



 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

Wednesday, May 29, 2019
 WELL WORK PLUGGING PERMIT
 Vertical Plugging

HG ENERGY, LLC
 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for R. L. HUFFMAN 6
 47-043-02126-00-00

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: R. L. HUFFMAN 6
 Farm Name: WILLIAM ROSS ET AL.
 U.S. WELL NUMBER: 47-043-02126-00-00
 Vertical Plugging
 Date Issued: 5/29/2019

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.

WW-4B
Rev. 2/01

1) Date March 7 05/31/2019
2) Operator's Well No. RL Huffman No. 6
3) API Well No. 47-043 - 02126 P

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 or Underground storage) Deep / Shallow
- 5) Location: Elevation 935' Watershed Bear Fork
District Duval County Lincoln Quadrangle Griffithsville 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 Jeffery L. Smith
Address 5369 Big Tyler Road
Cross Lanes, WV 25313
- 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 -

RECEIVED
Office of Oil and Gas
MAR 22 2019
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 Jeffrey Smith Date 3-18-19

1) Date: March 7, 2019 **05/31/2019**
2) Operator's Well Number R L Huffinan No. 6
3) API Well No: 47 - 043 - 2126
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 x Liquid Injection _____ Waste Disposal _____ Observation _____
(If "Gas", Production x Underground Storage _____) Deep _____ Shallow x

5) LOCATION: Elevation: 935' Watershed: Bear Fork
District: Duval County: Lincoln Quadrangle Griffithsville 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 Jeffery L Smith Name To Be Determined Upon Approval of Permit
Address 5369 Big Tyler Road Address _____
Cross Lanes, WV 25313

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

TD- 2,436'

Manners of plugging:
6 5/8" - 1740'
5 3/16" - 1771'

Berea 2416'-2436'
SPOT GEL

- Plug No 1 2400' to 2300', cement plug # 1 WOC, THEN CHECK CEMENT TOP. ADD IF NECESSARY.
- Plug No 2 1820' to 1720', cement plug 2, free point, cut & pull 5 3/16" - est 1650' gma
- Plug No 3 1700' to 1600' - cement plug # 3, adjusted to cover casing cut, freepoint, cut & pull 6 5/8" - est 1000'
- Plug No 4 1050' - 950', cement plug #4
- Plug No 5 450' - 350', cement plug # 5
- Plug No 6 100' - Surface

JS

** If 4 1/2" casing is not free below 1800' - perforate prior to 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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Case No. 71122 Acres 83 Farm Name R. L. Huffman Well No. (6)
~~Map 12.5 W 1 M NE from Vere Waters of Bear Fork of Straight Fork of Middle Fork of Mud River~~
 N. S. 81 E. W. ~~76~~ 76 Location Made Purchased From Big Creek
 Civil District Duval Rig Completed Date Purchased 05/31/2019
 County Lincoln Dr'g Commenced Mar. 8, 1913 Sold To 47-043-02126 P
 State W. Va. Dr'g Completed April 29, 1913 Cost per ft. 1-15/100
 Rights Owned By Dr'g Contractor Yawkey-Freeman Drilling Co. Date Abandoned

FORMATION			
Kind	Top	Bottom	Steel Line Measurement
alt Sand	1025	1695	
ittle Lime	1700	1730	
encil Cave	1730	1735	
ig Lime	1735	1920	
ig lnjun	1920	1980	
rown Shale	2395	2416	
erea	2416	2436	

CASING RECORD				
Size	Bottom Casing (Steel Line)	Put In Well (Tally Meas.)	Pulled (Tally Meas.)	Cemented
Cond.		12'		Date
6-5/8		1740		Size Csg.
5-3/16		1771	S.L. 12-24-30	Top
				Bot. "

PACKERS AND SHOES			
Kind	Size	Depth Set	Date Set
	5-3/16 x 6-5/8		

TORPEDO RECORD					
Date	No. Qts.	Size Shell	Top Shot	Bottom	Result
4-30-1913	80		2418	2434	

DRILLING DEEPER				
Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD					
Filled With	From	To	PLUG		
			Size	Kind	Depth

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Initial Prod.	Sand	* At Completion	* 30Days After	*
Oil	Berea	20 Brls.		
Gas				

APPROVED _____

05/31/2019

REPAIRS TO WELL

Commenced	Completed	DRILLED DEEPER		Shot (No. Quarts)	TESTS BEFORE		TESTS AFTER		ROCK PRESSURE		Remarks
		From	To		Oil	Gas	Oil	Gas	Before	After	

VOLUME AND PRESSURE TESTS

Date	Reading	Liquid	Opening	Tubing or Casing	Line Pressure	MINUTES						Rock Pressure	Time (Hours)	Volume	Sand
						1	2	3	4	5	10				

PRODUCTION

REMARKS

Year	Barrels	Year	Barrels

380' 10" hole. May 1, 1917 18# sledge in 10" hole outside of 6-5/8 casing dropped by roustabouts
 2-21-1917 top liner 2055 1/2 bottom of liner 2414
 Jan. 1917 1-4 1/2" bit 5' long left in bottom of sand casing record shows 359' of 5-3/16 casing which must have been pulled out when string of 5-3/16 casing was run

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MAR 22 2019

WV Department of
Environmental Protection

14. PREVIOUSLY SUBMITTED PLUGGING PROCEDURE

47-043-02126P

05/31/2019

WW-4B
Rev. 2/01

- 1) Date: December 2, 2010
- 2) Operator's Well Number R.L. Huffman No.6
- 3) API Well No: 47 - 043 - 02126P
State County Permit

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

13-2--385

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 _____
- 5) LOCATION: Elevation: 935' Watershed: Bear Fork
District: Duval County: Lincoln Quadrangle Griffithville 7.5'
- 6) WELL OPERATOR: East Resources, Inc. 308122
Address P.O. Box 5519
Vienna, WV 26105-5519
- 7) DESIGNATED AGENT Philip S. Ondrusek
Address P.O. Box 5519
Vienna, WV 26105-5519
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Ralph Triplett
Address 1150 State Route 10
Branchland, WV 25506
- 9) PLUGGING CONTRACTOR
Name _____
Address _____

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

CASING	
6 5/8"	1,740'
5 3/16"	1,771'
LINER	
(2,055' - 2,414')	

- TD- 2,436' Coal:
- Plug No. 1 2410 - 2310
 - Plug No 2 1900 - 1800
 - Pull 5 3/16" Casing
 - Plug No 3 1800 - 1700
 - Rip 6 5/8" Casing from 1,100' to 1,000'
 - Plug No 4 1100 - 1000
 - Rip and Pull 6 5/8" Casing (Est. 400')
 - Plug No 5 450' - 350'
 - Plug No 6 100' - Surface

OK
RDT

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Office of Oil & Gas

DEC 10 2010

WV Department of
Environmental Protection

Erect Monument with API No.
Note: 6% Gel between all cement plugs.

Notification must be given to the District Oil and Gas Inspector 24 hours before permitted work can commence.

Work order approved by Inspector

Ralph Triplett

Date 12/09/10

PREVIOUSLY SUBMITTED PLUGGING PROCEDURE.

Form WW-4(B) Inspected Copy
Obverse
10-91

- 1) Date: October 16, 2002
- 2) Operator's Well Number
R.L. Huffman No.6
- 3) API Well No: 47 - 043 - 2126
State County Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

- 5) LOCATION: Elevation: 935' Watershed: Bear Fork
District: Duval County: Lincoln

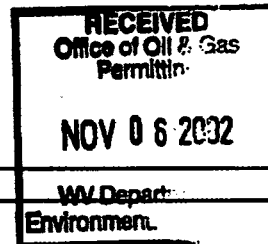
- 6) WELL OPERATOR: East Resources, Inc. 308122 7) DESIGNATED AGENT Michael McCown
Address P.O. Box 5519 Address P.O. Box 5519
Vienna, WV 26105-5519 Vienna, WV 26105-5519

- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name Larry Parrish Name _____
Address Route 1, Box 118 Address _____
Ripley, WV 25271

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

- TD - 2436'
- Plug No. 1 2410' - 2310'
- Plug No 2 1820' - 1720'
- Freepoint, Cut and Pull 5 3/16" - est. 1740'
- Plug No 3 1790' - 1690'
- Freepoint, Cut and Pull 6 5/8" - est. 1200'
- Plug No 4 1250' - 1150'
- Plug No 5 450' - 350'
- Plug No 6 100' - Surface
- Erect Monument with API No.
- Note: 6% Gel between all cement plugs.

OK / J.P.P. 10-31-02



OFFICE USE ONLY
PLUGGING PERMIT

Permit Number _____ Date _____ 19 _____

This permit covering the well operator and the well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 hours before actual work has commenced.

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires _____ unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	WPCP	Other

Chief, Office of Oil & Gas

NOTE: Keep one copy of this permit posted at the plugging location.

WW-4A
Revised 6-07

1) Date: March 7, 2019
2) Operator's Well Number
R L Huffman No. 6

3) API Well No.: 47 - 043 - 02126

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

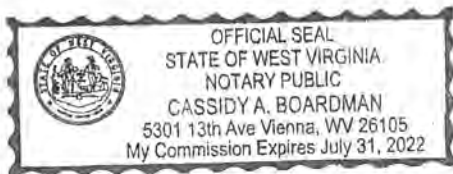
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>William Ross et al.</u>	Name <u>NA</u>
Address <u>2220 Shore Drive</u>	Address _____
<u>Anchorage, AK 99515</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jeffery L. Smith</u>	(c) Coal Lessee with Declaration
Address <u>5369 Big Tyler Road</u>	Name <u>NA</u>
<u>Cross Lanes, WV 25313</u>	Address _____
Telephone <u>681-313-6743</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>	RECEIVED Office of Oil and Gas
By:	<u>Diane White</u> <i>Diane White</i>	
Its:	<u>Agent</u>	MAR 22 2019
Address	<u>5260 Dupont Road</u>	
	<u>Parkersburg, WV 26101</u>	WV Department of Environmental Protection
Telephone	<u>304-420-1119</u>	

Subscribed and sworn before me this 7th day of MARCH 2019

Cassidy Boardman Notary Public
My Commission Expires 7/31/2022

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.

47-043-02126

05/31/2019

WW-9
(5/16)

API Number 47 - 043 - 02126
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) Bear Fork Quadrangle Griffithsville 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

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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MAR 22 2019

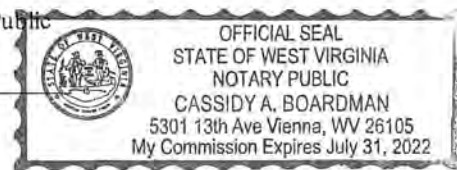
WV Department of Environmental Protection

Subscribed and sworn before me this 7th day of MARCH, 2019

Cassidy Boardman

Notary Public

My commission expires 7/31/2022



Proposed Revegetation Treatment: Acres Disturbed 1.8 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 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: Jeffrey Smith
All sediment control to be removed prior to
 Comments: release

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MAR 22 2019

WV Department of
Environmental Protection

Title: Oil & Gas Inspector Date: 3-18-19

Field Reviewed? Yes No

Reclamation Plan For:

R.L. Huffman No.6

47-043-2126



NOTE:

Location is existing but will require earthwork to accommodate plugging equipment. Any disturbed areas will be revegetated as per the attached WW-9.

R.L. Huffman Lease

William Ross et al.
- Surface

Approximately 0.5 mi.
of Well Access Road.

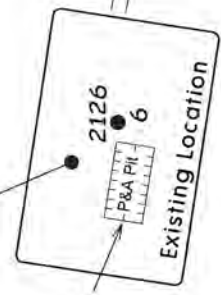
Roger & Lynn Thomas
- Surface

Crystal Snodgrass
- Surface

Roger D. Vaughan
- Surface

County Road

16



Pit Size
~20'x10'x5'

2126

P&A Pit 6

Existing Location

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Office of Oil and Gas

MAR 22 2019

WV Department of
Environmental Protection

Notes:

- REQUESTED PERMIT IS FOR PLUGGING AN EXISTING WELL
- ACCESS ROADS AND LOCATION WILL BE UPGRADED IN ORDER TO ACCOMMODATE 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
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

N/A

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

Operator Name: HG Energy, LLC
Watershed (HUC 10): Bear Fork Quad: Griffithsville 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

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

NA

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Office of Oil and Gas

MAR 22 2019

WV Department of
Environmental Protection

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

N/A

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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Office of Oil and Gas

MAR 22 2019

WV Department of
Environmental Protection

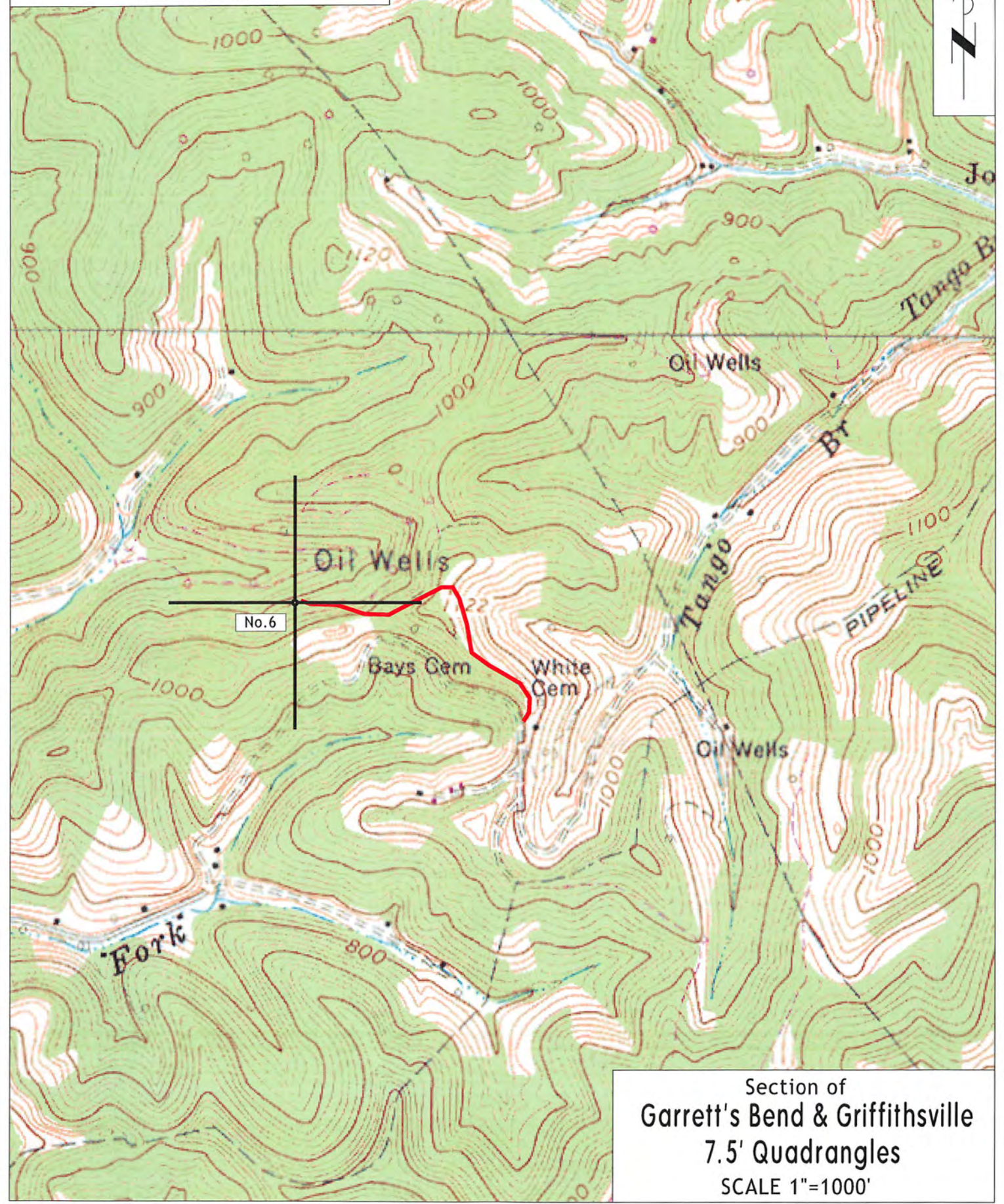
Signature: Diane White

Date: 3-7-19

05/31/2019



SUBJECT WELL
R.L. Huffman No. 6
47-043-2126



Section of
Garrett's Bend & Griffithsville
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- 043 - 2126 WELL NO: 6

FARM NAME: R.L. Huffman No.6

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Lincoln DISTRICT: Duval

QUADRANGLE: Griffithsville 7.5'

SURFACE OWNER: William Ross et al.

ROYALTY OWNER: HG Energy, LLC

UTM GPS NORTHING: 4,233,337 (NAD 83)

UTM GPS EASTING: 417,022 (NAD 83) GPS ELEVATION: 285 m. (935')

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	<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"/>
- 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

2/8/2019
Date