



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

June 29, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9501748, 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: SILAS WYATT 6
Farm Name: WADSWORTH, YVONNE
API Well Number: 47-9501748
Permit Type: Plugging
Date Issued: 06/29/2015

Promoting a healthy environment.

07/03/2015

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 February 23, 2015
2) Operator's
Well No. Silas Wyatt 6
3) API Well No. 47-121 - 0123

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 _____ or Underground storage _____) Deep _____ / Shallow _____
- 5) Location: Elevation 913' Watershed Stackpole Run
District McElroy County Tyler Quadrangle Centerpoint 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 Michael Goff
Address P. O. Box 134
Pullman, WV 26421
- 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:

Manner of Plugging:

- Plug No. 1 - 2925' - 2825'
- Free point, cut and pull 4 1/2" approx. 1850'
- Plug No. 2 - 1900' - 1800'
- Plug No. 3 - ~~860'~~ - 680' *JO.*
- Plug No. 4 - 450' - 350'
- Plug No. 5 - 100' - 0'

CEMENT PLUGS - CLASS
A CEMENT WITH NO
MORE THAN 3% CaCl₂
AND NO OTHER ADDITIVES

FOLLOW WV CODE RULES FOR
MONUMENT

6% Gel Between all plugs.

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

Work order approved by inspector: Michael Goff Date 4-20-2015

Received
Office of Oil & Gas

APR 29 2015

07/03/2015

9501748P

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

Well Operator's Report of Well Work

Well name: WADSWORTH, YVONNE
LOCATION: Elevation: 913.00
District: MCELROY
Latitude: 3,200 Feet south of
Longitude: 8,850 Feet west of

Operator Well No.: WYATT 6
Quadrangle: CENTERPOINT 7.5'
County: TYLER
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 06/23/03
Well work Commenced: 03/24/04
Well work Completed: 04/24/04

Verbal plugging
Permission granted on:
Rotary Cable _____ Rig
Total Depth (feet) 3020
Fresh water depths (ft) NA

Salt water depths (ft) NA
NA

Is coal being mined in area (Y/N) N
Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	394.00'	394.00'	200 sks
4 1/2"	2986.50'	2986.50'	300 sks

OPEN FLOW DATA

Waterflood producer

This well was directionally drilled with bottom hole location 707' S and 160' E of surface location

Producing formation Gordon Pay zone depth (ft) 2962-2974
Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
Final open flow * MCF/d Final open flow * Bbl/d
Time of open flow between initial and final tests * Hours
Static rock pressure * psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock pressure psig (surface pressure) after Hours

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 GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Received
Office of Oil & Gas
APR 29 2015

For: EAST RESOURCES, INC.

By: _____
Date: 5/15/04

Treatment :

Treated perforations 2964'-2974' w/ 250 gals 15% HCL, 325 Bbls cross linked gel and 20,000 # 20/40 sand

Well Log :

0	574	Sand and Shale
574	621	Sand
621	810	Shale
810	838	Sand
838	1132	Shale
1132	1208	Sand
1208	1234	Shale
1234	1258	Sand
1258	1440	Shale
1440	1498	Sand
1498	1616	Shale
1616	1698	Sand
1698	1862	Shale
1862	1885	Sand
1885	1964	Shale
1964	1992	Sand
1992	2106	Shale
2106	2144	Sand
2144	2212	Big Lime
2212	2364	Big Injun
2364	2938	Shale
2938	2957	Gordon Stray
2957	2975	Gordon
2975	3020	Shale

Received
Office of Oil & Gas
APR 29 2015

WW-4A
Revised 6-07

CK# 2953
100.00

1) Date: February 23, 2015
2) Operator's Well Number
Silas Wyatt 6
3) API Well No.: 47 - 095 - 01748

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

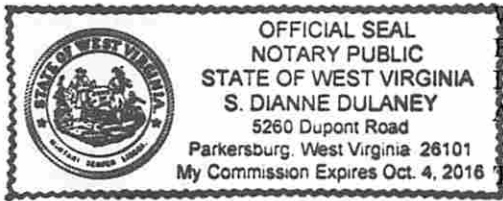
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name Randy & Terry Wadsworth	Name NA
Address HC 62, P. O. Box 75	Address
Alvy, WV 26377	
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name NA
	Address
(c) Name	Name
Address	Address
6) Inspector Michael Goff	(c) Coal Lessee with Declaration
Address P. O. Box 134	Name NA
Pullman, WV 26421	Address
Telephone 304-549-9823	

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
APR 29 2015

Subscribed and sworn before me this 23th day of February, 2015
S. Dianne Dulaney Notary Public
My Commission Expires Oct. 4, 2016

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 depprivacyofficer@wv.gov.

950748P

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CERTIFIED MAIL™ RECEIPT
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OFFICIAL USE

7034 0510 0000 4074 5804

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

Postmark
Here
FEB 23 2015

5W56

Sent To	Randy & Terry Wadsworth
Street, Apt. No.; or PO Box No.	HC 62, Box 75
City, State, ZIP+4	Alvy WV 26377

PS Form 3800, August 2005

See Reverse for Instructions

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APR 29 2015

07/03/2015

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 095 - 01748
Operator's Well No. Silas Wyatt 6

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 Stackpole Run Quadrangle Centerpoint 7.5'

Elevation 913' County Tyler District McElroy

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

Will a synthetic liner be used in the pit? Yes

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 _____)

MAG
4/20/2015

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

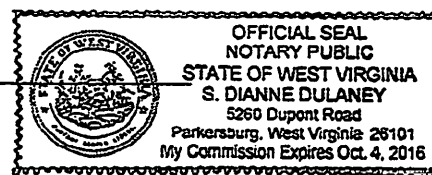
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APR 29 2015

Subscribed and sworn before me this 23th day of February, 2015

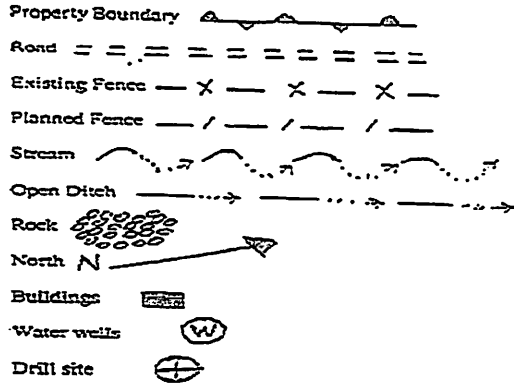
[Signature] Notary Public

My commission expires Oct. 4, 2016

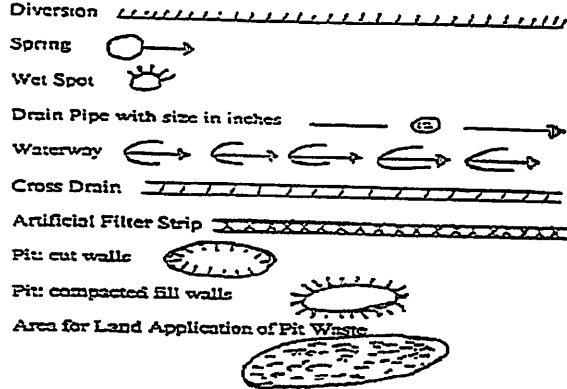


Form WW-9

Operator's Well No. Silas Wyatt 6



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 0.5 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

****Sediment Control in place at all times****

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Goff

Comments: Preseed & Mulch disturbed areas

Title: Oil & Gas Inspector

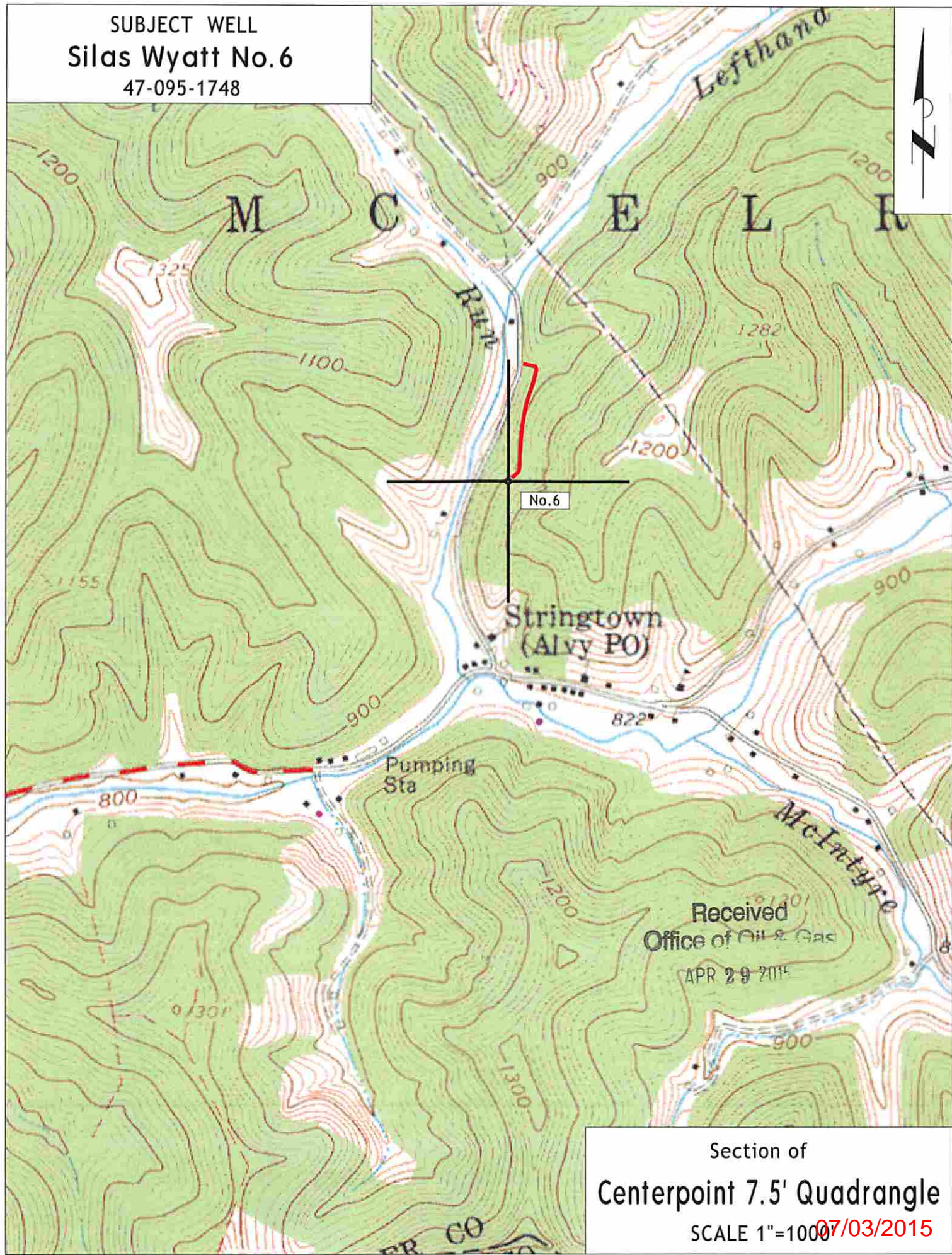
Date: 4/20/2015

Field Reviewed? Yes

No

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APR 29 2015

SUBJECT WELL
Silas Wyatt No.6
47-095-1748



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APR 29 2015

Section of
Centerpoint 7.5' Quadrangle
SCALE 1"=1000' 07/03/2015

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 095 -01748 WELL NO: No.6

FARM NAME: Silas Wyatt

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Tyler DISTRICT: McElroy

QUADRANGLE: Centerpoint 7.5'

SURFACE OWNER: Randy & Terry Wadsworth

ROYALTY OWNER: American Energy Partners LLC, et al.

UTM GPS NORTHING: 4,366,718

UTM GPS EASTING: 526,003 GPS ELEVATION: 278 m. (912ft)

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

February 19, 2015
Date

Designated Agent
Title

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Office of Oil & Gas
APR 29 2015

I
now

Operator: HG ENERGY, LLC
API: 9501748
WELL No: SILAS WYATT 6
Reviewed by: J. W. M. Date: 6/23/15
15 Day End of Comment: 05/04/15

CHECKLIST FOR FILING A PERMIT

Plugging

OK # 2953
\$100⁰⁰

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)

07/03/2015