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 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.

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.

9501748P

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.

9501746P

WW-4B
Rev. 2/01

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

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
Address 5260 Dupont Road
Parkersburg, WV 26101

7) Designated Agent Diane White
Address 5260 Dupont Road
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 - 760' - 680'

Plug No. 4 - 450' - 350'

Plug No. 5 - 100' - 0'

6% Gel Between all plugs.

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

FOLLOW WV CODE RULES FOR MONUMENT

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

R-35

23-Jun-05

API # 47 095 1748

9501748P

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

Well Operator's Report of Well Work

ırm name: WADSWORTH, YVONNE

Operator Well No.: WYATT 6

OCATION: Elevation: 913.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 3,200 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 8,850 Feet west of 80 Deg 40 Min 00 Sec.

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

.gent: PHILIP S. ONDRUSEK

ıspector: MIKE UNDERWOOD

ermit Issued: 06/23/03

Vell work Commenced: 03/24/04

Vell work Completed: 04/24/04

'erbal plugging
ermission granted on:

:otary X Cable Rig

'otal Depth (feet) 3020

'resh water depths (ft) NA

:alt water depths (ft) NA
NA

s coal being mined in area (Y/N) N

:oal Depths (ft): NA

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

)PEN 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

9501748P

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

9501748P

CK# 2953 100.00

WW-4A
Revised 6-07

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 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name Randy & Terry Wadsworth
Address HC 62, P. O. Box 75
Alvy, WV 26377

(b) Name
Address

(c) Name
Address

6) Inspector Michael Goff
Address P. O. Box 134
Pullman, WV 26421
Telephone 304-549-9823

5) (a) Coal Operator
Name NA
Address

(b) Coal Owner(s) with Declaration
Name NA
Address

Name
Address

(c) Coal Lessee with Declaration
Name NA
Address

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
S. DIANNE DULANEY
5260 Dupont Road
Parkersburg, West Virginia 26101
My Commission Expires Oct. 4, 2016

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 depprivacyoffier@wv.gov.

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U.S. Postal Service™
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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

Postmark Here

FEB 23 2015

SWSB

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 2006 — See Reverse for Instructions

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Office of Oil & Gas
APR 29 2015

9501748P

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.

MAC
4/20/2015

Proposed Disposal Method For Treated Pit Wastes:
- x Land Application
- _____ Underground Injection (UIC Permit Number _____)
- _____ Reuse (at API Number _____)
- _____ Off Site Dispposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____)

Proposed Work For Which Pit Will Be Used:
- _____ Drilling
- _____ Workover
- _____ Other (Explain _____)
- _____ Swabbing
- x 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, 20 15

S. Dianne Dulaney Notory Public

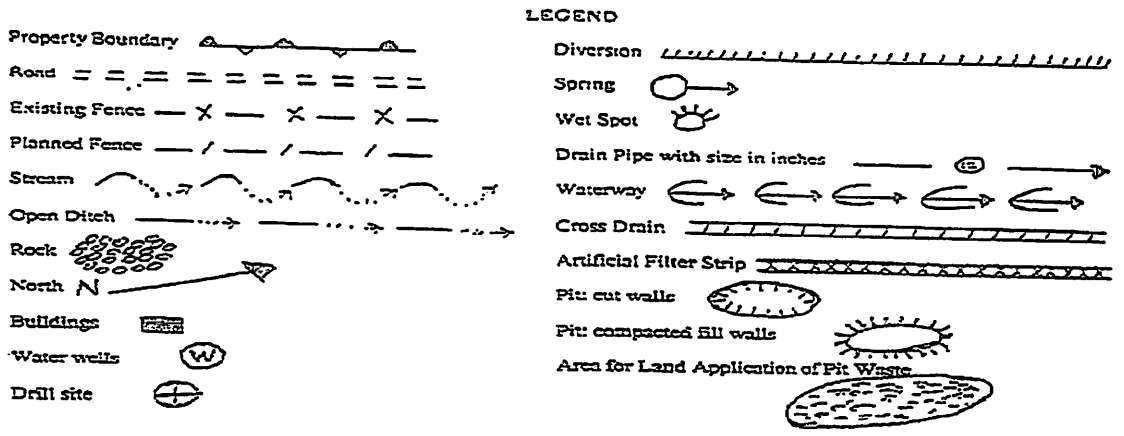
My commission expires Oct. 4, 2016

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
S. DIANNE DULANEY
5260 Dupont Road
Parkersburg, West Virginia 26101
My Commission Expires Oct. 4, 2016

9501748P

Form WW-9

Operator's Well No. Silas Wyatt 6



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

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

Comments: Preseed & Mulch disturbed areas

Title: Oil & Gas Inspector Date: 4/20/2015

Field Reviewed? ( ) Yes (✓) No

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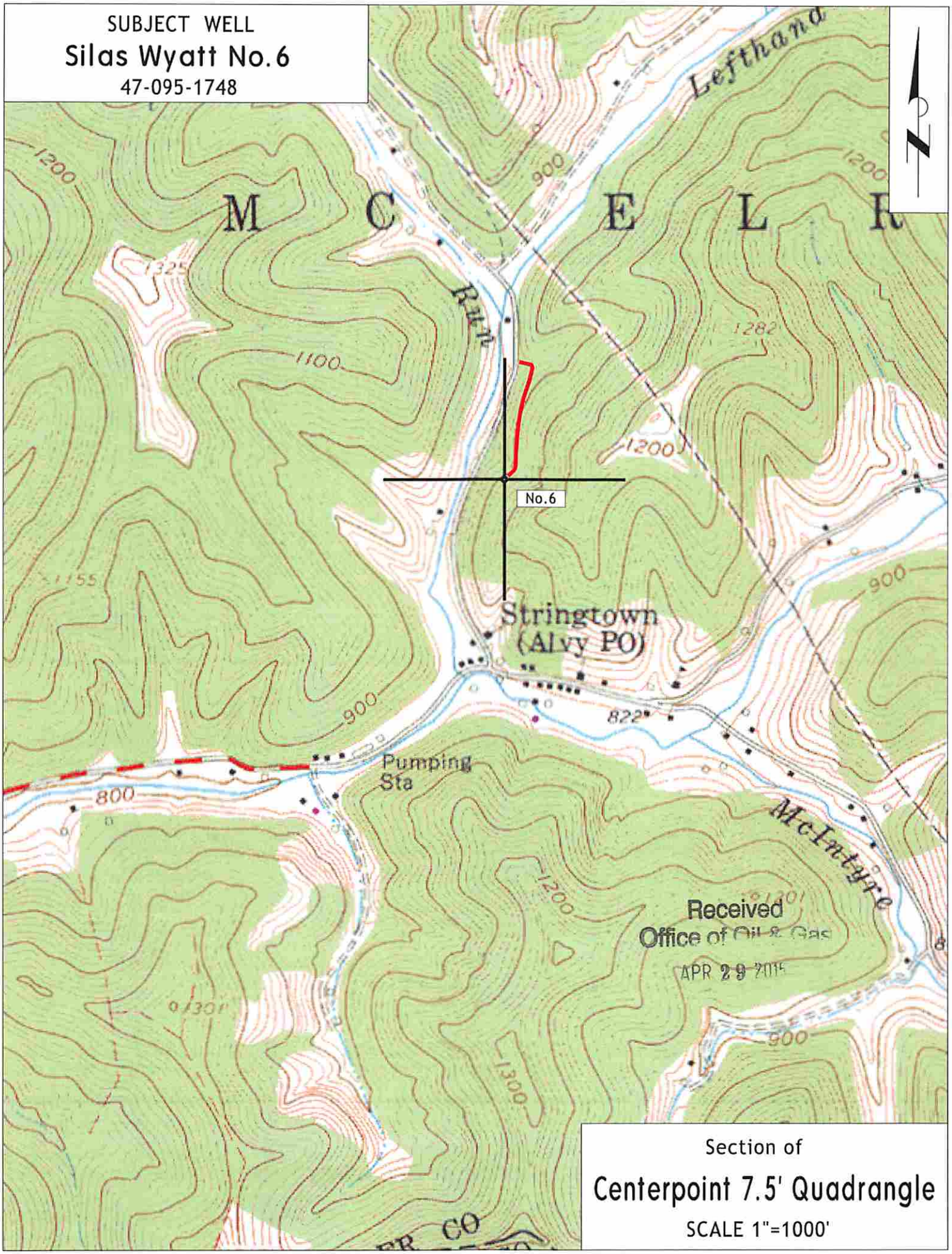
Office of Oil & Gas
APR 29 2015

9501748P

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'

95 01748 P

WW-7
5-02

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. (912)

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	___	Post Processed Differential	___
		Real-Time Differential	___
Mapping Grade GPS	X	Post Processed Differential	X
		Real-Time Differential	___

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 — Designated Agent

Signature — Title

February 19, 2015

Date

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Office of Oil & Gas
APR 29 2015

T
NOW

Operator: HG ENERGY, LLC

API: 9501748

WELL No: SILAS WYATT 6

Reviewed by: JW Date: 6/23/15

15 Day End of Comment: 05/04/15

CHECKLIST FOR FILING A PERMIT

Plugging

ck # 2953
$100.00

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

OR

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