



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

Austin Caperton, Cabinet Secretary
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 50
47-103-02257-00-00

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 50
Farm Name: STATE OF WEST VIRGINIA
U.S. WELL NUMBER: 47-103-02257-00-00
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

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, 2018
- 2) Operator's
Well No. 518475 (JB Dewhurst #50)
- 3) API Well No. 47-103-02257

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 933 Watershed Buffalo Run
District Grant County Wetzel Quadrangle Center Point 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 Name Derek Haught
Address PO Box 85
Smithville WV 26178
- 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.

CHK # 24974
9-19-18
\$400.00
4 PERMITS

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

Work order approved by inspector  Date 9-27-18

11/09/2018

PLUGGING PROGNOSIS

518475
 Dewhurst #50
 API# 47-103-02257
 District, Grant
 Wetzel County, WV

BY: R Green
 DATE: 08/20/18

CCURRENT STATUS:**TD @ 7185'**

7426'

Elevation @ 933'

24" casing @ 22' (CTS)
 20" casing @ 36' (CTS)
 13 3/8" casing @ 289' (CTS with 270 sks)
 8 5/8" casing @ 3031' (CTS with 835sks)
 5 1/2" casing @ 7185' (Cemented with 100 sks)
 Perforations @ 6927' to 6955' 57 holes
 7054' to 7096' 85 holes

Fresh Water None Reported (60')

Saltwater @ 1670'

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 7100'.
4. TIH and spot 100 bbl. of 6% gelled water, followed by a 600' C1A cement plug, 7100' to 6500'. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
5. TIH with gauge ring to 6400', set a 5 1/2" CIBP @ 6400'.
6. TIH to CIBP set a 500' C1A cement plug from 6400' to 5900'.
7. Free point 5 1/2" casing, cut casing @ free point using a jet cutter, TOOH 5 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 1750' set a 200' C1A cement plug 1750' to 1550' (Saltwater @ 1670').
11. TOOH to 1000' set a 200' C1A cement plug 1000' to 800', (Elevation @ 933').
12. TOOH to 400' set a 400' C1A cement plug 400' to surface.
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

WVDEP
 Environmental Protection

47-103-02257P
11/09/2018
CR

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: 7/07/2010
API #: 47-103-02257

Farm name: DEWHURST Operator Well No.: 50

LOCATION: Elevation: 933' Quadrangle: CENTER POINT

District: Grant County: Wetzel
Latitude: 9590' Feet South of 39' Deg. 30' Min. Sec.
Longitude 70' Feet West of 80' Deg. 37' Min. 30' Sec.

Company: ??

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>??</u>				
<u>P.O. Box 393</u>				
<u>St. Marys, WV 26170</u>	<u>24"</u>	<u>22'</u>	<u>22'</u>	<u>To Surface</u>
Agent: <u>Loren Bagley</u>				
Inspector: <u>David Scranage</u>				
Date Permit Issued: <u>August 3, 2007</u>	<u>20"</u>	<u>36"</u>	<u>36"</u>	<u>To Surface</u>
Date Well Work Commenced: <u>October 17, 2007</u>				
Date Well Work Completed: <u>November 15, 2007</u>	<u>13 3/8</u>	<u>289.69</u>	<u>289.69</u>	<u>To Surface</u>
Verbal Plugging:				<u>270 sks</u>
Date Permission granted on:				
Rotary Cable Rig	<u>8 5/8</u>	<u>3,031</u>	<u>3,031</u>	<u>To Surface</u>
Total Vertical Depth (ft): <u>7426' x</u>				<u>835 sks</u>
Total Measured Depth (ft): <u>7426'</u>				
Fresh Water Depth (ft.): <u>60 /</u>	<u>5 1/2 P110</u>		<u>7,185</u>	<u>100 sks</u>
Salt Water Depth (ft.): <u>1670 /</u>	<u>20#</u>			<u>TOC-6070'</u>
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) 6927-7096

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

Final open flow 3,500 MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure 2800 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 that the information is true, accurate, and complete.

Loren Bagley
Signature

7/07/2010
Date

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Office of Oil & Gas
JUL 15 2010
WV Department of
Environmental Protection

Third producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/D Oil: Initial 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

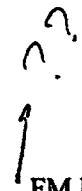
Stimulation:

Well Name	DEWHURST #50	
Elev.	933"	
PERFS	6927 – 6955	57 HOLES
	7054 – 7096	85 HOLES
STAGE 1		
PERFS	77054 – 7096	
STAGE 2		
PERFS	6927 – 6955	

WR-35

Well Name Dewhurst # 50

Elev. 933'



Fm Name	FM Top	FM Bot	Notes
Gordon	2,796	2,820	
4 th Sand	2,897	2,905	
Bayard	3,118	3,610	
Warren	3,472	3,585	
Balltown	3,890	3,906	
1 st Riley	4,367	4,402	
2 nd Riley	4,502	4,548	
3 rd Riley	4,652	4,700	
Alexander	5,065	5,087	
Elk	5,422	5,456	
Hamilton	6,170	6,352	
Up Marcellus	6,942	6,958	
Cherry Valley	6,958	7,020	
Low Marcellus	7,052	7,102	
Top Onondaga	<u>7,102</u>		

7426 - ?? Permitted as shallow
For Cindy

Perfs	6,927 - 6,955	57 Holes
	7,054 - 7,096	85 Holes

Stage 1

Perfs	7,054 - 7,096
-------	---------------

Stage 2

Perfs	6,927 - 6,955
-------	---------------

47-103-02257P

11/09/2018

WW-4A
Revised 6-07

1) Date: September 5, 2018
2) Operator's Well Number
518475 (J.B. Dewhurst #50)
3) API Well No.: 47 - 103 - 02257

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

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Office of Oil and Gas

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

SEP 26 2018

WV Department of Environmental Protection

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.

11/09/2018

47-103-02257

158475 J.B. Dewhurst #50

Owner(s) (Surface and Access)

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

Coal Owner(s):

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

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

Potential Water Owner(s):

N/A

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West Virginia Department of Environmental Protection

WW-9
(5/16)

API Number 47 - 103 - 02257
Operator's Well No. 518475 (J.B. Dewhurst #50)

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) Buffalo Run Quadrangle Center Point 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 17th day of September, 2018

[Signature]

My commission expires 4-7-2020



Form WW-9

Operator's Well No. 518475 (J.B. Dewhurst #50)

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 Inspector Date: 9-27-18

Field Reviewed? Yes No

47-103-02257 P
11/09/2018

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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Environmental Protection

47-103-02257P

11/09/2018

Topo Quad: Center Point 7.5'

Scale: 1" = 1000'

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Office of Oil and Gas

County: Wetzel

Date: July 27, 2018

SEP 26 2018

District: Grant

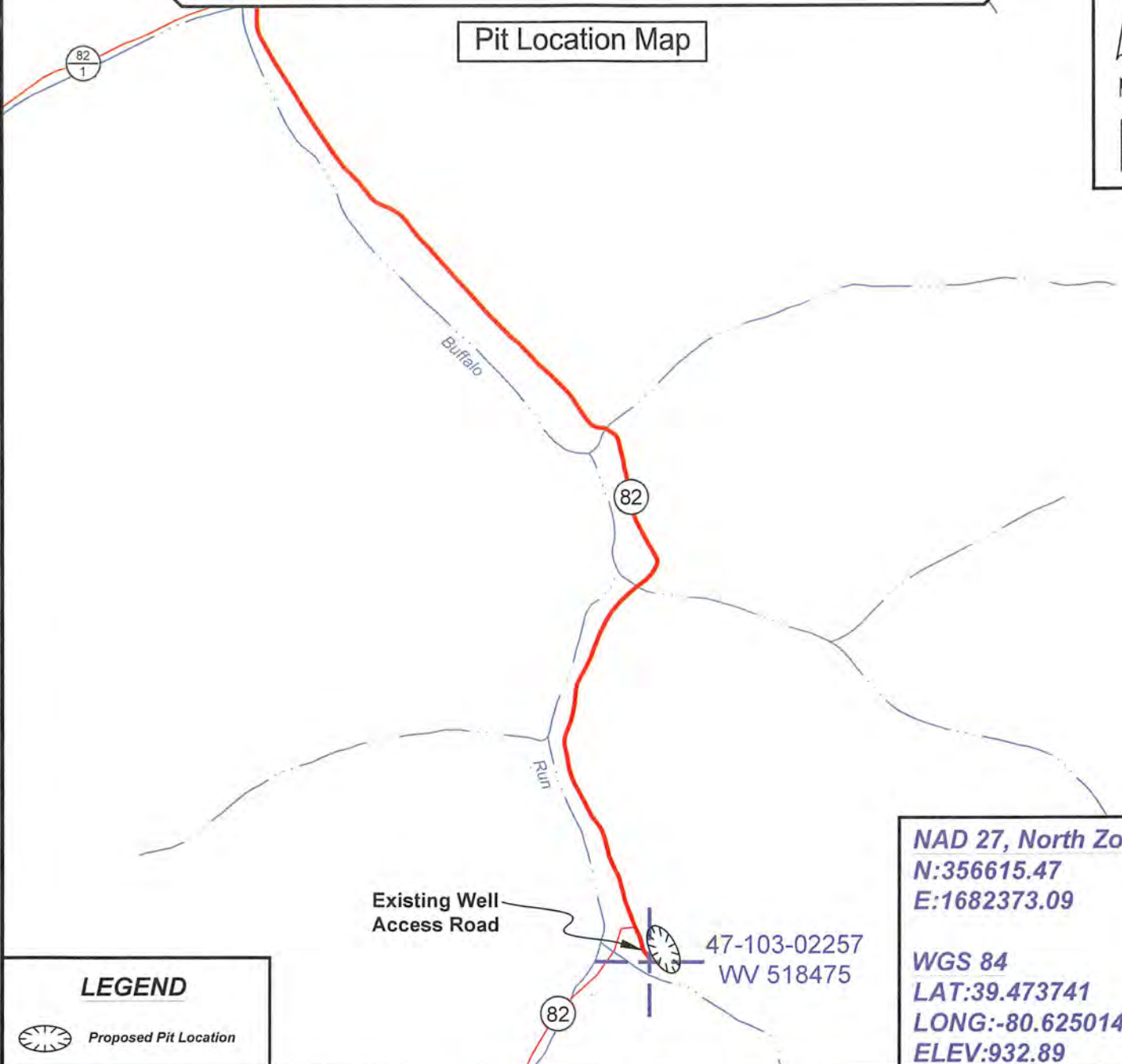
Project No: 40-34-00-09

WV Department of
Environmental Protection

Highway

47-103-02257 WV 518475 (J. B. Dewhurst #50)

Pit Location Map




NAD 27, North Zone
N:356615.47
E:1682373.09

WGS 84
LAT:39.473741
LONG:-80.625014
ELEV:932.89

47-103-02257
WV 518475

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

47-103-02257R

11/09/2018

Topo Quad: Center Point 7.5'

Scale: 1" = 200'

Office of Oil and Gas

County: Wetzel

Date: July 27, 2018

SEP 26 2018

District: Grant

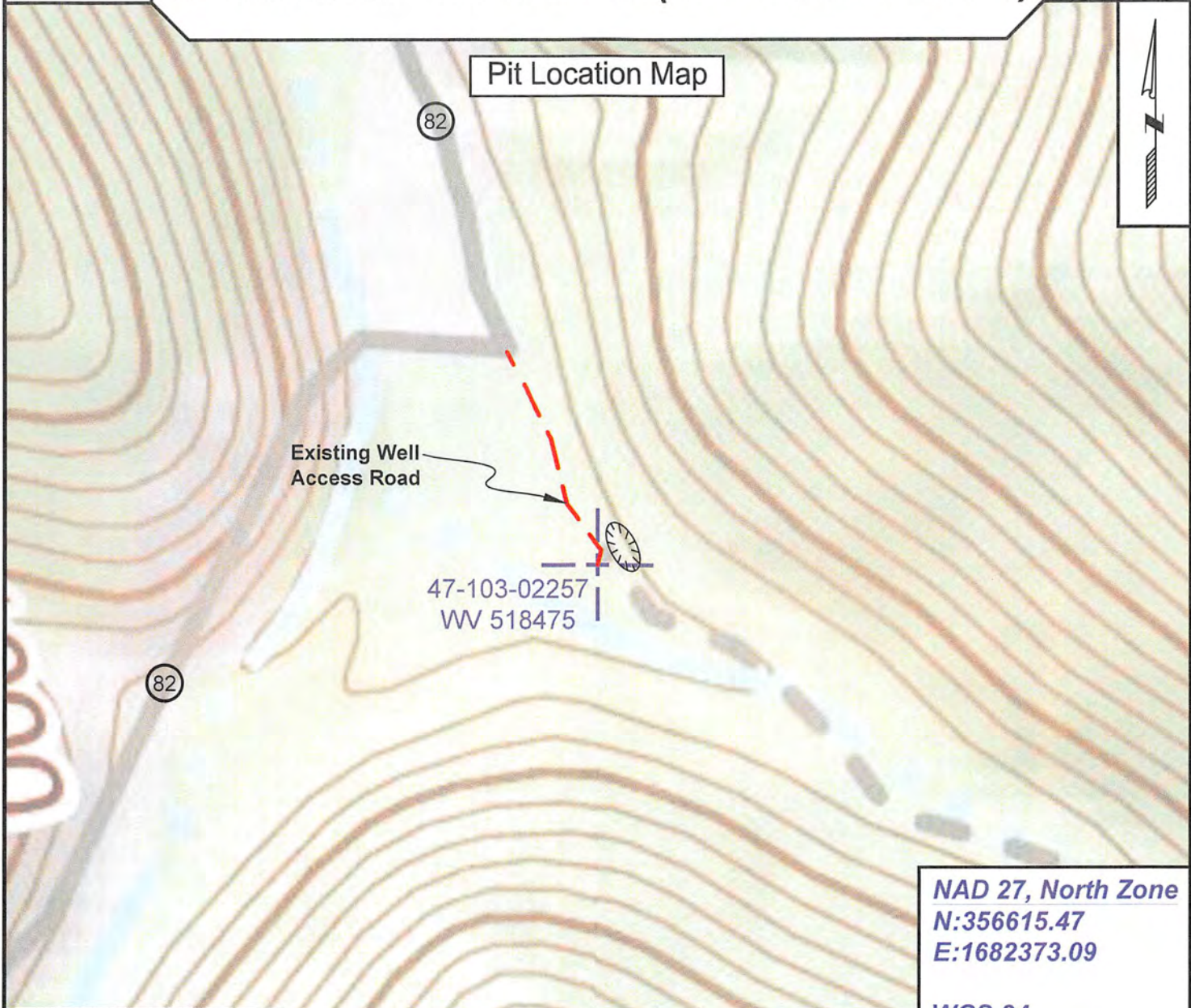
Project No: 40-34-00-09

WV Department of Environmental Protection

47-103-02257 WV 518475 (J. B. Dewhurst #50)

Topo

Pit Location Map




Existing Well Access Road

47-103-02257
WV 518475

NAD 27, North Zone
N:356615.47
E:1682373.09

WGS 84
LAT:39.473741
LONG:-80.625014
ELEV:932.89

LEGEND

 Proposed Pit Location



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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

47-103-02257P

11/09/2018

T d Center Point 7.5

S 1" 2000

Office of Oil and Gas

C Wetzel

D July 27, 2018

SEP 26 2018

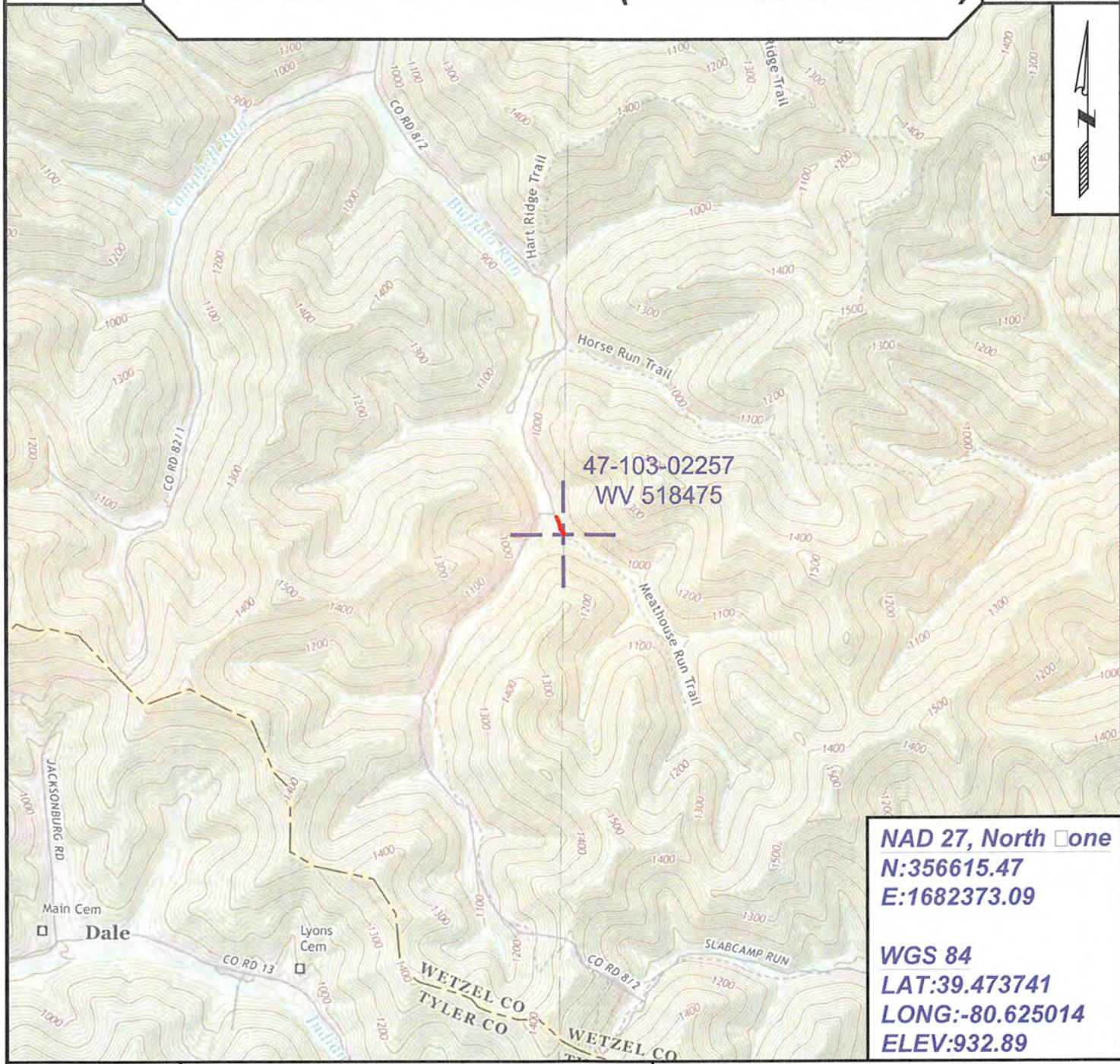
D Grant

Pr N 40-34-00-09

WV Department of Environmental Protection

47-103-02257 WV 518475 (J. B. Dewhurst #50)

To b



47-103-02257
WV 518475

NAD 27, North one
N:356615.47
E:1682373.09

WGS 84
LAT:39.473741
LONG:-80.625014
ELEV:932.89



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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



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

API: 47-103-02257 WELL NO.: WV 518475 (J. B. Dewhurst #50)

FARM NAME: J. B. Dewhurst

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Center Point 7.5'

SURFACE OWNER: West Virginia Department of Natural Resources

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

UTM GPS NORTHING: 4369417

UTM GPS EASTING: 532253 GPS ELEVATION: 284 m (933 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]
Signature

PS# 2180
Title

7/27/18
Date

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WV Department of
Environmental Protection

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANYLEASE NAME AND WELL No. J. B. Dewhurst #50 - WV 518475 - API No. 47-103-02257

POTENTIAL SAMPLE LOCATIONS

There appears to be no potential water sources within the required 1000 feet of the existing well WV 518475.

BIRCH RIVER OFFICE237 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*

47-103-02257P

11/09/2018

T d Center Point 7.5
C Wetzel
D Grant

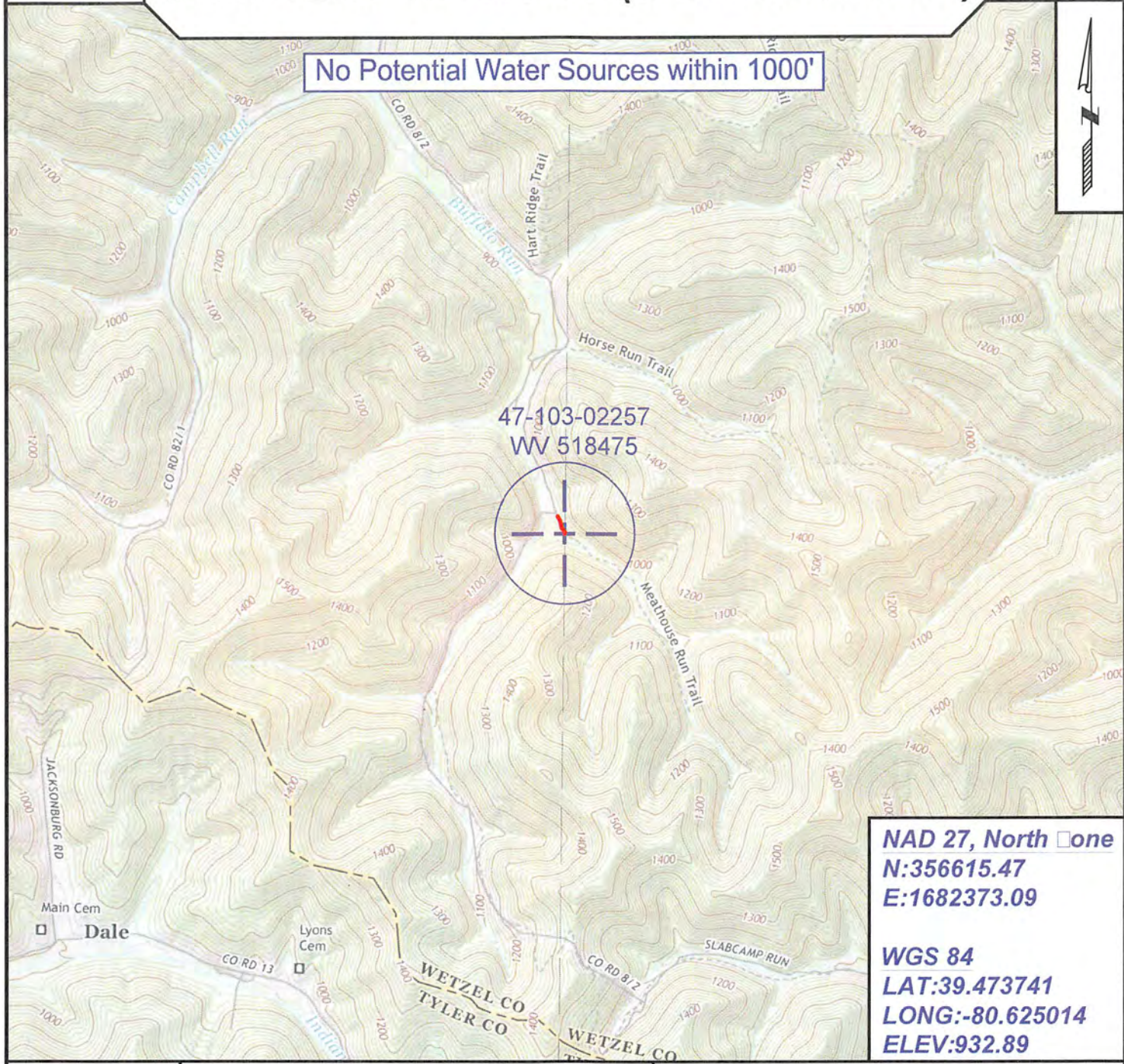
S 1" 2000
D July 27, 2018
Pr N 40-34-00-09

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Office of Oil and Gas
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WV Department of
Environmental Protection

Water

47-103-02257 WV 518475 (J. B. Dewhurst #50)

No Potential Water Sources within 1000'



NAD 27, North one
 N:356615.47
 E:1682373.09

WGS 84
 LAT:39.473741
 LONG:-80.625014
 ELEV:932.89



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 518475
API No. 47-103-02257**

- 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 22.6 miles, to WV County Route 82, on the left. *(Point No. 1)*
- Turn left onto WV County Route 82 and proceed South, for approximately 5.0 miles, to the Well Access Road, straight ahead. *(Point No. 2)*
- Continue straight and Southeast onto the Well Access Road, for approximately 267 feet, arriving at Gas Well WV 518475. *(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

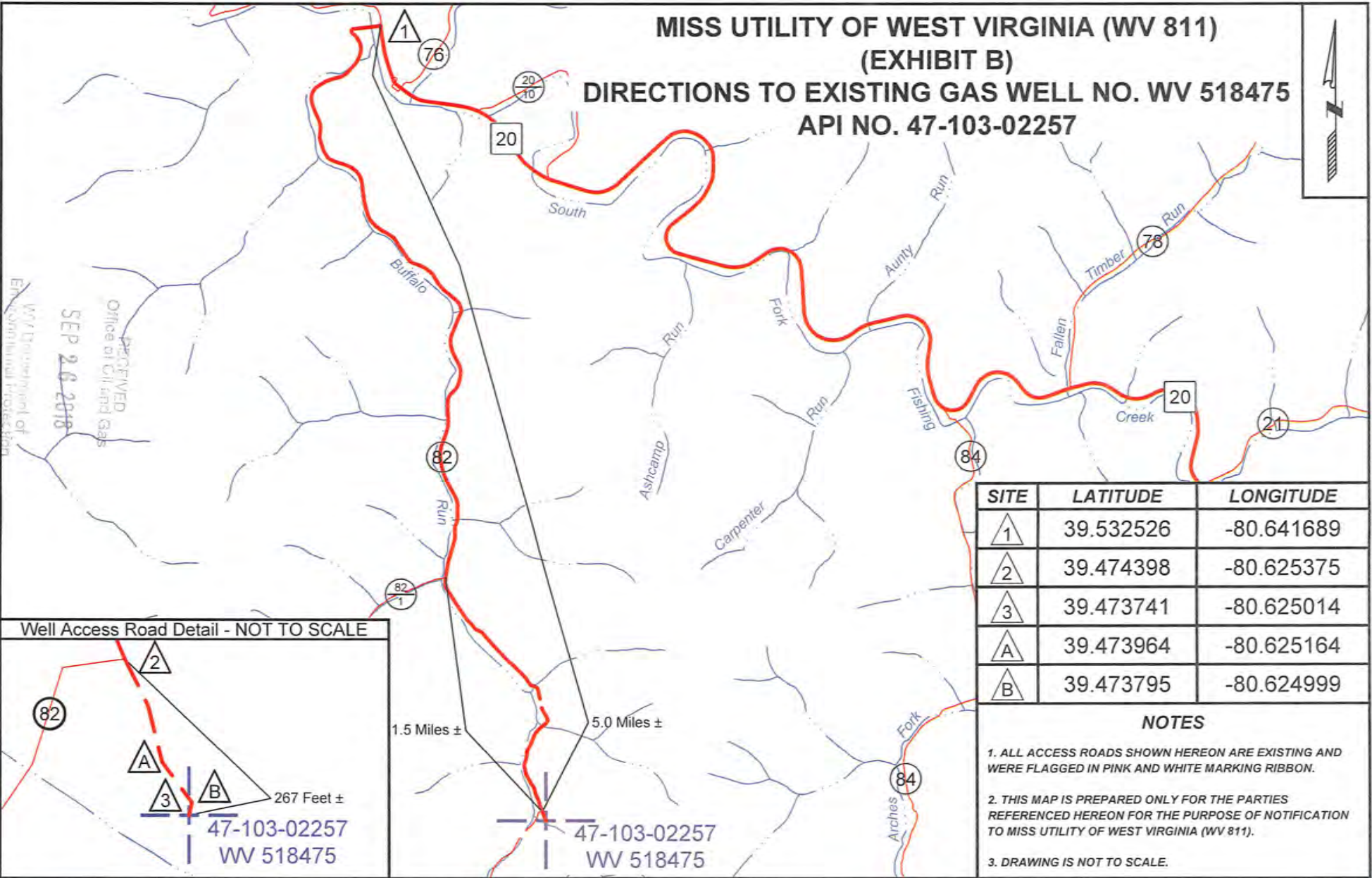
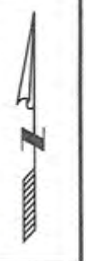
phone: 304-848-5035 fax: 304-848-5037

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 518475
API NO. 47-103-02257**



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



SITE	LATITUDE	LONGITUDE
△ 1	39.532526	-80.641689
△ 2	39.474398	-80.625375
△ 3	39.473741	-80.625014
△ A	39.473964	-80.625164
△ B	39.473795	-80.624999

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.

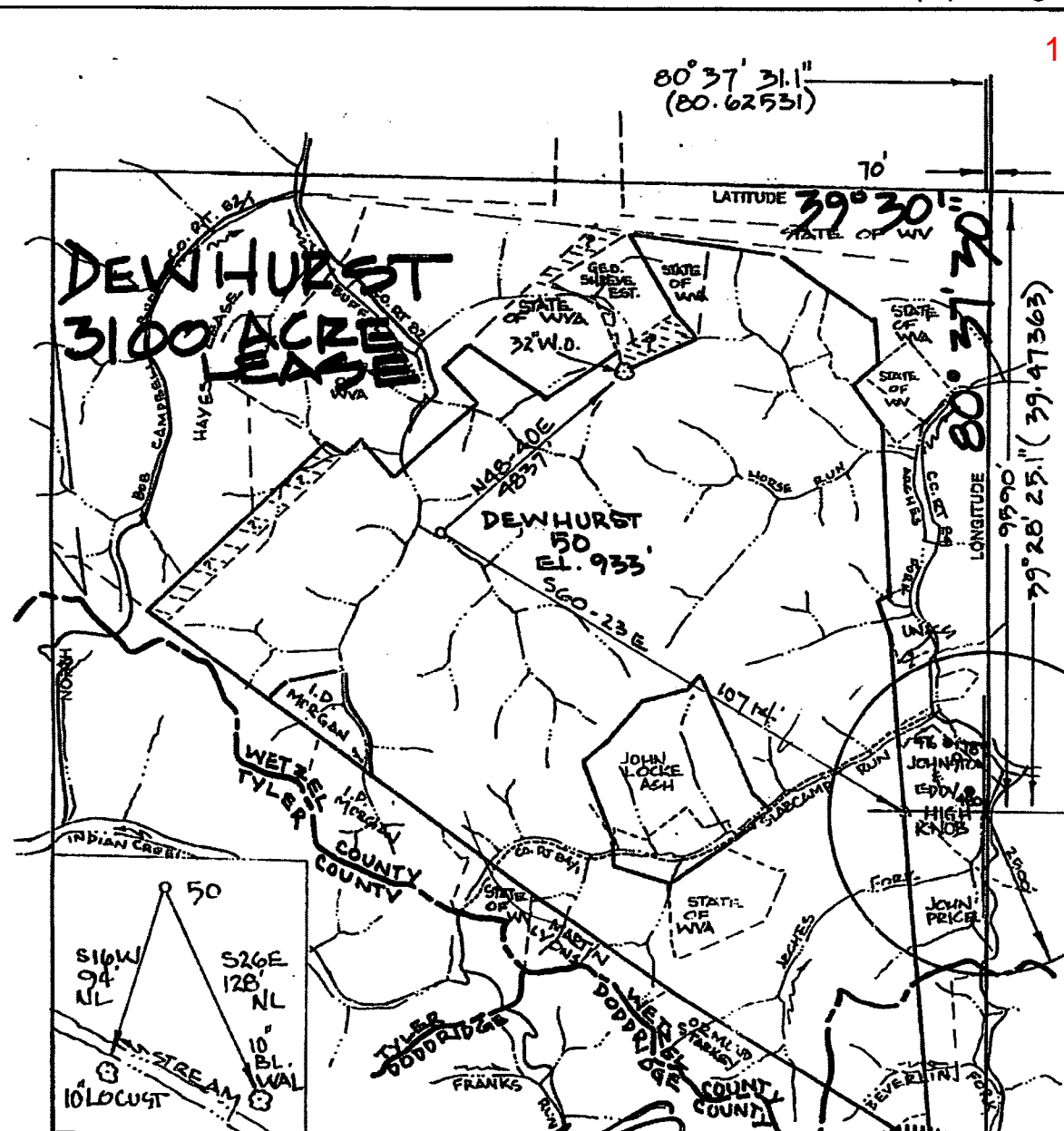


SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

County: Wetzel
District: Grant
Date: July 27, 2018
Project No: 40-34-00-09
File Name: WV 518475 DEWHURST

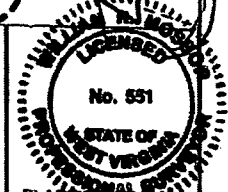
PREPARED FOR:
EQT Production Company
2400 Ansys Drive
Canonsburg, PA 15317

47-103-02257



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 PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND ENFORCED BY THE DEPARTMENT OF ENERGY AND NATURAL RESOURCES.
 (SIGNED) *[Signature]*
 R.P.E. _____ P.S. 551



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS

DATE JUNE 28 20 07
 OPERATOR'S WELL NO. 507
 API WELL NO. 47 103 02257
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 933 WATER SHED BUFFALO RUN
 DISTRICT GRANT COUNTY WETZEL
 QUADRANGLE CENTER POINT

SURFACE OWNER STATE OF WEST VIRGINIA ACREAGE 1/2 3100
 OIL & GAS ROYALTY J.B. DEWHURST LEASE AC. 1/2 3100

PROPOSED WORK: DRILL 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 MARCELLUS SHALE ESTIMATED DEPTH 1500'
 WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT LOREN BAGLEY
 ADDRESS P.O. BOX 293 ADDRESS P.O. BOX 293
ST. MARYS, INC 26170 ST. MARYS, WV 26170

FORM WW-6

COUNTY NAME

PERMIT

RECEIVED
Office of Oil and Gas

SEP 26 2018

WV Department of
Environmental Protection