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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)

Wednesday, November 7, 2018  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for DEWHURST 73  
47-103-02286-00-00

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

Operator's Well Number: DEWHURST 73  
Farm Name: WEST VIRGINIA - STATE OF  
U.S. WELL NUMBER: 47-103-02286-00-00  
Vertical Plugging  
Date Issued: 11/7/2018

## 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.

WW-4B  
Rev. 2/01

- 1) Date September 5th, 20 18
- 2) Operator's  
Well No. 518476 (J.B. Dewhurst #73)
- 3) API Well No. 47-103-02286

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 884 Watershed Horse Run  
District Grant County Wetzel Quadrangle Folsom 7.5'

6) Well Operator EQT Production Company 7) Designated Agent Jason Ranson  
Address 2400 Ansys Drive- Suite 200 Address 120 Professional Place  
Canonsburg PA 15317 Bridgeport WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Derek Haught Name HydroCarbon Well Service  
Address PO Box 85 Address PO Box 995  
Smithville WV 26178 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.**

CK # 24974  
9-19-18  
\$400.00  
+ PERMITS

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 9-27-18

PLUGGING PROGNOSIS

518476  
Dewhurst #73  
API# 47-103-02286  
District, Grant  
Wetzel County, WV

BY: R Green  
DATE: 08/20/18

**CCURRENT STATUS:**

**TD @ 7217'**  
**Elevation @ 872'**

20" casing @ 18' (CTS)  
11 3/4" casing @ 316' (CTS with 320 sks)  
8 5/8" casing @ 3009' (CTS with 825sks)  
4 1/2" casing @ 7217' (Cemented with 110 sks)  
Perforations @ 7090' to 7135'-- 90 holes  
**Fresh Water** 55' to 70'  
Saltwater @ 1690'  
**Gas Show @** None Reported  
**Oil shows @** None reported  
Coal @ None Reported

1. Notify inspector, Derek Haught @ 304-206-7613, 24 hours prior to commencing operations.
2. Check annulus of all casing strings for any pressure, gas leaking, or bubbling water in cellar, etc. before starting plugging operations, if any gas is detected on any annuli, notify EQT supervisor before proceeding.
3. TIH and check TD @ or below 7200'.
4. TIH and spot 100 bbl. of 6% gelled water, followed by a 600' C1A cement plug, 7150' to 6550'. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
5. TIH with gauge ring to 6450', set a 4 1/2" CIBP @ 6450'.
6. TIH to CIBP set a 500' C1A cement plug from 6450' to 5950'.
7. Free point 4 1/2" casing, cut casing @ free point using a jet cutter, TOOH 4 1/2" casing.
8. Set a 200' C1A cement plug 100' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
9. TOOH to 3200' set a 300' C1A cement plug 3200' to 2900'. (8 5/8" casing seat).
10. TOOH to 1800' set a 200' C1A cement plug 1750' to 1550' (Saltwater @ 1690').
11. TOOH to 950' set a 200' C1A cement plug 950' to 750', (Elevation @ 872').
12. TOOH to 400' set a 400' C1A cement plug 400' to surface. ( Freshwater @ 55' & 11 3/4" casing seat)
13. Erect monument with API#, date plugged, company name.
14. Reclaim location and road to WV-DEP specifications.

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Office of Oil and Gas

SEP 26 2018

WV Department of Environmental Protection

WR-35  
Rev (1-10)

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: 7/7/10  
API #: 47-103-02286

*Bob Jul 16/10*

Farm name: DEWHURST Operator Well No.: 73

LOCATION: Elevation: 872' ✓ Quadrangle: FOLSOM

District: Grant County: Wetzel  
Latitude: 7800' Feet South of 39' Deg. 30' Min. \_\_\_\_\_ Sec. \_\_\_\_\_  
Longitude 3300' Feet West of 80' Deg. 35' Min. \_\_\_\_\_ Sec. \_\_\_\_\_

Company: ??

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>??</u>				
P.O. Box 393				
St. Marys, WV 26170	20"	18'	18'	—
Agent: <u>Loren Bagley</u>				
Inspector: <u>David Scranage</u>				
Date Permit Issued: <u>September 06, 2007</u> —				
Date Well Work Commenced: <u>June 21, 2008</u> —	11 3/4	316'	316'	To Surface ✓
Date Well Work Completed: <u>July 20, 2008</u> —				320 sks
Verbal Plugging:				
Date Permission granted on:	8 5/8	3009'	3009'	To Surface
Rotary Cable Rig				825 sks
Total Vertical Depth (ft): <u>7246'</u> ✕				
Total Measured Depth (ft): <u>7246'</u>				
Fresh Water Depth (ft.): <u>55 - 70</u> ✓	4 1/2 P110		<u>7217'</u>	110 sks
Salt Water Depth (ft.): <u>1690</u>	11.6#			
Is coal being mined in area (N/Y)? <u>N</u> ✓				
Coal Depths (ft.): <u>N/A</u> ✓				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6905-7135 ✓

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 3,000 MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure 2700 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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and the attachments 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.

*Loren Bagley*  
Signature

7-12-10  
Date

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JUL 15 2010

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Environmental Protection

11/09/2018

WR - 35  
Page 2

Well Name	Dewhurst # 73		
Elev.	872'		
Fm Name	FM Top	FM Bot	Notes
Gordon	2,697	2,740	
5 <sup>th</sup> Sand	2,940	2,945	
Bayard	3,036	3,042	
Warren	3,385	3,501	
2 <sup>nd</sup> Warren	3,604	3,648	
Balltown	3,755	3,758	
1 <sup>st</sup> Riley	4,230	4,270	
2 <sup>nd</sup> Riley	4,282	4,320	
3 <sup>rd</sup> Riley	4,560	5,614	
Benson	4,966	4,968	
Alexander	5,160	5,220	
Elk	5,366	5,407	
Hamilton	6,194	6,330	
Up Marcellus	6,904	6,980	
Cherry Valley	6,980	7,046	
Low Marcellus	7,088	7,140	
Top Onondaga	7,140		
Perfs	6,905 - 7,135		
Stage 1			
Perfs	7,090 - 7,135	90 Holes	
	818,000# Sand	14,300 BBI H2O	
Stage 2			
Perfs	6,905 - 6,974	No Frac	

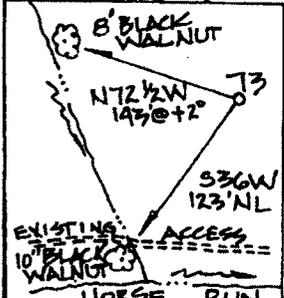
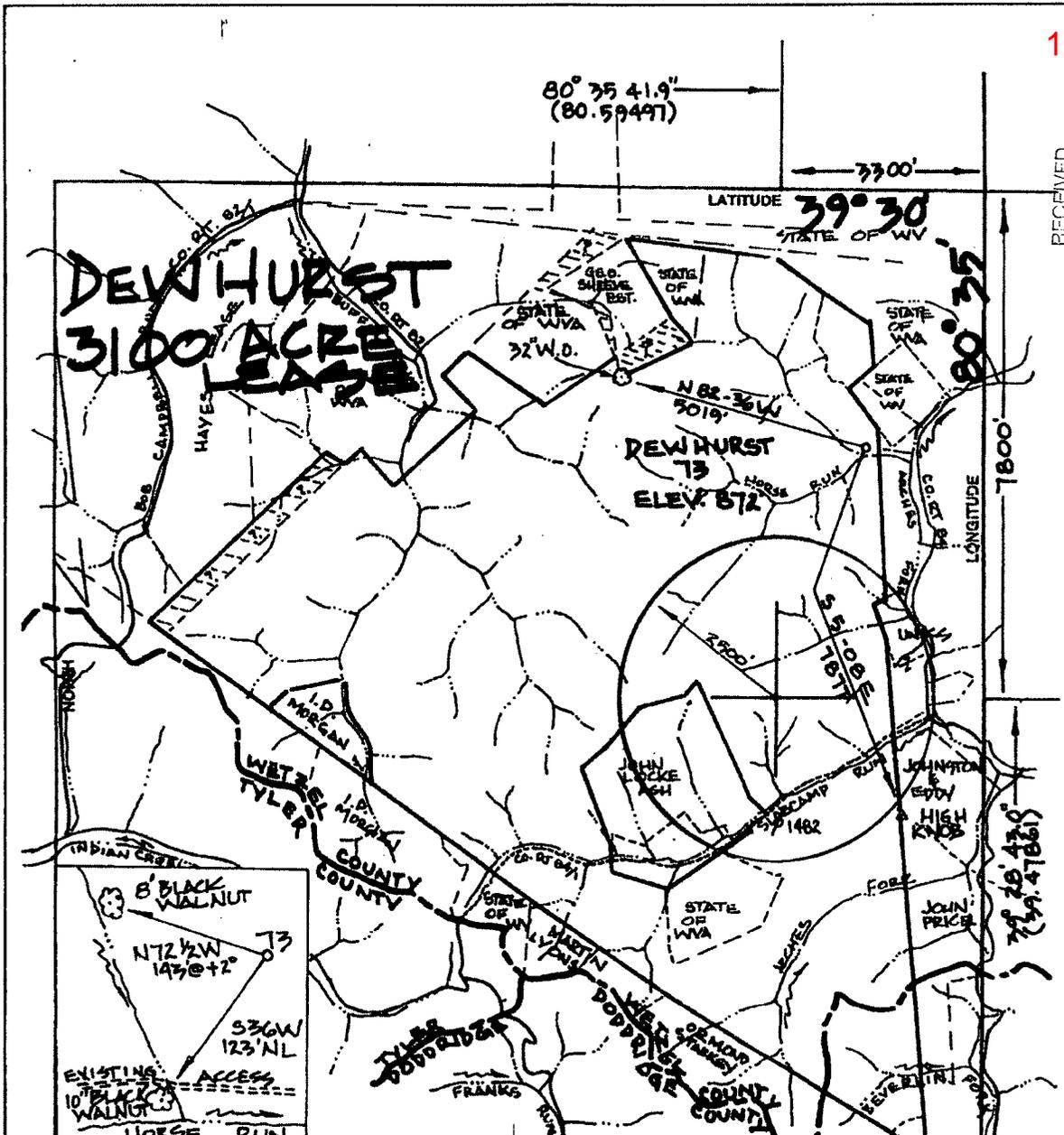
*Permitted as Shallow*7246 → Reported T verr. D  
(send to cindy)

11/09/2018

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FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION G.P.S.  
OBSERVATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED THEREUNDER BY THE DEPARTMENT OF ENERGY (SIGNED) [Signature] P.S. 551



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS		DATE <u>AUGUST 14, 20 09</u>	
		OPERATOR'S WELL NO. <u>73</u>	
		API WELL NO. <u>47-103-02286</u>	
WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION _____ WASTE DISPOSAL _____		STATE COUNTY PERMIT	
(IF "GAS," PRODUCTION <input checked="" type="checkbox"/> STORAGE _____ DEEP _____ SHALLOW <input checked="" type="checkbox"/>			
LOCATION: ELEVATION <u>672</u> WATER SHED <u>HORSE RUN</u>			
DISTRICT <u>GRANT</u> COUNTY <u>WETZEL</u>			
QUADRANGLE <u>FOLSON</u>			
SURFACE OWNER <u>STATE OF WEST VIRGINIA</u>		ACREAGE <u>± 3100</u>	
OIL & GAS ROYALT <u>J.B. DEWHURST</u>		LEASE AC. <u>± 3100</u>	
PROPOSED WORK: DRILL <input checked="" type="checkbox"/> CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____			
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____			
TARGET FORMATION <u>MARCELLUS SHALE</u>		ESTIMATED DEPTH <u>7500'</u>	
WELL OPERATOR <u>TRANS ENERGY, INC.</u>		DESIGNATED AGENT <u>LOREN BAGLEY</u>	
ADDRESS <u>PO BOX 251</u>		ADDRESS <u>PO BOX 251</u>	
		ADDRESS <u>ST. MARYS, WV 26170</u>	

FORM NO. 9-11-01

COUNTY NAME PERMIT

11/09/2018

WW-4A  
Revised 6-07

1) Date: September 5, 2018  
2) Operator's Well Number  
518476 (J.B. Dewhurst #73)  
3) API Well No.: 47 - 103 - 02286

**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>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
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>	

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**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 EQT Production Company  
 By: Erin Spine  
 Its: Regional Land Supervisor  
 Address 2400 Ansys Drive, Suite 200  
Canonsburg PA 15317  
 Telephone (304) 848-0035

Subscribed and sworn before me this 17 day of September 2018  
Rebecca L. Wanstreet Notary Public  
My Commission Expires 4-7-2020

**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

11/09/2018

47-103-02286

518476 J. B. Dewhurst #73

**Owner(s) (Surface and Access)**

West Virginia Department of Natural Resources  
324 Fourth Ave.  
South Charleston WV 25303

**Coal Owner(s):**

George Shreve Heirs & Dragoo  
1540 Robinson Ridge Rd.  
Littleton WV 26581

Murray Energy Corporation  
46226 National Rd.  
St. Clairsville OH 43950

**Potential Water Owner(s):**

N/A

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Environmental Protection

WW-9  
(5/16)

API Number 47 - 103 - 02286  
Operator's Well No. 518476 (J.B. Dewhurst #73)

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

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Horse Run Quadrangle Folsom 7.5'

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: Formation Fluids

Will a synthetic liner be used in the pit? Yes  No  If 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 \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

DMH  
9-27-18

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. \_\_\_\_\_

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

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

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

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

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 [Signature]

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 17 day of September, 2018

Rebecca L. Wanstreet Notary Public

My commission expires 4-7-2020



47-103-07286P  
11/09/2018

Form WW-9

Operator's Well No. 518476 (J.B. Dewhurst #73)

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		

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 Impactor Date: 9-27-18

Field Reviewed?  Yes  No

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

**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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47-103-02286P

11/09/2018

Topo Quad: Folsom 7.5'

Scale: 1" = 500'

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County: Wetzel

Date: July 27, 2018

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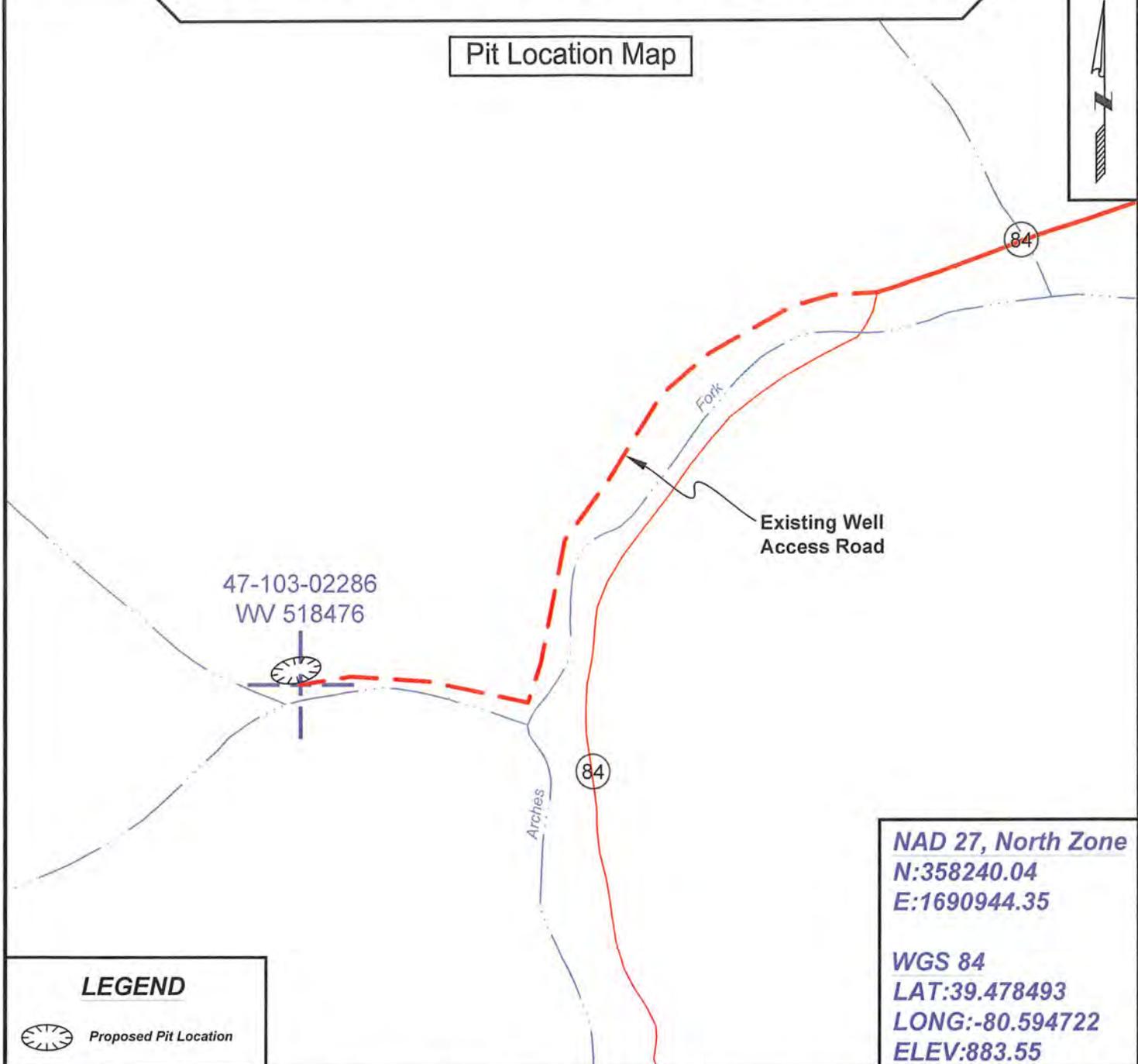
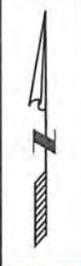
District: Grant

Project No: 40-34-00-09

WV Department of  
Environmental Protection

Highway **47-103-02286 WV 518476 (J. B. Dewhurst #73)**

Pit Location Map



NAD 27, North Zone  
N:358240.04  
E:1690944.35

WGS 84  
LAT:39.478493  
LONG:-80.594722  
ELEV:883.55

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**

2400 Ansys Drive,  
Canonsburg, PA 15317

47-103-02286 P

Topo Quad: Folsom 7.5'

Scale: 1" = 400'

11/09/2018  
Office of Oil and Gas

County: Wetzel

Date: July 27, 2018

SEP 26 2018

District: Grant

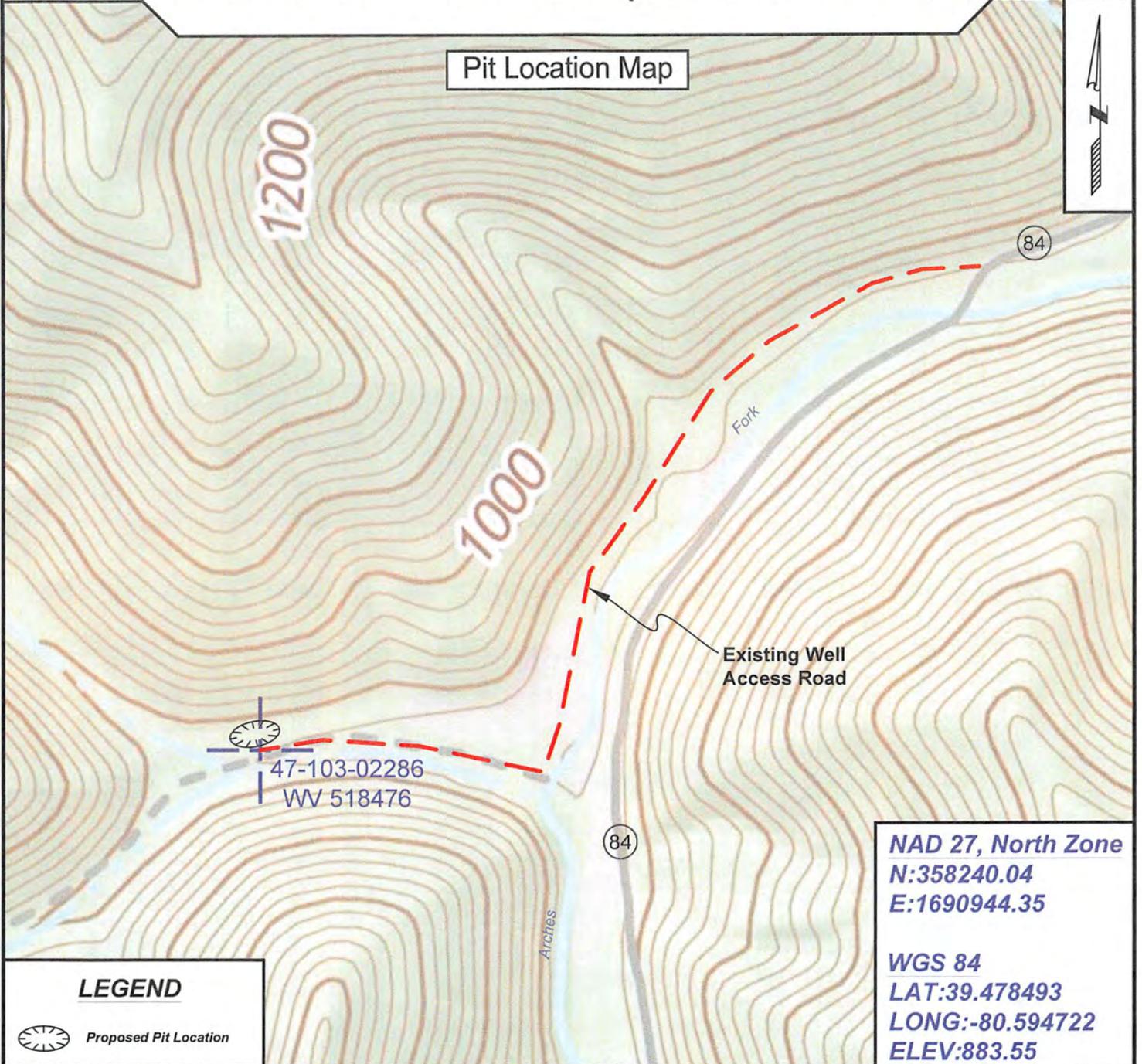
Project No: 40-34-00-09

WV Department of  
Environmental Protection

**47-103-02286 WV 518476 (J. B. Dewhurst #73)**

Topo

Pit Location Map



**LEGEND**

 Proposed Pit Location

**NAD 27, North Zone**  
N:358240.04  
E:1690944.35

**WGS 84**  
LAT:39.478493  
LONG:-80.594722  
ELEV:883.55



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**

2400 Ansys Drive,  
Canonsburg, PA 15317

47-103-02286P

11/09/2018

Topo Quad: Folsom 7.5'

Scale: 1" = 2000'

Office of Oil and Gas

County: Wetzel

Date: July 27, 2018

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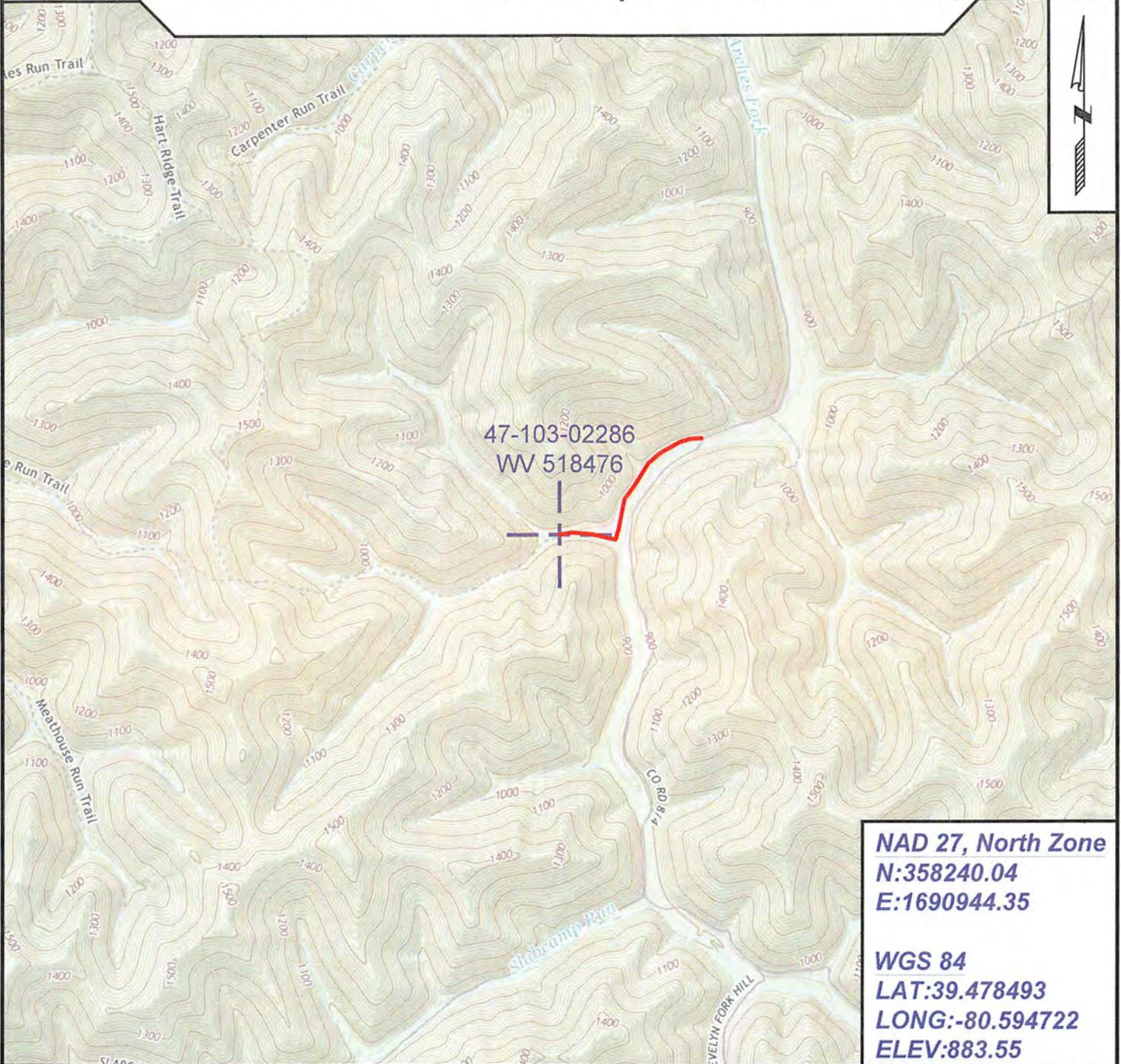
District: Grant

Project No: 40-34-00-09

WV Department of Environmental Protection

# 47-103-02286 WV 518476 (J. B. Dewhurst #73)

Topo



**NAD 27, North Zone**  
**N:358240.04**  
**E:1690944.35**

**WGS 84**  
**LAT:39.478493**  
**LONG:-80.594722**  
**ELEV:883.55**



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

2400 Ansys Drive,  
 Canonsburg, PA 15317

WW-7  
8-30-06



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

API: 47-103-02286 WELL NO.: WV 518476 (J. B. Dewhurst #73)

FARM NAME: J. B. Dewhurst

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Folsom 7.5'

SURFACE OWNER: West Virginia Department of Natural Resources

ROYALTY OWNER: John W. Kerns Heirs Trust, et al.

UTM GPS NORTHING: 4369956

UTM GPS EASTING: 534856 GPS ELEVATION: 269 m (884 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:

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.

Signature

PS # 2180  
Title

7/27/18  
Date



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. J. B. Dewhurst #73 - WV 518476 - API No. 47-103-02286

### POTENTIAL SAMPLE LOCATIONS

There appears to be no potential water sources within the required 1000 feet of the existing well WV 518476.

RECEIVED  
Office of Oil and Gas

SEP 26 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

**CHARLESTON OFFICE**

301 RHL Boulevard - Suite 5  
Charleston, WV 25309

phone: 304-756-2949 fax: 304-756-2948

47-103-02286P

11/09/2018

Topo Quad: Folsom 7.5'

Scale: 1" = 2000'

Office of Oil and Gas

County: Wetzel

Date: July 27, 2018

SEP 26 2018

District: Grant

Project No: 40-34-00-09

WV Department of Environmental Protection

Water

# 47-103-02286 WV 518476 (J. B. Dewhurst #73)

No Potential Water Sources within 1000'

47-103-02286  
WV 518476



**NAD 27, North Zone**  
**N:358240.04**  
**E:1690944.35**

**WGS 84**  
**LAT:39.478493**  
**LONG:-80.594722**  
**ELEV:883.55**



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**

2400 Ansys Drive,  
Canonsburg, PA 15317



**Miss Utility of West Virginia (WV811)**  
**(Exhibit A)**  
**Directions to Gas Well No. WV 518476**  
**API No. 47-103-02286**

- Beginning at the intersection of US Interstate 79 Exit 119 (Clarksburg/Bridgeport) and US Route 50 in Harrison County, WV.
- Proceed Northwest on US Route 50, for approximately 5.9 miles, to WV County Route 9 (Wilsonburg Road), on the right.
- Exit right onto WV County Route 9 (Wilsonburg Road) and proceed Northwest, for approximately 6.9 miles, to the intersection with WV State Route 20.
- Turn left onto WV State Route 20 and proceed Northwest, for approximately 17.6 miles, to WV County Route 84, on the left. *(Point No. 1)*
- Turn left onto WV County Route 84 and proceed South, for approximately 1.8 miles, to the Well Access Road, on the right. *(Point No. 2)*
- Turn right onto the Well Access Road and proceed Southwest, for approximately 0.54 mile, arriving at Gas Well WV 518476. *(Point No. 3)*

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Office of Oil and Gas  
SEP 26 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**

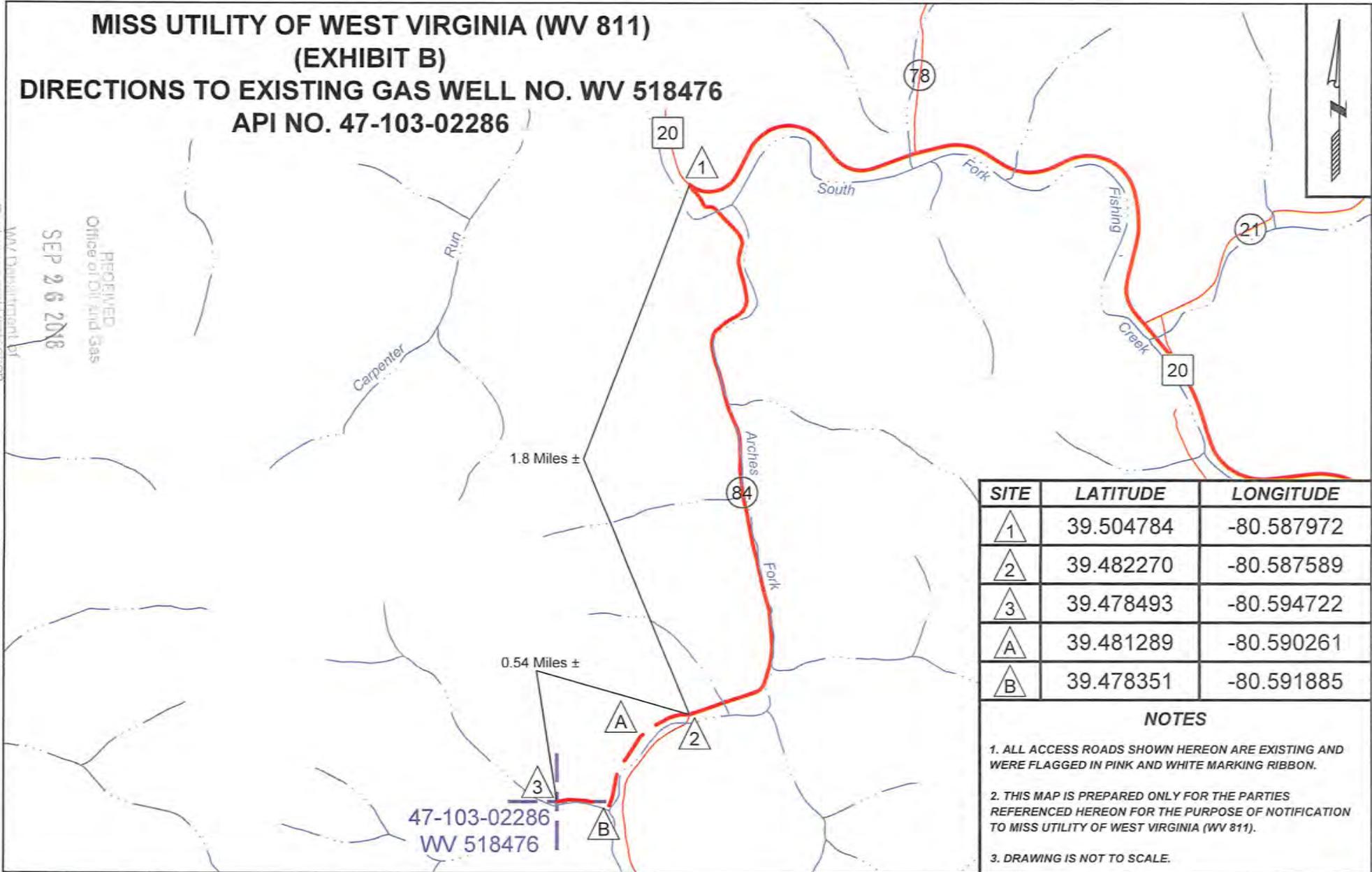
172 Thompson Drive  
Bridgeport, WV 26330  
*phone: 304-848-5035 fax: 304-848-5037*

**CHARLESTON OFFICE**

301 RHL Boulevard - Suite 5  
Charleston, WV 25309  
*phone: 304-756-2949 fax: 304-756-2948*

**MISS UTILITY OF WEST VIRGINIA (WV 811)  
 (EXHIBIT B)  
 DIRECTIONS TO EXISTING GAS WELL NO. WV 518476  
 API NO. 47-103-02286**

RECEIVED  
 Office of Oil and Gas  
 SEP 26 2018  
 Environmental Protection  
 WV Department of



SITE	LATITUDE	LONGITUDE
1	39.504784	-80.587972
2	39.482270	-80.587589
3	39.478493	-80.594722
A	39.481289	-80.590261
B	39.478351	-80.591885

**NOTES**

- ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
- THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HEREON FOR THE PURPOSE OF NOTIFICATION TO MISS UTILITY OF WEST VIRGINIA (WV 811).
- DRAWING IS NOT TO SCALE.



**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

County: Wetzel  
 District: Grant  
 Date: July 27, 2018  
 Project No: 40-34-00-09  
 File Name: WV 518476 DEWHURST

**PREPARED FOR:**  
**EQT Production Company**  
 2400 Ansys Drive,  
 Canonsburg, PA 15317

47-103-02286P