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

August 12, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9501536, 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: J. H. DAWSON G-11
Farm Name: STACKPOLE, BEA - HEIRS
API Well Number: 47-9501536
Permit Type: Plugging
Date Issued: 08/12/2015

Promoting a healthy environment.

9501536P

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

9501536P

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's Well No. JH Dawson G-11
3) API Well No. 47- 095 - 1536

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 X

5) Location: Elevation 1228' 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:

"See Attached Sheet"

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WV Department of
Environmental Protection

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 7/14/15

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WW-4B
Rev. 2/01

1) Date: June 23, 2015
2) Operator's Well Number
J H Dawson G-11
3) API Well No: 47 - 095 - 1536
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 x

5) LOCATION: Elevation: 1228' Watershed: Stackpole Run
District: McElroy County: Tyler Quadrangle Centerpoint 7.5'

6) WELL OPERATOR: HG Energy, LLC 4.94E+08
Address 5260 Dupont Road
Parkersburg, WV 26101

7) DESIGNATED AGENT Diane White
Address 5260 Dupont Road
Parkersburg, WV 26101

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Michael Goff
Address PO 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:

TD- 3,190'

MAG
7/14/15

Manners of plugging;
Plug #1 3000' - 2900'
Located above highest preforation
Free point, part and pull 4 1/2" casing at approx. 1950'
Plug #2 - 2000' - 1900'
Located at 4 1/2" casing stub
Plug #3 -1275' - 1050'
Located at elevation and through the Pittsburgh Coal
Plug #4 - 525' - 425'
Located at 8 5/8" casing shoe, below Fresh Water
Plug #5 - 100' - 0'

Recover all possible casing. If casing can not be recovered, perforate for plug placement.

Monument:
6" minimum diameter metal pipe
30" above surface
10' in well below surface
Sealed with cement
API identification (1/2") height numbering

6% Gel between all plugs

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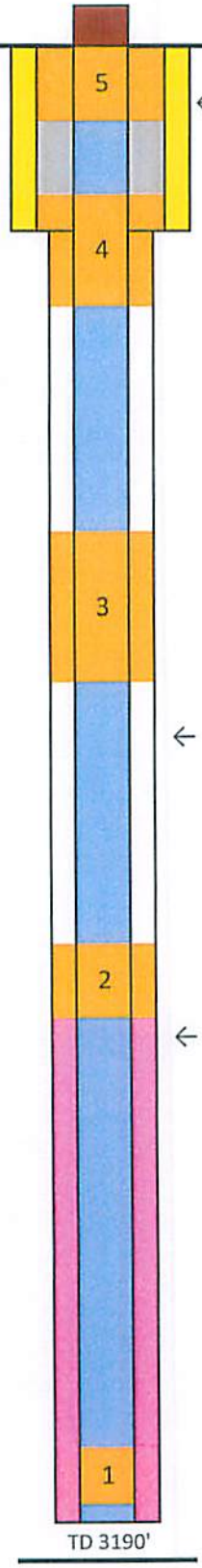
Well: J.H. Dawson G-11

Elevation: 1228'

Monument to extend 30" above surface. 10' into well. 6" min metal pipe, sealed with cement. API i.D.

Casing Information		
Size	Depth	Weight
8 5/8"	474'	20#/ft.
4 1/2"	3174'	10.5#/ft.



cement to surface

Freepoint Cut and Pull Casing	
Size	Approx. Depth
4 1/2	1950'

Cement Plugs		
N0.	Bottom	Top
1	3000	2900
2	2000	1900
3	1275	1050
4	525	425
5	100	0

Pittsburgh Coal 1108'

" Hole Size

MDG
7/14/15

Bottom Hole Cement Level Calculations

# Sacks Used	Cement Depth
300	2073.925

Hole Size	Casing Size	Depth
7.875	4.5	3190

diameter delta	Conv. Factor	bbls / ft.
41.765625	1029.4	0.040573

cubic ft. per vertical ft. depth
0.227795902

Sacks per vertical ft. depth
0.268799164

Yield options

50/50 posmix 6% gel = 1.64
Neat w/ salt flakes = 1.19
50/50 w/ 2% gel = 1.27

300 Sks Cement T.O.C. 2075'

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Highest Perforation 3112'

9501536P

API # 47- 95-01536

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

Well Operator's Report of Well Work

Farm name: STACKPOLE, BEA HEIRS Operator Well No.: J.H.DAWSON G-11

LOCATION: Elevation: 1228 Quadrangle: Centerpoint

District: MCELROY County: TYLER
Latitude: 11,500 Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 7,800 Feet West of 80 Deg. 40 Min. 00 Sec.

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

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD
Permit Issued: 05/28/93
Well work Commenced: 6-23-93
Well work Completed: 9-28-93
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 3190
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	474	474	100 Sks.
4 1/2	3174.70	3174.70	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3086 - 3140
Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/
Final open flow * MCF/d Final open flow * Bbl/
Time of open flow between initial and final tests Hour
Static rock Pressure psig (surface pressure) after Hour
* Waterflood Producer - Not Tested
Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/
Final open flow MCF/d Final open flow Bbl/
Time of open flow between initial and final tests Hour
Static rock Pressure psig (surface pressure) after Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WEL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY
By: [signature]
Date: 12/6/93

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TREATMENT:

PERFORATED: 3112 - 3115, 3120 - 3126 } 2 Holes Per Foot - 18 Holes

TREATED: 300 Gal. 15% HCL Acid & 288 Bbl. Gelled Water & 1500# 80/100 & 3500# 20/40 Sand

WELL LOG:

Sand & Shale	0 - 356
Sand	356 - 444
Sand & Shale	444 - 690
Sand	690 - 722
Sand & Shale	722 - 878
Limestone	878 - 926
Sand & Shale	926 - 1090
Sand	1090 - 1122
Sand & Shale	1122 - 1450
Sand	1450 - 1504
Sand & Shale	1504 - 1856
Sand	1856 - 1894
Sand & Shale	1894 - 2239
Little Lime	2239 - 2252
Pencil Cave	2252 - 2269
Blue Monday	2269 - 2300
Big Lime	2300 - 2366
Big Injun	2366 - 2528
Shale	2528 - 3086
Stray	3086 - 3140

T.D. 3190

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WV Department of
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WW-4A
Revised 6-07

CK# 3076
100.00

1) Date: June 23, 2015
2) Operator's Well Number
JH Dawson G-11

3) API Well No.: 47 - 095 - 1536

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 Allen D. Stackpole et al.
Address Route 1, Box 358
Middlebourne, WV 26149

(b) Name
Address

(c) Name
Address

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

MAG 1/14/15

5) (a) Coal Operator
Name NA
Address

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

Name NA
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

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WV Department of
Environmental Protection

Subscribed and sworn before me this 23rd day of June, 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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WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 095 - 1536
Operator's Well No. JH Dawson G-11

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 1228' 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 20 MIL.

MAG
7/14/15

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.

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Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

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

S Dianne Dulaney Notary 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

9501536P

Form WW-9

Operator's Well No. JH Dawson G-11

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells
Drill site
Diversion
Spring
Wet Spot
Drain Pipe with size in inches
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 0.8 Prevegetation pH _____

Lime 3 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 should be in place at all times

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

Photocopied section of involved 7.5' topographic sheet.

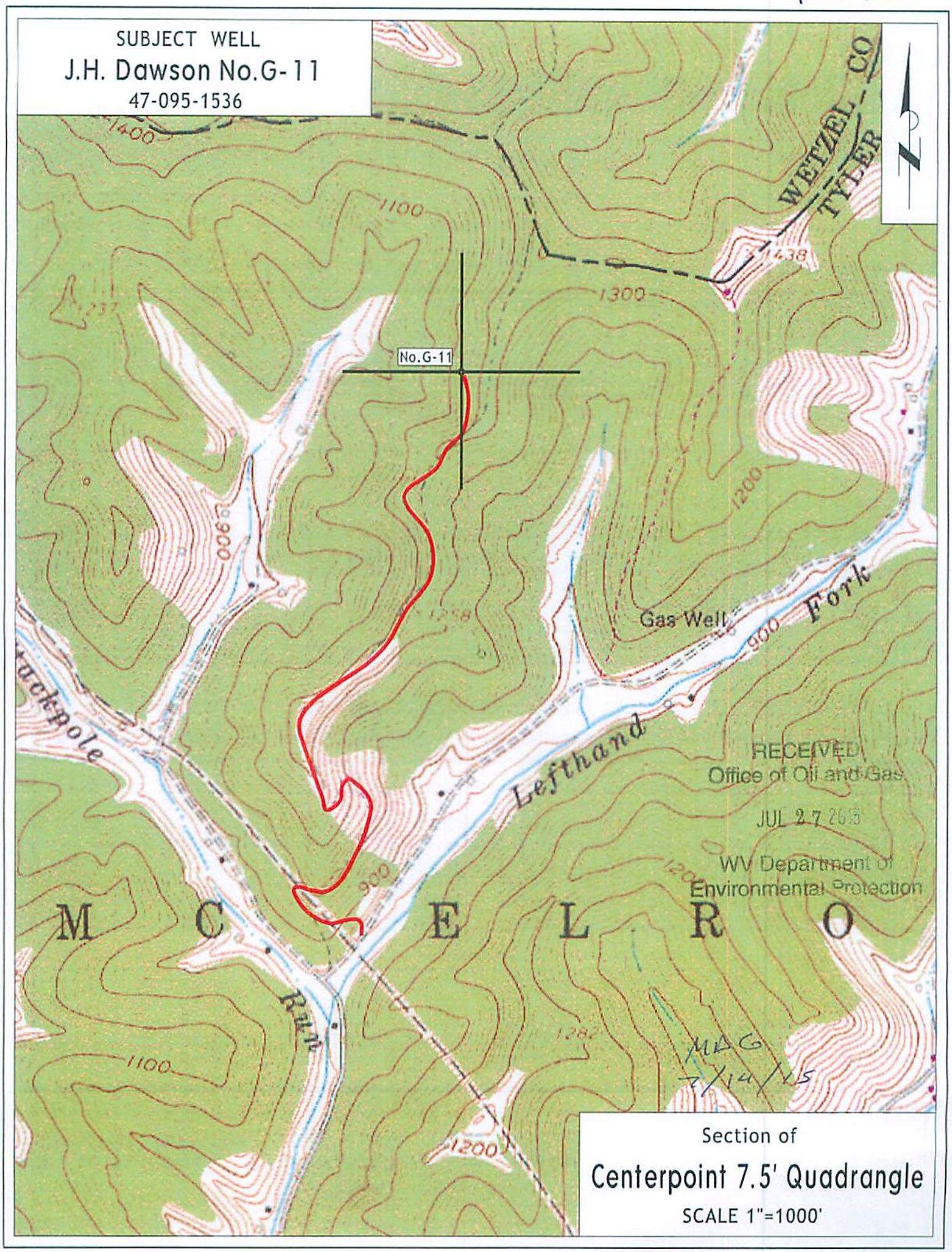
Plan Approved by: Michael Doff

Comments: Preseed & Mulch any disturbed areas.

Title: Oil & Gas Inspector Date: 7/14/15

Field Reviewed? (_____) Yes (✓) No

9501536P


SUBJECT WELL
J.H. Dawson No.G-11
47-095-1536
No.G-11
WETZEL CO
TYLER
1400
1100
1300
1438
1200
900
Gas Well
Fork
Lefthand
Run
M C E L R O
1282
1100
1200
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Environmental Protection
MDG
7/14/15
Section of
Centerpoint 7.5' Quadrangle
SCALE 1"=1000'

WW-7
5-02

MDG
7/14/15
9501536 P

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 095 - 1536 WELL NO: G-11

FARM NAME: J.H. Dawson No.G-11

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Tyler DISTRICT: McElroy

QUADRANGLE: Centerpoint 7.5'

SURFACE OWNER: Allen D. Stackpole et al.

ROYALTY OWNER: American Energy Partners, LLC et al.

UTM GPS NORTHING: 4,368,807 (NAD 83)

UTM GPS EASTING: 526,332 (NAD 83) GPS ELEVATION: 374 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	___	Post Processed Differential	___
		Real-Time Differential	___
Mapping Grade GPS	X	Post Processed Differential	X
		Real-Time Differential	___

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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 C. White — Designated Agent
Signature — Title

June 3, 2015
Date