



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

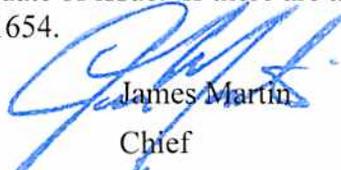
WELL WORK PLUGGING PERMIT

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.

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.

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" 1276'6"</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
SOI PLUG ABOVE 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.

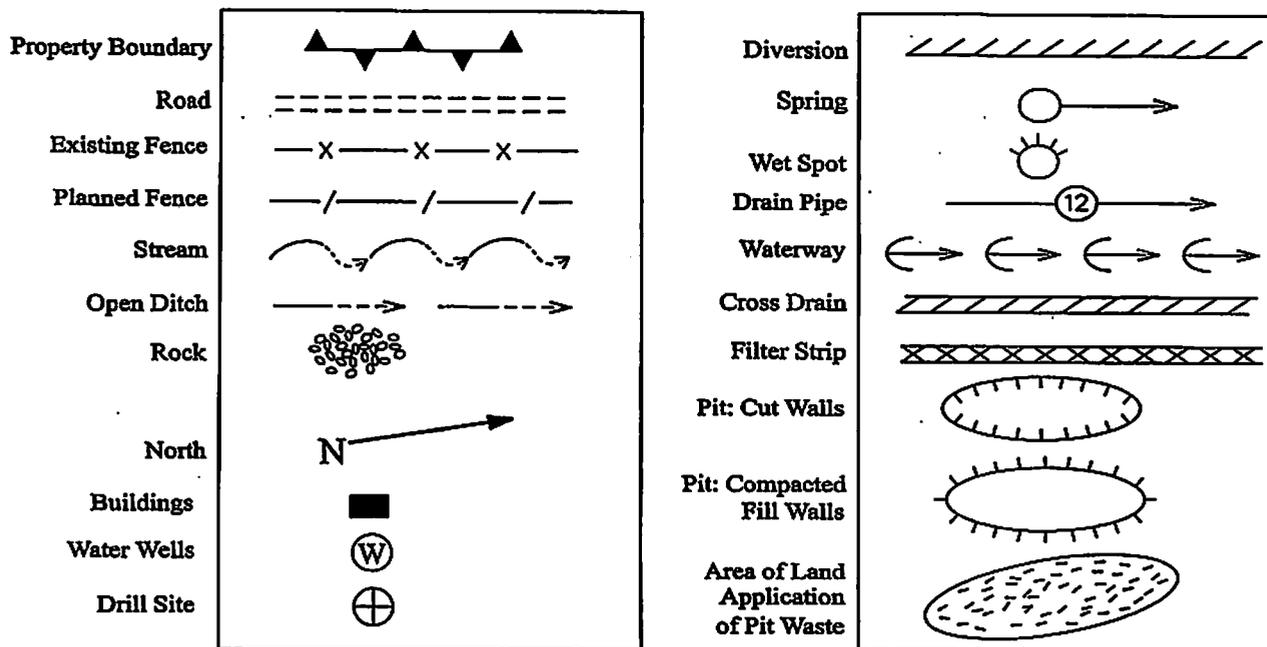
Permit expires _____ unless plugging is commenced prior to that date and prosecuted with due diligence.

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.

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: *Bill Mackintosh*

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:
(a) Name Joseph & Leona Wolfe Jr.
Address 698 Thomas Run Road
Blacksville, WV 26521
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector John Shockey
Address 1550 Cost Avenue Apt. 31
Stonewood, WV 26301
Telephone 380-2773

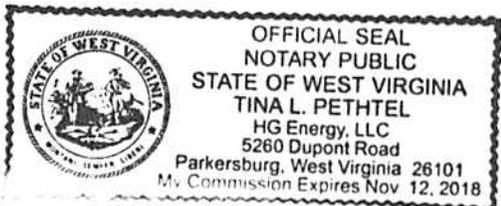
5) (a) Coal Operator:
Name Patriot Coal Corporation
Address 12312 Olive Boulevard
St. Louis, Missouri 63141
(b) Coal Owner(s) with Declaration
Name NA
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name NA
Address _____

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 intructions 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
My Commision Expires NOV 12, 2018
WV Department of Environmental Protection

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

For delivery information visit our website at 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	
Total Postage & Fees	\$ 7.40	



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

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	
Total Postage & Fees	\$ 7.40	



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

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.

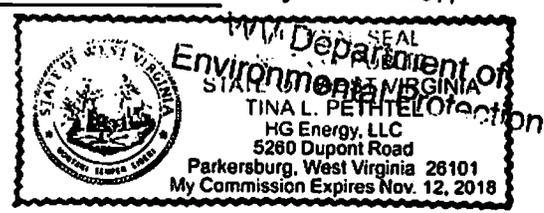
Company Official Signature Diane C White
Company Official (Typed Name) Diane C White
Company Official Title Accountant

Subscribed and sworn before me this 10 day of June 2014

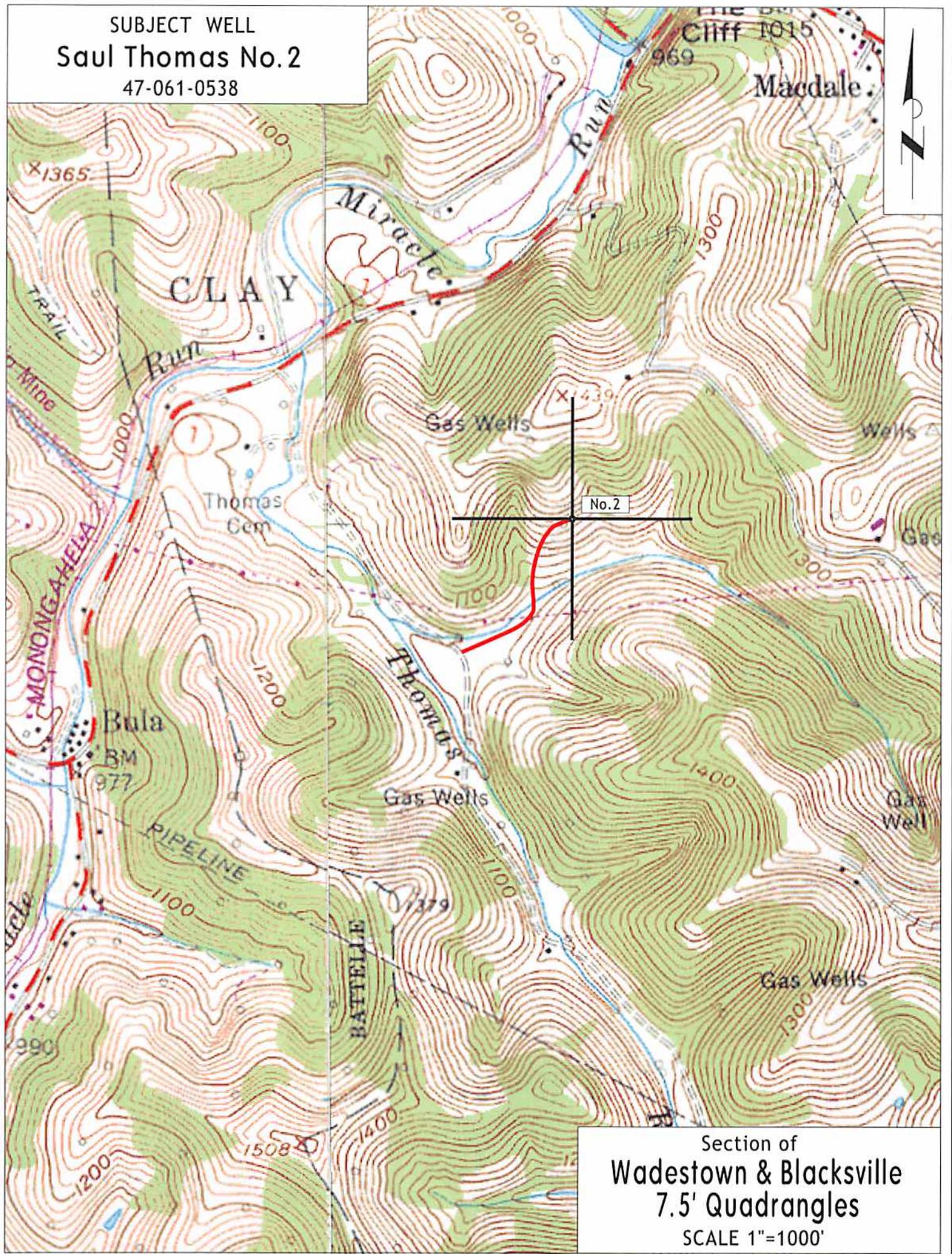
Tina L. Pethel

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

My commission expires NOV 12, 2018



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



Section of
Wadestown & Blacksville
7.5' Quadrangles
SCALE 1"=1000'

WW-7
8-30-06

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



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 57th 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

6100538P

WELL NO.		NAME		LEASE NO.		ACRES		N. 18 S.		E. 17 W.		DISTRICT		MANNINGTON															
DISTRICT		COUNTY		RECORD								CASING AND TUBING																	
DATE DATED		DATE COMMENCED		DATE COMPLETED		DATE RETRACTOR		DATE PURCHASED		DATE SHUT IN		DATE CONNECTED		DATE TURNED ON		DATE TURNED OFF		DATE DISCONNECTED		DATE SOLD		DATE RE-PURCHASED		DATE PLUGGED		DATE ABANDONED		ELEVATION ABOVE SEA LEVEL	
FORMATION		TOP		BOTTOM		OIL AT		GAS AT		WATER AT		FRESH OR SALT		SIZE		PUT IN WELL		PULLED		CEMENTED									
L. Lay		Monongalia		August 30, 1920 by J. W. S. Co.		September 5, 1920		March 24, 1921		Rolling Department		J. W. S. Co.		April 5, 1921		April 5, 1921		April 5, 1921		April 5, 1921		April 5, 1921		April 5, 1921		April 5, 1921		April 5, 1921	
Pittsburgh Coal		878		885										14 in. Casing						Date		M.D.							
Dunkard Sand		1306		1450										10 in. Casing		911'6"				Size Casing									
Salt Sand		1625		1892										8 1/2 in. Casing		1511'5"				Top		FL.							
Maxon Sand														6 1/2 in. Casing		1886'6"				Bottom		FL.							
Injun Sand		2156		2390		2300								5 1/2 in. Casing		3052'7"													
Berea Sand														2 in. Tubing		3194'6"		3194'6"											
Giantz Sand		2670		2697										2 in. Tubing		3194'6"													
Fifty Foot sand		2810		2875				2833						in. Tubing		149'9"		129'9"											
Thirty Foot Sand		2855		2914										4 1/2 x 4 in. line		120'		120'											
Stray Sand		3047		3052										"		149'8"		SHOOTING											
Gordon Sand		3090		3112				3155-37						DATE		QTS.		SAND		VOLUME BEFORE		VOLUME AFTER							
Fourth Sand		3128				3176-79								3-28-23		15		4 th		Shot for oil									
Fifth Sand														6-3-32		30		"		16.44. wt. 2.44. dr.									
Bayard Sand																													
Speechley Sand																													
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
5th Feb 25 1921			29/10	H	1								53,250	50 feet	2x8	W.D.	316.5
7th Mar 29																	3158
10th April 27 1923			4/10	H.	1/2								25 bbl oil per day	50 feet			
12th Aug 25 1922													15 bbl oil per day	50 feet			
													4 bbl oil per day				
INITIAL OIL PRODUCTION																	
DATE			BARRELS	SAND													
3-22-21			44 th	4 th													
3-25-21			53														
3-26-21			34														
3-28-21			40 th														
													ESTIMATED	BBL. WELL			

