equivalent) 500 Straw 2 Tons/Acre  SEED MIX  I (Location)  Lbs/Ac.  40  5  it and proposed area for land application d 7.5' topographic sheet.	Seed Type Tall Fescue Ladino Clover	Area II (Road)  Lbs/Ac.  40  5
Fertilize Mulch  Mulch  Area  Seed Type  Tall Fescue  Ladino Clover  ch:  ving(s) of road, location, picocopied section of involved	2 Tons/Acre or Cor (10-20-20 or Equivalent) 500 Straw 2 Tons/Acre  SEED MIX  I (Location)  Lbs/Ac.  40  5  it and proposed area for land application d 7.5' topographic sheet.	rrect to pH 6.5  Lbs./Acre (500 left)  CTURES  Seed Type  Tall Fescue  Ladino Clover	Area II (Road)  Lbs/Ac.  40  5
Fertilize Mulch  Area  Seed Type  Tall Fescue  Ladino Clover  ch:  ving(s) of road, location, pi ocopied section of involved	2 Tons/Acre or Cor (10-20-20 or Equivalent) 500 Straw 2 Tons/Acre  SEED MIX  I (Location)  Lbs/Ac.  40  5  it and proposed area for land application d 7.5' topographic sheet.	rrect to pH 6.5  Lbs./Acre (500 left)  CTURES  Seed Type  Tall Fescue  Ladino Clover	Area II (Road)  Lbs/Ac.  40  5



# Revised Reclamation Plan For: Mary B. Long No. 251

47-103-2175

Existing Low Water
Creek Crossing

See attached Reclamation Plan for MB Long No.217 for detail to County Road 15.

> Helen L. Long - Surface

North Fork Fishing Creek

Existing Access Road (~500' of < 5% Grade)

Steven & Timothy Long
- Surface

Existing Location

Compared to the string Vegetative Filter String

#### NOTE

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

PMH 10-3-17

Office of Oil and Gas

OCT 0 72013

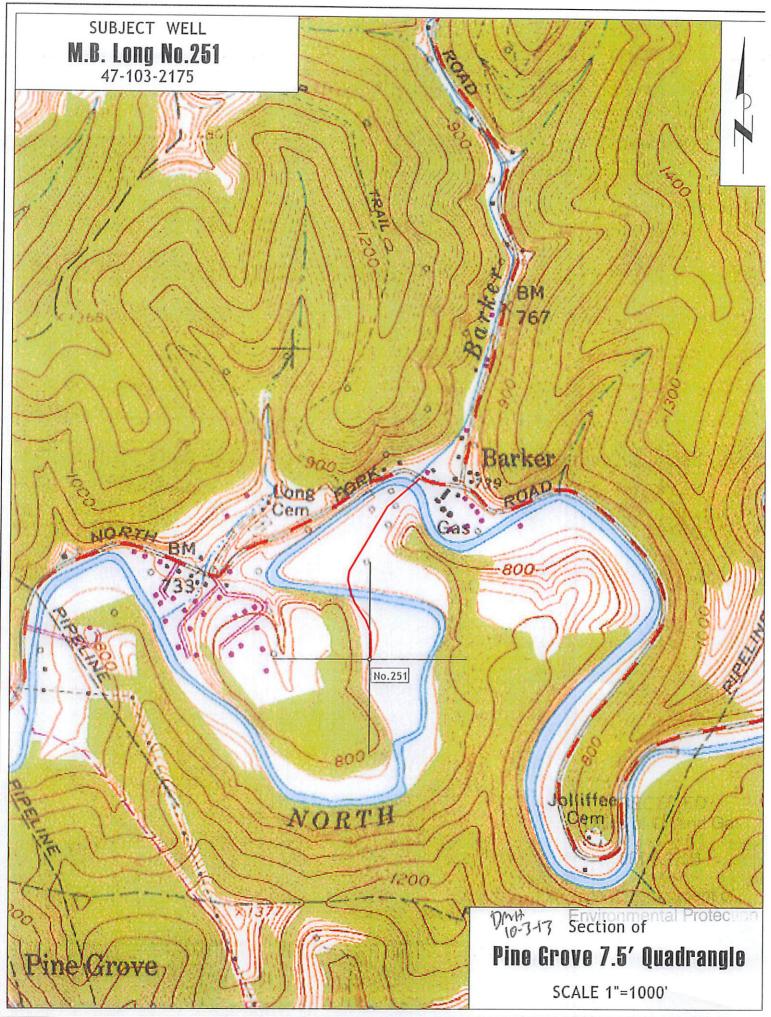
#### NOTE:

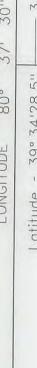
WELL LOCATION WAS BUILT AND RECLAIMED UNDER DRILLING PERMIT NO.47-103-2175. ONLY MINIMAL EARTHWORK WILL BE REQUIRED FOR PROPOSED WELL WORK. ALL DISTURBED AREAS WILL BE RE-YEGETATED AS PER THE SEEDING PLAN ON FORM WW-9. NO WORK-OVER PIT WILL BE REQUIRED FOR PROPOSED WELL WORK.

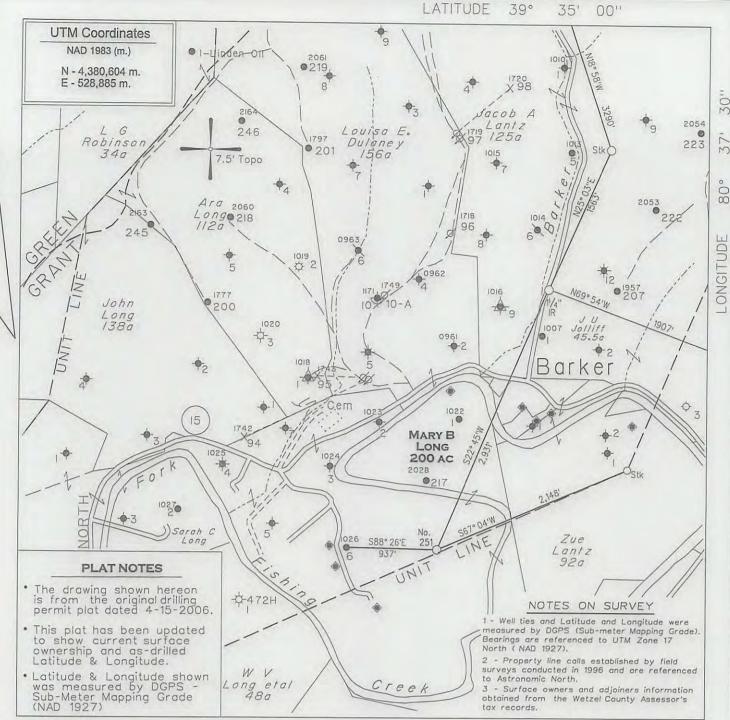
## Notes: No Department of

- · Requested permit is for conversion of existing well.
- Access from County Road to well location is existing. Structures will be maintained.
- 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>

Note: Drawing not to Scale







### (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

1041-29 MAP NO. N68 N 11 S \_W\_2 1" = 1000 MINIMUM DEGREE OF ACCURACY PROVEN SOURCE OF ELEVATION \_\_ DGPS Survey

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGU-LATIONS ISSUED AND PRESCRIBED BY THE DEPART MENT OF MINES.

TIMOTHY P. ROUSH

STATE OF

WEST VIRGINIA

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



PS 793 September 4, 2013 DATE Mary B. Long No.251 FARM API WELL NO.

47\_ 02

WELL TYPE: OIL \_\_\_ GAS \_X LIQUID INJECTION \_\_\_ ' WASTE DISPOSAL \_ DEEP\_\_\_ SHALLOW\_\_\_ North Fork of Fishing Creek LOCATION: ELEVATION \_\_\_ 733' . WATERSHED \_\_\_\_ Grant DISTRICT\_ \_ COUNTY\_ Wetzel

QUADRANGLE Pine Grove ...

Steven & Timothy Long \_ ACREAGE \_ 97.26 Ac. SURFACE OWNER\_

OIL & GAS ROYALTY OWNER Helen L. Long et al. 200 Ac. \_ LEASE ACREAGE\_

LEASE NO. \_24891-50

CONVERT\_X\_ DRILL DEEPER \_\_\_ REDRILL \_\_ PROPOSED WORK: DRILL \_\_ FRACTURE OR STIMULATE \_\_ PLUG OFF OLD FORMATION \_\_ PERFORATE NEW FORMATION \_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_ Convert to Liquid Injection

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG\_ TARGET FORMATION \_ Gordon \_ ESTIMATED DEPTH \_\_ 2,840' HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 DESIGNATED AGENT Mike Kirsch WELL OPERATOR 5260 Dupont Road **ADDRESS** ADDRESS Parkersburg, WV 26101



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

September 16, 2013

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

RE:

Mary B. Long No. 251 (API 47-103-2175)

Grant District, Wetzel County

West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-3A, WW-3B, WW-9, WW-2(B1), mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to convert the above-captioned shallow, producing well to an injection well. Our check in the amount of \$650 is attached.

#2400 10500

If you have any questions regarding this application, please call me at 304-420-1119 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane C White

Diane C. White

Enclosures

Steve & Timothy Long - Certified cc:

Derek Haught - Inspector

#2384 - missing \$ 650.00