



 west virginia department of environmental protection

Office of Oil and Gas
 601 57th Street, S.E.
 Charleston, WV 25304
 (304) 926-0450
 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, June 11, 2019

WELL WORK PLUGGING PERMIT
 Vertical Plugging

HG ENERGY, LLC
 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 1
 47-039-03295-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
 Chief

Operator's Well Number: 1
 Farm Name: DICKINSON FUEL CO.
 U.S. WELL NUMBER: 47-039-03295-00-00
 Vertical Plugging
 Date Issued: 6/11/2019

I

06/14/2019

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.

47-039-03295 P

06/14/2019

WW-4B
Rev. 2/01

- 1) Date March 8, 2019
- 2) Operator's
Well No. Dickinson Fuel No. 1
- 3) API Well No. 47-039 - 03295 P

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

CL#
4072
\$100.00

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 817' Watershed Coal River
District Washington County Kanawha Quadrangle Julian 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 Terry Urban
Address P. O. Box 1207
Clendenin, WV 25045
- 9) Plugging Contractor Name To Be Determined Upon Approval of the Permit
Address

10) Work Order: The work order for the manner of plugging this well is as follows:

- See Attached Sheet for the Plugging Manners -

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APR 9 2019
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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 _____ Date _____

47-039-03295P
06/14/2019

WW-4B - Conti
Rev. 2/01

1) Date: March 8, 2019
2) Operator's Well Number
Dickinson Fuel No. 1
3) API Well No: 47 - 039 - 3295
State County Permit

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

OK#
4072
\$110.02

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE: Oil _____ Gas x Liquid Injection _____ Waste Disposal _____ Observation _____
(If "Gas", Production x Underground Storage _____) Deep _____ Shallow x

5) LOCATION: Elevation: 817' Watershed: Coal River
District: Washington County: Kanawha Quadrangle Racine 7.5'

6) WELL OPERATOR: HG Energy II Appalachia, LLC 494519932 7) DESIGNATED AGENT Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name Terry Urban Name To Be Determined Upon Approval of Permit
Address P. O. Box 1207 Address _____
Clendenin, WV 25045 Address _____

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

TD- 1,560'

Manners of plugging:
10 3/4" - 338' CTS
7" - 1396'
Big Lime - 1375'-1555'

- SPOT GEL
- Plug No 1 1500' to 1300', cement plug # 1, Free point, cut & pull 7" - est 900'
- Plug No 2 950' to 850', cement plug 2 - adjusted to cover casing cut
- Plug No 3 830' - 730', cement plug 3
- Plug No 4 650' - 550', cement plug 4
- Plug No 5 390' - 290', cement plug 5
- Plug No 6 ~~100'~~ Surface, cement plug 6 (corr)
230'

Will cover all zones
casing cuts, elevations H₂O
4/4/19

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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SOUTH PENN NATURAL GAS CO.

NEW WELL REPORT

SE NO. 81630 257 ACRES WORKING DISTRICT Freeman No. 3

DICKINSON FUEL COMPANY FARM WELL No. 1 N. 83 E. 65 W. 65
 Map 123W

Washington DISTRICT OR TOWNSHIP Kanawha COUNTY Madison 06/14/2019

OPERATION MADE June 7 19 46
 COMMENCED - - 19
 COMPLETED - - 19
 CONTRACTOR - -

DRILLING COMMENCED July 23 19 46
 DRILLING COMPLETED September 4 19 46
 DEPTH 1618 SAND Big Injun
 DRILLING CONTRACTOR McComas & Black Drilling Co.
 WORK ORDER No. 3 - 1447 - C

ELEVATION: FLOOR 313.84 GROUND 316.54

FORMATION RECORD

KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST	KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST
	0	10							
	10	15							
	15	50							
	50	95							
	95	160							
l <u>Conc</u>	160	164							
te & Shells	164	202							
l <u>Conc</u>	202	205							
te	205	219							
d	219	266							
te	266	440							
er		320		2 Bail. Per Hr					
3/4" Casing		338	338	Steel line					
er		358		7 Bail. per Hr					
t. SALT Sand	440	670							
		600		Show					
ate	670	720							
l. SALT SAND	720	947							
s		780		Show					
5/8" Casing		885	885						
ate & Shells	947	1027							
l. SALT Sand	1027	1226							
ate	1226	2260							
d Rock	1260	1266							
ate & Shells	1266	1297							
XTON Sand	1297	1334							
ttle Line	1334	1373							
ncil Cave	1373	1375	1375						
G LIME	1375	1555	1555						
Casing		1396	1396						
s	1501	1505		Show					
s	1530	1540		100/10" W 2" Op. 421 M c.f. Blew down and tubed at 60/10" W 2" Op 327 M c.f.t.					
G INJUN Sand	1555	1614							
ate	1614	1618	1618						
TOTAL DEPTH		1618							
illed back	1618	1560	1560						
RECENT TOTAL DEPTH		1560							

NEW WELL REPORT - CONT'D

INITIAL TORPEDO RECORD		CASING AND TUBING RECORD						
		SIZE	PUT IN WELL			PULLED OUT		
Date of Shot	September 10, 1946		TRANSFER NO.	FEET	INCH	TRANSFER NO.	FEET	INCH
Name of Torpedo Co.	James G. Vandergrift	10-3/4		338				
No. of Quarts	1500 Gal. Acid	8-5/8		885		885		
Length of Shell		7		1396		06/14/2019		
Diameter of Shell		2"		1560				
Length of Anchor								
Top of Shot	1395 - 1560							
Bottom of Shot								
Feet of Fluid in Hole When Shot								
Results:	Increased gas from 327,000 Cuft. to 696,000 Cuft.							

PACKER RECORD				
INITIAL PRODUCTION FIRST 24 HOURS	KIND	SIZE	DEPTH SET	DATE SET
Oil	con. Sl. Gas Anchor	2x7x16	1495	Sept. 6, 1946
Gas	421,000 Cuft.			

REMARKS: 10-3/4" casing left in well as it was cemented from top to bottom to case off coal being had trouble in setting 8-5/8" casing in order to shut water off. Well was acidized Sept. 10, 1946. Gas test when acidized 60/10" Wat. 2" Op. 327,000 Cuft. 24 Hr. Rock Pressure 250#. Well took 1,500 Gal. acid under no pressure. Started to blow back in 15 Min. after acid was run and continued to blow and clean itself. Gas test after acidizing 20/10" Mer. 2" Opening 696,000 Cuft. Well was then shut in for 12 Hrs. Rock pressure was only 110#. Well lost its original rock pressure as it was feeding into Cambridge Gas Co. Gillespie well located 1,100' south.

APPROVED

J. H. Summitt

SUPERINTENDENT

WW-4A
Revised 6-07

1) Date: March 8, 2019
2) Operator's Well Number
Dickinson Fuel No. 1
3) API Well No.: 47 - 039 - 03295

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>Dickinson Fuel Company</u> ✓	Name <u>NA</u>
Address <u>P.O. Box 311</u>	Address _____
<u>Charleston, WV 25321</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 1207</u>	Name <u>NA</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</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.

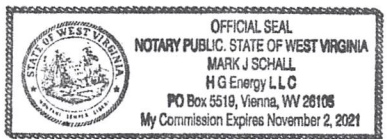
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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.

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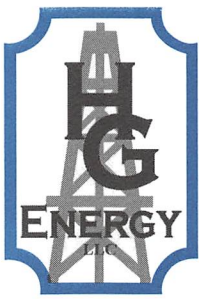
Well Operator HG Energy, LLC
 By: Diane White *Diane White* WV Department of Environmental Protection
 Its: Agent
 Address 5260 Dupont Road
Parkersburg, WV 26101
 Telephone 304-420-1119



Subscribed and sworn before me this 8th day of MARCH 2019
[Signature] Notary Public
My Commission Expires 11/2/2021

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.



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

47-039-03295A
06/14/2019

March 8, 2019

Dickinson Fuel Company
P. O. Box 311
Charleston, WV 25321

RE: Dickinson Fuel No. 1 (47-039-03295)
Washington District, Kanawha County
West Virginia

Dear Landowner:

Enclosed are copies of various application papers that we have filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a landowner are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

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Environmental Protection

Enclosures

WW-9
(5/16)

API Number 47 - 039 - 03295
Operator's Well No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948

Watershed (HUC 10) Coal River Quadrangle Racine 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Fluids encountered while plugging the well

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Any well effluent will be contained in tanks until disposed of off site at an approved disposal site.)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? To be determined upon approval of the plugging permit

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Environmental Protection

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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

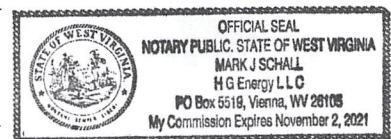
Company Official Title Agent

Subscribed and sworn before me this 8th day of MARCH, 2019

[Signature]

Notary Public

My commission expires 11/2/2021



06/14/2019

Form WW-9

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed 1.2 Acres Prevegetation pH _____

Line 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10/20/20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

- Sediment Control Will Be In Place At All Times -

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

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WV Department of
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Title: Inspector Del Elias

Date: 4/4/19

Field Reviewed? Yes No

WW-9- GPP
Rev. 5/16

Page 1 of 2
API Number 47 - 039 - 03295
Operator's Well No. _____

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

Operator Name: HG Energy, LLC
Watershed (HUC 10): Coal River Quad: Racine 7.5'
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

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4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

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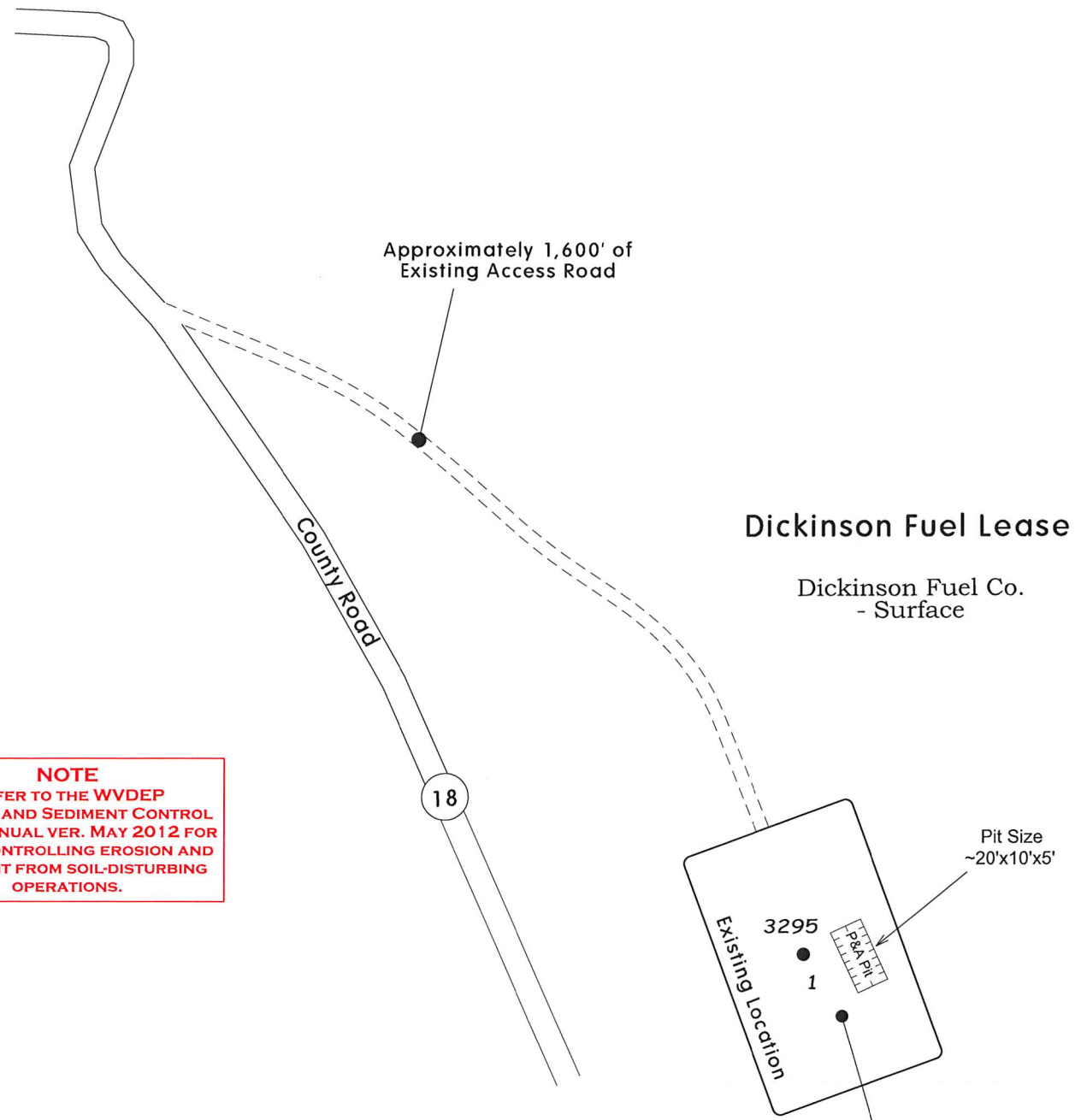
Signature: Diane White

Date: 3-8-19

06/14/2019

Reclamation Plan For:

Dickinson Fuel No. 1 47-039-3295



NOTE
 REFER TO THE WVDEP
 EROSION AND SEDIMENT CONTROL
 FIELD MANUAL VER. MAY 2012 FOR
 BMPs CONTROLLING EROSION AND
 SEDIMENT FROM SOIL-DISTURBING
 OPERATIONS.

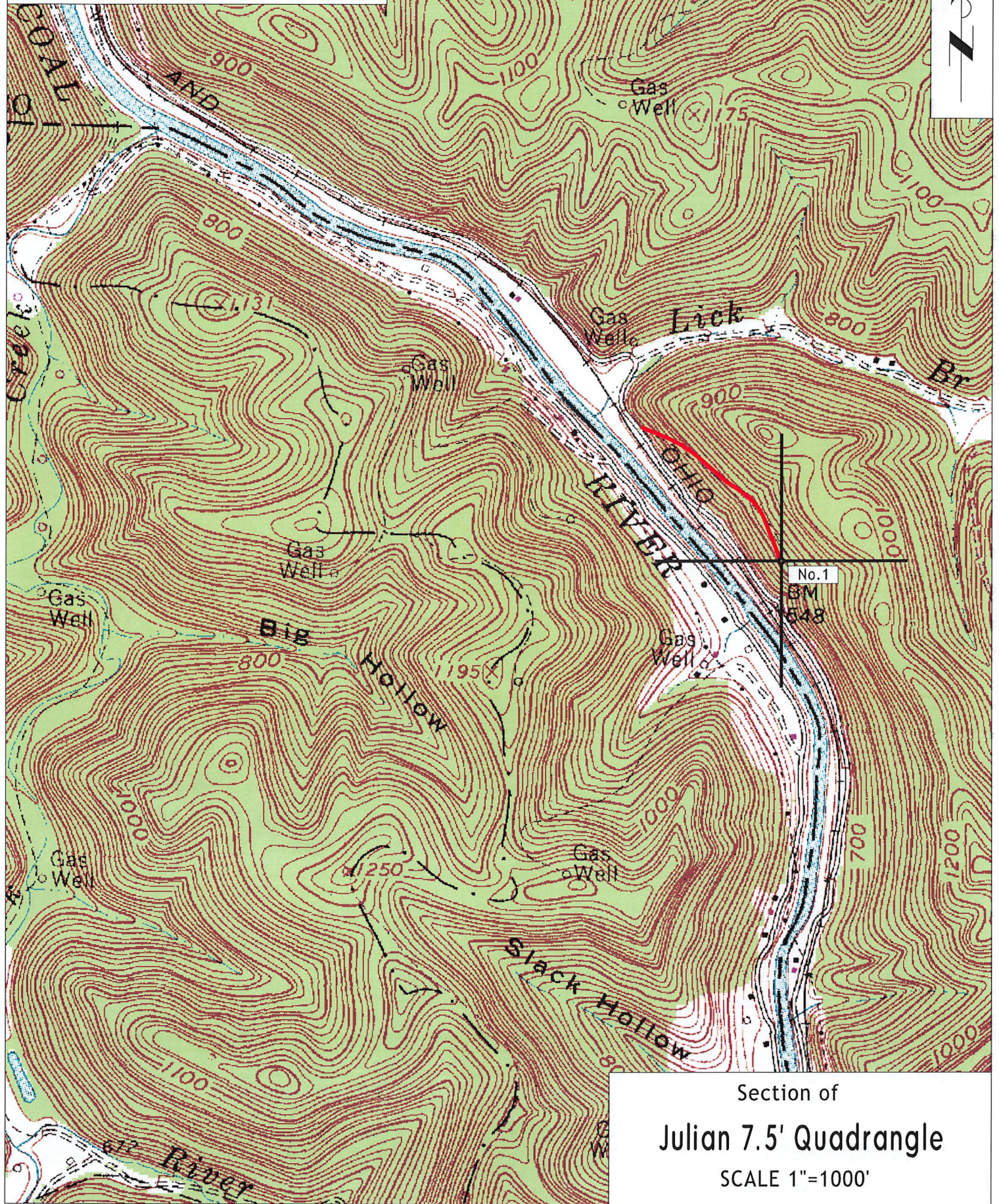
Notes:

- REQUESTED PERMIT IS FOR PLUGGING AN EXISTING WELL
- ALL ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED IN ORDER TO ACCOMODATE WELL WORK EQUIPMENT AND THEN WILL BE RECLAIMED TO WVDEP STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

NOTE:
 Location is existing. Only minimal earthwork will be required to P&A existing well. Any disturbed areas will be revegetated as per the attached WW-9.

06/14/2019

SUBJECT WELL
Dickinson Fuel No. 1
47-039-3295



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

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil & Gas
WELL LOCATION FORM: GPS

API: 47- 039 - 3295 WELL NO: 1

FARM NAME: Dickinson Fuel No.1

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Kanawha DISTRICT: Washington

QUADRANGLE: Julian 7.5'

SURFACE OWNER: Dickinson Fuel Co.

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,230,654 (NAD 83)

UTM GPS EASTING: 433,819 (NAD 83) GPS ELEVATION: 249 m. (817')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number 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 Post Processed Differential
 Real-Time Differential

- 4 **Letter size copy of the topography map showing the well location.**

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
Title

11/20/2018
Date

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