

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

Friday, June 09, 2017 WELL WORK PERMIT Not Available / Plugging

TRIAD HUNTER, LLC (A) 125 PUTNAM ST

MARIETTA, OH 45750

Re: Permit approval for 47-073-02530-00-00

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:

Farm Name: WV PULP & PAPER

U.S. WELL NUMBER: 47-073-02530-00-00

Not Available / Plugging

Date Issued: 6/9/2017

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. 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 April	5th		, 2017	
2)Operator	's			
Well No.	Hart To	op of the I	HiII #1	
3)API Well	No.	47-073	- 02530	

DEPARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4) Well Type: Oil X / Gas X / Liquid	d injection/ Waste disposal/
(If "Gas, Production or Und	derground storage) Deep/ Shallow
0521.01	Middle Obje North (McKim Creek)
5) Location: Elevation 953' GL District McKIm	Watershed Middle Ohio North (McKim Creek) County Pleasants Quadrangle Ellenboro (75)
District MCKIII	Quadrangle Cheribolo (13)
6) Well Operator Triad Hunter	7) Designated Agent Kim Arnold
Address 125 Putnam St.	Address P.O Box 154
Marietta, OH 45750	Waverly, WV 26184
8) Oil and Gas Inspector to be notified Name Derek Haught	9) Plugging Contractor Name Patchwork Oil & Gas, LLC
Address PO Box 85	Address PO Box 168
Smithville, WV 26178	Davisville, WV 26142
	PEREIVED Office of Oll and Gas
	MAY 1 1 2017
	(110) = 2 50.
	WV Department of Environmental Protection
Notification must be given to the district or work can commence.	il and gas inspector 24 hours before permitted
Work order approved by inspector	Date <u>5-4-17</u>
	06/09/201

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)
- 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

> HEOEIVED Office of Oil and Gas

> > MAY 1 1 2017

WV Department of Environmental Protection



Select datatypes: (Check All) Location ☑ Plugging nter Permit # 02530 Production Stratigraphy Sample Get Data Reset Btm Hole Loc Pay/Show/Water Logs

Well: County = 73 Permit = 02530

Report Time: Tuesday, February 28, 2017 8:10:29 AM

Well Reassignment Information: Reassigned From OLD_COUNTY_OLD_PERMIT_NEW_COUNTY_NEW_PERMIT 73 91859 73 2530

 Location Information:
 View Map

 API
 COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN 4707302530 Pleasants 2530 McKim Ellenboro St. Marys 39.372074 -81.120128 489652.6 4358074.2

There is no Bottom Hole Location data for this well

vner Information:
PI CMP_DT SUFFIX STATUS SURFACE_OWNER
07302530 4-J- Original Loc Completed West Virgina Pulp & Paper WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PF
1 Hart Top of Hill Paul Wilson et ux Triad Resources, Inc.

FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE PE RIG CMP_MTHD TVD TMD NEW_FTG G_BEF G_AFT O_BEF O_AFT available unknown unknown 4707302530 -l-l- -l-l-Comment: -l-l- N well

There is no Pay data for this well

Production NGL Information: (Volumes in Bbl) ** some operators may have rep

API PRODUCING_OPERATOR PRD_YEAR ANN_NGL JAN FEB MAR APR MAY
2013 0 0 0 0 0 0 0 0 0 4707302530 Triad Hunter LLC 4707302530 Triad Hunter LLC

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

Hart Top of Hill Well:

Cow Run: 977'

Oil: 982' TD: 991'

8": 12' 6 1/4": 635' Pulled

4 7/8": 977' No Shot Record Total Rods: 920'

5-7-1992: pulled rods, replaced 350' of wooden rods with new. New prop valve. Changed

cups. Reset Jack.

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

2/28/2017

BEGEIVER 06/09/2017 Office of Oil and Gas

MAY 1 1 2017

WV Department of **Environmental Protection** WW-4A Revised 6-07

APRIL 5TH, 2017 1) Date: 2) Operator's Well Number HART TOP OF THE HILL #1

3) API Well No.: 47 -

STATE OF WEST VIRGINIA

4) Surface Ov	vner(s) to be served:	5	i) (a) Coal Operator
(a) Name	Heartwood Forestland Fund IV		/_ Name
Address	3001 Emerson Ave.	N	Address
	Parkersburg, WV 2610	5	
(b) Name			(b) Coal Owner(s) with Declaration
Address			Name
	-		Address
(c) Name	·		Name
Address	-		Address
6) Inspector	Derek Haught		(c) Coal Lessee with Declaration
Address	PO Box 85		Name
	Smithville, WV 26178		Address
Telephone	304-206-7613		
wel (2) The	l its and the plugging wor e plat (surveyor's map) sho	k order; and owing the well loca ents is that you have	n Form WW-4B, which sets out the parties involved in the work and describes the ation on Form WW-6. rights regarding the application which are summarized in the instructions on the reverses side.
well (2) The The reaso However, Take notic accompan Protection the Appli	l its and the plugging wore plat (surveyor's map) sho n you received these docume you are not required to take a ce that under Chapter 22-6 of tying documents for a permit n, with respect to the well at the	k order; and owing the well loca ents is that you have any action at all. I the West Virginia Coto plug and abandon the location described on mailed by register.	rights regarding the application which are summarized in the instructions on the reverses side. Code, the undersigned well operator proposes to file or has filed this Notice and Application and a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental d on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, red or certified mail or delivered by hand to the person(s) named above (or by publication in
well (2) The The reaso However, Take notic accompan Protection the Appli	l its and the plugging wore plat (surveyor's map) sho n you received these docume you are not required to take a ce that under Chapter 22-6 of the ying documents for a permit n, with respect to the well at the cation, and the plat have been	k order; and owing the well loca ents is that you have any action at all. If the West Virginia Cotto plug and abandon the location described en mailed by register day of mailing or deligation.	rights regarding the application which are summarized in the instructions on the reverses side. Code, the undersigned well operator proposes to file or has filed this Notice and Application and a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental d on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, red or certified mail or delivered by hand to the person(s) named above (or by publication in livery to the Chief.
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well (2) The The reaso However, Take notic accompan Protection the Applic certain cir	I its and the plugging wore plat (surveyor's map) shown you received these docume you are not required to take a ce that under Chapter 22-6 or aying documents for a permit a, with respect to the well at a cation, and the plat have becommstances) on or before the recumstances.	k order; and owing the well loca ents is that you have any action at all. If the West Virginia Complete to plug and abandon the location described an mailed by register day of mailing or deligible. Well Operator By: Its: Address Telephone	rights regarding the application which are summarized in the instructions on the reverses side. Code, the undersigned well operator proposes to file or has filed this Notice and Application and a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental don the attached Application and depicted on the attached Form WW-6. Copies of this Notice, ared or certified mail or delivered by hand to the person(s) named above (or by publication in livery to the Chief. Triad Hunter, LLC Mike Horan Senior V.P Appalachian Operations 125 Putnam Street Marietta, OH 45750 740-374-2940 day of April 240-374-2940

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.

06/09/2017

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MAY 1 1 2017

WV Department of Environmental Protection

API Number	47 -	073	_025				663
Operator's W	ell N	Hart	Too	20	the	Hill	世

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

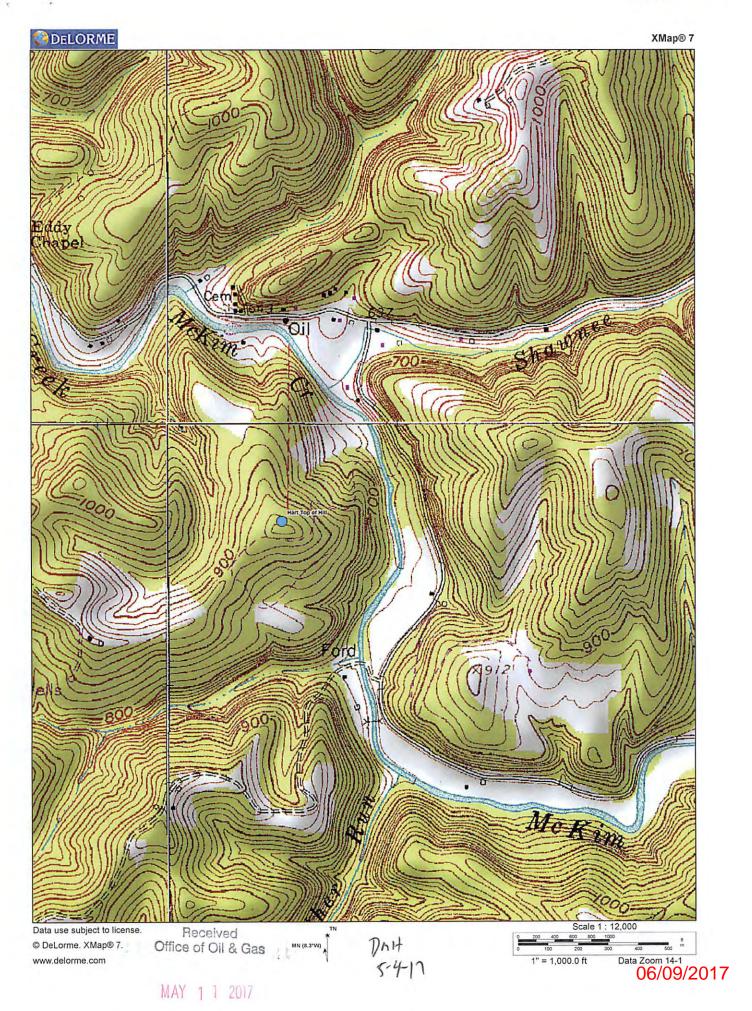
Operator Name_TRIAD HUNTER, LLC OP Code 494494833
Watershed (HUC 10) OUTLET MIDDLE ISLAND CREEK Quadrangle ELLENBORO (75)
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes: ALL WELL EFFLUENT MISS BE DISPOSED OF OFF- SIT
Land Application (if selected provide a completed form WW-9-GPP) PROPERLY. 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 portable pit
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 Cas 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 Company Official (Typed Name) Mike Horan
Company Official Title Senior V.P Appalachian Operations
Company Official Title Seriol V.1 Appalachian Operations
Subscribed and sworn before me this 35th day of April , 2017 Anula & Malalaw Rublic
My commission expires 8-9-2020 **Parnela K. Nicholson Natar Public 2017 In and For The State Commission Expires 8-9-2020
Office of Oil and Gas

MAY 1 1 2017

WV Department of Environmental Protection

Operator's Well No. Hart Top of the

Revegetation Treatment: Acres Disturb	correct to pH 6.5	Preveg etation pH	
	correct to pH 0.0		
Fertilizer type 10-20-20			
Fertilizer amount 500	lbs/acre		
Mulch (50 bales) 2	.5 Tons/acre		
	Seed Mixtures		
Temporary		Permane	nt
Seed Type lbs/acre		Seed Type	
	Orcha	rd Grass	30%
	Rye (A	Annual & BT)	35%
	Timoth	ny (Climax)	25%
	Clover	r (Med. Red)	10%
of road, location, pit and proposed area for the pit will be land applied and area in acres, of the land application pied section of involved 7.5' topographic	ed, provide water volume, in area.	engineered plans includin nclude dimensions (L, W	g this info have be (, D) of the pit, and
d). If water from the pit will be land appliand area in acres, of the land application pied section of involved 7.5' topographic	ed, provide water volume, in area.	engineered plans includin nclude dimensions (L, W	g this info have be , D) of the pit, and
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d). If water from the pit will be land appliand area in acres, of the land application pied section of involved 7.5' topographic proved by:	ed, provide water volume, in area.	RECEIVE	, D) of the pit, and
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d). If water from the pit will be land appliand area in acres, of the land application pied section of involved 7.5' topographic proved by:	ed, provide water volume, in area.	RECEIVE Office of Oil at MAY 1 1 2	D) of the pit, and not Gas
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WW-7 8-30-06



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

API: 47-073-02530 WELL NO.: Hart Top of the Hill #1

er
Hunter, LLC
DISTRICT: McKim
tland Fund IV Limited Partnership
GPS ELEVATION: 953' GL
n, Coordinate Units: meters, Altitude:) – meters.
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06/09/2017

Office of Oil and Gas

MAY 1 1 2017

WV Department of Environmental Protection