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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

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

Tuesday, June 13, 2017  
WELL WORK PERMIT  
Not Available / Plugging

TRIAD HUNTER, LLC (A)  
125 PUTNAM ST

MARIETTA, OH 45750

Re: Permit approval for 2  
47-073-02146-00-00

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: 2  
Farm Name: DAVIS, OTIS D.  
U.S. WELL NUMBER: 47-073-02146-00-00  
Not Available / Plugging  
Date Issued: 6/13/2017

Promoting a healthy environment.

06/16/2017

## 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

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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.

OPEN HOLE

1. MIRU Service rig, pull rods and tubing out of hole (if any), clean hole to TD, *THEN SPOT GEL.*
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.

*Dmit*  
*5-4-17*

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 MAY 11 2017  
 WV Department of  
 Environmental Protection

0804  
Permitting  
Office of Oil & Gas

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

7302146 P

Well Operator's Report of Well Work

Farm name: DAVIS, OTIS D.

Operator Well No.: <sup>Owens</sup>\*2

LOCATION: Elevation: 610.00      Quadrangle: BENS RUN

District: UNION      County: PLEASANTS  
Latitude: 1800 Feet South of 39 Deg. 27Min. 30 Sec.  
Longitude 10100 Feet West of 81 Deg. 5 Min.      Sec.

Company: HILL, CLAYTON & JOYCE  
P.O. BOX 46  
BENS RUN, WV 26135-0046

Agent: CLAYTON HILL

Inspector: SAM HERSMAN  
Permit Issued: 12/07/93  
Well work Commenced: \_\_\_\_\_  
Well work Completed: \_\_\_\_\_  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary Cable Rig \_\_\_\_\_  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10			
8			
6 1/4			
2			

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

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 \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ 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 \_\_\_\_\_ Bbl/d  
Time of open flow between 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: Clayton & Joyce Hill  
HILL, CLAYTON & JOYCE  
By: Clayton D Hill  
Date: 5-28-94

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Select County: (073) Pleasants  
 Enter Permit #: 02146  
 Select datatypes:  (Check All)  
 Location  Production  Plugging  
 Owner/Completion  Stratigraphy  Sample  
 Pay/ShowWater  Logs  Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 73 Permit = 02146

Report Time: Tuesday, February 28, 2017 8:12:27 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
4707302146	Pleasants	2146	Union	Bens Run	St. Marys	39.454203	-81.118707	489787	4387188.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4707302146	--		Original Loc	Completed	Otis D Davis 2					Smith, Leedy & Wilcox, Hill, Clayton D & Joyce				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT
4707302146	--	--	610	Topo Estimation	Bens Run	Big Injun (undiff)		unclassified	unclassified	Oil	unknown	unknown				0	0	0	0

Pay/ShowWater Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4707302146	--	Pay	Oil	Vertical		Big Injun (undiff)	0	Big Injun (undiff)	0	0	0	0	

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4707302146	Hill, Clayton D. & Joyce	1994													
4707302146	Hill, Clayton D. & Joyce	1995													
4707302146	Hill, Clayton D. & Joyce	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Hill, Clayton D. & Joyce	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Hill, Clayton D. & Joyce	1998													
4707302146	Triad Resources, Inc.	2004	5	0	0	0	5	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2006	5	5	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4707302146	Triad Resources, Inc.	2008	5	0	0	0	0	0	0	0	0	0	0	0	5
4707302146	Triad Resources, Inc.	2009	5	0	0	0	0	0	0	0	0	0	0	0	5
4707302146	Triad Hunter LLC	2010	5	0	0	0	0	0	0	0	0	0	0	0	5
4707302146	Triad Hunter LLC	2011	5	0	0	0	0	0	0	0	0	0	0	0	5
4707302146	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2014	18	0	0	0	0	1	3	2	3	2	2	2	3
4707302146	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4707302146	Hill, Clayton D. & Joyce	1994	22	1	1	1	1	1	1	3	3	3	3	2	2
4707302146	Hill, Clayton D. & Joyce	1995	12	1	1	1	1	1	1	1	1	1	1	1	1
4707302146	Hill, Clayton D. & Joyce	1996	14	1	1	1	1	1	1	1	1	1	1	2	2
4707302146	Hill, Clayton D. & Joyce	1997	12	1	1	1	1	1	1	1	1	1	1	1	1
4707302146	Hill, Clayton D. & Joyce	1998	8	1	1	1	1	1	1	1	1	1	1	1	1
4707302146	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4707302146	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4707302146	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4707302146	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

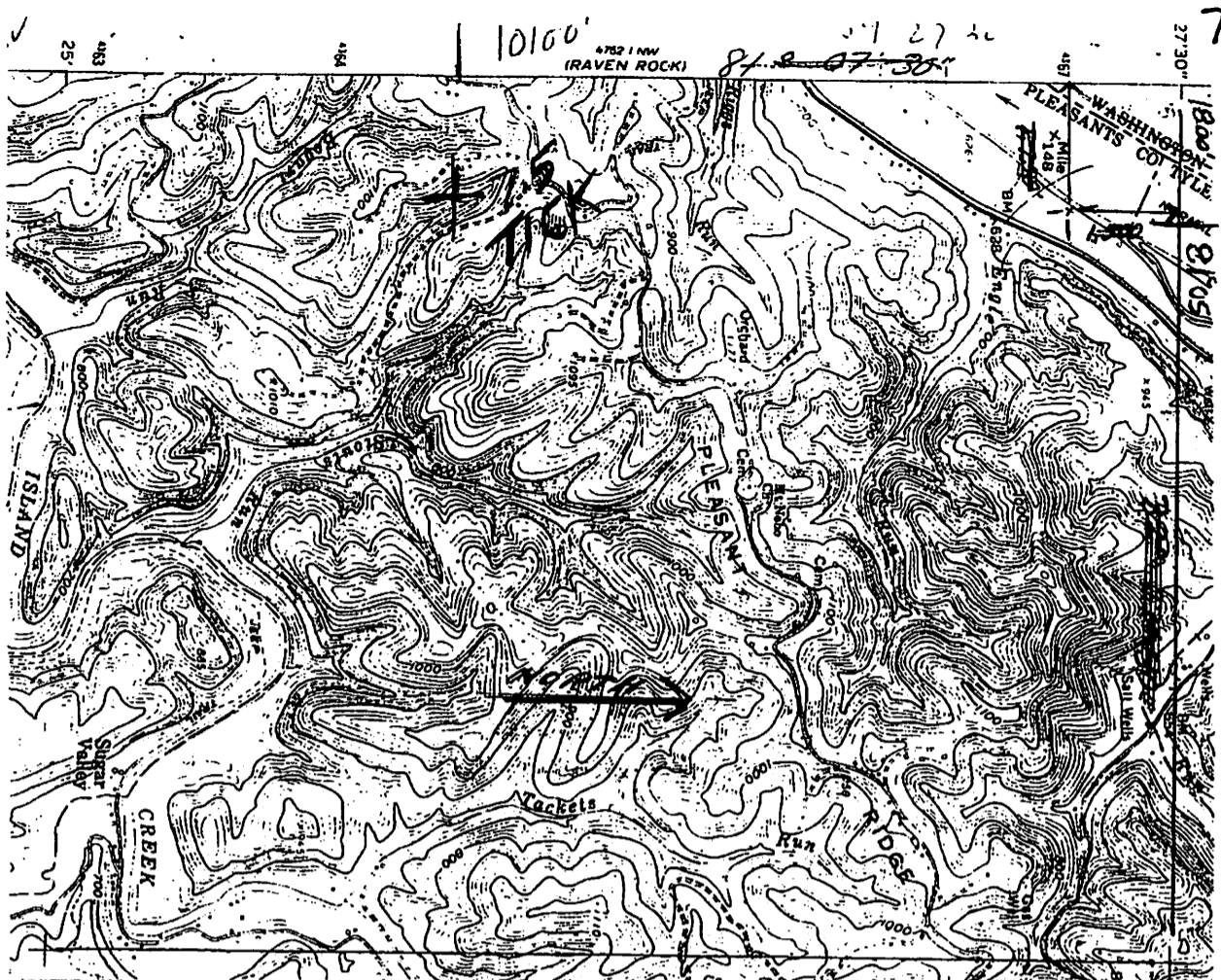
There is no Stratigraphy data for this well

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

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I, the undersigned, Hereby certify that this plat is correct to the best of my knowledge and belief.

SIGNED Clayton D Hill

TITLE Owner

18453

DATE Feb. 8, 1993

OPERATORS WELL NO. 2

API WELL NO. 073-2146-A

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(if "GAS" PRODUCTION STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 610 rot WATER SHED OHIO RIVER  
DISTRICT UNION COUNTY Pleasants  
QUADRANGLE Bears Run 2.5

SURFACE OWNER Otis D. Davis ACREAGE 34

OIL & GAS ROYALTY OWNER Comdine Smith Etal LEASE ACREAGE 34  
LEASE NO. OWENS

PRODUCING FORMATION Injun TOTAL DEPTH \_\_\_\_\_

WELL OPERATOR Clayton D Hill DESIGNATED AGENT \_\_\_\_\_

ADDRESS: PO Box 46 ADDRESS \_\_\_\_\_  
Bears Run WV 26135

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WW-4A  
Revised 6-07

1) Date: APRIL 5TH, 2017  
2) Operator's Well Number  
Owens #2 (#2146)  
3) API Well No.: 47 - 073 - 02146

**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>Davis Ottis D. &amp; Donna L.</u>	Name _____
Address <u>64 Bryant Davis Lane</u>	Address _____
<u>St. Mary's, WV 26170</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 85</u>	Name _____
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</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 Triad Hunter, LLC  
 By: Mike Horan  
 Its: Senior V.P Appalachian Operations  
 Address 125 Putnam Street  
Marietta, OH 45750  
 Telephone 740-374-2940

Subscribed and sworn before me this 15<sup>th</sup> day of April, 2017  
Pamela K. Nicholson  
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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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Environmental Protection

WW-9  
(5/16)

API Number 47 - 073 - 02146  
Operator's Well No. Owens #2 (2146)

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

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) *NO LAND APPLICATION,*
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location) *ALL WELL EFFLUENT MUST BE DISPOSED OF PROPERLY, OFF-SITE. gmm*
- Other (Explain Fluids will be disposed of by plugging contractor)

Will closed loop system be used? If so, describe: Yes, all flowback materials will be contained in a portable pit *DMH 5-4-17*

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 *Mike Horan*

Company Official (Typed Name) Mike Horan

Company Official Title Senior V.P Appalachian Operations

Subscribed and sworn before me this 25<sup>th</sup> day of April, 2017

*Pamela K. Nicholson*

My commission expires 8-9-2020



Pamela K. Nicholson, Notary Public  
In and For The State of Ohio  
My Commission Expires 06/16/2017

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Form WW-9

Operator's Well No. OWENS #2 (2146)

Proposed Revegetation Treatment: Acres Disturbed One (1) Prevegetation pH 5.5

Lime TWO (2) Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch (50 bales) 2.5 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
		Orchard Grass	30%
		Rye (Annual & BT)	35%
		Timothy (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: [Signature]

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title: Oil & Gas Inspector Date: 5-4-17

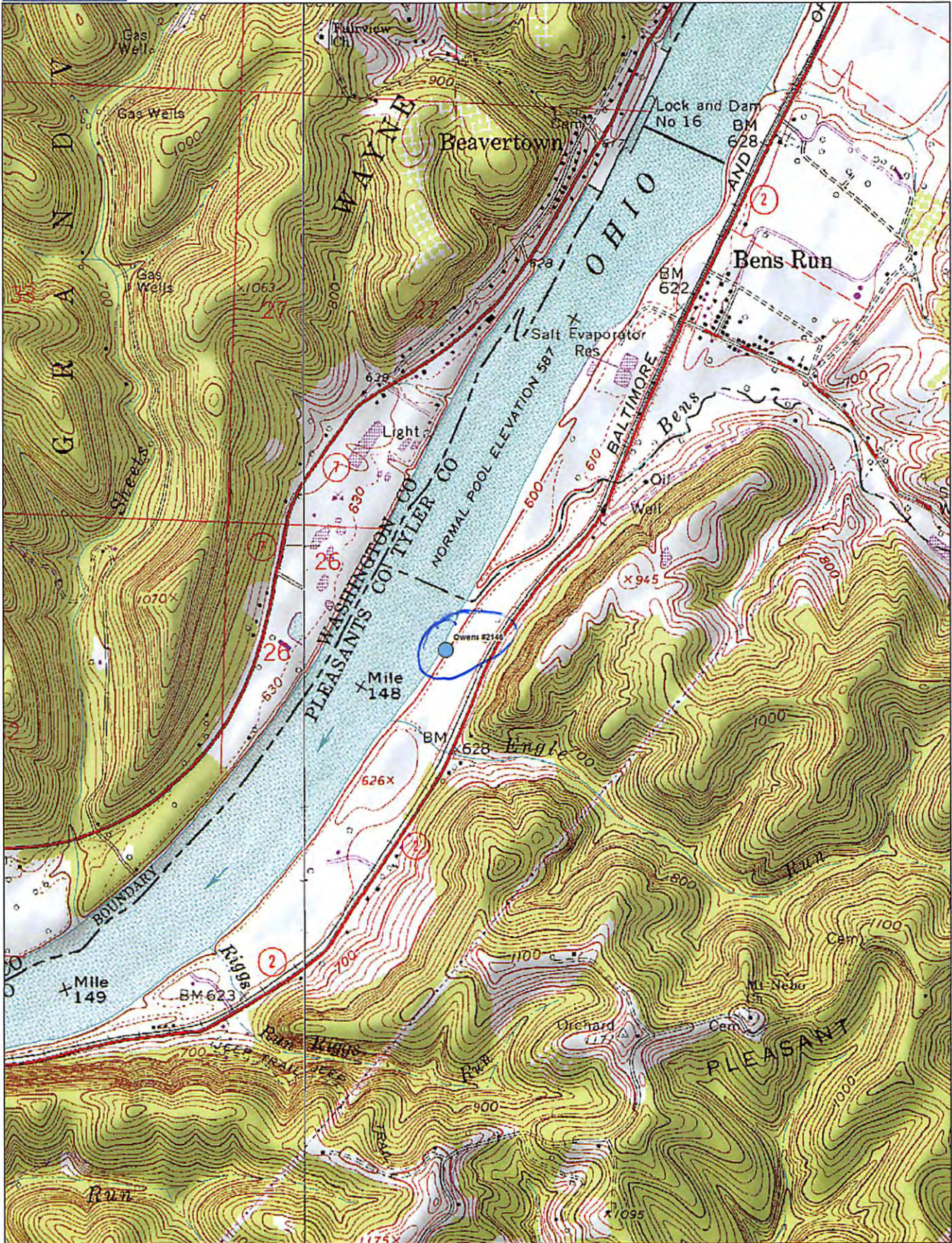
Field Reviewed?  Yes  No

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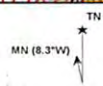
7302146P



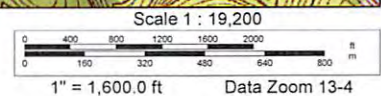
Data use subject to license.

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DH  
5-4-17



06/16/2017

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