



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

December 12, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301022, 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: 1
Farm Name: LONG, MARY B.
API Well Number: 47-10301022
Permit Type: Plugging
Date Issued: 12/12/2014

Promoting a healthy environment.

12/12/14

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.

10301022P

WW-4B
Rev. 2/01

- 1) Date September 30, 20 14
- 2) Operator's
Well No. Mary B. Long 1
- 3) API Well No. 47-103-1022

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 / Gas / Liquid injection / Waste disposal
(If "Gas, Production or Underground storage) Deep / Shallow
- 5) Location: Elevation 722' Watershed North Fork Creek
District Grant County Wetzel Quadrangle Pine Grove 7.5'
- 6) Well Operator HG Energy, LLC 7) Designated Agent Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
- 8) Oil and Gas Inspector to be notified
Name Derek Haught
Address P. O. Box 85
Smithville, WV 26178
- 9) Plugging Contractor
Name To Be Determined Upon Approval of Permit
Address _____

- 10) Work Order: The work order for the manner of plugging this well is as follows:
- | | |
|--|--|
| Casing: TD - 2594' | Perforate liner 2550 - 2450 (1 shot/10') |
| 8 1/4" - 1002' | Plug No. 1 - 2570' - 2400' (GORDON) |
| 6 5/8" - 1767' | Freepoint, cut & pull 5 3/16", est 1750' |
| 5 3/16" - 1860' | Plug No. 2 - 1800' - 1700' (INDON) |
| 5 3/16" liner - 2410' - 2562' | Freepoint, cut & pull 6 5/8", est 1000' |
| 6% gel between cement plugs | Plug No. 3 - 1050' - 950' (DUKANO) |
| If casing not removed over
Pittsburgh coal - rip on
perforate casing | Plug No. 4 - 775' - 675' (ELEVATION) |
| | Freepoint, cut & pull 8 1/4", est 500' |
| | Plug No. 5 - 545' - 445' |
| | Plug No. 6 - 100' - 0' |
| | SET MONUMENT |

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Received
Office of Oil & Gas
Work order approved by inspector [Signature] Date 10-16-14

NOV 07 2014

12/12/14

(Pgh. Record 200 A2)

Lease No. 24891

Acres 182

Farm Name

MARY B. LONG

Well No. 1

N9-10 S. E. W. 7-3
 Civil District Grant
 County Wetzel
 State W. Va.
 Oil Rights Owned By

Location Made
 Rig Completed
 Dr'g Commenced
 Dr'g Completed
 Dr'g Contractor

Purchased From
 Date Purchased
 Sold To
 Date Sold
 Date Abandoned

FORMATION

CASING RECORD

Kind	Top	Bottom	Steel Line Meas.	Tests
Stray Sand	2538			
Gordon Sand	2568			
1st. Pay	2570			
Total Depth	2594	See remarks		

Size	Bottom Casing Steel Line	Puf in Well Tally Meas.	Puffed Tally Meas.	Cemented
8 1/4"		1002		Date
6-5/8"		1767		Size Csg.
5-3/16"		1790	1790,	Top "
6-3/16"		153		Bot. "

Kind	Top	Bottom
Conductor		16
Coal, Pgh.	495	503
Dunkard Sand	995	1050
Hall Sand	1375	1440
Big Lime	1692	1748
Pencil Cave	1680	1692
Big Injun Snd.	1748	1993
Fifty Foot "	2297	2350
Stray Sand	2538	
Gordon Sand	2568	
1st. Pay	2570	
Total Depth		2594

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set

TORPEDO RECORD

Date	No. Qty	Size Shell	Top Shot	Bottom	Results
6-11-1906	60	6 Pige			
7-17-1922	80	4-4" 28	2570	2578	
8-19-1901	20	10" Long			

Elevation Top Csg head 727.21
 by AC Hilbert March 21, 1949

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD

Filled With	From	To	Size	Kind	Depth

10-52. Material (11000 cu ft)
 5-28-57 15,000

Oil Prod. Sand
 Gordon
 Oil Barrels

APPROVED
 Received
 Office of Oil & Gas
 NOV 07 2011

10301022P

WW-4A
Revised 6-07

1) Date: September 30, 2014
2) Operator's Well Number
Mary B. Long 1
3) API Well No.: 47 - 103 - 1022

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

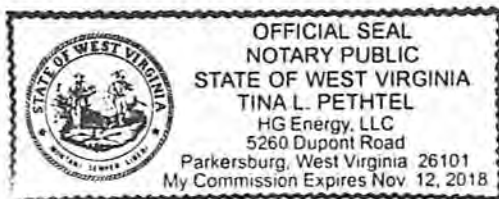
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Steven & Timothy Long</u>	Name _____
Address <u>P. O. Box 6</u>	Address _____
<u>Pine Grove, WV 26419</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name <u>CONSOL Energy</u>
_____	Address <u>1000 CONSOL Energy Drive</u>
Telephone _____	<u>Cannonsburg, PA 15317</u>

TO THE PERSONS 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 its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses 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 White*
 Its: Agent
 Address 5260 Dupont Road
Parkersburg, WV 26101
 Telephone 304-420-1119

Received
Office of Oil & Gas
NOV 07 2014

Subscribed and sworn before me this 30 day of September 2014
Tina L. Pethtel Notary Public
My Commission Expires 11/12/2018

Oil and 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 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.

CK 2791 \$10000

12/12/14

10301022P

7013 1090 0002 3242 9269

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

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



Sent To: Steven & Timothy Long
 Street Apt. No., P.O. Box & Pine Grove WV 26419
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7012 3460 0002 6850 6385

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

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



Sent To: Consol Energy
 Street Apt. No., Energy Drive
 or P.O. Box No. 1000 Consol Energy Drive
 City, State, ZIP+4 Cannonsburg PA 15317

PS Form 3800, August 2006 See Reverse for Instructions

Received
 Office of Oil & Gas
 NOV 07 2014

12/12/14

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

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

Operator Name HG Energy, LLC OP Code 494497948

Watershed North Fork Creek Quadrangle Pine Grove 7.5' 548

Elevation 722' County Wetzel District Grant 4

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

Will a synthetic liner be used in the pit? Yes 20ml

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 _____)

*DMH
10-16-14*

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 White

Company Official (Typed Name) Diane White

Company Official Title Agent

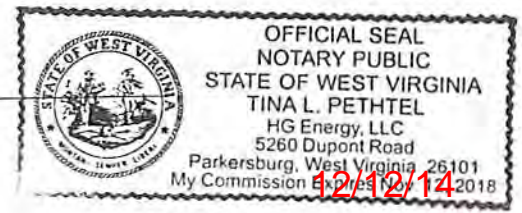
Received
Office of Oil & Gas

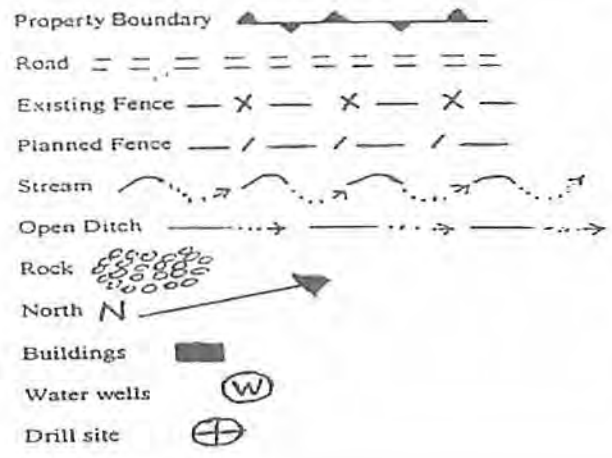
Subscribed and sworn before me this 30 day of September, 2014

NOV 07 2014

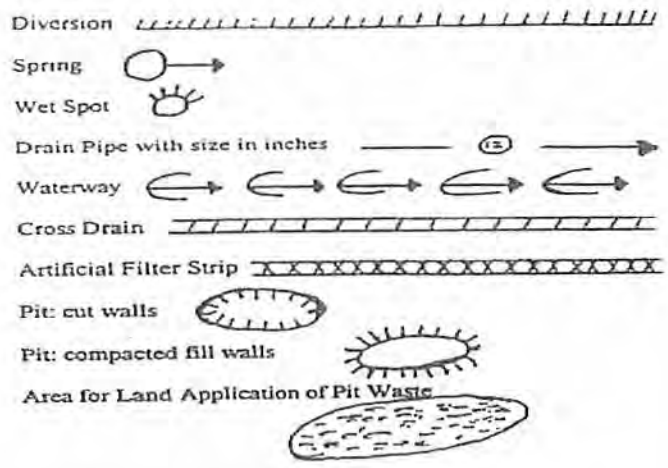
Tina L. Pethel Notary Public

My commission expires Nov 10, 2018





LEGEND



Proposed Revegetation Treatment: Acres Disturbed .75 acres Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Tall Fescue		40
Ladino Clover		5

Seed Type	Area II	lbs/acre
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: _____

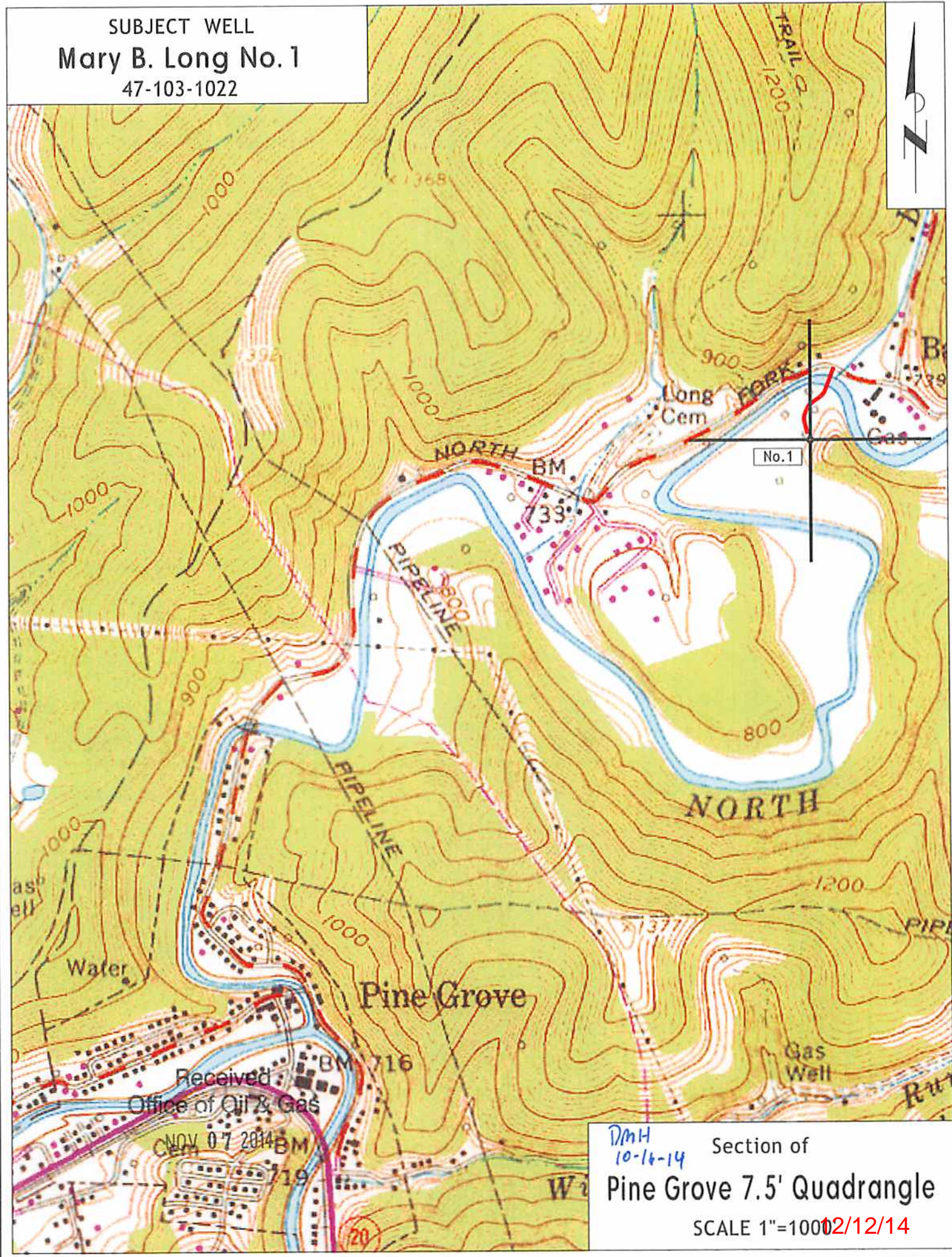
Received
Office of Oil & Gas
NOV 07 2014

Title: Oil & Gas Inspector

Date: 10-16-14

Field Reviewed? Yes No

SUBJECT WELL
Mary B. Long No. 1
47-103-1022



Received
Office of Oil & Gas
NOV 07 2014

DMH
10-16-14 Section of
Pine Grove 7.5' Quadrangle
SCALE 1"=1000' 12/12/14

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47-0103 - 1022 WELL NO: No.1

FARM NAME: Mary B. Long

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Pine Grove 7.5'

SURFACE OWNER: Steven & Timothy Long

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,381,021

UTM GPS EASTING: 528,953 GPS ELEVATION: 220 m.

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 White Diane White
Signature

September 4, 2014
Date

Designated Agent
Title

Received
Office of Oil & Gas
NOV 07 2014



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

10301022P

September 30, 2014

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

RE: Mary B. Long No. 1 (47-103-1022)
Grant District, Wetzel 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

Received
Office of Oil & Gas

NOV 07 2014

Enclosures

cc:

Steven & Timothy Long – Certified
CONSOL Energy - Certified
Derek Haught - Inspector

12/12/14