

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

October 05, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10302028, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Operator's Well No: MARY B. LONG 217

Farm Name: LONG, HELEN L.

API Well Number: 47-10302028

Permit Type: Plugging
Date Issued: 10/05/2015

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. 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-4B Rev. 2/01

1) Date August 7	, 20 <u>15</u>					
2)Operator's						
Well No. Mary B Long 217						
3) API Well No. 47-	- 103 — 2028					

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas/ Liquid (If "Gas, Production or Und	l injection/ Waste disposal/ derground storage) Deep/ Shallow X
5)	Location: Elevation 718' District Grant	Watershed North Fork of Fishing Creek County Wetzel Quadrangle Pine Grove 7.5'
6)	Well Operator Address Address HG Energy, LLC 5260 Dupont Road Parkersburg, WW 26101	7) Designated Agent Diane White Address 5260 Dupont Road Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified Name Derek Haught Address P. O. Box 85 Ripley, WV 25271	9) Plugging Contractor Name To Be Determined Upon Approval of Permit Address
10)	Work Order: The work order for the manner ** See Attache	
work	fication must be given to the district of can commence. order approved by inspector	AUG 27 2015 il and gas inspector 24 hours before permitted WV Department of Environmental Protection Date 8-18-15
MOTK	order approved by inspector	10/09/2015

WW-4B - Conti Rev. 2/01

Date: A	ugust 7,	2015			
Operator's Well	Number B Long				
API Well No:	47	-	103	-	2028
All well to	State	-	County		Permit

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE:		Gas	200 200 2		_ 3	8		
4) WELL TITE.		VIOS.	Liquid Injec	tion	Waste Dispo			
	(If "Gas",	Production	Undergroun	11.00.000) Deep	Sha	allow _	<u>x</u>
5) LOCATION:	Elevation:	718'	Watershed:	North Fork	of Fishing Cree	k		
3) LOCATION.	District:	Grant	County:	Wetzel	Qı	nadrangle	Pine C	rove 7.5
6) WELL OPERA	TOR: HG Energ	ov LLC	4.94E+08	7) DESIGNA	TED AGENT	Diane V		
	5260 Dup				Address		upont Ro	
		ırg, WV 26101				Parkers	burg, W	V 26101
8) OIL & GAS INS	SPECTOR TO E	BE NOTIFIED		9) PLUGGIN	G CONTRACT	OR		
Name	Derek Haught			Name _	To Be Determ	nined Upon	Approva	l of Permi
Address	P. O. Box 85			Address _				
	Smithfield, W	V 26178						
TD- 2,750' SPOT GEL BEFO Manners of pluggin Plug #1 - 2525' - 24 Located above per Free point 4 1/2", Plug #2 - 1890' - ± Located at \$1/2" of Plug #3 - 770' - 560 Located at elevation Plug #4 - 300' - 200 Freshwater plug Plug #5 - 100' - 0' Surface Recover all possib Monument: 6" minimum diamondo" above surface 10' in well below so Sealed with cement API identification 6% Gel between and	one service ng; 425' forations (255 part and pull a 575' 1390' casing stub (ap 0' on (718'), acro 0' ele casing. If case eter metal pipe surface nt (1/2") height in	Peoc # 1. 6' - 2565' t approx 1625' (cover 54) prox 1625') and as 7" casing shoe	through casing per and through con	erforations (1	714' - 1720' an	RECEI e of Oil AUG 2 7 Departs	VED and 0 2015	as

Well: MB Long #217 Flevation: 718' 175 saks cement to surface 4 Casing Information Depth Weight Size Freepoint Cut and Pull Casing 7" 17#/ft. 613 Size Approx. Depth 10.5#/ft. 4 1/2" 2649 1625' 4 1/2" 2 3/8" 2540 Cement Plugs Hole Size 8 3/4 " \rightarrow Bottom Top NO. 2525 2425 1 2 1890 -1575 1390 560 3 770 200 4 300 3 0 100 5 6 1/2" Hole Size 4 **Bottom Hole Cement Level Calculations** Cement Depth # Sacks Used DM H 145 1654.914 8-18-15 1390 SW & 1430' Casing Size Depth Hole Size 2679 6.5 41/2 145 Sks Cement T.O.C. 1654 4 bbls / ft. diameter delta Conv. Factor 0.021372 1029.4 22 1890' Perforations cubic ft. per vertical ft. depth Bottom Top 0.119991257 2565' 2556' 1840' 1834' Sacks per vertical ft. depth 1720' 1714' 0.141589683 RECEIVED Office of Oil and Gas TD 2750 AUG 2 7 2015 WV Department of Environmental Protection

10/09/2015

103 0202%P 02/06/2008 API# 47 103 02028

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

Company was

R.	Beller and research & recognition to the paid	- Aller Back	Section of C	II AIIU GAS		į	
		Well O	perator's Re	port of Well	Work		
Farm name:	LONG, HEL	EN L.	O	perator Well	No.: MAR	RY LONG 217	
LOCATION:	Elevation:	718.00	Q	uadrangle:	PINE GRO	VE 7.5'	
	District: Latitude: Longitude:	GRANT 2,425 Feet 11,075 Feet	south of 3	ounty: WE 9 Deg 35 0 Deg 37	Min 30	Sec.	
Company:	P.O. BOX 55	URCES, INC. 19 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 Con	MIKE UNDE	ERWOOD . 02/0608 03/08/08	- ;				
Well work Cor Verbal pluggin	g	03/10/08	<u>-</u>				
permission gra Rotary X Total Depth (fe	Cable	Rig 2,750	<u>-</u>	7"	613.00'	613.00'	175 sks
Fresh water de	pths (ft) NA			4 1/2"	2679.60'	2679.60'	145 sks
Salt water dept	ths (ft) 143	0		<u> </u>	· ···	<u> </u>	
Is coal being m Coal Depths (fi	nined in area (Y.	N) NA		2 3/8"	2540'	2540'	PACKER
OPEN FLOW	DATA	* WATERFLO	OOD INJECT	OR			
Produ Gas:	cing formation Initial open floring of one		* MCF	/d Fina	Pay zone de lal open flow al open flow	pth (ft) Hours	2552-2564 * Bbl/d * Bbl/d
Static	rock pressure			(surface pre	ssure)	after	Hours
	d producing for Initial open fl Final open flo	ow	MCF MCF		Pay zone de ial open flow al open flow	• ' '	Bbl/d Bbl/d
	Time of ope	n flow between	initial and	final tests		Hours	3
NOTE: ON BACK OR STIMULATI	NG, PHYSICAL C	, PUT THE FOLLO HANGE, ETC. 2) T FORMATIONS, INC	WING: 1) DETA	WHICH IS A	ORATED INTE	DETAILED	Hours
		For:	EAST RESC By:	OURCES, IN	Be 0	delle	
		:	Date:			2/25/02	
	1				1		

WR-35

1-Jun-04 API# 47 103 2028

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

Well Operator's Report of Well Work

LONG, HELEN L. Operator Well No.: MARY LONG 217 Farm name: THECEIVED
Office of Oil & Gee
Office of Chief LOCATION: Elevation: 718.00 PINE GROVE 7.5' Quadrangle: OCT 20 2004 District: **GRANT** County: WETZEL Latitude: 2,425 Feet south of 39 Deg 35 Min 0 Sec. 80 Deg 37 Min Left WV Separtment of Environmental Programment Longitude: 11,075 Feet west of 30 Sec. Company: EAST RESOURCES, INC. Casing Used in P.O. BOX 5519 VIENNA, WV 26105-5519 Tubing **Drilling** in Well Cu. Ft. PHILIP S. ONDRUSEK Agent: Size MIKE UNDERWOOD Inspector: Permit Issued: 06/01/04 Well work Commenced: 06/16/04 Well work Completed: 10/19/04 Verbal plugging permission granted on: X Cable Rig 7" 613.00 613.00 175 sks Rotary Total Depth (feet) 2750 Fresh water depths (ft) NA 4 1/2" 2679.6 2679.6 145 sks Salt water depths (ft) <u>1430</u> Is coal being mined in area (Y/N) NA Coal Depths (ft): * WATERFLOOD PRODUCER OPEN FLOW DATA Pay zone depth (ft) 2552-2564 Producing formation Gordon Initial open flow MCF/d Oil: Initial open flow BPAG Gas: Bbl/d Final open flow Final open flow MCF/d Hours Time of open flow between initial and final tests Static rock pressure psig (surface pressure) after Hours Pay zone depth (ft) 1716-1722, 1830-1842 Second producing formation Big Injun 0 Bb1/d 50 MCF/d Oil: Initial open flow Initial open flow Gas: O BOILD 60 MCF/d Final open flow Final open flow Hours Time of open flow between initial and final tests Hours 250 psig (surface pressure) after Static rock pressure

NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED 10/09/2015 GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Treated perforations 1714'-1720' and 1834'-1840' w/ 250 gals 15% HCl, 193,500# 20/40 sand

Well Log:	0	316	Sand and Shale
	316	376	Sand
	376	460	Shale
	460	472	sand
	472	564	Shale
	564	582	sand
	582	956	Shale
	956	998	sand
	998	1080	Shale

1080

1100

sand

1439 1488 sand 1488 1655 Shale 1655 1696 Big Lime

1696 1958 Big Injun 1958 2520 Shale

2520 2542 Gordon Stray 2542 2552 Shale

2552 2570 Gordon 2570 2750 Shale 2750 TD

Page	3	of	4

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

1) Well Operate	or: East	Resources, I	nc.		30	08122
2) Operator's W	ell Number:	Mary B.	Long No. 217		3) Elevati	on 718'
	(a) Oil	Pro	duction		ound Storage	
	rget Formatio	-	Gordon			
6) Proposed To	Market & Control		700' feet			
7) Approximate	e fresh water	strata depths:		50'		
Approximate	e salt water de	epths:		NA		
 Approximate 	e coal seam de	epths:		505'		
10) Does land co	ontain coal sea	ams tributary	to active mine	? Yes	No	X
11) Proposed W	ell Work:	Drill and	d Stimulate Wa	aterflood Product	ion Well in Gord	on Sand
12)		CA	SING AND TO	JBING PROGRA	M	
ГҮРЕ	SPE	CIFICATION	NS	FOOTAGE I	NTERVALS	CEMENT
	Size	Grade	Weight Per Ft.	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Conductor						
Fresh Water	7"	L.S.	17	580'	580'	Cement to Surface
Coal						
Intermediate						
Production	4 1/2"	J-55	10.5	2,700'	2,700'	Cement over Salt Sand
Tubing						
Liners						
Packers: Kind Sizes Depths	set					
Fcc(s) Paid		For Offi Well Work I	ice of Oil and C Permit	STATE OF THE STATE	lamation Fund	WPCP
Plat]ww-9	wy	V-2B [Bond	(T)	Agent

RECEIVED
Office of Oil and Gas

AUG 2 7 2015

WV Department of Environmental Protection

DRILLING PROGNOSIS MARY B LONG NO. 217

Grant Dist - Wetzel County, WV

LOCATION:

Wileyville

PERMIT NO .: .

47-103-02028

ELEVATION:

737' G.L..

DRILLING AND

CASING PROGRAM: Drill at least an 8 3/4" hole to approx. 600', set approx. 580', 7" O D, 17 #/ft limited service casing on a casing shoe. Cement back to surface with 175 sks. reg. neat cement with 3% CaCl2 and 1/4# Flocele/sk.

W.O.C. 8 hrs.

Drill a 6 1/4" hole to approx. 2700' MD. Set 4 1/2", 10.5#/ft, J-55 casing. Cement with 75 sks 50/50 Pozmix w/ 2% CaCl₂ 6% gel, 1/8# flocele/sk, and 70 sks 50/50 Pozmix w/ 2% CaCl2 2% gel, 1/8#

flocele/sk.

DRILLING FLUID:

Fluid to total depth. Use freshwater to surface casing point, 2½ - 3% KCL system below surface casing. Prior to drilling Gordon water loss

to be reduced to 20 cc or less.

DRILLING TIME

AND SAMPLES:

One foot drilling time from surface to total depth. Ten-foot samples from 1650' to total depth.

LOGGING:

To be determined at time of drilling

PIPE TALLY:

Drill string will be strapped out on last trip at or before coring point or total depth is reached. If a correction of more than five feet (5') is necessary, then drill string is to be strapped going back in hole.

FORMATION TOPS:

Pittsburgh Coal 505' G.L. Big Lime 1702' G.L. Big Injun 1758' G.L. Pocono Shale 2013' G.L. Gordon Stray 2548' G.L. Gordon 2578' G.L. Shale 2590' G.L. T.D. 2700' G.L.

SUPERVISION:

A morning report will be called into the Parkersburg office by

8:00 a.m. each morning.

Office

Cell

Home

Rick Green

Foreman

Roger Heldman Mgr/ Drilling & Completion1-800-579-7684 481-9061 (740) 678-8210 782-2216 481-4939 (304) 782-4248

> RECEIVED Office of Oil and Gas

> > AUG 2 7 2015

WV Department of Environmental Protection WW-4A Revised 6-07

1) Date:	August 7, 2015	
2) Operator	's Well Number	
Mary B Long 217		

3) API Well No.: 47 -

103 - 2028

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

,	ner(s) to be served:	5) (a)	Coal Operato	r		
(a) Name	Steven & Timothy Long		Name	NA		
Address	P.O. Box 6	/	Address			
11441000	Pine Grove, WV 26419					
(b) Name			(b) Coal O	wner(s) with Declara	tion	
Address			Name	Murray Energy Corpora	ition /	
11441000			Address	46226 National Road		
				St. Clairsville, OH 4395	0	
(c) Name			Name			
Address			Address			
ridaress						
Inspector	Derek Haught		(c) Coal L	essee with Declaratio	n	
Address	P. O. Box 85		Name	NA		
	Smithville, WV 26178		Address			
Telephone	304-206-7613					
rerepriore		78				
However, Take notice	n you received these documents is you are not required to take any ac ce that under Chapter 22-6 of the V	tion at all. West Virginia Code,	the undersigned w	ell operator proposes to file or	has filed this Notice and Appli est Virginia Department of Env	cation a
Take notic accompan Protection the Appli	you are not required to take any ac ce that under Chapter 22-6 of the V lying documents for a permit to plu h, with respect to the well at the loc cation, and the plat have been ma reumstances) on or before the day of	tion at all. West Virginia Code, ag and abandon a well cation described on table by registered or finalling or delivery	the undersigned we ll with the Chief of he attached Applic r certified mail or to the Chief.	ell operator proposes to file or the Office of Oil and Gas, We	has filed this Notice and Appli est Virginia Department of Env ched Form WW-6. Copies of t	cation an
Take notic accompan Protection the Appli	you are not required to take any ac ce that under Chapter 22-6 of the Vaying documents for a permit to plu by with respect to the well at the location, and the plat have been man reumstances) on or before the day of	west Virginia Code, ag and abandon a well cation described on table by registered or formailing or delivery fell Operator	the undersigned will with the Chief of he attached Applic recrtified mail or to the Chief.	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attac delivered by hand to the pers	has filed this Notice and Appli est Virginia Department of Env ched Form WW-6. Copies of t	cation ar ironment his Notic
Take notic accompan Protection the Applic certain cir	you are not required to take any acceptance that under Chapter 22-6 of the Voying documents for a permit to plun, with respect to the well at the location, and the plat have been marcumstances) on or before the day of OFFICIAL SEAL NOTARY PUBLIC I	West Virginia Code, ag and abandon a welcation described on tailed by registered or formailing or delivery Tell Operator y: []	the undersigned wall with the Chief of the attached Applic recrtified mail or to the Chief. HG Energy, LLC Diane White	ell operator proposes to file or the Office of Oil and Gas, We	has filed this Notice and Appli est Virginia Department of Env ched Form WW-6. Copies of t	cation ar ironment his Notic
Take notic accompan Protection the Applic certain cir	you are not required to take any acceptance that under Chapter 22-6 of the Voying documents for a permit to plus, with respect to the well at the location, and the plat have been marcumstances) on or before the day of OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA IN S. DIANNE DULLANEY	West Virginia Code, ag and abandon a welcation described on tailed by registered or formailing or delivery Yell Operator y: E	the undersigned wall with the Chief of the attached Applic recrtified mail or to the Chief. HG Energy, LLC Diane White Agent	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the personal to the perso	has filed this Notice and Appli est Virginia Department of Env ched Form WW-6. Copies of t	cation ar ironment his Notic
Take notice accompant Protection the Applice certain cir	you are not required to take any acceptance that under Chapter 22-6 of the Voying documents for a permit to plus, with respect to the well at the location, and the plat have been mareumstances) on or before the day of Company Public STATE OF WEST VIRGINIA S. DIANNE DULANEY 5260 Dupont Road	West Virginia Code, ag and abandon a well cation described on tailed by registered or finalling or delivery Vell Operator by: S: Address	the undersigned we like the undersigned will with the Chief of the attached Applier certified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attac delivered by hand to the pers	has filed this Notice and Appli est Virginia Department of Env ched Form WW-6. Copies of t	cation ar ironment his Notic
Take notice accompant Protection the Applice certain cir	oce that under Chapter 22-6 of the Viving documents for a permit to plus, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the NOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY 5250 Dupont Road arkersburg. West Virginia 26101	West Virginia Code, ag and abandon a welcation described on tailed by registered or for mailing or delivery Vell Operator y: s: ddress	the undersigned well with the Chief of the attached Applic recrtified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa Parkersburg, WW	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attac delivered by hand to the pers	has filed this Notice and Appli est Virginia Department of Env ched Form WW-6. Copies of t	cation ar ironment his Notic
Take notic accompan Protection the Applic certain cir	oce that under Chapter 22-6 of the Viving documents for a permit to plus, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the NOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY 5250 Dupont Road arkersburg. West Virginia 26101	West Virginia Code, ag and abandon a welcation described on tailed by registered or familing or delivery Vell Operator y: s: ddress	the undersigned we like the undersigned will with the Chief of the attached Applier certified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the persuperstance white	has filed this Notice and Appliest Virginia Department of Enveloed Form WW-6. Copies of the con(s) named above (or by public pub	cation ar ironment his Notic dication
Take notice accompant Protection the Applice certain cir	oce that under Chapter 22-6 of the Viving documents for a permit to plus, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the NOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY 5250 Dupont Road arkersburg. West Virginia 26101	West Virginia Code, ag and abandon a welcation described on tailed by registered or for mailing or delivery Vell Operator y: s: ddress	the undersigned well with the Chief of the attached Applic recrtified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa Parkersburg, WW	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the persuperstance white	has filed this Notice and Appli est Virginia Department of Env ched Form WW-6. Copies of t	cation ar ironment his Notic dication
Take notice accompan Protection the Applic certain cir	oce that under Chapter 22-6 of the Voying documents for a permit to plus, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the Month	West Virginia Code, ag and abandon a welcation described on tailed by registered or finalling or delivery Vell Operator by: S: ddress elephone	the undersigned we lil with the Chief of the attached Applier certified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa Parkersburg, WW 304-420-1119	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the persuation and depicted on the American Diane White	has filed this Notice and Appliest Virginia Department of Enveloed Form WW-6. Copies of the son(s) named above (or by publication) RECEIVED Ce of Oil and Gas	cation ar ironment his Notic dication
Take notice accompan Protection the Applic certain cir	oce that under Chapter 22-6 of the Viving documents for a permit to plus, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the NOTARY PUBLIC STATE OF WEST VIRGINIA S. DIANNE DULANEY 5250 Dupont Road arkersburg. West Virginia 26101	West Virginia Code, ag and abandon a welcation described on tailed by registered or finalling or delivery Vell Operator by: S: ddress elephone	the undersigned well with the Chief of the attached Applic recrtified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa Parkersburg, WW	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the persure white	has filed this Notice and Appliest Virginia Department of Enveloed Form WW-6. Copies of the control of the cont	cation ar ironment his Notic dication
Take notic accompan Protection the Applic certain cir	you are not required to take any acceptance that under Chapter 22-6 of the Voying documents for a permit to plut, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the control o	West Virginia Code, ag and abandon a welcation described on tailed by registered or finalling or delivery Vell Operator by: S: ddress elephone	the undersigned we lil with the Chief of the attached Applier certified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa Parkersburg, WW 304-420-1119	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the persuation and depicted on the American Diane White	has filed this Notice and Appliest Virginia Department of Enveloed Form WW-6. Copies of the son(s) named above (or by put of the son of Oil and Gas AUG 2.7 2015	cation ar ironment his Notic dication
Take notice accompan Protection the Applic certain cir	you are not required to take any acceptance that under Chapter 22-6 of the Voying documents for a permit to plut, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the control o	West Virginia Code, ag and abandon a welcation described on tailed by registered or finalling or delivery Vell Operator by: S: ddress elephone	the undersigned we lil with the Chief of the attached Applier certified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa Parkersburg, WW 304-420-1119	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the personal delivered by	has filed this Notice and Appliest Virginia Department of Enveloed Form WW-6. Copies of the condition of the	cation arironmenthis Notice
Take notice accompant Protection the Applicertain cire Page My	or that under Chapter 22-6 of the Voying documents for a permit to plu, with respect to the well at the location, and the plat have been marcumstances) on or before the day of the company of the compan	West Virginia Code, ag and abandon a welcation described on tailed by registered or finalling or delivery Vell Operator by: S: ddress elephone	the undersigned we lil with the Chief of the attached Applier certified mail or to the Chief. HG Energy, LLC Diane White Agent 5260 Dupont Roa Parkersburg, WW 304-420-1119	ell operator proposes to file or the Office of Oil and Gas, We ation and depicted on the attack delivered by hand to the personal delivered by	has filed this Notice and Appliest Virginia Department of Enveloed Form WW-6. Copies of the son(s) named above (or by put of the son of Oil and Gas AUG 2.7 2015	cation a ironmen his Notic elication

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 depprivacyoffier@wv.gov.

10/09/2015

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VINGINIA
STATE OF WEST VINGINIA
STATE OF WEST VINGINIA
STATE OF WEST VINGINIA
PERFERSELS WEST VINGINIA
My Commission Expires Oct. 4 2015

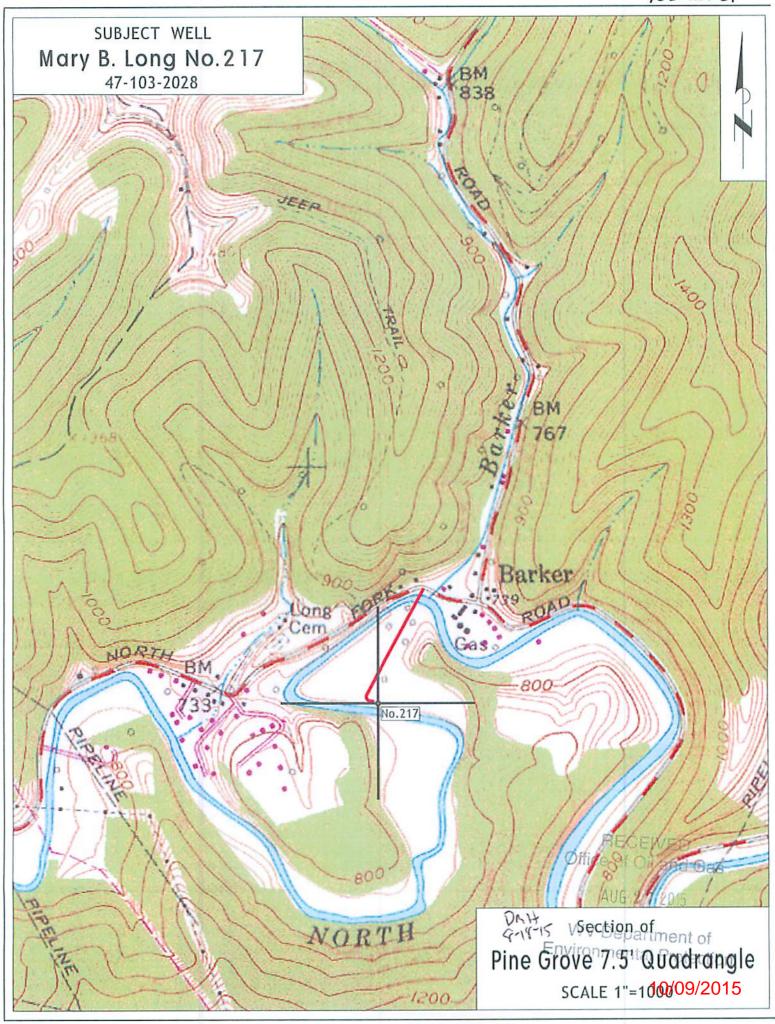
WW-9 Rev. 5/08

	Page _		of	
API Number 47 -	103	-	02028	
Operator's Well N	o. Mary B L	ong 21	7	

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

G	AND RECLAMATION PLAN ENERAL PERMIT FOR OIL A	ND GAS PIT WASTE I	DISCHARGE	
Operator Name_HG Energ	y, LLC	OP (Code 494497946	-
Watershed North Fork of Fi	shing Creek	Quadrangle Pine G	Frove 7.5'	_
Elevation 718'	County_Wetzel	D	istrict_Grant	_
Description of anticipated Pit W	aste: Fluids encounter	ed while pluggir	ng subject well	_
Will a synthetic liner be used in	the pit? Yes 7	t must be lineal e mil thickness so	with a minimum of ynthetre liner.	
Proposed Disposal Method For X Land	Application		Tru)
Unde	e (at API Number	Number		DME
Off S	Site Dispposal (Supply form WV (Explain	V-9 for disposal location)	8-18-1
Proposed Work For Which Pit V				
Drill Worl	ing _	X Swabbing Plugging		
	r (Explain	11055115		_
on August 1, 2005, by the Office provisions of the permit are en law or regulation can lead to en I certify under penalty application form and all attace obtaining the information. I be	the of Oil and Gas of the West VI forceable by law. Violations of forcement action. You of law that I have personally thereto, and that hases	f any term or condition examined and am fam d on my inquiry of the rue, accurate, and comp	RAL WATER POLLUTION PERM vironmental Protection. I understar of the general permit and/or other uiliar with the information submitted ose individuals immediately respondent. I am aware that there are ment.	applicable ed on this onsible for
Company Official Signature	Diane White	•	10 Miles (10 Mil	
Company Official (Typed Nan	Diane White			
Company Official Title Age				
			Alexan.	
Subscribed and sworn before n	ne this 7th day of	August	Offit5 of Oil and	
SDicu	y Da Cary		AUG 2 7 2015 Notory Public 2 7 2015	الأشار برم مرم
	Oct 4,2616		OFFICIAL SE NOTARY PUE	ILIC VIRGINIA ANEY
My commission expires	00. 11-01		5260 Dupont Ro Parkersburg, West Virg My Commissi D0709	nia 26101 204 2516

		LEGEND	
Property Boundary Road = = = = = = = = = = = = = = = = = = =	===== - × ×	Spring Wet Spot Drain Pipe with size in inch Waterway Cross Drain	**************************************
Proposed Revegetation Treatm Lime	Tons/acre or to correct to requivalent)		n pH
Arez			Area II
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,p Photocopied section of involv ** Sediment Contro	ed 7.5' topographic sheet.		RECEIVED
Plan Approved by:	1,		Office of Oil and Gas
Comments:			AUG 2 7 2015
Title: $O^{1} + G < \Gamma$	Indicar	Date: 8-18-15	WV Department of Environmental Protection
Field Reviewed? (/)Yes () No	



Environmental P10/09/2015

West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:47-	- 103 - 2028	WELL NO:	No.217
FARM NAME:	Mary B. Long		
RESPONSIBLE PARTY N	AME: H.G. E	Energy, LLC	
COUNTY:	Wetzel	DISTRICT:	Grant
QUADRANGLE:	Pine Grove 7.5'		
SURFACE OWNER:	Steven & Timothy	Long	
ROYALTY OWNER:	American Energy	Partners et al.	
UTM GPS NORTHING:	4,380,834	(NAD 83)	
UTM GPS EASTING:	528,854	(NAD 83) GPS ELEVATION:	219 m. 🗀 18 !
preparing a new well locat Oil & Gas will not accept 0 1. Datum: NA height abov 2. Accuracy to	ion plat for a plugging perm GPS coordinates that do not AD 1983, Zone:17 North, Cove mean sea level (MSL) - modern Datum - 3.05 meters	omit GPS coordinates in lieu of it on the above well. The Office of meet the following requirements: Coordinate Units: meters, Altitude: neters.	
3. Data Collection Survey Grade G	etion Method: PSPost Processed Di Real-Time Differe		
Mapping Grade	GPS X Post Processed Di Real-Time Differe		
10 To	ormation required by law ar	the best of my knowledge and and the regulations issued and	
Diane White	Diane C White	Designated A	
Signature		Title Office	of Oil and Gas
March 23, 2015 Date		AL	IG 2 7 2015
		WVD	epartment of