

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

Wednesday, June 21, 2017 WELL WORK PERMIT Not Available / Plugging

TRIAD HUNTER, LLC (A) 125 PUTNAM ST

MARIETTA, OH 45750

Re: Permit approval for OWENS 1

47-073-02145-00-00

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: OWENS 1 Farm Name: DAVIS, OTIS D.

U.S. WELL NUMBER: 47-073-02145-00-00

Not Available / Plugging

Date Issued: 6/21/2017

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. Owens #1 (#2145)
3) API Well No. 47-	· 073 — 02145

DEPARTMENT OF I	OF WEST VIRGINIA ENVIRONMENTAL PROTECTION : OF OIL AND GAS
APPLICATION FOR A	PERMIT TO PLUG AND ABANDON
4) Well Type: Oil X / Gas X / L:	iquid injection/ Waste disposal/
	r Underground storage) Deep/ Shallow
5) Location: Elevation 610'	Watershed Middle Ohio North (Ohio River)
District Union	County Pleasants Quadrangle Ben's Run (75)
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	d 9) Plugging Contractor Name Patchwork Oil & Gas, LLC
Address PO Box 85	Address PO Box 168
Smithville, WV 26178	Davisville, WV 26142
See attached	
	RESEIVED Office of Oil and Gas
	MAY 1 1 2017
•	WV Department of Environmental Protection
Notification must be given to the districtions work can commence.	ct oil and gas inspector 24 hours before permitted
Nork order approved by inspector	Date 5-4-17
	06/23/2017

WW-4B Work Order Attachment

47-073-02145 Owens #1 (#2145)

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

> RECEIVED Office of Oil and Gas

MAY 1 1 2017



State of West Virginia Division of Environmental Protection Section of Oil and Gas

7302145 P

Well Operator's Report of Well Work

DAVIS, OTIS D. Farm name:

Operator Well No. #1

Elevation: 610.00 LOCATION:

Quadrangle: BENS RUN

UNION County: PLEASANTS 1000 Feet South of 39 Deg. 27Min. 30 Sec. 9850 Feet West of 81 Deg. 5 Min. Sec District: Latitude:

Company:HILL, CLAYTON & JOYCE P.O. BOX 46 BENS RUN, WV 26135-0046	&	Used in		Cement Fill Up Cu. Ft.
Agent: CLAYTON HILL	Size			
Inspector: SAM HERSMAN	5126			
Permit Issued: 12/07/93 Well work Commenced:	10		<u> </u>	i
Well work Completed:	,,			(j
Verbal Plugging	6/4			
Permission granted on: Rotary Cable Rig		i	1	
Total Depth (feet)	9			i i
Fresh water depths (ft)				
Salt water depths (ft)				
Is coal being mined in area (Y/N)? N Coal Depths (ft):				
OPEN FLOW DATA				
Producing formation		Pay zone	depth (ft	1
	d oil: i	nitial open		

Producing formation	Pay zone depth (ft)	
Gas: Initial open flow	MCF/d Oil: Initial open flow	Bb1/d
Final open flow	MCF/d Final open flow	Bb1/d
Time of open flow betw	een initial and final tests	Hours
	psig (surface pressure) after	Hours
Second producing formation	Pay zone depth (ft)	
Gas: Initial open flow	MCF/d Oil: Initial open flow	Bbl/d
Final open flow	MCF/d Final open flow	Bb1/d
Time of open flow betw	een initial and final tests	Hours
Static rock Pressure	psig (surface pressure) after	Hours

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.

For: HILL,

REGEIVED Office of Oil and Gas 23/2017

MAY 1 1 2017

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	000
I, the undersigned, Hereby certify that	
this plat is correct to the best of my knowledge and belief.	
	TITLE Owner
0	TITLE Causer
18452	DATE [cb. 8, 1993
	OPERATORS WELL NO. 1
12.25 12.2	API WELL NO. 073-2145-2
DEPARTMEN	EST VIRGINIA F OF ENERGY AS DIVISION
WELL TYPE: OTHE GAS LIQUID INJE	CTION WASTE DISPOSAL
TIE "GAS" PRODUCTIONSTORAGEDEN	EPSHALLOW X
DISTRICT UNION QUADRANGLE DEN AUX 2.5	COUNTY Pleasants
SURFACE OWNER Otis D. Devis	ACREAGE
OIL & GAS ROYALTY OWNER Garaldine & Snith	al Pallwkox
LEASE NO. Oweds	· o
PRODUCING FORMATION Tojen	TOTAL DEPTH
WELL OPERATOR Clayfon D H. 11	DESIGNATED AGENT
ADDRESS POR 46	ADDRESS
Bens Kun WV 26/30	D

Office of Oil and Gas

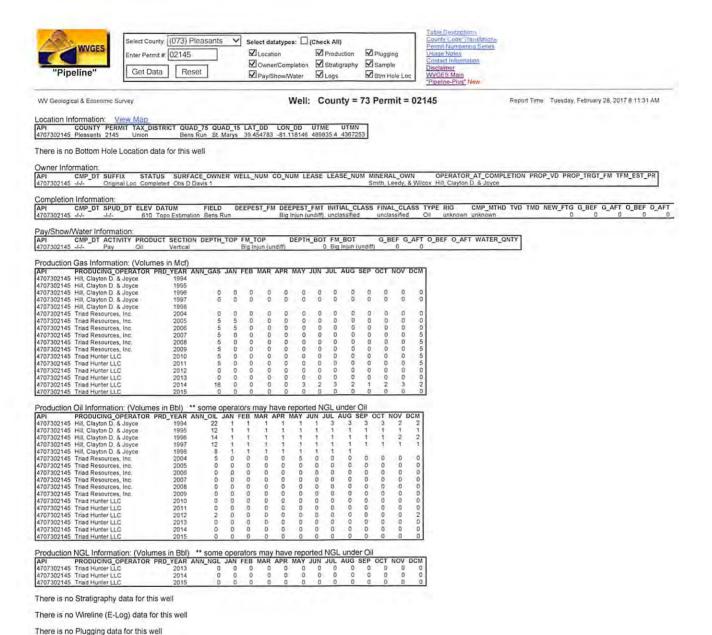
MAY 1 1 2017

WV Department of Environmental Protection 06/23/2017

WVGES O&G Record Reporting System

) x

Page 1 of 1



REGEIVED

WV Department of Environmental Protection

There is no Sample data for this well

WW-4A Revised 6-07

APRIL 5TH, 2017 2) Operator's Well Number Owens #1 (#2145)

3) API Well No.: 47 -

073 - 02145

STATE OF WEST VIRGINIA

Surface Ov	vner(s) to be served:	5) ((a) Coal Operator
(a) Name	Davis Ottis D. & Donna		Name
Address	64 Bryant Davis Lane		Address
	St. Mary's, WV 26170		
(b) Name			(b) Coal Owner(s) with Declaration
Address			Name
			Address
(c) Name			Name
Address			Address
nspector	Derek Haught		(c) Coal Lessee with Declaration
Address	PO Box 85		Name
	Smithville, WV 26178		Address
Telephone	304-206-7613		
(2) The The reaso However,	I its and the plugging worl plat (surveyor's map) sho n you received these docume you are not required to take a ce that under Chapter 22-6 of	k order; and owing the well location into its that you have rigous action at all. The West Virginia Cod	ghts regarding the application which are summarized in the instructions on the reverses side. le, the undersigned well operator proposes to file or has filed this Notice and Application and
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business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act re 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>.

06/23/2017

REGEIVED Office of Oil and Gas

MAY 11 2017

WW-9 (5/16)

API Number 47 - 073 _02145
Operator's Well No. 0 = 1 (2145)

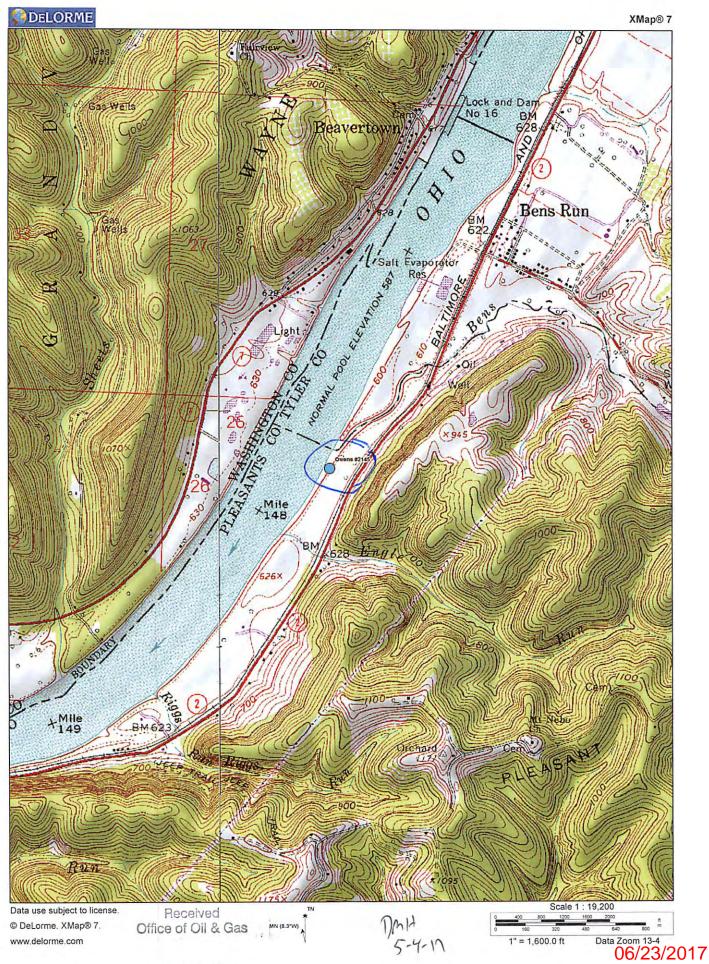
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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 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:
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 Fluids will be disposed of by plugging contractor BE DISPOSED OF OFF-SO
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 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 // Hill Hove
Company Official (Typed Name) Mike Horan
Company Official Title Senior V.P Appalachian Operations
Subscribed and swom before me this ASTR day of April , 2017 Tanual & Motary Rublic
My commission expires 8-9-3030
RECEIVED Office of Oil and Gas
MAY 1 1 2017

roposed Revegetation Treat	tment: Acres Disturb	One (1) Prevegetation p	_H 5.5	
Lime Two (2)	Tons/acre or to	correct to pH 6.5		
Fertilizer type 10-	20-20			
Fertilizer amount 5	00	lbs/acre		
Mulch_(50 bales)	2.	Tons/acre		
		Seed Mixtures		
Те	mporary	Perma	nent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
		Orchard Grass	30%	
		Rye (Annual & BT)	35%	
		Timothy (Climax)	25%	
faps(s) of road, location, pit rovided). If water from the	pit will be land applie	r land application (unless engineered plans includ, provide water volume, include dimensions (L,		
Maps(s) of road, location, pit rovided). If water from the L., W), and area in acres, of thotocopied section of involved.	pit will be land applie the land application a ved 7.5' topographics	r land application (unless engineered plans inclu d, provide water volume, include dimensions (L, rea. heet.	ding this info have been W, D) of the pit, and di	
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AEGEIVED 06/23/2017 Office of Oil and Gas

MAY 1 1 2017



WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

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:

e	TOHOW	ng 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
	Mappi	ng 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.

Signature

Holan V.P. Operations 4/24/17
Title Date

06/23/2017

REGEIVED Office of Oil and Gas

MAY 1 1 2017