

#### 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 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Monday, June 19, 2017 WELL WORK PERMIT Not Available / Plugging

TRIAD HUNTER, LLC (A) 125 PUTNAM ST

MARIETTA, OH 45750

Re: Pe

Permit approval for HART CREEK 1

47-073-02532-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: HART CREEK 1

Farm Name: WV PULP & PAPER

U.S. WELL NUMBER: 47-073-02532-00-00

Not Available / Plugging

Date Issued: 6/19/2017

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. <u>Failure to adhere to the specified permit</u> 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.

1) Date April 5th \_, 2017 WW-4B Rev. 2/01 2) Operator's Well No. Hart Creek #1
3) API Well No. 47-073 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  $\frac{x}{}$  / Gas  $\frac{x}{}$  / Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/ (If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_) Deep \_\_\_/ Shallow\_ Location: Elevation 671 GL 603 Watershed Middle Ohio North (McKim Creek) District McKlm County Pleasants Quadrangle Ellenboro (75) Well Operator Triad Hunter 7) Designated Agent Kim Arnold Address 125 Putnam St. Address P.O Box 154 Marietta, OH 45750 Waverly, WV 26184 Oil and Gas Inspector to be notified 9) Plugging Contractor Name Derek Haught Name Patchwork Oil & Gas, LLC Address PO Box 85 Address PO Box 168 Smithville, WV 26178 Davisville, WV 26142 10) Work Order: The work order for the manner of plugging this well is as follows: ORGINAL WELL 073-91857 WAS See attached HEDEIVED Office of Oil and Gas MAY 1 1 2017 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

Date

#### **OPEN HOLE**

- 1. MIRU Service rig, pull rods and tubing out of hole (if any), clean hole to TD
- 2. Run 2 3/8 8rd tubing to a minimum of 50' below the producing pay zone, pump and set cement plug using Class A cement to a minimum of 50' above the producing pay zone, pump 6% gel ahead of cement. (Minimum 100' bottom plug)

  [F PRODUCIN PAY 15 COW RUN, THE PLUG WOULD IS 670-570]
- 3. Tag cement top to ensure plug meets minimum, add cement if necessary. Find free point on casing, cut and remove casing and pull out of hole.
- 4. Run 2 3/8 8rd tubing to a minimum of 50' below the cut casing. Pump and set cement plug using Class A Cement to a minimum of 50 above cut casing, pump 6% gel ahead of cement. (Minimum of 100' casing cut plug)
- 5. Tag cement top to ensure plug meets minimum, add cement if necessary.
- 6. Pull and set 2 3/8 8rd tubing a minimum of 50' below elevation depth. Pump and set cement plug with Class A Cement to a minimum of 50' above elevation depth, pump 6% gel ahead of cement. (Minimum 100' elevation plug)
- 7. Tag cement top to ensure plug meets minimum, add cement if necessary.
- 8. Pull and set 2 3/8 8rd tubing to a minimum of 100' below surface, pump Class A cement to surface. (Minimum 100' surface and fresh water strata plug)
- 9. Erect 3' x 6" with identification and fill with cement.
- 10. RDMO service rig, all surface equipment and disposals.
- 11. Reclaim location and lease road.
- 12. Prepare release forms.

DAH 5-4-17

Office of Oil and Gas

MAY 11 2017

WV Department of Environmental Protection

## WVGES O&G Record Reporting System

Page 1 of 1



Select datatypes: (Check All) Location Inter Permit #: 02532 Owner/Completion Stratigraphy Sample Get Data Reset Logs

WV Geological & Economic Survey

Well: County = 73 Permit = 02532

Report Time: Tuesday, February 28, 2017 8:08:51 AM

Well Reassignment Information: Reassigned From OLD\_COUNTY OLD\_PERMIT NEW\_COUNTY NEW\_PERMIT 73 91857 73 2532

 
 Owner Information:
 API
 CMP\_DT
 SUFFIX
 STATUS
 SURFACE\_OWNER

 4707302532
 J-J Original Loc
 Completed
 West Virgina Pulp & P
 WELL\_NUM CO\_NUM LEASE LEASE\_NUM MINERAL\_OWN OPERATOR\_AT\_COMPLETION PROP\_VD PROP\_TRGT\_FM TFM\_EST\_PR

FIELD DEEPEST\_FM DEEPEST\_FMT INITIAL\_CLASS FINAL\_CLASS TYPE

There is no Pay data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

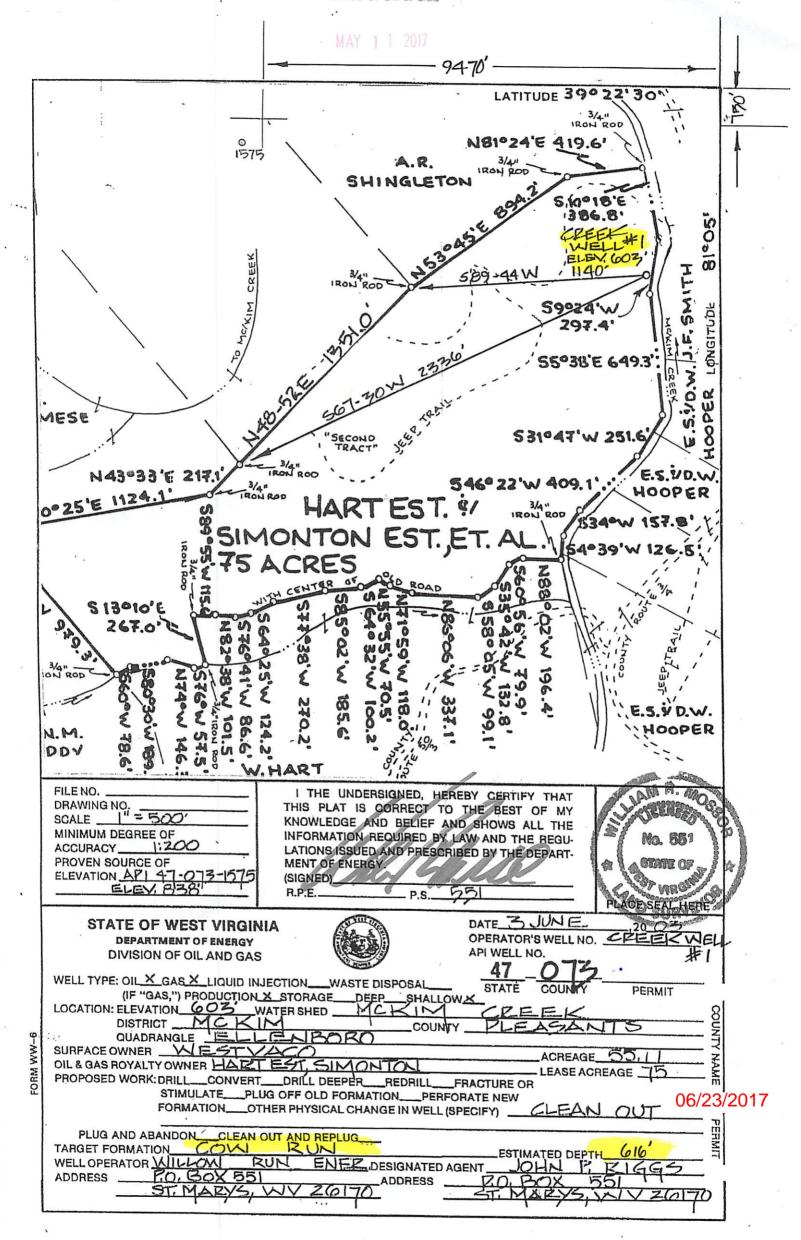
There is no Sample data for this well

DEBEINEB Office of Oil and Gas MAY 1 1 2017

06/23/2017 2/28/2017

WV Department of Environmental Protection

http://www.wvgs.wvnet.edu/oginfo/pipeline/pipeline2.asp



WW-4A			1) Date:	APRIL 5TH,	2017	
Revised 6-07				tor's Well Numb	er	
	2) Operator's Well Number HART CREEK #1					
			THAT OTTER			
			2) A DI W	ell No.: 47 -	073	- 02532
			5) AF1 W	en No.: 47 -	073	- 02532
		STATE	OF WEST VIRGINIA	<b>\</b>		
D.	EDADTMENT OF		FAL PROTECTION	-	OIL AND CA	C
D.						ro.
	NOTICE	F APPLICATIO	N TO PLUG AND	ABANDON A V	/ELL	
1) 0 0 0	(). 1					
	mer(s) to be served:	7 .	a) Coal Operator			
(a) Name	Heartwood Forestland Fund	IV Limited Partnership	Name			
Address	3001 Emerson Ave.  Parkersburg, WV 26105		Address			
(b) Name			(b) Coal Owner	r(s) with Declara	ition	
Address			Name			
	NAME OF TAXABLE PARTY.		Address			
						W-1
(a) Name			N			
(c) Name			_ Name _			
Address			Address			
6) Inspector	Derek Haught		(c) Coal Lessee	with Declaratio	n	
Address	PO Box 85		- Name			
11441000	Smithville, WV 26178		Address			
Telephone	304-206-7613					
relephone	304-200-7013					
The reason However, Take notic accompan Protection the Applic	you are not required to take that under Chapter 22-6 or ying documents for a permi , with respect to the well at	nents is that you have riginary action at all.  of the West Virginia Code to plug and abandon a vector described or the location described or the mailed by registered	e, the undersigned well oper vell with the Chief of the Of the attached Application at or certified mail or delivere	ator proposes to file or fice of Oil and Gas, We nd depicted on the attac	has filed this Notice est Virginia Departm ched Form WW-6.	e and Application and tent of Environmental Copies of this Notice,
	,	9	Section 1			
				Access to the second se		
		Well Operator	Triad Hunter, LLC			
		By:	Mike Horan	M./ 110		
			Senior V.P Appalachian	Operations		<del></del>
		Its:		Obergions		
		Address	125 Putnam Street			
			Marietta, OH 45750			
		Telephone	740-374-2940			
Subscribed and	l sworn before me the	his 25 da	ay of April,	Notary Pul	blessi Pamela	K. Nicholson, Notary Public
My Commission	n Expires 8.5	2020		* State of State of		d For The State of Ohio
Oil and Gas Priv		5050		(o)	Printed Phone and	nmission Expires 8-9-900
The Office of Oil	and Gas processes vo	our personal inform	ation, such as name, a	ddress and phone	number, as a pa	art of our
01100 01 011	The Processes Je	- P				

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.

RESEIVED Office of Oil and Gas

06/23/2017

MAY 1 1 2017

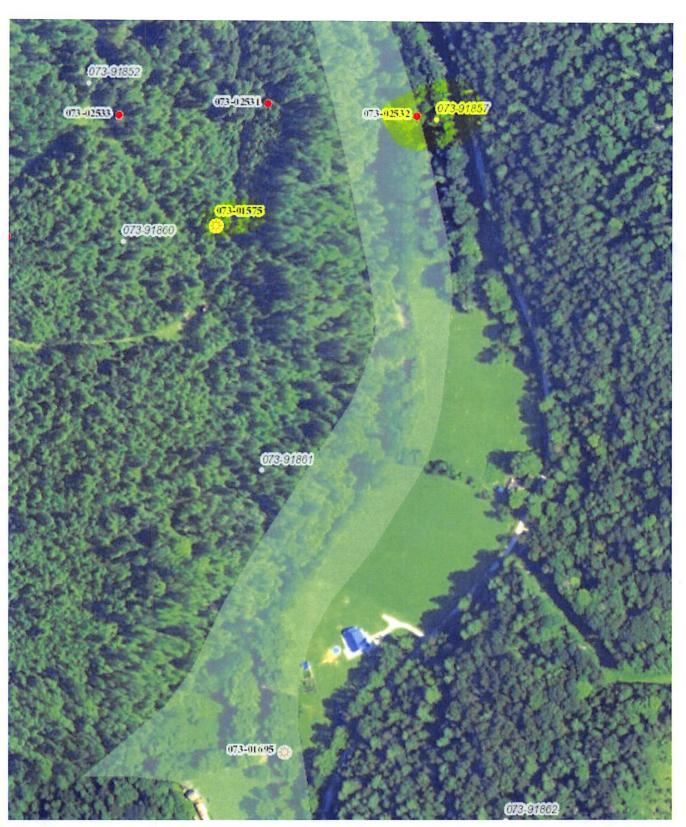
WV Department of Environmental Protection WW-9 (5/16)

API Number 47 - 073 \_02532
Operator's Well No. Hart Creek #1

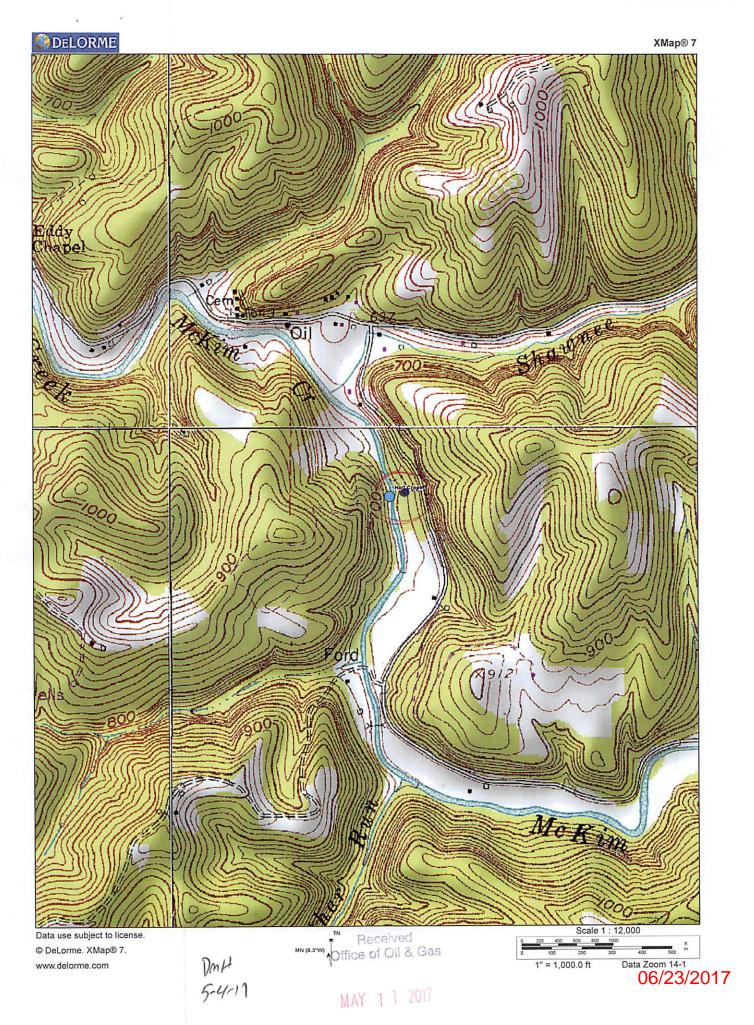
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name_TRIAD HUNTER, LLC OP Code 494494833
Watershed (HUC 10) OUTLET MIDDLE ISLAND CREEK Quadrangle ELLENBORO (75)
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:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:  ANY WELL EFRUENT WILL 3-9-17 BE DISPOSED OF OFF-SITE
Land Application (if selected provide a completed form WW-9-GPP) WA PROPER FASHION.  Underground Injection (UIC Permit Number)  Reuse (at API Number)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Fluids will be disposed of by plugging contractor
Will closed loop systembe used? If so, describe: Yes, all flowback materials will be contained in a blowback tank.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a
-If oil based, what type? Synthetic, petroleum, etc. n/a
Additives to be used in drilling medium? n/a
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) n/a
-Landfill or offsite name/permit number? n/a
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 o btaining 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
Company Official (Typed Name) Mike Horan
Company Official Title Senior V.P Appalachian Operations
Subscribed and sworn before me this 35 day of April , 20 17
0 0 0000
HEGEIVED  Office of Oil and Gas  A Pamela K. Nicholson. 06/23/2017 In and For The State of Anie/2017 My Commission Expires 8 - 9 - 2020
MAY 1 1 2017
WV Department of Environmental Protection

Form WW-9		Operator's Well	No. Hart Cr
Proposed Revegetation Treats	ment: Acres Disturbed One	(1) Preveg etation pH	5.5
Lime Two (2)	Tons/acre or to correct to	<sub>pH</sub> 6.5	
Fertilizer type 10-2	20-20	<del></del>	
Fertilizer amount 50	00	_lbs/acre	· #
Mulch_(50 bales)	2.5 <sub>To</sub>	ns/acre	
	S	Seed Mixtures	
Ten	mporary	Permane	nt
Seed Type	lbs/acre	Seed Type	lbs/acre
		Orchard Grass	30%
		Rye (Annual & BT)	35%
		Timothy (Climax)	25%
		Clover (Med. Red)	10%
L, W), and area in acres, of the Photocopied section of involve Plan Approved by:			
Comments:			
		AEC Office of	EIVER Oil and Gas
		YAM	1 1 2017
		WV De Environm	epartment of ental Protection
Title: Oi'l Her Ingp			



06/23/2017



WW-7 8-30-06



# West Virginia Department of Environmental Protection Office of Oil and Gas

# WELL LOCATION FORM: GPS <sub>API:</sub>47-073-02532 WELL NO.: Hart Creek #1 FARM NAME: WV Pulp & Paper RESPONSIBLE PARTY NAME: Triad Hunter, LLC **COUNTY:** Pleasants QUADRANGLE: Ellenboro SURFACE OWNER: Heartwood Forestland Fund IV Limited Partnership ROYALTY OWNER: \_ UTM GPS NORTHING: 4358185.2 UTM GPS EASTING: 490031.6 GPS ELEVATION: 671' 603' 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 and 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					
Data Collection Method:					
Survey grade GPS: Post Processed Differential					
Real-Time Differential					
Mapping Grade GPS X : Post Processed Differential X					
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.

Title Uperations 4/24/14
Date

06/23/2017

HEDEWER Office of Oil and Gas

MAY 1 1 2017

WV Department of Environmental Protection