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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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, June 15, 2018

WELL WORK PLUGGING PERMIT  
Vertical Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 412  
47-033-01649-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: 412  
Farm Name: KYLE, J. W.  
U.S. WELL NUMBER: 47-033-01649-00-00  
Vertical Plugging  
Date Issued: 6/15/2018

Promoting a healthy environment.

I

33-01649P

## 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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

Form WW-4 (B)  
Permit Copy  
(Rev 2/01)

Date: April 10, 2018  
Operator's Well  
Well No. 651161 Kyle #412  
API Well No.: 47 033 - 01649

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil  Gas  Liquid Injection  Waste Disposal   
If Gas, Production  Or Underground storage  Deep  Shallow
- 5) Elevation: 1415 Watershed: Catfish Run of Ten Mile Creek  
Location: Sardis County: Harrison Quadrangle: Wolf Summit  
District: \_\_\_\_\_
- 6) Well Operator: EQT Production Company  
120 Professional Place  
Address: Bridgeport, WV 26330
- 7) Designated Agent: Jason Ranson  
Address: 120 Professional Place  
Bridgeport, WV 26330
- 8) Oil & Gas: Sam Ward  
Name: PO Box 2327  
Address: Buckhannon WV 26201
- 9) Plugging Contractor:  
Name: HydroCarbon Well Service  
Address: PO BOX 995  
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attachment for details and procedures.**

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Office of Oil and Gas  
JUN 15 2018  
WV Department of  
Environmental Protection

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector [Signature] Date 6/11/2018

## PLUGGING PROGNOS

651161  
 J.W.Kyle #412  
 API# 47-033-01649  
 District. Sardis  
 Harrison County. WV

BY: R Green  
 DATE: 10/18/17

**CURRENT STATUS:**  
 TD @ 2768'  
 Elevation @ 1415'

10" casing @ 398'  
 8 1/4" casing @ 1441' (Pulled)  
 6 5/8" casing @ 1724'  
 2" tubing @ 1851' (Set on 2" X 6 5/8" packer @ 1851')

Fresh Water @ None Reported  
 Saltwater @ None Reported  
 Oil Show @ None Reported  
 Gas shows @ 1865', 2417, & 2745'  
 Coal @ 375'

S.D.W  
 6/11/2018

1. Notify inspector, Sam Ward @ 304-389-7583, 24 hrs. prior to commencing operations.
2. Release packer and TOOH 2" tubing & packer.
3. Check TD @ or below 2700'.
4. TIH to 2700', spot 30 bbl. of 6% gelled water followed by a 350' C1A cement plug, 2700' to 2350', (Gas shows @ 2417' & 2745').
5. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
6. TOOH to 1950' set 300' C1A cement plug 1950' to 1650'. (Packer seat @ 1851', gas show @ 1865', & 6 5/8" casing seat).
7. Free point 6 5/8" casing, cut casing @ free point, TOOH casing.
8. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
9. TOOH to 1500' set 200' C1A cement plug from 1500' to 1300', (Elevation & 8 1/4" casing seat).
10. TOOH to 900' set 200' C1A cement plug 900' to 700'. (Safety plug).
11. TOOH to 450' set 150' C1A cement plug 450' to 300'. (10" casing seat & coal @ 375').
12. Free point 10" casing, cut casing @ free point, TOOH casing.
13. Set 100' C1A cement plug 50' in casing cut to surface. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
14. \* Note, If unable to cut and pull 10" casing, TIH and perforate 10" casing with 4 holes each @ 250', 200', 150', 100' & 75'. TIH to 300' and set a 300' C1A cement plug 300' to surface.
15. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
16. Reclaim location and road to WV-DEP specifications.

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4703301649P

Map Sheet No. *Blanchard* RECORD OF WELL Well No. *412*  
 Drilled on *J. M. Kyle #1* Farm of *25* Acres, situate in  
*Dardis* Township *Harrison* County *Mo* Lease No. *8351-29*  
 Shipping Point District Foreman  
 R I G

Located *Down* *6-7-1917* Well  
 Notified Gen'l Office *Aug 15-1913* Commenced Drilling  
 Commenced *July 25-1913* Notified Gen'l Office  
 Completed *Aug 9-1913* Completed Drilling *Down* *9-5-1917* *OCT 1-1913*  
 Contractor *Willieburn Phillips* Notified Gen'l Office  
 Address *H. M. Bannhart* Contractor  
*129 Dues* Address  
*Marionville Mo*

ROCK FORMATION	TOP	BOTTOM	REMARKS	PRESSURE AND VOLUME
Conductor				1/2 Minute 20 Lbs.
Mapleton Coal				1 " 30 "
Pittsburgh Coal	<i>374</i>	<i>381</i>		2 " 40 "
Little Dunkard	<i>710</i>	<i>790</i>		3 " 50 "
Big Dunkard	<i>830</i>	<i>900</i>		4 " 60 "
Gas Sand	<i>950</i>	<i>1055</i>		5 " 70 "
1st Salt Sand	<i>1090</i>	<i>1181</i>		10 " "
2nd Salt Sand	<i>1255</i>	<i>1400</i>		15 " 140 "
Maxton Sand	<i>1612</i>	<i>1621</i>		30 " "
Little Lime	<i>1682</i>	<i>1698</i>		1 Hour "
Pencil Cave	<i>1698</i>	<i>1710</i>		Rock 310 "
Big Lime	<i>1718</i>	<i>1770</i>		Size of { Tubing 2 Inch
Big Injun	<i>1770</i>	<i>1904</i>	<i>Gas 1.865</i>	{ Casing "
Gantz Sand				Vol. by Water
50 Foot Sand	<i>2325</i>	<i>2350</i>		" " Mercury <i>8/10 in 2"</i>
30 Foot Sand	<i>2367</i>	<i>2423</i>	<i>Gas at 2417</i>	" " Pressure
Gordon Stray	<i>2480</i>	<i>2502</i>		CONNECTED TO MAIN LINE
Gordon Sand	<i>2525</i>	<i>2566</i>		<i>Dec 17-1914</i>
4th Sand	<i>2577</i>	<i>2688</i>		Length of Line Feet
5th Sand	<i>2743</i>	<i>2747</i>	<i>Gas at 2745</i>	Size of Line Inch
Bayard Sand				DISCONNECTED FROM LINE
Elizabeth				Notified Lessor
Speechley				Abandoned
Bradford				Repacked
		<i>2791</i>		With Feet Tubing

Total Depth *2768* Feet at \$ *1.20* per Foot \$  
 Gas Furnished at Cents per Foot

CASING RECORD

SIZE	CHARGED TO WELL		PUT IN WELL		PULLED		LEFT IN WELL		TRANSFERRED		LEFT AT WELL		PACKER
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
<i>10</i>			<i>398</i>	<i>6</i>			<i>398</i>	<i>6</i>					<i>Spang</i> Kind <i>Dist Hook Wale</i> Size <i>6 1/8 x 3" Swaged to 2"</i> Set at <i>1851</i> Feet <i>9/1/17</i> WELL SHOT By <i>Maristta Torfede</i> © With <i>5</i> Qts. at <i>2743</i> Feet <i>2746.7</i>
<i>8 1/2</i>			<i>1441</i>	<i>5</i>	<i>1441</i>	<i>5</i>							
<i>6 3/8</i>			<i>1724</i>	<i>8</i>			<i>1724</i>	<i>8</i>					
<i>2</i>			<i>1851</i>				<i>1851</i>						

Casing Cemented in Well \_\_\_\_\_ Company Employee

1) Date: April 10, 2018  
2) Operator's Well Number  
651161 Kyle #412  
3) API Well No.: 47 033 - 01649  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

47 033 01649P

4) Surface Owner(s) to be served:  
(a) Name John W Kyle c/o Edward Kyle  
Address 243 Tymber Creek  
Clarksburg WV 26301  
(b) Name James D Moore  
Address 253 Catfish Hollow Rd.  
Clarksburg WV 26301  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Sam Ward  
Address PO Box 2327  
Buckhannon WV 26201  
Telephone 304-389-7583

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Consol Energy  
1000 Consol Energy Drive  
Address Canonsburg PA 15317  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

**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 Division 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:  
By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_

EQT Production Company  
Erin Spine  
Regional Land Supervisor  
2200 Energy Drive  
Canonsburg PA 15317  
(304) 848-0035

*[Signature]*

Subscribed and sworn before me this 18 day of April, 2018  
Rebecca L. Wanstreet  
My Commission Expires: 4-7-2020

Notary Public

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Office of Oil and Gas

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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).

WV Department of  
Environmental Protection

# SURFACE OWNER WAIVER

Operator's Well Number 651161 Kyle #412

## INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW 4-A

The well operator named on page WW4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

## WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas  
Division of Environmental Protection  
601 57th Street, SE  
Charleston, WV 25304  
(304) 926-0450

47 03 30 16 49p

### Time Limits and methods for filing comments.

The law requires these materials to be served on or before the date the operator files for this Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

The law requires these materials to be served on or before FIVE (5) DAYS after the filing date to file your comments.

### Comments must be in writing.

Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

### List of Water Testing Laboratories.

The office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For a Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature

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**Office of Oil and Gas**

APR 23 2018

WV Department of  
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Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

WW-9  
Revised 5/16

Page \_\_\_\_ of \_\_\_\_  
2) Operator's Well Number  
651161 Kyle #412  
3) API Well No.: 47 033 - 01649

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EQT PRODUCTION COMPANY OP CODE: \_\_\_\_\_

Watershed (HUC 10): Catfish Run of Ten Mile Creek Quadrangle: Wolf Summit

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_ No X

Will a pit be used? Yes X No \_\_\_

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes X No \_\_\_ Is so, what ml.? 20 ml

Proposed Disposal Method for Treated Pit Wastes:

- \_\_\_\_\_ Land Application (if selected provide a completed form WW-9-GPP)
- \_\_\_\_\_ Underground Injection (UIC Permit Number \_\_\_\_\_)
- X Reuse (at API Number -- Various \_\_\_\_\_)
- X Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
- \_\_\_\_\_ Other: (Explain \_\_\_\_\_)

*S.D.W.  
6/11/2018*

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_  
If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

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Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, remove offsite, etc. \_\_\_\_\_

JUN 15 2018

If left in pit and plan to solidify what medium will be used? (cement, Lime, sawdust) \_\_\_\_\_

Landfill or offsite name/permit number? \_\_\_\_\_

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Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at a 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 Division 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.  
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 *Erin Spine*

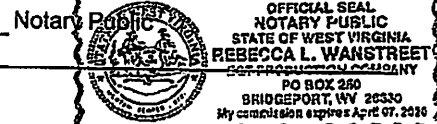
Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 18 day of April, 2018

Rebecca L. Wanstreet

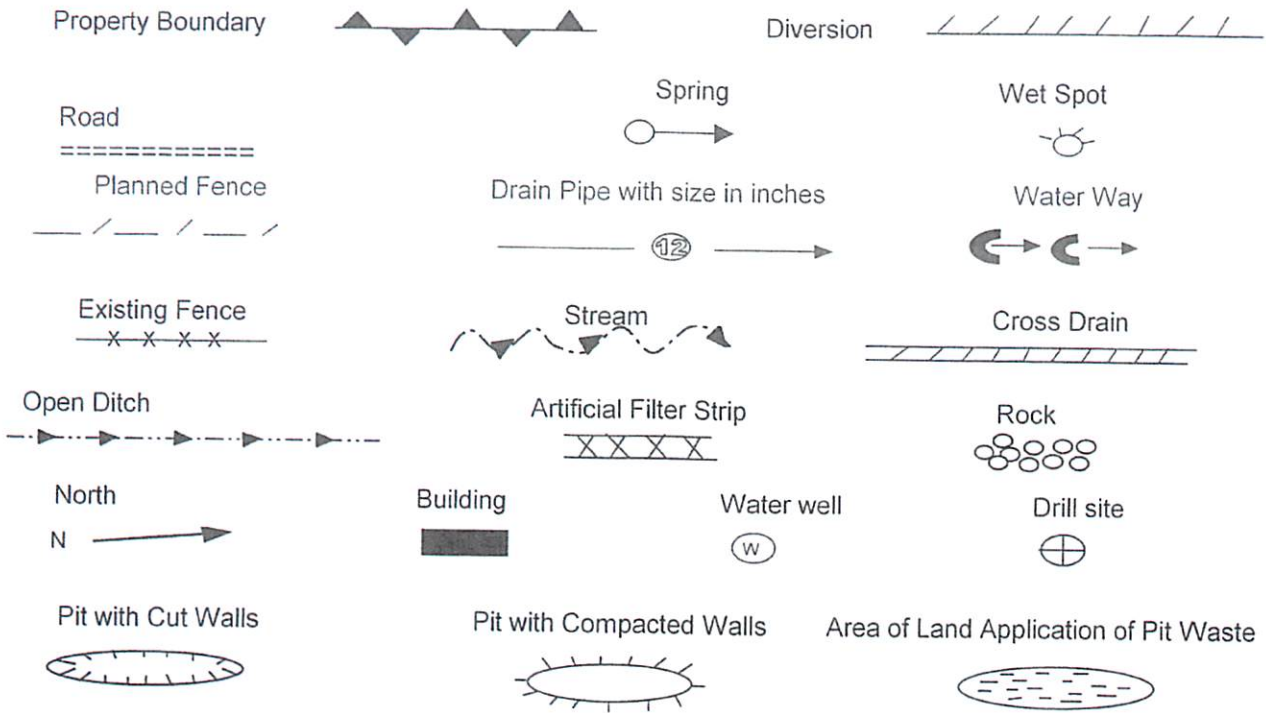
My Commission Expires 4-7-2020





OPERATOR'S WELL NO.:  
651161 Kyle #412

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH         

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

**SEED MIXTURES**

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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**ATTACH:**

Drawing(s) of road, location, pit and proposed area for land application.  
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: [Signature]

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

Title: COG Inspector Date: 6/11/2018  
Field Reviewed?          Yes X No

**EQT Production Water plan**  
**Offsite disposals**

47 03 30 16 49P

**Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

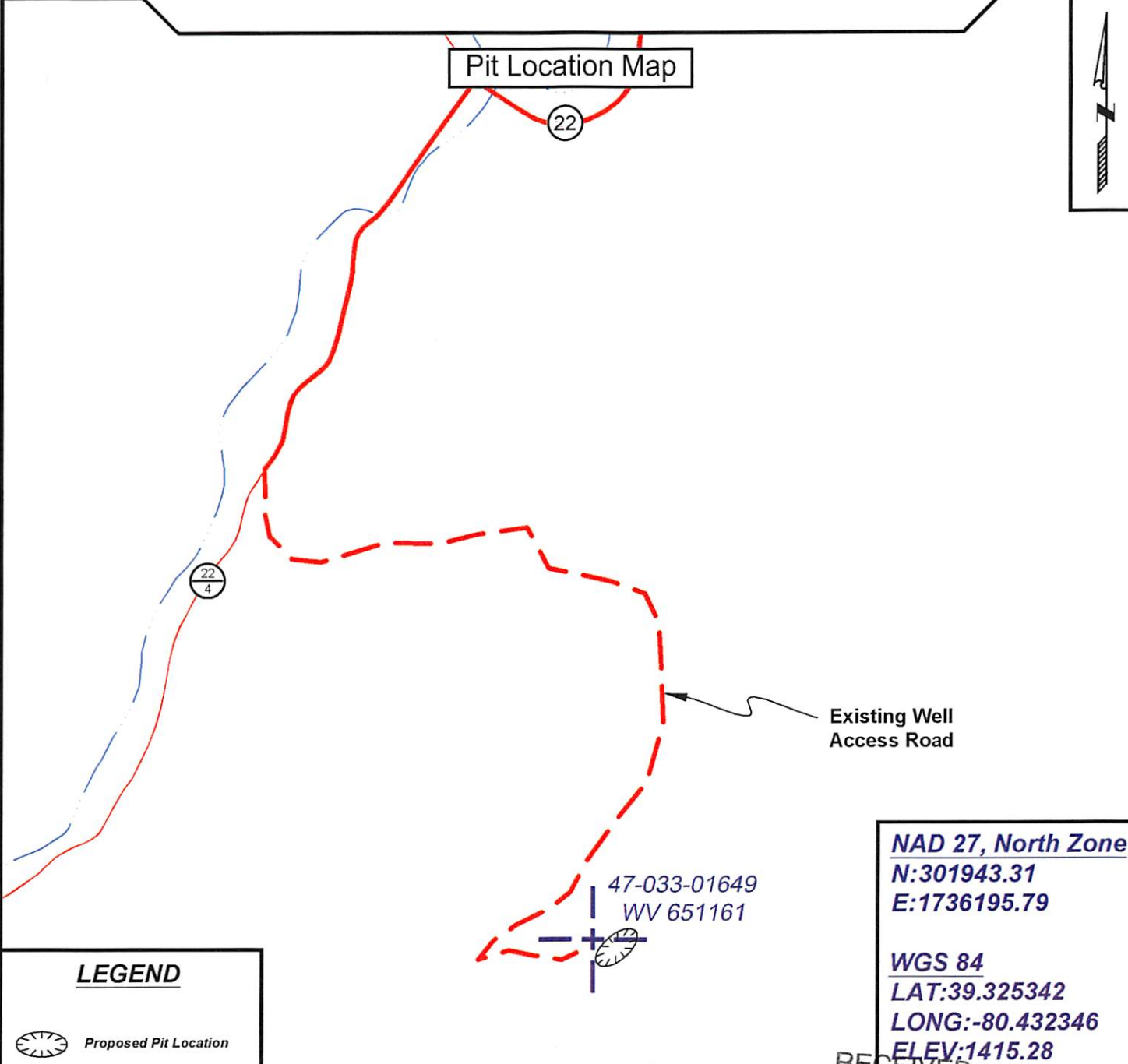
512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

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Environmental Protection

Topo Quad: Wolf Summit 7.5'      Scale: 1" = 500'      **4703301649P**  
 County: Harrison      Date: November 10, 2017  
 District: Sardis      Project No: 70-36-00-08

Highway **47-033-01649 WV 651161 (Kyle #412)**

Pit Location Map



Existing Well Access Road

47-033-01649  
WV 651161

**NAD 27, North Zone**  
**N:301943.31**  
**E:1736195.79**  
  
**WGS 84**  
**LAT:39.325342**  
**LONG:-80.432346**  
**ELEV:1415.28**

**LEGEND**

 Proposed Pit Location



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR: **Office of Oil and Gas**  
**EQT Production Company**  
 APR 23 2018  
 P.O. Box 20018  
 Bridgeport, WV 26330  
 WV Department of  
 Environmental Protection

Topo Quad: Wolf Summit 7.5'

Scale: 1" = 200'

47 03 30 16 4 9 P

County: Harrison

Date: November 10, 2017

District: Sardis

Project No: 70-36-00-08

47-033-01649 WV 651161 (Kyle #412)

Topo

Pit Location Topo



1500

Existing Well Access Road

47-033-01649  
WV 651161



NAD 27, North Zone  
N:301943.31  
E:1736195.79

WGS 84  
LAT:39.325342  
LONG:-80.432346  
ELEV:1415.28

**LEGEND**



Proposed Pit Location



SURVEYING AND MAPPING SERVICES PERFORMED BY:

**ALLEGHENY SURVEYS, INC.**

1-800-482-8606  
237 Birch River Road  
Birch River, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330

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9 3 2018

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Topo Quad: Wolf Summit 7.5'

Scale: 1" = 2000'

County: Harrison

Date: November 10, 2017

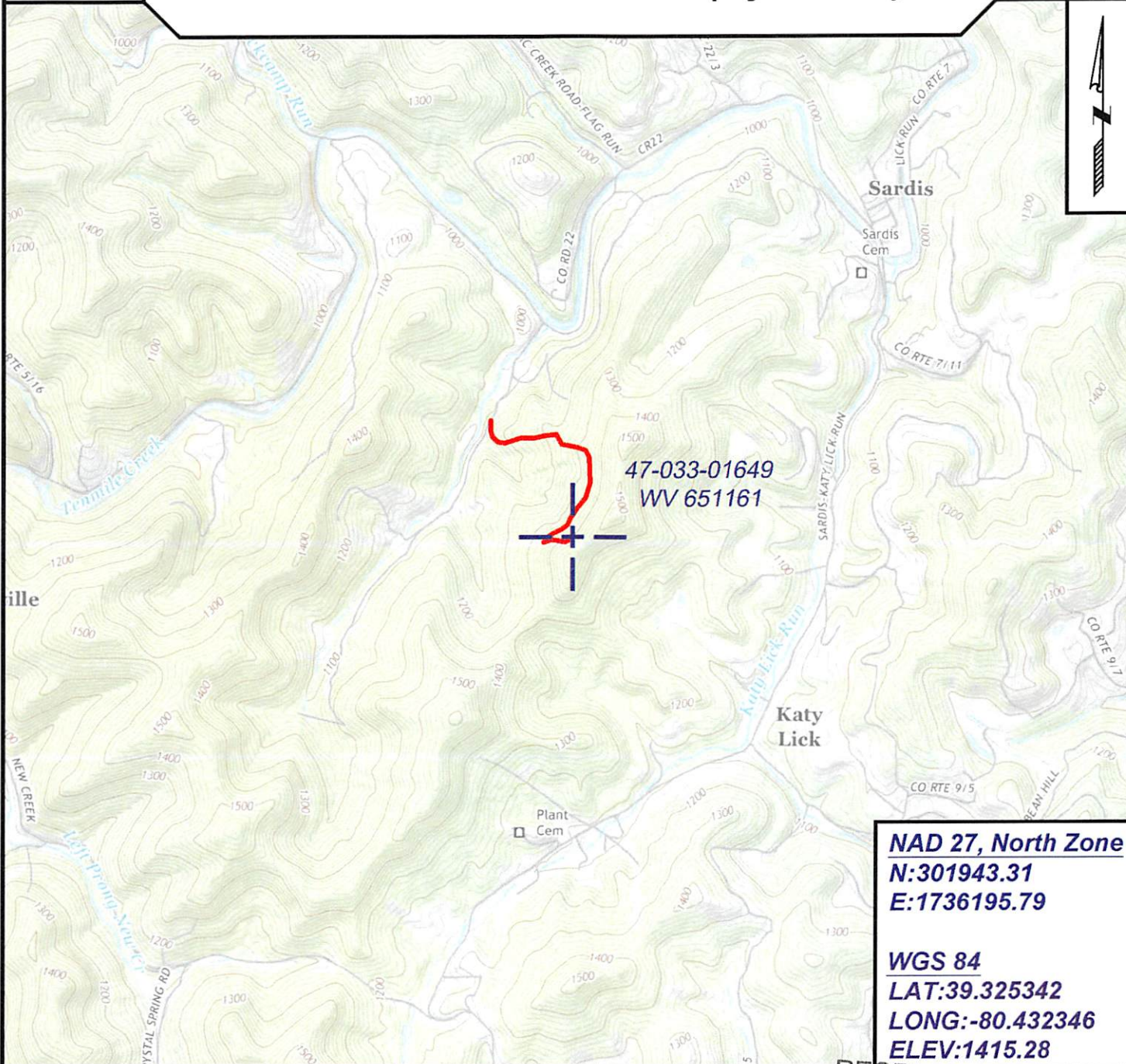
47 03 30 16 4 9P

District: Sardis

Project No: 70-36-00-08

# 47-033-01649 WV 651161 (Kyle #412)

Topo



47-033-01649  
WV 651161

**NAD 27, North Zone**  
**N:301943.31**  
**E:1736195.79**

**WGS 84**  
**LAT:39.325342**  
**LONG:-80.432346**  
**ELEV:1415.28**



SURVEYING AND MAPPING SERVICES PERFORMED BY:

**ALLEGHENY SURVEYS, INC.**

1-800-482-8606  
237 Birch River Road  
Birch River, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

PREPARED FOR:

**EQT Production Company**

APR 03 2018  
Bridgeport, WV 26330

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WV Department of  
Environmental Protection

WW-7  
8-30-06

47 03 30 16 49 P



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

API: 47-033-01649 WELL NO.: WV 651161 (Kyle #412)

FARM NAME: J. W. Kyle

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Harrison DISTRICT: Sardis

QUADRANGLE: Wolf Summit 7.5'

SURFACE OWNER: Edward Kyle, et al.

ROYALTY OWNER: Edward Kyle, et al.

UTM GPS NORTHING: 4353035

UTM GPS EASTING: 548928 GPS ELEVATION: 431 m (1415 ft)

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- 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.

[Signature]  
Signature

PS # 2180  
Title

11/15/17  
Date

RECEIVED  
Office of Oil and Gas  
APR 23 2018  
WV Department of  
Environmental Protection

4703301649P



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Kyle #412 - WV 651161 - API No. 47-033-01649

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 651161.

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Office of Oil and Gas  
APR 23 2018  
WV Department of  
Environmental Protection

#### BIRCH RIVER OFFICE

237 Birch River Road  
Birch River, WV 26610  
phone: 304-649-8606  
fax: 304-649-8608

#### BRIDGEPORT OFFICE

172 Thompson Drive  
Bridgeport, WV 26330  
phone: 304-848-5035  
fax: 304-848-5037

#### ALUM CREEK OFFICE

P.O. Box 108 • 1413 Childress Rd  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948

#### MARTINSBURG OFFICE

25 Lights Addition Drive  
Martinsburg, WV 25404  
phone: 304-901-2162  
fax: 304-901-2182

Topo Quad: Wolf Summit 7.5'

Scale: 1" = 2000' **4703301649 P**

County: Harrison

Date: November 10, 2017

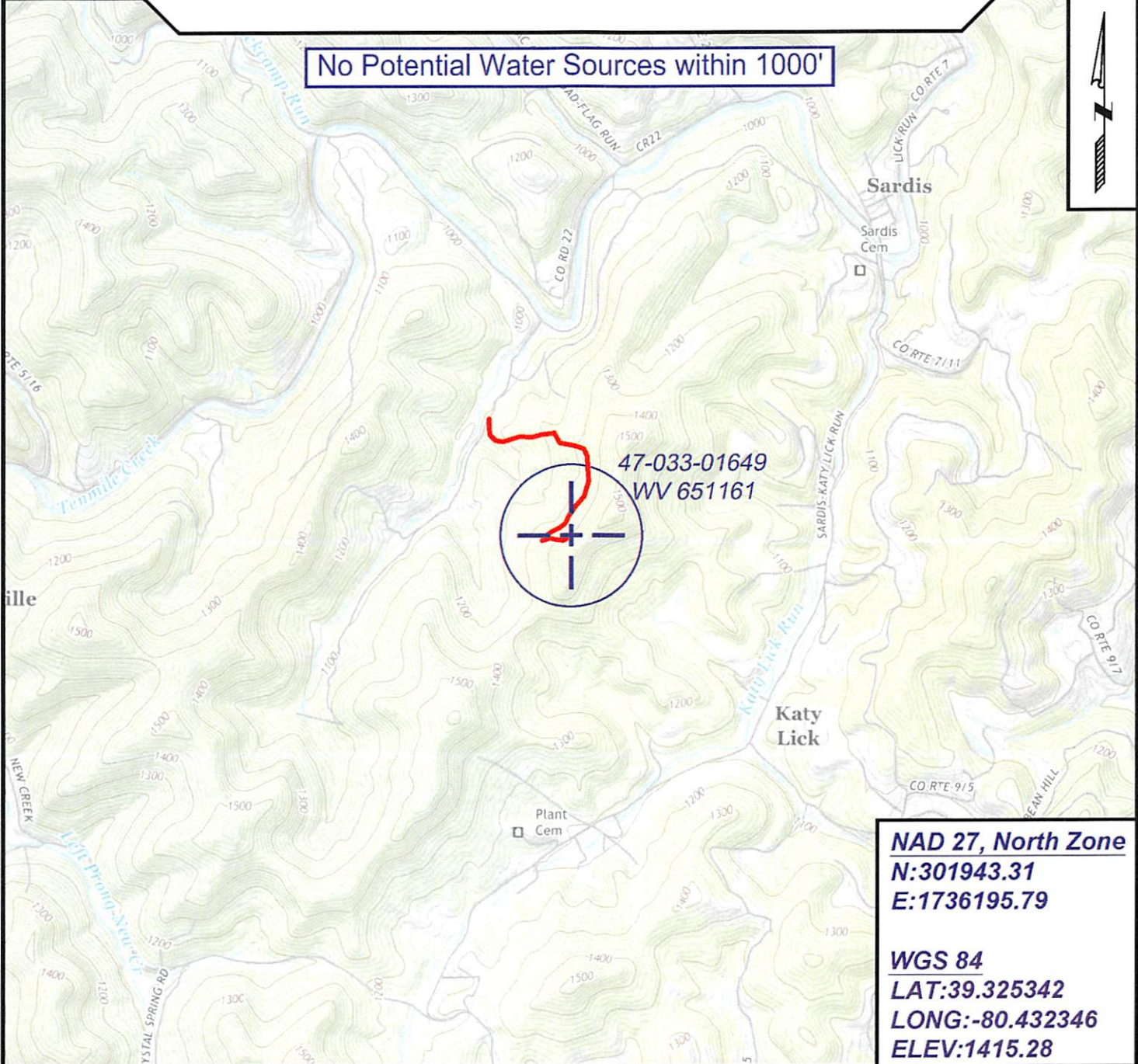
District: Sardis

Project No: 70-36-00-08

Water

# 47-033-01649 WV 651161 (Kyle #412)

No Potential Water Sources within 1000'



**NAD 27, North Zone**  
**N:301943.31**  
**E:1736195.79**

**WGS 84**  
**LAT:39.325342**  
**LONG:-80.432346**  
**ELEV:1415.28**



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
 Office of Oil and Gas  
 P.O. Box 280  
 Bridgeport, WV 26330  
 APR 9 2018

WV Department of  
 Environmental Protection