

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

Thursday, June 15, 2017 WELL WORK PERMIT Not Available / Plugging

TRIAD HUNTER, LLC (A) 125 PUTNAM ST

MARIETTA, OH 45750

Re: Permit approval for 5 47-073-02147-00-00

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: 5 Farm Name: DAVIS, OTIS D. U.S. WELL NUMBER: 47-073-02147-00-00 Not Available / Plugging Date Issued: 6/15/2017

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.

WW-41 Rev.	B 2/01	1) Date April 5th , 20 17 2) Operator's Well No. Owens #5 (#2147) 3) API Well No. 47-073 - 2010
	DEPARTMENT OF ENVIR	ST VIRGINIA CONMENTAL PROTECTION DIL AND GAS
	APPLICATION FOR A PERM	IIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas X / Liquid (If "Gas, Production or Und	injection/ Waste disposal/ erground storage) Deep/ Shallow
5)	Location: Elevation615	Watershed Middle Ohio North (Ohio River)
	District Union	County Pleasants Quadrangle Ben's Run (75)
6)	Well Operator Triad Hunter	7)Designated AgentKim 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 Address PO Box 85 Smithville, WV 26178	9) Plugging Contractor Name Patchwork Oil & Gas, LLC Address PO Box 168 Davisville, WV 26142

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

See attached

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HEGEIWEH 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	5-4-17
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06/16/2017

WW-4B Work Order Attachment

47-073-02146 Owens #5 (#2147)

OPEN HOLE

1. MIRU Service rig, pull rods and tubing out of hole (if any), clean hole to TD $\approx 1500^{\circ}$.

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.

PULL ALL FREE CASING. FREEPOINT, CUT & PULL IF NECESSARY. g/WWW

Office of Oil and Gas

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06/16/2017

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WR-35 WEA	State of We Division of Environ Section of O Well Operator's Ro DAVIS, OTIS D.	nmental Pr il and Gas eport of W	la rotection 3		7-Dec-93 -02147 N	73621470
LOCATION:	,			2		
2000000000	District: UNION Latitude: 1350 Feet Sout Longitude 9700 Feet West	th of 39	Deg. 27Min	30 500	•	
P.O.	, CLAYTON & JOYCE BOX 46 RUN, WV 26135-0046	6			Cement Fill Up	
Agent: CLAY	TON HILL		Drilling	11 Well	CU. Pt. 	
Total Depth	d: 12/07/93 mmenced: mpleted: ing	size <u></u>				
Salt water d	lepths (ft)		, i			
Is coal bein Coal Depths	g mined in area (Y/N)? <u>//</u> (ft):					
OPEN FLOW DA	ТА				. '	
Gas: In Fi Static Second Gas: In Fi Ti	nal open flow MCF/ me of open flow between in	d Fi litial and (surface d Oil: In d Fi litial and	nal open fl final test pressure) Pay zone d itial open nal open fl	flow ow after lepth (ft) flow s	Bbl/d Bbl/d Hours Hours	

<u>. .</u>

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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

laya By: Date

RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection

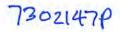
06/16/2017

1:302147P 4700 3927 30 IRA the undersigned, Hereby certify lτ that this plat is correct to the best of my knowledge and belief. SIGNED Clayton D. Hill TITLE_ Quiner 18454 DATE Feb. 8 ,1993 OPERATORS WELL NO._ API WELL NO. 073-2147-N STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION LIQUID INJECTION ____WASTE U WELL TYPE: OIL WELL TYPE: OIL____GAS___LIQUI (IE "GAS" PRODUCTION____STORAGE_ WASTE DISPOSAL_ 6 15 est ELEVATION____ LOCATION: WATER SHED OHÍO RIVER COUNTY Pleasants DISTRICT UNION • QUADRANGLE BENS AVN 7.5 SURFACE OWNER OH: S D Davis ACREAGE Genelaling E Sauth Etal OIL & GAS ROYALTY OWNER Nellie F Leady Ctal Rul Wikey LEASE ACREAGE 34 LEASE NO. Owen's PRODUCING FORMATION This _ TOTAL DEPTH___ WELL OPERATOR Clayton D H. 11 __ DESIGNATED AGENT___ P. D. Box 46 ADDRESS _ ADDRESS_ WV 26135 Bens Ł

Office of Oil and Gas 06/16/2017

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WV Department of Environmental Protection



WVGES O&G Record Reporting System

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Page 1 of 1

WVGES	Select County. (073) Please Enter Permit # 02147 Get Data Reset	Location Owner/Completion	Production	Plugging	Table Descriptions County Code Transistions Permit Numbering Series Usage Notes Contact Information Disclammer
"Pipeline"	Gerbaia	Pay/Show/Water	Logs	Btm Hole Loc	WVGES Main "Pipelme-Plus" New
WV Geological & Economic S	Survey	Well	County =	73 Permit = 0	2147 Report Time Tuesday, February 28, 2017 8:13:07 AM
API COUNTY PER 4707302147 Pleasants 2147	MIT TAX DISTRICT QUAD 75	QUAD_15 LAT_DD LON_DD St. Marys 39.454348 -81.117772	UTME UTMN 489867.5 436720	4.7	
here is no Bottom Hole	Location data for this well				
Owner Information: API CMP_DT SUFI 4707302147 -/-/- Origin	FIX STATUS SURFACE_C nai Loc Completed Otis D Davis	WNER WELL_NUM CO_NUM L	ASE LEASE_NUM		OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR Vicox Hill Clayton D. 8 Joyce
Completion Information: API CMP_DT SPUI 4707302147 -/-//-/-	D_DT ELEV DATUM FI 615 Topo Estimation Be	ELD DEEPEST_FM DEEPEST ns Run Big Injun (i	FMT INITIAL_CLA	ASS FINAL_CLASS	S TYPE RIG CMP_MTHD TVD TMD NEW_FTG G_BEF G_AFT O_BEF O_AFT Oil unknown unknown 0 0 0 0
Pay/Show/Water Informa API CMP_DT ACTI 4707302147 -/-/- Pay	ation: WITY PRODUCT SECTION DEI	TH_TOP FM_TOP DEPTH	BOT FM_BOT	G_BEF G_A	FT D_BEF O_AFT WATER_QNTY
		Big Injun (undiff)	0 Big Injun (ut	ndiff) 0	<u>0</u>
407302142 Hill, Clayton D. 4707302147 Triad Resource 4707302147 Triad Hunter 4707302147 Triad Hunter 470730147 Triad Hunter 470730147 Tr	Subject Tork PRD_VEAR ANN_CC Subject 1995 Subject 1996 Subject 1997 Subject 1997 Subject 2004 Subject 1997 Subject 2006 Subject 2010 C 2010 C 2011 C 2012 C 2014 C 2015 Subject 1994 Subject 1994 Subject 1994 Subject 1994 Subject 1996 Subject 1997 Subject 1996 Subject 1997 Subject 1996 Subject 1996 Subject 1997 <	AS JAN FEB MAR APR MAY 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 5 0 <t< th=""><th>0 0 0 0 0 0 0 0 0</th><th>0 0 0 0 0 0 0</th><th></th></t<>	0 0 0 0 0 0 0	0 0 0 0 0 0 0	
Production NGL Informal PRODUCING_C 1707302147 Triad Hunter LL 1707302147 Triad Hunter LL 1707302147 Triad Hunter LL	C 2013 C 2014	Image Operators may have reported GL JAN FEB MAR APR MAY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rted NGL under JUN JUL AUG S 0 0 0 0 0 0 0 0 0	EP OCT NOV DC	M D 0 0
here is no Stratigraphy	data for this well				
There is no Wireline (E-L	og) data for this well				
There is no Plugging dat	a for this well				
There is no Sample data	for this well				Office of Oil and Gas

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WV Department of Environmental Protection

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



WW-4A Revised 6-07

1) Date	APRIL 5TH, 2017	
2) Oper	ator's Well Number	
Owens #5	#2147)	

3) API Well No.: 47 -

073 - 02147

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL</u>

4)	Surface Ow (a) Name	ner(s) to be served: Davis Ottis D. & Donna L.	5) (a)	Coal Operator Name	
	Address	64 Bryant Davis Lane		Address	
		St. Mary's, WV 26170			
	(b) Name			(b) Coal Owne	er(s) with Declaration
	Address			Name	
				Address	
	(c) Name			Name	
	Address			Address	
6)	Inspector	Derek Haught		(c) Coal Lesse	ee with Declaration
	Address	PO Box 85		Name	
		Smithville, WV 26178		Address	
	Telephone	304-206-7613			

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

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
 When the term of the plugging work order is the plugging work order.

(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	Triad Hunter, LLC
By:	Mike Horan
Its:	Senior V.P Appalachian Operations
Pamela K. Nicholsor A dares Sublic In and For The State of Ohio	125 Putnam Street
(* My Commission Express 9 2020	Marietta, OH 45750
My Commission Examples	740-374-2940
US CONTRACTOR	
ATE OF ON	
Subscribed and sworn before me this 3544 da	ay of April, 2017
Panel K Wahalson	Notary Public
My Commission Expires 8-9-2020	

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 <u>depprivacyoffier@wv.gov</u>.

06/16/2017

Office of Oil and Gas

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

API Number	47 - 073	_02147	
Operator's We	Il No. Ovv	ens # 5	(2147)

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) Ohio River	Quadrangle Ben's Run (75)
Do you anticipate using more than 5,000 bbls of water to complete Will a pit be used? Yes No	the proposed well work? Yes No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes N	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	ALL WELL EFFLURNT MUST DALL
Land Application (if selected provide a	completed form WW-9-GPP) AND DISPOSED OF 5-4
Underground Injection (UIC Permit N	imber OFFSITE BY PROPER METHING. 7-1
Reuse (at API Number) Q NAY
Off Site Disposal (Supply form WW-9 Other (Explain_Fluids will be disposed	for disposal location) of by plugging contractor
Will closed loop systembe used? If so, describe: Yes, all flowba	ck 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 off	site, etcn/a
-If left in pit and plan to solidify what medium will be use	ed? (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 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

Subscribed and swom before me this 25th day of Cip	, 20_17
My commission expires 8-9-2020 HEBEIVEB Office of Oil and Gas MAY 1 1 2017	Pamela K. Nicholson, Notan Pamela K. Nicholson, Notan Pa
WV Department of Environmental Protection	

Form WW-9

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Operator's Well No. Owens #5 (2147)

Proposed Revegetation Treat	ment: Acres Disturbed	One (1)	Preveg etation pH	5.5	
Lime Two (2)	Tons/acre or to co	prrect to pH 6.5			
Fertilizer type 10-	20-20				
Fertilizer amount 5	00	lbs/acre	lbs/acre		
Mulch (50 bales)	2.5	Tons/acre			
		Seed Mixtures			
Те	mporar y		Permane	nt	
Seed Type	lbs/acre		Seed Type	lbs/acre	
		Orchar	rd Grass	30%	
		Rye (A	nnual & BT)	35%	
		Timoth	ıy (Climax)	25%	
		Clover	(Med. Red)	10%	

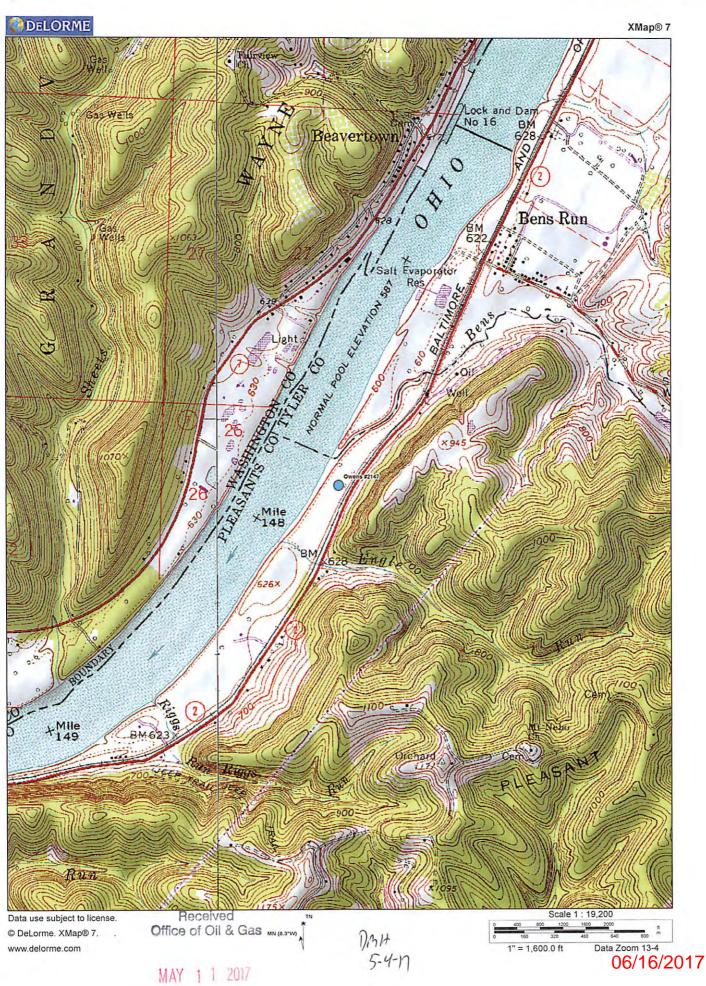
Attach:

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:	
	·····
	· · · · · · · · · · · · · · · · · · ·
Fitle: Oil + Ges Inspector Date: Date:	5-4-17
Field Reviewed? ()Yes ()No	
	RECEIVED Gas
	RECEIVE d Gas
	Office of On an 06/16/20
	MAY 1 1 2017
	artment of
	WV Department of Environmental Protection
	Environmentian

7302147 P



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WW-7 8-30-06	
Office of	t of Environmental Protection f Oil and Gas
WELL LOCAT	FION FORM: GPS
_{АРІ:} 47-073-02147	WELL NO.: Owens #5 (#2147)
FARM NAME: Davis, Otis D	
RESPONSIBLE PARTY NAME: Tria	ad Hunter, LLC
COUNTY: Pleasants	DISTRICT: Union
QUADRANGLE: Ben's Run ((75)
SURFACE OWNER: Davis Otti	
ROYALTY OWNER:	
UTM GPS NORTHING: 4367204	4.7
UTM GPS EASTING: 489867.5	GPS ELEVATION: 615'

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
- 3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential

Mapping Grade GPS X : Post Processed Differential X

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.

Mil Va Signature

06/16/2017

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MAY 1 1 2017

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