



**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

July 24, 2014

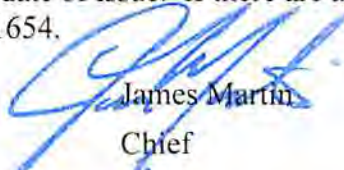
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-6100538, 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 penalties 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.



James Martin  
Chief

Operator's Well No: 2  
Farm Name: THOMAS, SAUL  
**API Well Number: 47-6100538**  
**Permit Type: Plugging**  
Date Issued: 07/24/2014

Promoting a healthy environment.

07/25/2014

## 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

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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.

1) Date: June 10, 2014  
 2) Operator's Well Number Saul Thomas No. 2  
 3) API Well No: 47 - 061 - 0538  
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: Oil X Gas \_\_\_\_\_ Liquid Injection \_\_\_\_\_ Waste Disposal \_\_\_\_\_  
 (If "Gas", Production \_\_\_\_\_ Underground Storage \_\_\_\_\_ ) Deep \_\_\_\_\_ Shallow \_\_\_\_\_

5) LOCATION: Elevation: 1204' Watershed: Thomas Run  
 District: Clay County: Monongalia Quadrangle Blacksville 7.5'

6) WELL OPERATOR: HG Energy, LLC 4.94E+08 7) DESIGNATED AGENT Micheal G. Kirsch  
 Address 5260 Dupont Road Address P.O. Box 5519  
Parkersburg, WV 26101 Vienna, WV 26105-5519

8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR  
 Name John Shockey Name To Be Determined Upon Approval of Permit  
 Address 1550 Cost Avenue Apt. 31 Address \_\_\_\_\_  
Stonewood, WV 26301

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

CASING	
10"	911
8 1/4"	1,311' <u>6 5/8" 1276'</u>
5 3/16"	3,052'
4" liner	3,169'-3,019'

TD- 3,189' PGH Coal - 878'-885' Mapleton Coal: 788'-792'

Plug No. 1 3,080' - 2,980'  
 POH with 5 3/16" casing  
 Plug No. 2 2,800' - 2,700'  
 Plug No. 3 2,150' - 2,050'  
 Plug No. 4 1,600' - 1,500'  
 Rip 8 1/4" casing free & POH (Est. 1,200')  
 Plug No. 5 1,250' - 1,050'.  
 Rip 8 1/4" casing from 900' - 750" & every 1' thru coal from 885' - 875' & 795' - 785'.  
 Plug No. 6 900' - 750' (tag)  
 Rip 10" casing & POH (Est 200')  
 Plug No. 7 250' to Surface.

RIP 6 5/8" CASING FREE & POH  
FOR PLUG BEHIND CASING CUT.

GEL IS FRESH WATER WITH A MINIMUM OF 6% BENTONITE (BY WEIGHT) AND NO OTHER ADPTIVES.

Cement Plugs are Class A, Regular Neat Cement  
 Cement tops will be tagged  
 All attempts will be made to recover as much casing and tubing as possible

GEL SPACER MUST BE PLACED BETWEEN ALL CEMENT PLUGS.

OFFICE USE ONLY

PLUGGING PERMIT

Permit Number \_\_\_\_\_ Date \_\_\_\_\_ 19\_\_\_\_

This permit covering the well operator and the well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 hours before actual work has commenced.

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires \_\_\_\_\_ unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	WPCP	Other
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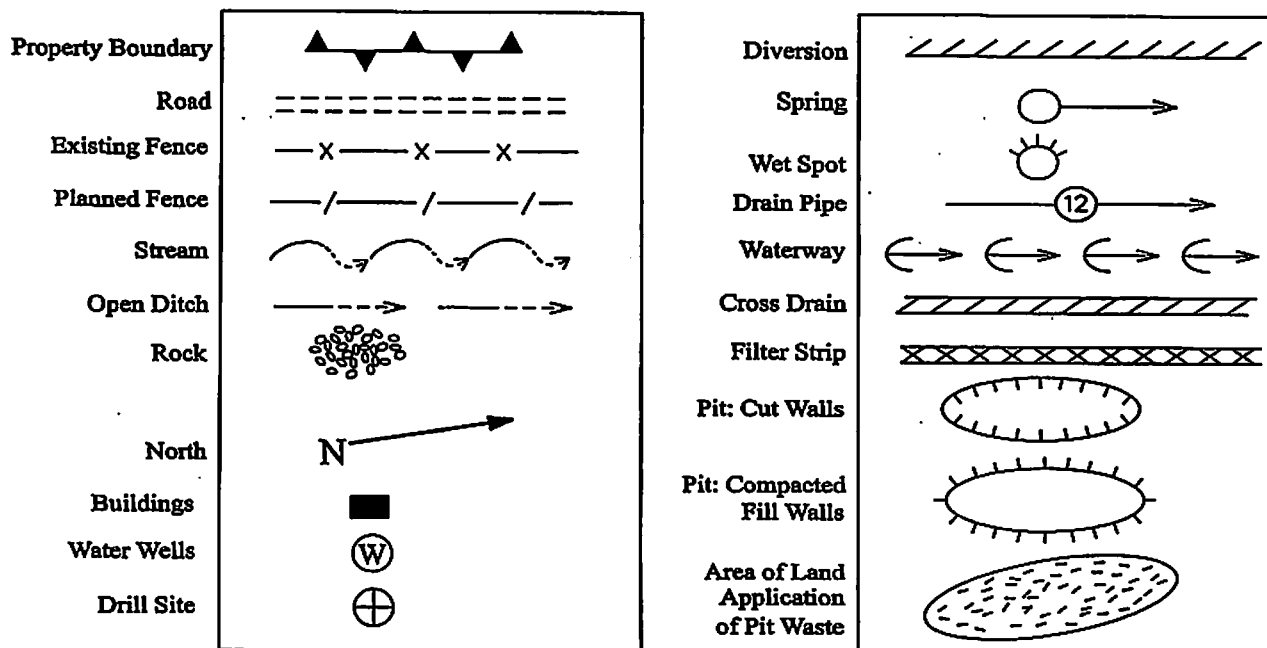
Chief, Office of Oil & Gas

NOTE: Keep one copy of this permit posted at the plugging location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator

07/25/2014

Legend



Proposed Revegetation Treatment: Acres Disturbed Area I Approx. 0.5 Ac. Prevegetation pH \_\_\_\_\_

Area II Approx. 0.4 Ac.

Lime 2 Tons/Acre or Correct to pH 6.5  
 Fertilizer (10-20-20 or Equivalent) 500 Lbs./Acre (500 lbs. Minimum)  
 Mulch Straw 2 Tons/Acre

SEED MIXTURES

<u>Area I (Location)</u>	
Seed Type	Lbs./Ac.
Tall Fescue	40
Ladino Clover	5

<u>Area II (Road)</u>	
Seed Type	Lbs./Ac.
Tall Fescue	40
Ladino Clover	5

Attach:  
 Drawing(s) of road, location, pit and proposed area for land application  
 Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_

Title: ENVIRONMENTAL INSPECTOR

Date: 6-27-14

Field Reviewed? Yes No

6100538P

WW-4A  
Revised 6-07

1) Date: June 10, 2014  
2) Operator's Well Number Saul Thomas No. 2  
3) API Well No: 47 - 061 - 0538  
State County Permit

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

*ck 2691  
10000*

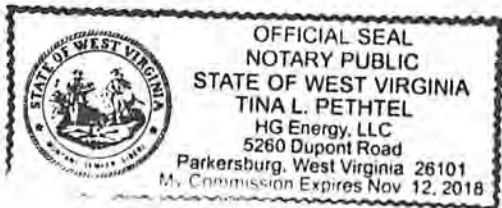
4) Surface Owner(s) to be served:	5) (a) Coal Operator:
(a) Name <u>Joseph &amp; Leona Wolfe Jr.</u>	Name <u>Patriot Coal Corporation</u>
Address <u>698 Thomas Run Road</u>	Address <u>12312 Olive Boulevard</u>
<u>Blacksville, WV 26521</u>	<u>St. Louis, Missouri 63141</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
(c) Name _____	Address _____
Address _____	Name _____
	Address _____
6) Inspector <u>John Shockey</u>	(c) Coal Lessee with Declaration
Address <u>1550 Cost Avenue Apt. 31</u>	Name <u>NA</u>
<u>Stonewood, WV 26301</u>	Address _____
Telephone <u>380-2773</u>	_____

**TO THE PERSON(S) NAMED ABOVE:** You should have received this Form and the following documents:

- 1) The Application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
- 2) The plat (surveyor's map) showing the well location on Form WW-6

The reason you have received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator HG Energy, LLC

By: Diane White Diane C White

Its: Accountant

Address 5260 Dupont Road

Parkersburg, WV 26101

Telephone (304) 420-1119

**RECEIVED**  
Office of Oil and Gas  
JUL 07 2014

Subscribed and sworn before me this 10 day of June 2014

Tina L. Pettel WV Department of Environmental Protection

My Commission Expires Nov 12, 2018

07/25/2014

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

SAINT LOUIS MO 63141

Postage	\$ 1.40	0330
Certified Fee	\$3.30	17
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>	



Sent To  
**Patriot Coal Corporation**  
 Street, Apt. No.;  
 or PO Box No. **12312 Olive Boulevard**  
 City, State, ZIP+4  
**St. Louis, Missouri 63141**

PS Form 3800, August 2006 See Reverse for Instructions

7012 2920 0001 3227 9490

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

BLACKSVILLE WV 26521

Postage	\$ 1.40	0330
Certified Fee	\$3.30	
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>	



Sent To  
**Joseph & Leona Wolfe Jr.**  
 Street, Apt. No.;  
 or PO Box No. **698 Thomas Run Road**  
 City, State, ZIP+4  
**Blacksville, WV 26521**

PS Form 3800, August 2006 See Reverse for Instructions

7012 2920 0001 3227 9483

RECEIVED  
 Office of Oil and Gas  
 JUL 17 2014  
 WV Department of  
 Environmental Protection

07/25/2014

WW-9  
Rev. 02/03

Page 3 of 3  
API Number 47- 061 - 0538  
Operator's Well No. Saul Thomas No. 2

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 Energy, LLC OP Code 494497948  
Watershed Thomas Run Quadrangle Blacksville 7.5'  
Elevation 1204' County Monongalia District Clay

Description of anticipated Pit Waste: Fluids encountered in plugging subject well

Will a synthetic liner be used in pit? Yes Size of Liner? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply Form WW-9 for disposal location)
- Other ( Explain \_\_\_\_\_ )

Drilling medium anticipated for this well? Air, fresh water, oil based, NA  
- If oilbased, what type? Synthetic, petroleum, etc.

Additives to be used? Water, soap, KCI

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA  
- If left in pit and plan to solidify, what medium will be used? Cement, lime, sawdust  
- Landfill or offsite name/permit number? NA

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

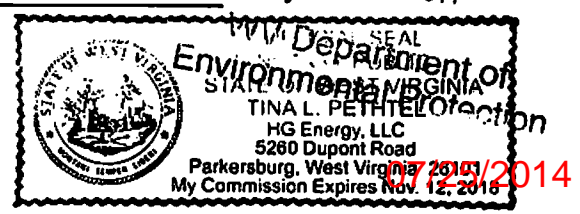
Company Official Signature Diane C White  
Company Official (Typed Name) Diane C White  
Company Official Title Accountant

Subscribed and sworn before me this 10 day of June 2014

Tina L. Pethel

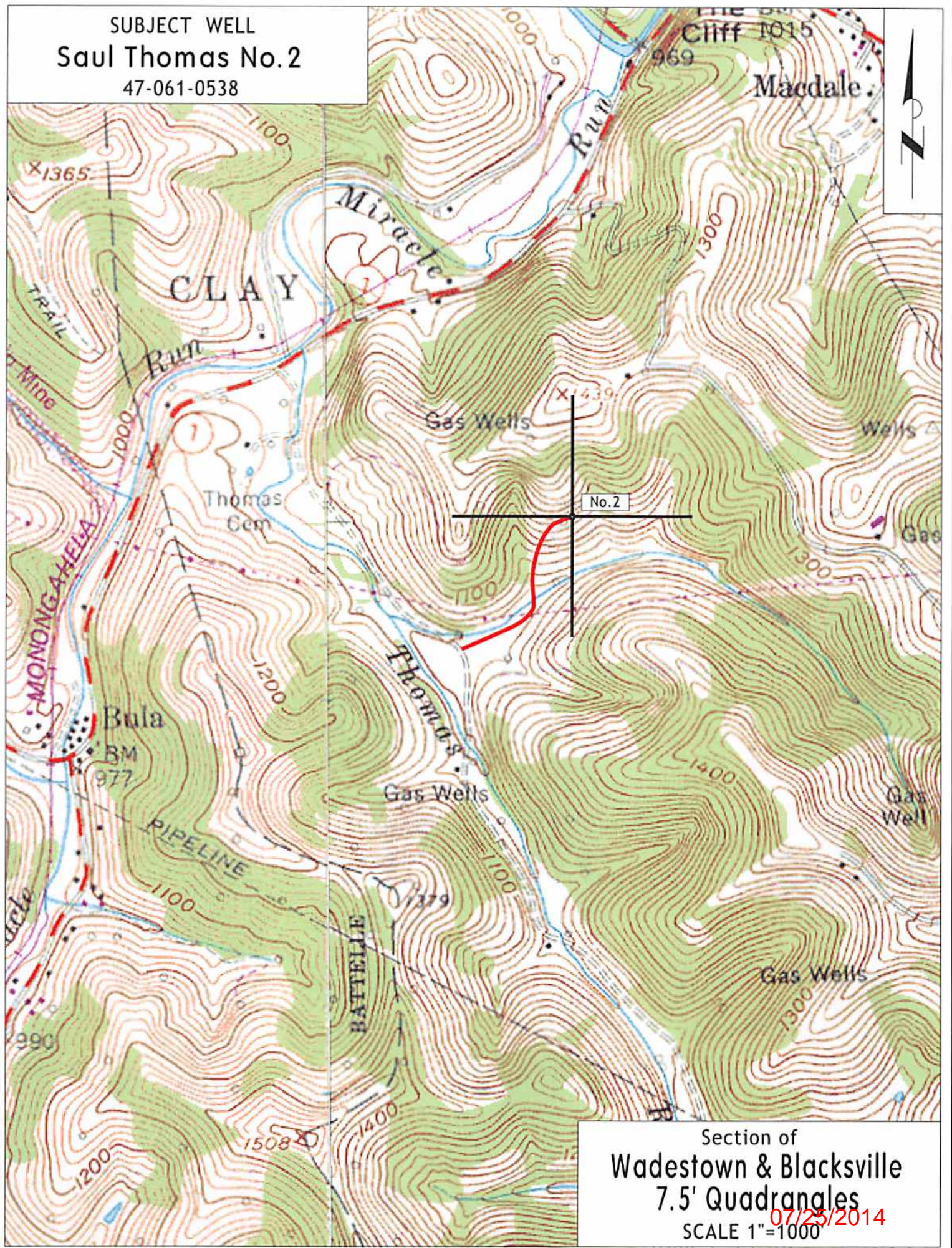
RECEIVED  
Office of Oil and Gas  
JUN 10 7 2014  
Notary Public

My commission expires NOV 12, 2018



6100538A

SUBJECT WELL  
Saul Thomas No.2  
47-061-0538



Section of  
Wadestown & Blacksville  
7.5' Quadrangles  
SCALE 1"=1000  
07/25/2014



West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 061 - 0538 WELL NO: No.2

FARM NAME: Saul Thomas

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Monongalia DISTRICT: Clay

QUADRANGLE: Blacksville 7.5'

SURFACE OWNER: Joseph & Leona Wolfe Jr.

ROYALTY OWNER: HG Energy, LLC et al.

UTM GPS NORTHING: 4,395,691 (NAD 83)

UTM GPS EASTING: 564,939 (NAD 83) GPS ELEVATION: 367 m. (1203.8 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Diane C White Diane C White  
Signature

Designated Agent  
Title

June 3, 2014  
Date

## McLaughlin, Jeffrey W

---

**From:** Diane White <dwhite@hgenergyllc.com>  
**Sent:** Monday, July 21, 2014 11:38 AM  
**To:** McLaughlin, Jeffrey W  
**Subject:** FW: Status of Plugging Permits - API - 47-103-01540, 47-061-00538, 47-049-00512, 47-103-01217, 47-103-01532, 47-103-02056

Jeff,  
Thank you for taking my call, it was good to talk with you earlier. See Roger's order of preference listed below:

#1	47-049-00512	JL Erwin 4
#2	47-061-00538	Saul Thomas 2
#3	47-103-01540	FL Hoge H-14
#4	47-103-01217	LS Hoyt 28
#5	47-103-01532	LS Hoyt 79
#6	47-103-02056	LS Hoyt 224

Thank You,  
Diane

**From:** Roger L. Heldman  
**Sent:** Monday, July 21, 2014 11:23 AM  
**To:** Diane White  
**Subject:** RE: Status of Plugging Permits - API - 47-103-01540, 47-061-00538, 47-049-00512, 47-103-01217, 47-103-01532, 47-103-02056

J L Erwin4, Saul Thomas 2, then the Hoyts – they were all submitted first half of June

**From:** Diane White  
**Sent:** Monday, July 21, 2014 11:07 AM  
**To:** Roger L. Heldman  
**Subject:** FW: Status of Plugging Permits - API - 47-103-01540, 47-061-00538, 47-049-00512, 47-103-01217, 47-103-01532, 47-103-02056

Roger,  
Which one do you want approved first?  
Diane

**From:** Diane White  
**Sent:** Thursday, July 17, 2014 3:29 PM  
**To:** McLaughlin, Jeffrey W  
**Subject:** Status of Plugging Permits - API - 47-103-01540, 47-061-00538, 47-049-00512, 47-103-01217, 47-103-01532, 47-103-02056

Jeff,

Good afternoon. I wonder if you could tell me the status of several plugging permits? Roger has a rig working on plugging wells. If you're too busy to look them up, perhaps you could tell me in very general terms, how long plugging permits are at the DEP before they're approved?

Thank You,  
Diane

*Diane C. White*



**HG Energy, LLC**  
5260 Dupont Road  
Parkersburg, WV 26101  
304-420-1119 (O)  
304-482-0108 (C)  
304-863-3172 (F)  
[dwhite@hgenergyllc.com](mailto:dwhite@hgenergyllc.com)



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

June 10, 2014

Jeff McLaughlin  
WVDEP  
Division of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304

RE: Saul Thomas No. 2 (47-061-0538)  
Clay District, Monongalia County  
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record, copy of certified mailing receipt and a check in the amount of \$100.00 to cover the permit fee to plug and abandon the above-captioned well.

Very truly yours,

*Diane White*

Diane C. White

Enclosures

cc:

Joseph & Leona Wolfe Jr. - Certified  
Patriot Coal Corporation - Certified  
John Shockey - Inspector

RECEIVED  
Office of Oil and Gas  
JUL 07 2014  
WV Department of  
Environmental Protection

07/25/2014

6100538P

WELL NO.		NAME		LEASE NO.		ACRES		N. 18 S.		E. 12 W.		DISTRICT		MANNINGTON	
FACILITY		RECORD										CASING AND TUBING			
CITY		FORMATION	TOP	BOTTOM	OIL AT	GAS AT	WATER AT	FRESH OR SALT	SIZE	PUT IN WELL	PULLED	CEMENTED			
L. Lay		Pittsburgh Coal	578	585					14 in. Casing			Date <i>Not</i>			
Monongahia		Dunkard Sand	1306	1450					10 in. Casing	911'6"		Size Casing			
August 30, 1920 by J. W. S. Co.		Salt Sand	1625	1892					8 1/2 in. Casing	1511'5"		Top Ft.			
September 3, 1920		Maxon Sand							6 1/2 in. Casing	1886'6"		Bottom Ft.			
March 24, 1921		Injun Sand	2156	2390	2300				5 1/2 in. Casing	3052'7"					
Drilling Department		Berea Sand							2 in. Tubing	3194'6"	3194'6"				
Per Foot		Giantz Sand	2670	2697					2 in. Tubing	3194'6"					
Purchased from J. W. S. Co.		Fifty Foot sand	2810	2875		2833			in. Tubing						
April 28, 1921		Thirty Foot Sand	2855	2914					4 1/2 x 4 line	149'9"	129'9"				
April 5, 1921		Stray Sand	3047	3052					"	120'	120'				
Hops #583		Gordon Sand	3090	3112		3155-37			SHOOTING						
		Fourth Sand	3128		3176-79				DATE	QTS.	SAND	VOLUME BEFORE	VOLUME AFTER		
		Fifth Sand							3-28-23	15	4 <sup>th</sup>	Shot for oil			
		Bayard Sand							6-3-32	30	"	16.44. wt. 2.44. dr.			
		Speechley Sand													
ELEVATION ABOVE SEA LEVEL 1154.94		TOTAL DEPTH		5189											

VOLUME AND PRESSURE TESTS													PACKERS				
DATE TAKEN			READING	LIQUID	OPENING	POUNDS PRESSURE	1 MIN.	5 MIN.	10 MIN.	30 MIN.	60 MIN.	ROCK	VOLUME	SAND	SIZE	MAKE	SET AT
Sub	25	1921	29/10	H	1								53,250	50 feet	2x8	W.D.	316.5
Mar	29												25 bbl oil per day	Fourth			2158
April	27	1923	4/10	H.	1/2								5,910	"			
Aug	25	1932											4 bbl oil per day	"			
INITIAL OIL PRODUCTION																	
DATE		BARRELS	SAND														
3-22-21		44 <sup>22</sup>	4 <sup>th</sup>														
3-25-21		53															
3-26-21		34															
3-28-21		40 <sup>25</sup>															
ESTIMATED															HRL. WELL		

