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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, October 17, 2018  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

HG ENERGY, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 6  
47-087-00909-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a light blue circular stamp.

Operator's Well Number: 6  
Farm Name: KAUFMAN, WILLIAM  
U.S. WELL NUMBER: 47-087-00909-00-00  
Vertical Plugging  
Date Issued: 10/17/2018

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.

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### CONDITIONS

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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.

- 1) Date September 5, 2018
- 2) Operator's  
Well No. w/ Kaufman 6
- 3) API Well No. 47-087 - 00909

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

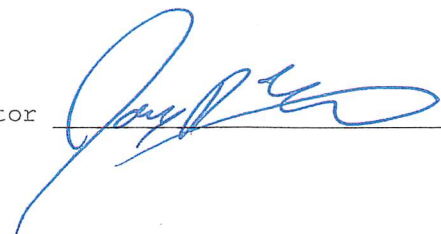
- 4) Well Type: Oil x / Gas \_\_\_\_\_ / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_ /  
(If "Gas, Production \_\_\_\_\_ or Underground storage \_\_\_\_\_) Deep \_\_\_\_\_ / Shallow x
- 5) Location: Elevation 1076' Watershed Clover Run  
District Smithville County Roane Quadrangle Looneyville 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 9) Plugging Contractor  
Name Joe Taylor Name To Be Determined Upon Approval of Permit  
Address 1478 Claylick Road Address \_\_\_\_\_  
Ripley, WV 25271

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

\*See Attached \*

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

Work order approved by inspector



Date

9-12-18

WW-4B - Conti  
Rev. 2/01

- 1) Date: September 5, 2018
- 2) Operator's Well Number  
William Kaufman 6
- 3) API Well No: 47 - 087 - 0909  
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  Gas  Liquid Injection  Waste Disposal   
(If "Gas", Production  Underground Storage  ) Deep  Shallow

5) LOCATION: Elevation: 1076' Watershed: Clover Run  
District: Smithville County: Roane Quadrangle Looneyville 7.5'

6) WELL OPERATOR: HG Energy, LLC 494497948  
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 Joe Taylor  
Address 1478 Claylick Road  
Ripley, WV 25271

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- 2,220'

Manners of plugging:

- Plug No 1 2175'-2000'
- Free point, cut, & pull 5 1/2" est 1900'
- Plug No 2 1950'-~~1850'~~ 1750'
- Plug No 3 1125'-1025'
- Plug No 4 640'-540'
- Plug No 5 100'-0'
- Located at surface

*TO COVER SALT WATER @ 1835'*

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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SEP 18 2018  
WV Department of  
Environmental Protection

*[Signature]*  
9-12-18

47-087-00909P



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 36

OFFICE COPY

Quadrangle WALTON

WELL RECORD

Permit No. ROA-909

Oil or Gas Well OIL & GAS  
(KIND)

Company SOUTH PENN OIL COMPANY  
Address P. O. Box 1588  
Farm Wm. Kaufman Acres 800  
Location (waters) Slab Camp Run  
Well No. 6 Elev. 1076.24  
District Smithfield County Roane  
The surface of tract is owned in fee by Frank Chambers  
Spencer Auto Route Address Spencer, W. Va.  
Mineral rights are owned by Olive O. Oberdorf, et al.  
1635 Hyde Park Blvd. 1-B Address Chicago 15, Ill.  
Drilling commenced August 6, 1962  
Drilling completed September 1, 1962  
Date Shot - From - To -  
With -  
Open Flow 8/10ths Water in 1/8 Inch  
- /10ths Merc. in - Inch  
Volume 322 Cu. Ft.  
Rock Pressure None lbs. (No Test) hrs.  
Oil 1 bbls., 1st 24 hrs.  
WELL ACIDIZED -

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Steel Shoe
13			Size of
10"	587'	NONE	5 1/2" x 14#
8 1/4"	1102'	NONE	Depth set 2190
6 1/2"			on 8/27/62
5 1/2"	2222'3"	2222'3"	Perf. top
3			Perf. bottom
2" Tbg.	2236'	2236'	Perf. top
Liners Used			Perf. bottom

CASING CEMENTED 5 1/2" SIZE 2190 No. Ft. 8/27/62 Date

COAL WAS ENCOUNTERED AT - FEET - INCHES  
- FEET - INCHES - FEET - INCHES  
- FEET - INCHES - FEET - INCHES

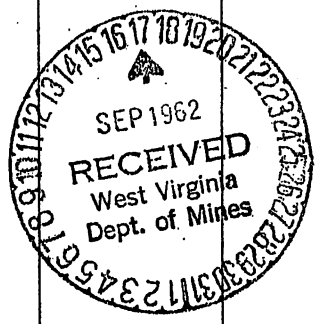
WELL FRACTURED September 5, 1962 by Dowell

RESULT AFTER TREATMENT Gas - 50,000 Cu. Ft.  
Oil - 20/Day Bbls.

ROCK PRESSURE AFTER TREATMENT 490 Lbs.

Fresh Water - Feet - Salt Water - Feet -

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	14			
Conductor				14			
Red Rock			14	60			
Slate			60	85			
Sand			85	160			
Slate			160	195			
Red Rock			195	246			
Slate			246	317			
Red Rock			317	345			
Slate			345	371			
Red Rock			371	386			
Slate			386	470			
Red Rock			470	503			
Slate			503	518			
Sand			518	587			
Slate			587	681			
Red Rock			681	691			
Slate			691	714			
Sand			714	744			
Slate			744	755			
Red Rock			755	775			
Sand			775	796			
Red Rock			796	845			
Slate			845	904			
Red Rock			904	948			
Slate			948	977			
Red Rock			977	984			
Slate			984	1004			
Red Rock			1004	1024			
Slate			1024	1060			



Formation	Color	Hard or Soft	Top <sup>36</sup>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1060	1198			
Slate			1198	1260			
Sand			1260	1406			
Slate & Shells			1406	1440			
Sand			1440	1510			
Slate			1510	1550			
Sand			1550	1636			
Black Slate			1636	1648			
Sand			1648	1724			
Slate & Shells			1724	1796			
Sand			1796	1909			
Slate & Shells			1909	1930	Water	1835	Hole Full
Sand			1930	1963			
Slate & Shells			1963	1986			
Sand			1986	2012			
Slate			2012	2018			
Little Lime			2018	2041			
Slate			2041	2069			
Big Lime			2069	2187			
Keener Sand			2187	2200	Oil Show	2118-2126	
5½" Casing				2190			
Big Injun			2200	2222			
Blue Sand			2222	2232	Oil & Gas	2200-2222	8/10-W-1/8" FM
Slate			2232	2257			
Total Depth				2257			
Filled Back w/Stone & Mud			2257	2220			
Total Depth			2220	2220			Final

Date September 14, 19 62APPROVED SOUTH PENN OIL COMPANY, OwnerBy George W. Wilsman  
George W. Wilsman (Title) Land Agent



WW-4A  
Revised 6-07

1) Date: September 5, 2018  
2) Operator's Well Number  
William Kaufman # 86  
3) API Well No.: 47 - 087 - 00909

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

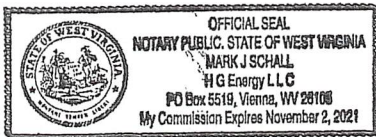
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Everett Nichols</u>	Name <u>NA</u>
Address <u>1014 Otto Road</u>	Address _____
<u>Spencer, WV 25276</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>NA</u>
<u>Ripley, WV 25271</u> <i>JTZ</i>	Address _____
Telephone <u>304-380-7469</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.



Well Operator	<u>HG Energy, LLC</u>
By:	<u>Diane White</u> <i>Diane White</i>
Its:	<u>Agent</u>
Address	<u>5260 Dupont Road</u>
	<u>Parkersburg, WV 26101</u>
Telephone	<u>304-420-1119</u>

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SEP 18 2018  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 5th day of September, 2018  
*[Signature]*  
My Commission Expires 11/2/2021 Notary Public

**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](mailto:depprivacyoffier@wv.gov).

WW-9  
(5/16)

API Number 47 - 087 - 00909  
Operator's Well No. W Kaufman 6

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) Clover Run Quadrangle Looneyville 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 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 \_\_\_\_\_ )

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. Remove offsite

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

-Landfill or offsite name/permit number? Will be determined at time of offsite disposal

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.

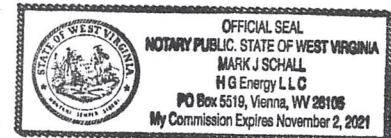
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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

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Office of Oil and Gas  
SEP 18 2018  
WV Department of Environmental Protection

Subscribed and sworn before me this 5th day of September, 20 18  
[Signature] Notary Public

My commission expires 11/2/2021





Proposed Revegetation Treatment: Acres Disturbed 1.1 acres Prevegetation pH \_\_\_\_\_

Lime 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 Maintained 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: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title: OOG Inspector  Date: 9-12-18

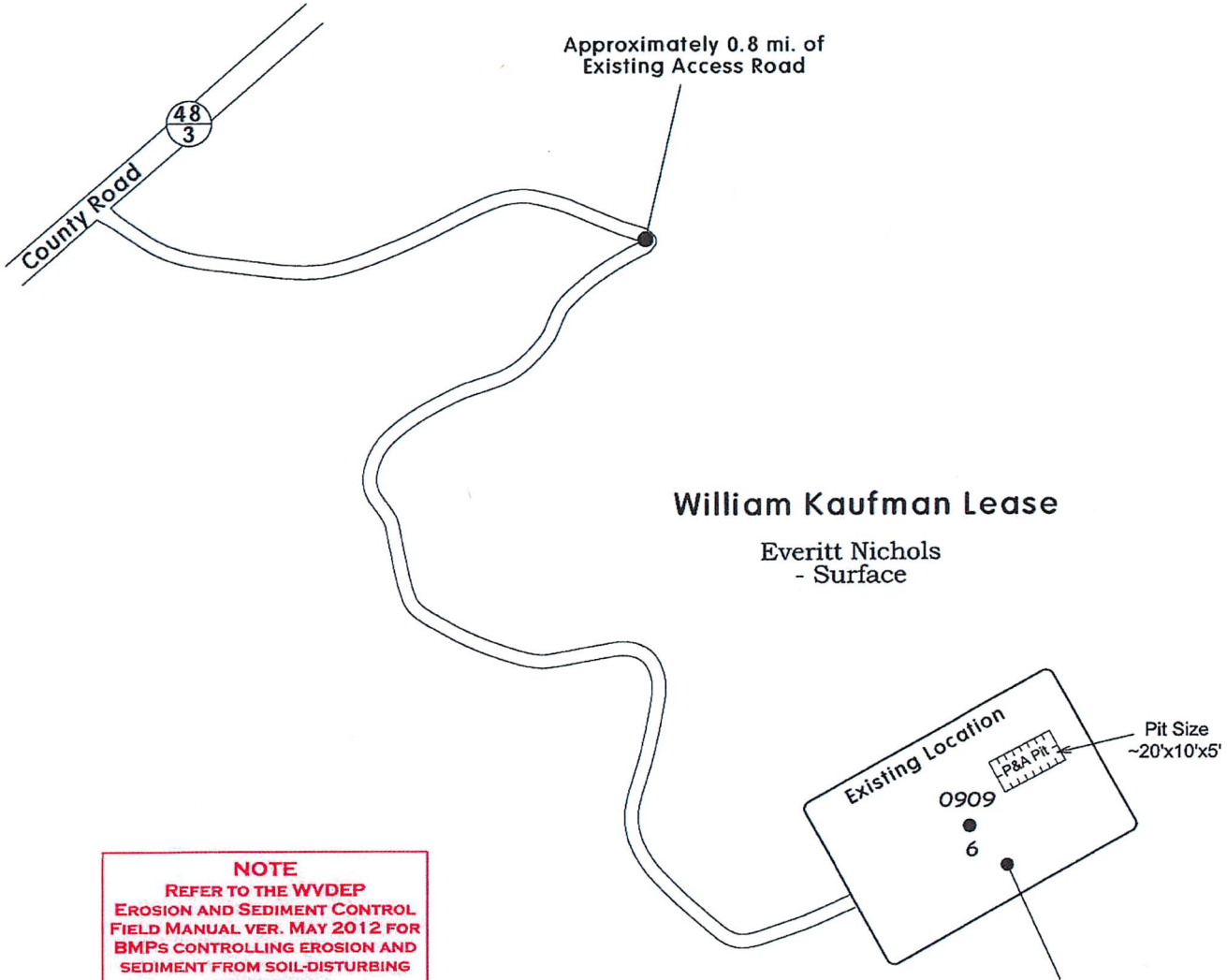
Field Reviewed? (  ) Yes (  ) No

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# Reclamation Plan For:

## William Kaufman No.6

47-087-0909



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

**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.

### 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.

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OCT 16 2018

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

Operator Name: HG Energy, LLC  
Watershed (HUC 10): Clover Run Quad: Looneyville 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

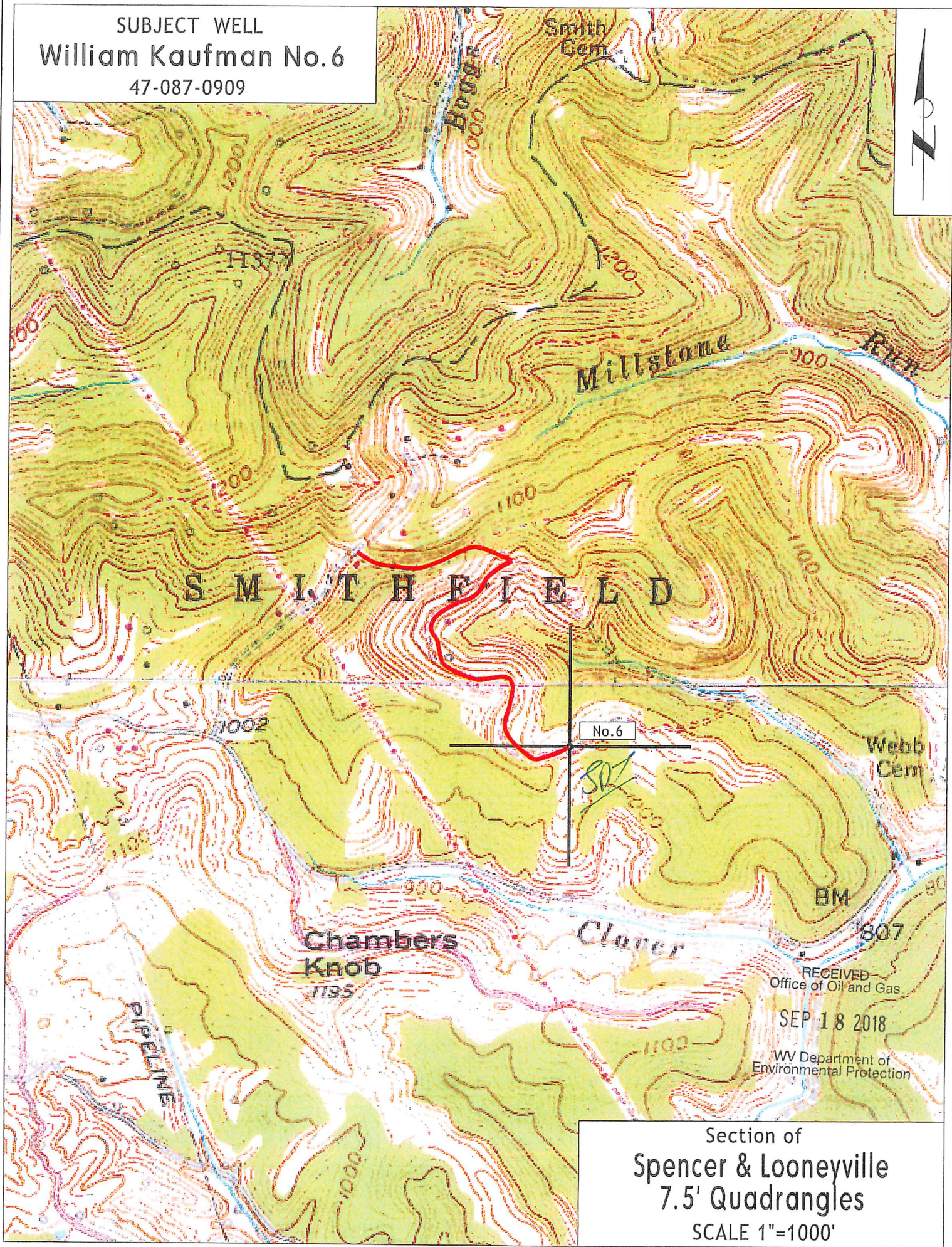
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Signature: Diane White

Date: 9-5-18



SUBJECT WELL  
William Kaufman No.6  
47-087-0909



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Section of  
Spencer & Looneyville  
7.5' Quadrangles  
SCALE 1"=1000'



WW-7  
8-30-06



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

API: 47- 087 - 0909 WELL NO: 6

FARM NAME: William Kaufman No.6

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Looneyville 7.5'

SURFACE OWNER: Everett Nichols

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,288,921 (NAD 83)

UTM GPS EASTING: 476,912 (NAD 83) GPS ELEVATION: 326 m.

(1069.28')

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:

- Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
- Accuracy to Datum - 3.05 meters
- Data Collection Method:

Survey Grade GPS  Post Processed Differential   
 Real-Time Differential

Mapping Grade GPS  Post Processed Differential   
 Real-Time Differential

- 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

8/17/2018  
Date

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JRZ