



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: 47-9501126, 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: F. R. BALL 19
Farm Name: HAYES, BETTY J.
API Well Number: 47-9501126
Permit Type: Plugging
Date Issued: 06/29/2015

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.



WR-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date January 23, 1986
Operator's
Well No. 19
Farm F. R. Ball
API No. 47 - 095 - 1126

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1139 Watershed Indian Creek
District: McElroy County Tyler Quadrangle Centerpoint 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, W.Va. 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, W.Va.
SURFACE OWNER Ralph O. Haves
ADDRESS Jacksonburg, W. Va. 26337
MINERAL RIGHTS OWNER Pennzoil Company
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS Gen. Delivery, Middlebourne, WV
PERMIT ISSUED 11-25-85
DRILLING COMMENCED 12-6-85
DRILLING COMPLETED 12-14-85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR FLOWING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1094	1094	450 sks
7			
5 1/2			
4 1/2	3139	3139	225 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3069 feet
Depth of completed well 3145 feet Rotary X / Cable Tools
Water strata depth: Fresh 120 feet; Salt 1560 feet
Coal seam depths: _____ Is coal being mined in the area? no

OPEN FLOW DATA Information Well Only -
To Be completed at Later Date
Producing formation _____ Pay zone depth _____ feet
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 measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

9501126A

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand			0	60	
Shale			60	86	
Sand			86	1130	
Shale			1130	1460	
Sand, Shale			1460	2246	
Little Lime			2246	2270	
Blue Monday			2270	2292	
Big Lime			2292	2366	
Loyalhanna			2366	2440	
Pocono Big Injun			2440	2518	
Pocono Shale			2518	3069	
Gordon			3069	3116	
Shale			3116	3145	
Total Depth				3145	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: *Charles A. Lewis*
Date: 1-23-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

95-01126P

Well Operator's Report of Well Work

Farm name: HAYES, RALPH & BETTY Operator Well No.: F. R. BALL 19

LOCATION: Elevation: 1196.50 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 1850 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 4700 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON
Permit Issued: 07/30/90
Well work Commenced: 11-21-90
Well work Completed: 12-7-90
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3171
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
SEE OLD	WELL RECORD		

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3092-3112
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 _____ Hour
Static rock Pressure _____ psig (surface pressure) after _____ Hour

Second producing formation N/A 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 _____ Hour
Static rock Pressure _____ psig (surface pressure) after _____ Hour

* No tests - water injection well.

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

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush
Date: April 11, 1991 Timothy P. Roush

9501126 P

Stimulation

Perforated: Gordon 3092-3112 - 20 holes

Treated w/300 gal. reg. HF acid, 292 Bbls. gelled water and 1500# 80/100 and 3500# 20/40 sand.

Well Log

See original record.

Received
Office of Oil & Gas

APR 29 2015

9501126 P

WW-4A
Revised 6-07

CK# 2952
100.00

1) Date: February 23, 2015
2) Operator's Well Number
FR Ball 19
3) API Well No.: 47 - 095 - 01126

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

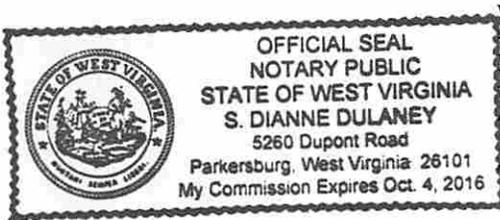
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name: Betty Jean Hayes	Name: NA
Address: HC 62, P. O. Box 43-A Jacksonburg, WV 26377	Address: _____
(b) Name: _____	(b) Coal Owner(s) with Declaration
Address: _____	Name: NA
(c) Name: _____	Address: _____
Address: _____	Name: _____
Address: _____	Address: _____
6) Inspector: Michael Goff	(c) Coal Lessee with Declaration
Address: P. O. Box 134	Name: NA
Address: Pullman, WV 26421	Address: _____
Telephone: 304-549-9823	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.



Well Operator: HG Energy, LLC
 By: Diane White *Diane White*
 Title: 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.

9501126P

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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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



Sent To Betty Jean Hayes

Street, Apt. No.;
or PO Box No. HC 62, P.O. Box 43-A

City, State, ZIP+4 Jacksonburg WV 26377

PS Form 3800, August 2006 See Reverse for Instructions

7013 1090 0002 3242 9849 6486 242E 2000 0607 ET02

9501126P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 095 - 01123
Operator's Well No. FR Ball 19

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 Indian Creek Quadrangle Centerpoint 7.5'

Elevation 1196.5' 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 20ML

MAG
4-20-2015

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 _____)

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

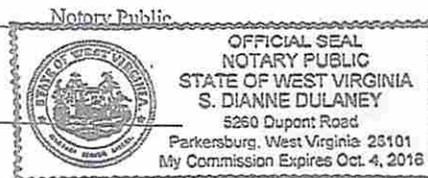
Received
Office of Oil & Gas

Subscribed and sworn before me this 23th day of February, 20 15

APR 29 2015

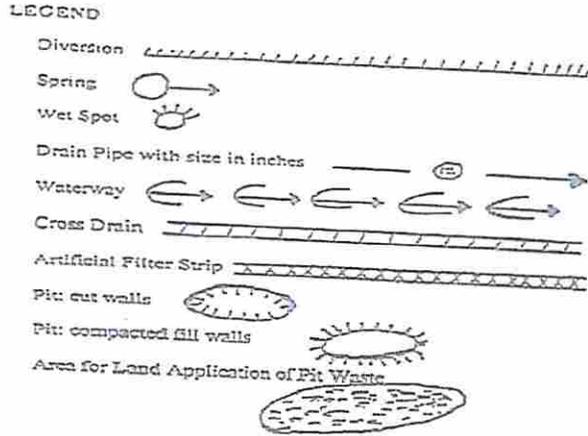
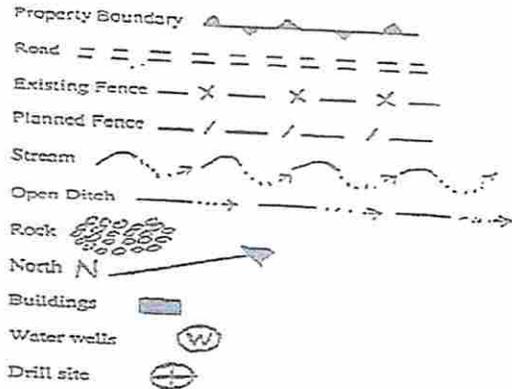
[Signature]

My commission expires Oct. 4, 2016



Form WW-9

Operator's Well No. FR Ball 19



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 Duff

Comments: Re-seed & Mulch any disturbed areas.

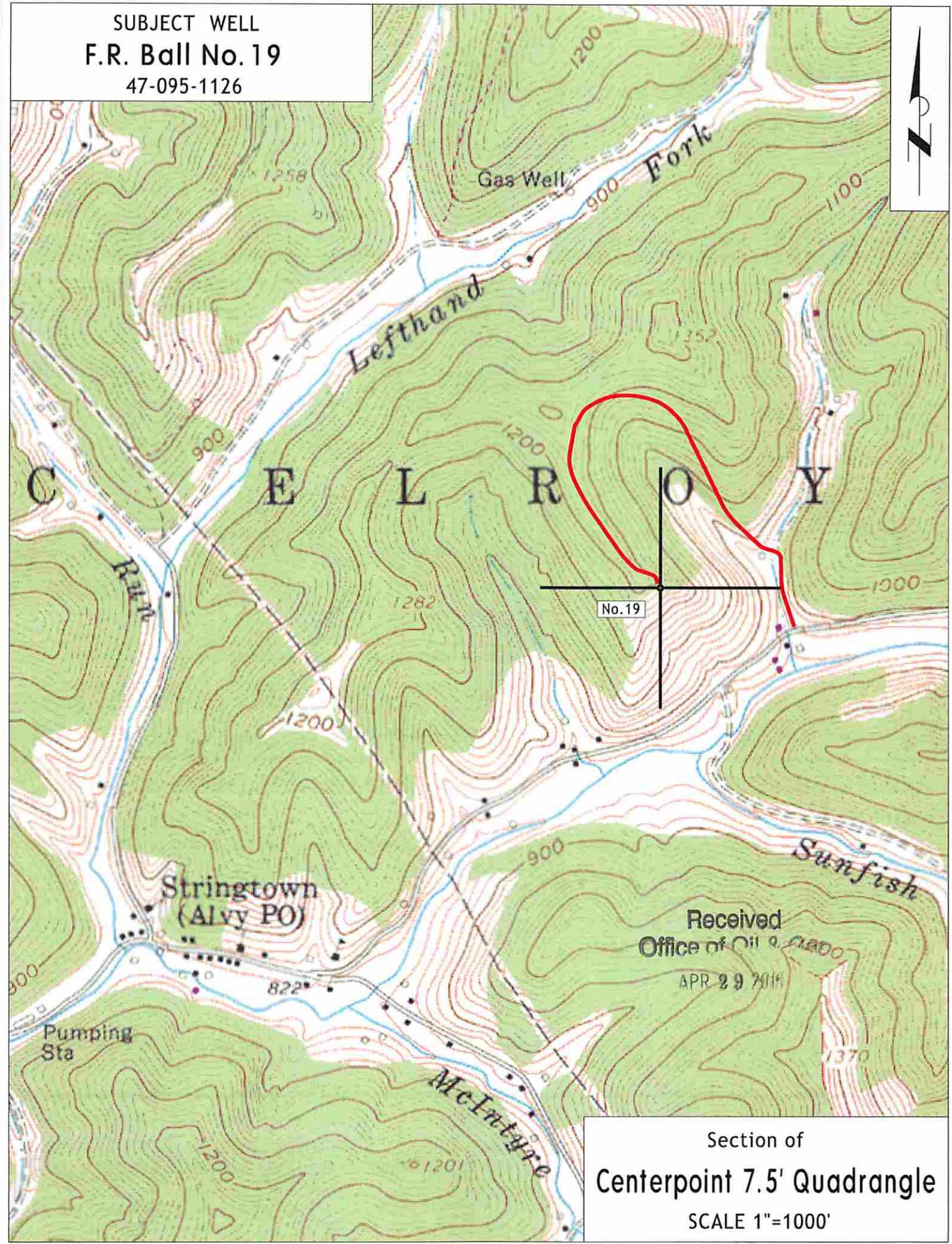
Title: Oil & Gas Inspector

Date: 4/20/2015

Field Reviewed? Yes No

Received
 Office of Oil & Gas
 APR 29 2015

SUBJECT WELL
F.R. Ball No. 19
47-095-1126



Section of
Centerpoint 7.5' Quadrangle
SCALE 1"=1000'

9501126P

WW-7
5-02

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 095 - 1126 WELL NO: No.19

FARM NAME: F.R. Ball

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Tyler DISTRICT: McElroy

QUADRANGLE: Centerpoint 7.5'

SURFACE OWNER: Betty Jean Hayes

ROYALTY OWNER: American Energy Partners LLC, et al.

UTM GPS NORTHING: 4,367,137

UTM GPS EASTING: 527,257 GPS ELEVATION: 367 m. (1204ft)

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
Signature

Designated Agent
Title

February 19, 2015
Date

Received
Office of Oil & Gas
APR 29 2015

I
now

Operator: HG ENERGY, LLC
API: 9501126
WELL No: F. R. BALL 19
Reviewed by: gwm Date: 6/23/15
15 Day End of Comment: 05/04/15

CHECKLIST FOR FILING A PERMIT

Plugging

CK # 2952
\$100.00

- 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)