



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

Friday, June 22, 2018

WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 2-B
47-007-01802-00-00

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: 2-B
Farm Name: WALDECK, JOHN & PAULINE
U.S. WELL NUMBER: 47-007-01802-00-00
Vertical Plugging
Date Issued: 6/22/2018

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

4700701802P

WW-4B
Rev. 2/01

1) Date May 14, 20 18
2) Operator's
Well No. 160731 A. Waldeck #2B
3) API Well No. 47-007 - 01802

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 1057 Watershed Big Bull Run
District Otter County Braxton Quadrangle Cedarville 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 Danny Mullins Name HydroCarbon Well Service
Address 220 Jack Acres Road Address PO Box 995
Buckhannon WV 26201 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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MAY 17 2018
WV Department of
Environmental Protection

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

Work order approved by inspector _____ Date _____

OK *gwm*

PLUGGING PROGNOSIS

Waldeck, J. 2-B (160731)
 Braxton Co. WV
 District, Otter
 API # 47-007- 01802

BY: Craig Duckworth
 DATE: 3/12/18 updated 5/29/18

CURRENT STATUS:

8 5/8" csg @ 353' (100 sks)
 4 1/2" csg @ 5377' (575sks)

Elevation @ 1064'

TD: 5476'

Fresh Water @ 81' Coal @ None Reported
 Saltwater @ None Reported
 Gas shows @ 2077', 2360', 3022', 5476'
 Oil @ None Reported
 Perforated @ 5265'-5296', 5130'-5159', 4852'-4860'

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1. Notify State Inspector, **Danny Mullins 304-546-8171**, 48 hrs. Prior to commencing operations.
2. Check TD w/wireline
3. TIH w/tbg to 5377', set 300' C1A cement plug from 5377' to 5077'. (Perfs @ 5296'-5265, 5159'-5130')
4. TOOH w/tbg to 5077' gel hole 5077' to 4910'.
5. TIH w/tbg to 4910', set 200' C1A cement plug from 4910' to 4710'. (Perfs @ 4860'-4852')
6. TOOH w/tbg to 4710' gel hole 4710' to 3082'.
7. TIH w/tbg to 3082', set 100' C1A cement plug from 3082' to 2882'. (Gas show @ 3022')
8. TOOH w/tbg to 2882' gel hole 2882' to 2400'.
9. TIH w/tbg to 2400', set 200' C1A cement plug from 2340' to 2140'. (Gas show @ 2360')
10. TOOH w/tbg to 2140' gel hole 2140' to 1500'.
11. TOOH w/tbg, Free point 4 1/2" csg, cut csg @ free point, TOOH w/csg.
12. 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.

DM

13. TIH w/tbg to 1560' set 200' C1A cement plug from 1560' to 1360', (4 1/2" csg cut @ 1500'est.
14. TOOH w/tbg to 1360' gel hole 1360' to 1100'.
15. TOOH w/tbg to 1150', set 100' C1A cement plug 1100' to 1000'. (elevation @ 1064').
16. TOOH w/tbg to 1000' gel hole from 1000' to 700'.
17. TOOH w/tbg to 700, set 100' C1A cement plug, 700' to 600' (Safety Plug)
18. TOOH w/tbg to 600' gel hole from 600' to 250'.
19. TOOH w/tbg to 250, set 250' C1A cement plug, 250' to 0' (8 1/4" csg @ 199' cem 60 sks)
20. Erect monument with API#, Date plugged, EQT
21. Reclaim location and road to WV-DEP specifications.

DM



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Environment



IV-35
(Rev 8-81)

APR 14 1982
OIL & GAS DIVISION
DEPT. OF MINES

Date April 12, 1982
Operator's Waldeck #2B
Well No. Waldeck #2B
Farm Waldeck
API No. 47 - 007 - 1802

State of West Virginia
Department of Mines
Oil and Gas Division

160731

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production x / Underground Storage ___ / Deep ___ / Shallow x /)

LOCATION: Elevation: 1064' Watershed Bull Run
District: Otter County Braxton Quadrangle Cedarville 7.5

COMPANY Waco Oil & Gas Co., Inc.
ADDRESS Glenville, WV 26351
DESIGNATED AGENT Kenneth Greenlief
ADDRESS Glenville, WV 26351
SURFACE OWNER John & Pauline Waldeck
ADDRESS Cedarville, WV 26611
MINERAL RIGHTS OWNER Waco Oil & Gas et al
ADDRESS Glenville, WV 26351
OIL AND GAS INSPECTOR FOR THIS WORK Robert
Dates ADDRESS Weston, WV 26452
PERMIT ISSUED March 16, 1982
DRILLING COMMENCED March 22, 1982
DRILLING COMPLETED March 30, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	353'	353'	100 sacks
7			
5 1/2			
4 1/2		5377'	575 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4900 feet
Depth of completed well 5476 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 81 feet; Salt _____ feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Benson-Elk Pay zone depth 4852-5296 feet
Gas: Initial open flow 60 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 510 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 710 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Secondary producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

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West Virginia Department of Environmental Protection

BRA-1802

160731

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Benson-Elk		
4852-4860	5130-5159	5265-5296
6 Holes	8 Holes	7 Holes
479 BBLs Water	523 BBLs Water	495 BBLs Water
20,000 LBS 80/100 Sand	20,000 LBS 80/100 Sand	20,000 LBS 80/100 Sand
40,000 LBS 20/50 Sand	40,000 LBS 20/50 Sand	40,000 LBS 20/50 Sand
500 Gal. Acid	500 Gal. Acid	

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS	
					Including indication of all fresh and salt water, coal, oil and gas	
Shale	Brown	soft	0	20	fresh water	
Shale	Gray	soft	20	90		
Shale	Brown	med.	90	140	DM	
Sand	Gray	hard	140	200		
Shale	White	med.	200	290		
Sand	White	soft	290	360		
Redrock	Red	hard	360	470		
Sand	Gray	hard	470	510		
Sand & Shale	Brown	soft	510	1195		
Sand	White	med.	1195	1285		
RA & Shale	Red	med.	1285	2077		show gas
Big Lime			2077	2190		
Injun Sand			2190	2281	show gas	
Big Injun Sand			2281	2360		
Weir			2360	2400		
Berea			2400	2454		
Sand & Shale			2454	2766		
Gordon			2766	2780		
Sand & Shale			2780	2958		
Fifth Sand			2958	3042	Gas @ 3022'	
Sand & Shale			3042	3330		
Riley			3330	3514		
Sand & Shale			3514	5124	Gas	
Benson & Elk			5124	5476		
TD				5476		

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(Attach separate sheets as necessary)

Waco Oil & Gas Co., Inc.
Well Operator

By: *Kenneth Heanleaf - Agent*

Date: April 13, 1982

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

160731

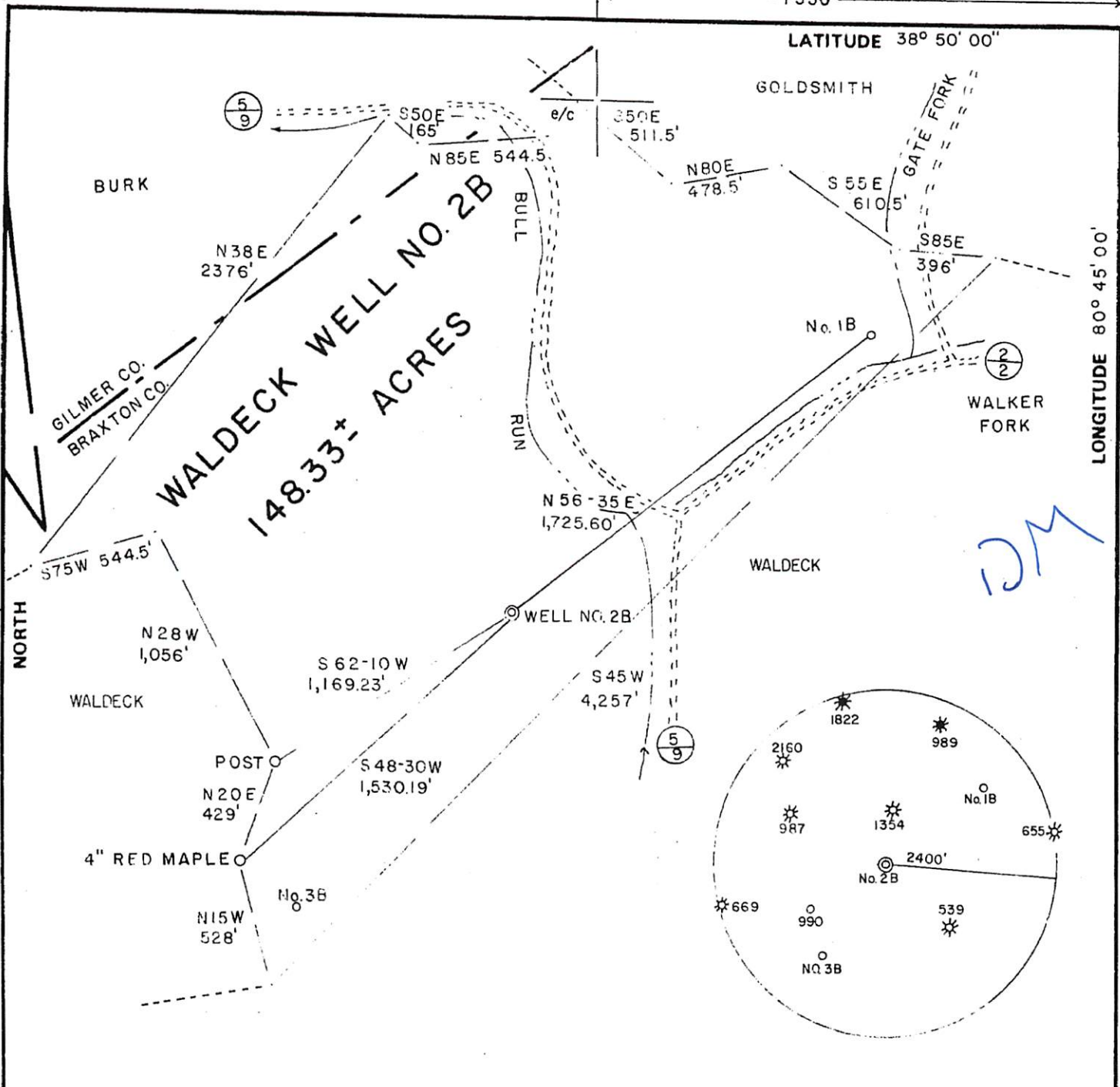
4700701802P

7350'

1160'

LONGITUDE 80° 45' 00"

LATITUDE 38° 50' 00"



DM

FILE NO. 6-9
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION INTERSECTION OF 5/9 & 2/2 848'

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 AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Gregory A. Smith
 R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MARCH 13, 19 82
 OPERATOR'S WELL NO. 2B
 API WELL NO. _____
47 - 007 - 1802
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1064' WATER SHED BULL RUN
 DISTRICT OTTER COUNTY BRAXTON
 QUADRANGLE CEDARVILLE 7.5'
 SURFACE OWNER JOHN & PAULINE WALDECK ACREAGE 148.33
 OIL & GAS ROYALTY OWNER WACO OIL & GAS et. al. LEASE ACREAGE 148.33
 LEASE NO. _____
 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 BENSON ESTIMATED DEPTH 5100'
 WELL OPERATOR WACO OIL & GAS COMPANY DESIGNATED AGENT KENNY GREENLIEF
 ADDRESS P.O. BOX 4 ADDRESS P.O. BOX 4
GLENNVILLE, W.V. 26351 GLENNVILLE, W.V. 26351

WW-4A
Revised 6-07

1) Date: May 14, 2018
2) Operator's Well Number
160731 A. Waldeck #2B
3) API Well No.: 47 - 007 - 01802

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

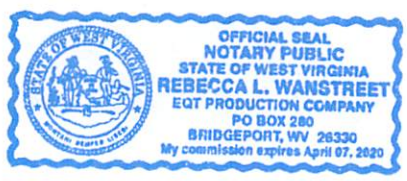
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres Road</u>	Name _____
<u>Buckhannon WV 26201</u>	Address _____
Telephone <u>(304) 546-8171</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

Subscribed and sworn before me this 14 day of May 2018
Rebecca L. Wanstreet Notary Public
 My Commission Expires 4-7-2020

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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.

WV Department of
Environmental Protection

47-007-01802

160731 A. Waldeck #2B

Owner(s) (Surface and Access)

Frank L Waldeck and Judy C Stout et al
3330 Jones Rd.
Diamond OH 44412

Coal Owner(s):

Blackhawk Land and Resources LLC
c/o Deutsche Bank AG NY Branch
60 Wall St. NYC 600266
New York NY 10005

Potential Water Owner(s):

Frank Z. Waldeck
2973 Walker Fork Road
Cedarville WV 26611

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WW-9
(5/16)

4700701802 A
API Number 47 - 007 - 01802
Operator's Well No. 160731 A. Waldeck #2B

**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 _____

Watershed (HUC 10) Big Bull Run Quadrangle Cedarville 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 _____)

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 *Erin Spine*

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

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Environmental Protection

Subscribed and sworn before me this 14th day of May, 2018

Rebecca L. Wanstreet Notary Public

My commission expires 4-7-2020



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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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: _____

Comments: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

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4700701802P

Topo Quad: Cedarville 7.5'

Scale: 1" = 500'

County: Braxton

Date: April 17, 2018

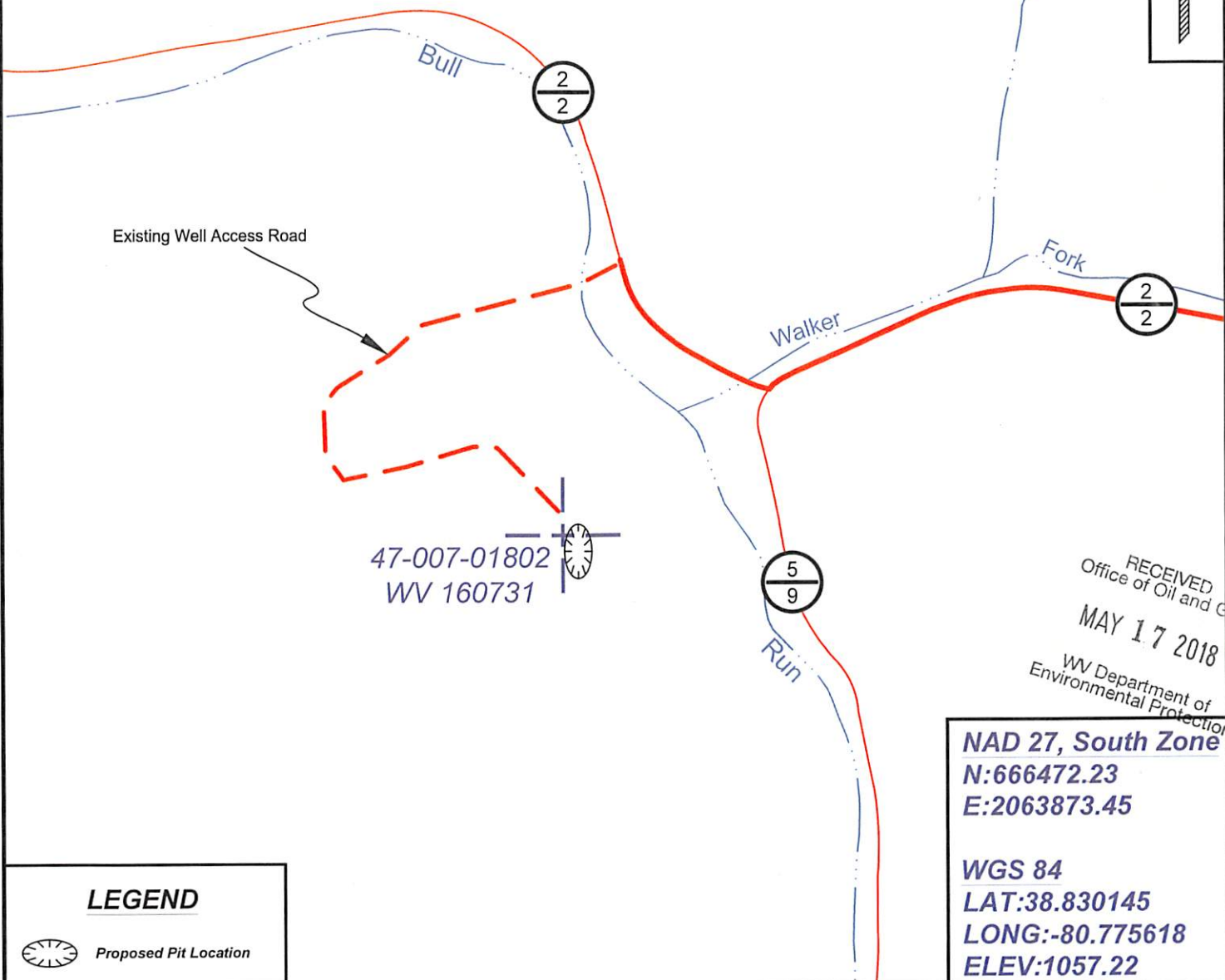
District: Otter

Project No: 40-02-00-07

Highway

47-007-01802 WV 160731 (A. Waldeck #2B)

Pit Location Map



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NAD 27, South Zone
N:666472.23
E:2063873.45

WGS 84
LAT:38.830145
LONG:-80.775618
ELEV:1057.22

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

2240 Ansys Drive
Canonsburg, PA 15317

Topo Quad: Cedarville 7.5'

Scale: 1" = 200'

47 00 7 0 1 8 0 2 P

County: Braxton

Date: April 17, 2018

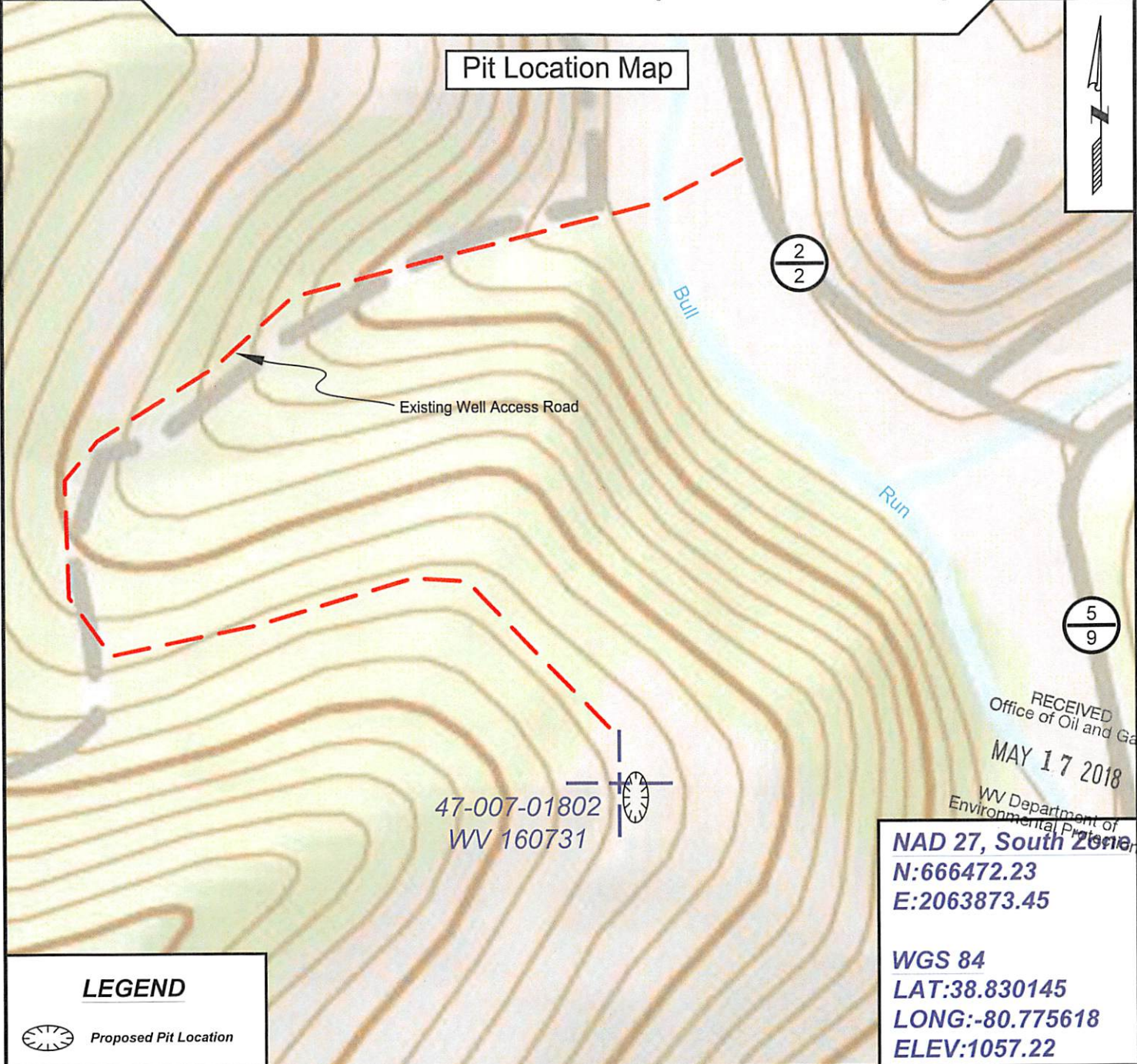
District: Otter

Project No: 40-02-00-07

47-007-01802 WV 160731 (A. Waldeck #2B)

Topo

Pit Location Map



Existing Well Access Road

Bull Run

47-007-01802
WV 160731


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NAD 27, South Zone
N:666472.23
E:2063873.45

WGS 84
LAT:38.830145
LONG:-80.775618
ELEV:1057.22

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

2240 Ansys Drive
Canonsburg, PA 15317

Topo Quad: Cedarville 7.5'

Scale: 1" = 2000'

47 007 018 02 P

County: Braxton

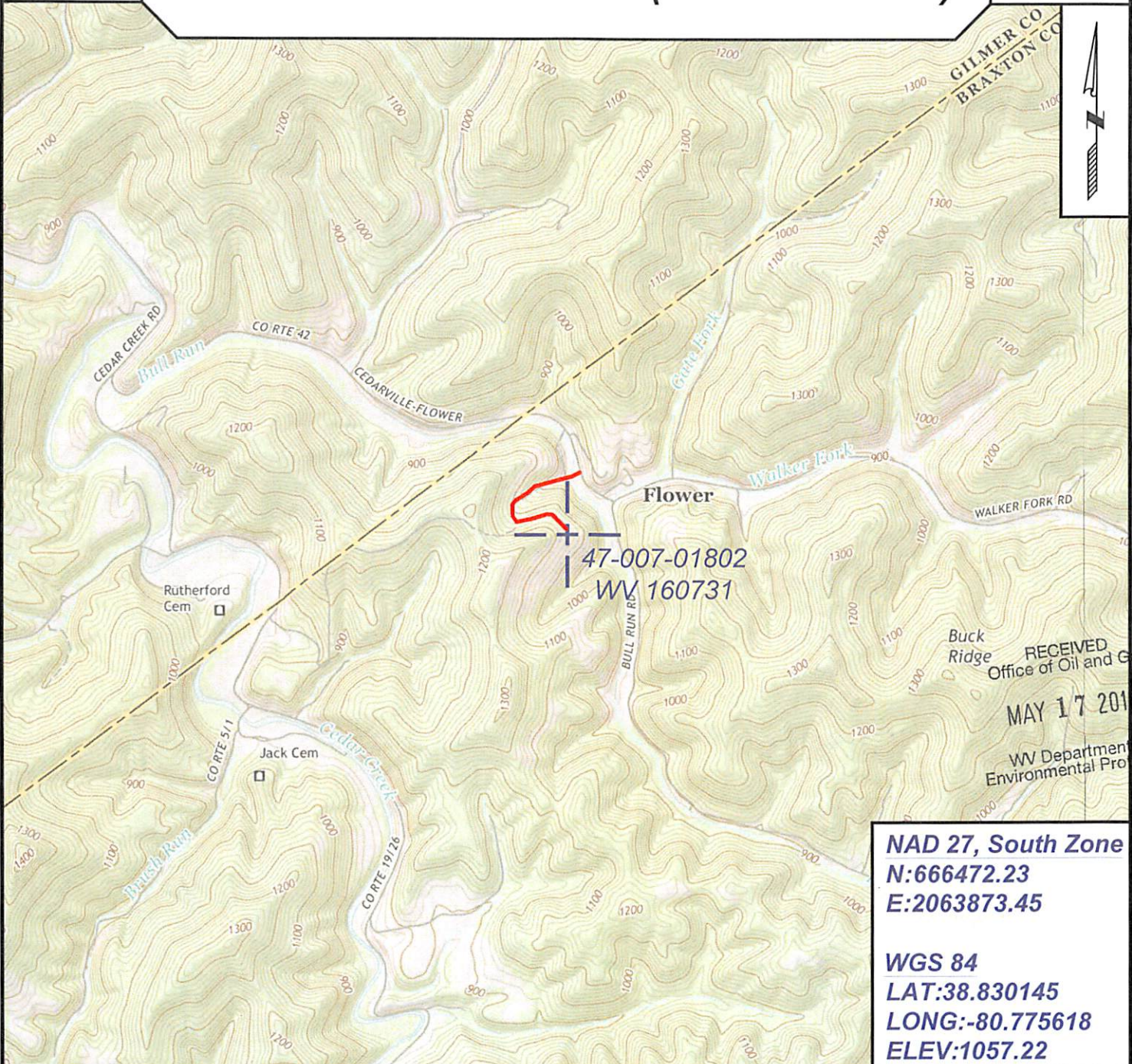
Date: April 17, 2018

District: Otter

Project No: 40-02-00-07

47-007-01802 WV 160731 (A. Waldeck #2B)

Topo



47-007-01802
WV 160731

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Environmental Protection

NAD 27, South Zone
N:666472.23
E:2063873.45

WGS 84
LAT:38.830145
LONG:-80.775618
ELEV:1057.22



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

2240 Ansys Drive
 Canonsburg, PA 15317



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Waldeck #2B - WV 160731 - API No. 47-007-01802

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 670 +/- Owner: Frank L. Waldeck and Judy C. Stout
 Address: 3330 Jones Road, Diamond, OH 44412 Phone No. _____
 Comments: House

Site: 2 Spacing: 706 +/- Owner: Frank L. Waldeck and Judy C. Stout
 Address: 3330 Jones Road, Diamond, OH 44412 Phone No. _____
 Comments: Lodge

Site: 3 Spacing: 798 +/- Owner: Frank L. Waldeck and Judy C. Stout
 Address: 3330 Jones Road, Diamond, OH 44412 Phone No. _____
 Comments: Spring

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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 Road
Alum Creek, WV 25003
phone: 304-756-2949 fax: 304-756-2948

Topo Quad: Cedarville 7.5' Scale: 1" = 2000'

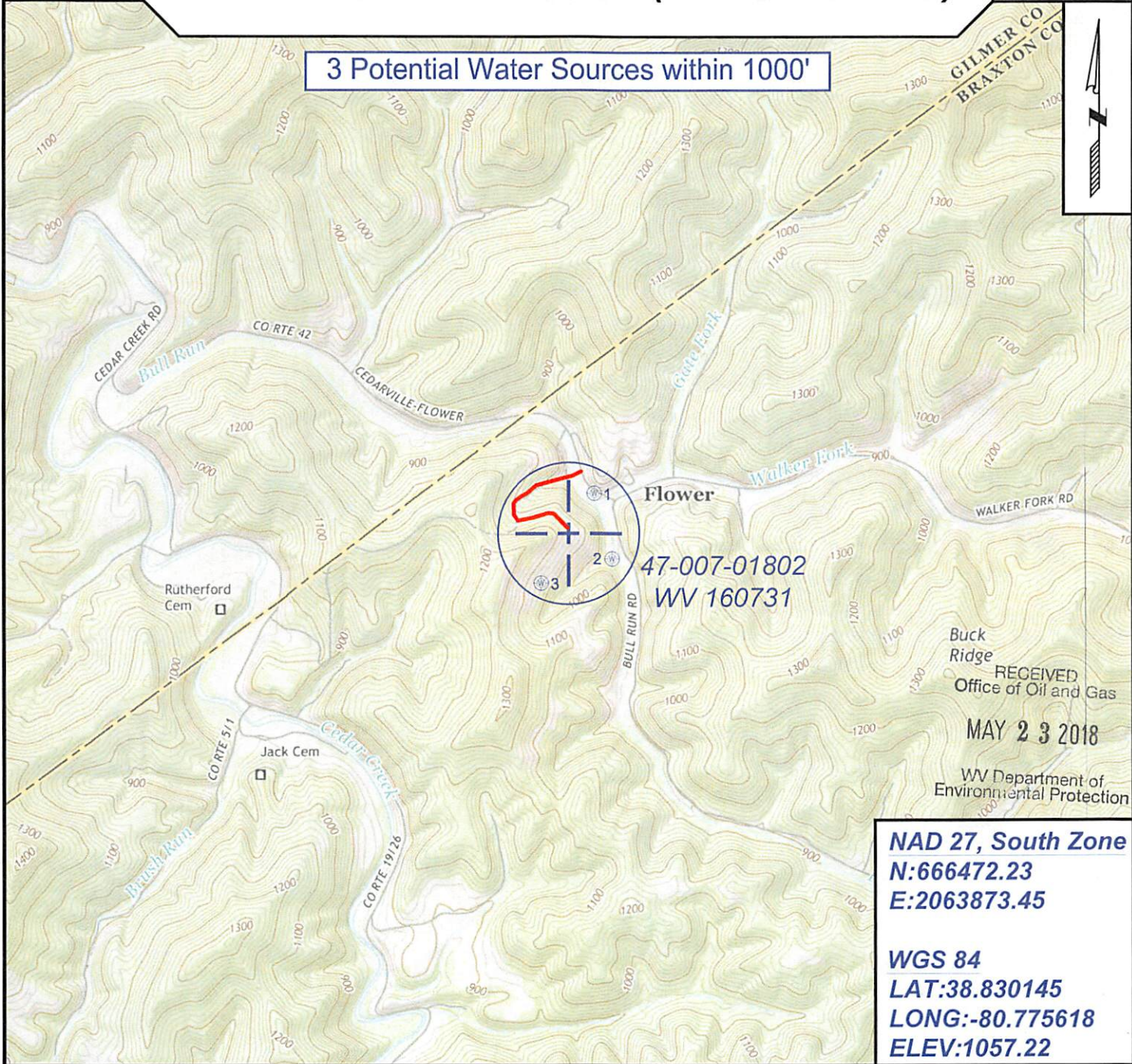
County: Braxton Date: April 17, 2018

District: Otter Project No: 40-02-00-07

Water

47-007-01802 WV 160731 (A. Waldeck #2B)

3 Potential Water Sources within 1000'



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MAY 23 2018
WV Department of
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NAD 27, South Zone
N:666472.23
E:2063873.45
WGS 84
LAT:38.830145
LONG:-80.775618
ELEV:1057.22



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
 2240 Ansys Drive
 Canonsburg, PA 15317



Miss Utility of West Virginia (WV811)

(Exhibit A)

Directions to Gas Well No. WV 160731

API No. 47-007-01802

- Beginning at the intersection of US Interstate 79 Exit 79 (Burnsville/Glenville) and 5th Street in Braxton County, WV. *(Point No. 1)*
- Proceed Northwest on 5th Street, for approximately 0.1 mile, to the junction of WV State Route 5 (Wabash Ave) and 5th Street. *(Point No. 2)*
- Turn left onto WV State Route 5 (Wabash Ave.) and proceed South, for approximately 2.1 miles, to the junction of WV State Route 5 (Wabash Ave) and WV County Route 2 (Copen Rd). *(Point No. 3)*
- Turn right onto WV County Route 2 (Copen Rd) and proceed West, for approximately 4.7 miles, to the junction of WV County Route 2 (Copen Rd) and WV County Route 2/2 (Walker Fork Rd). *(Point No. 4)*
- Turn left onto WV County Route 2/2 (Walker Fork Rd) and proceed West, for approximately 2.9 miles, to the junction of WV County Route 2/2 (Walker Fork Rd) and WV County Route 5/9 (Bull Run Rd). *(Point No. 5)*
- Turn right onto WV County Route 2/2 (Bull Run Rd) and proceed North, for approximately 670 feet, arriving at the Well Access Road on the left. *(Point No. 6)*
- Turn left onto the Well Access Road and proceed South, for approximately 0.40 mile, arriving at Gas Well WV 160731. *(Point No. 7)*

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 Road
Alum Creek, WV 25003
phone: 304-756-2949 fax: 304-756-2948

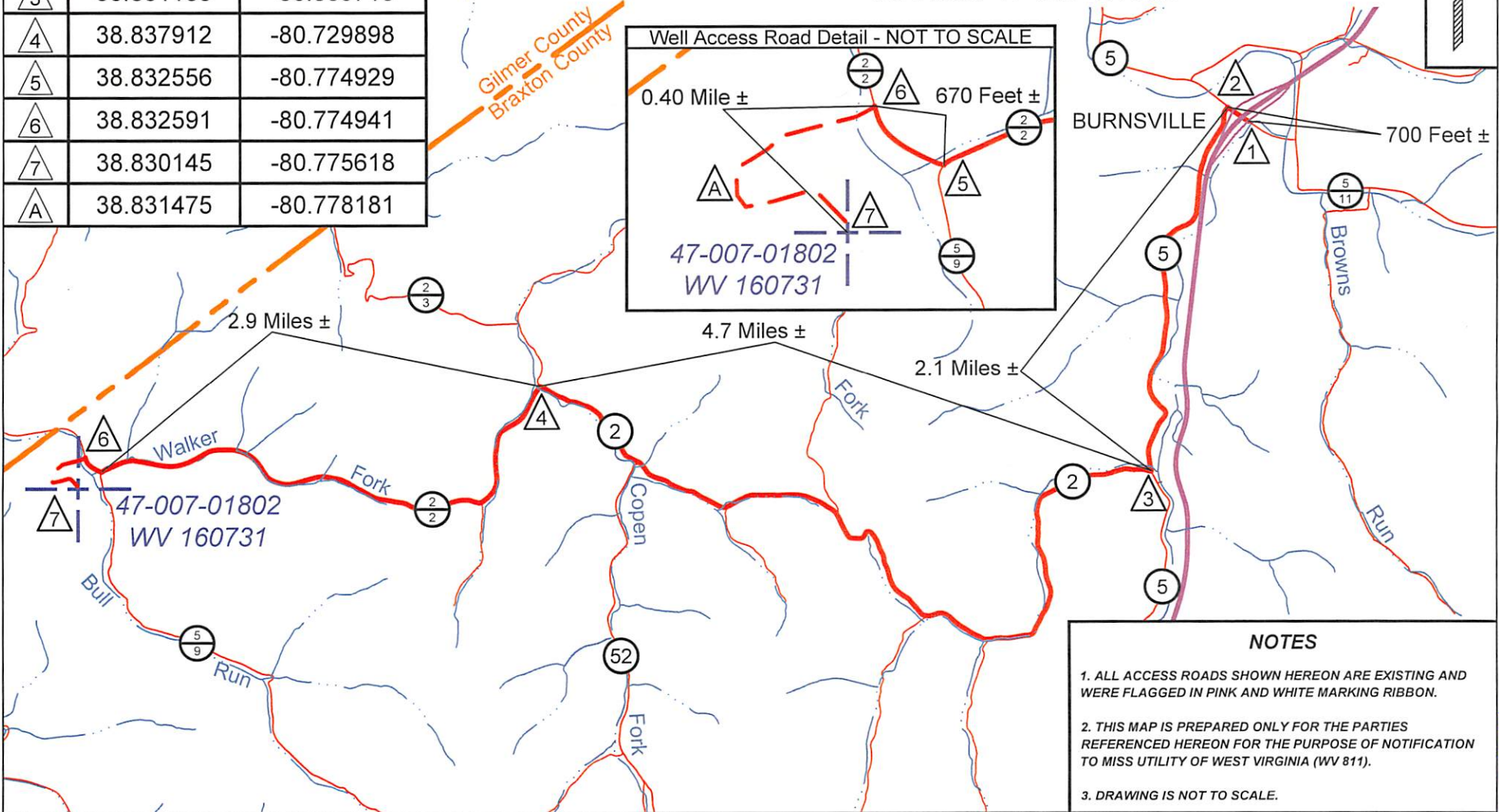
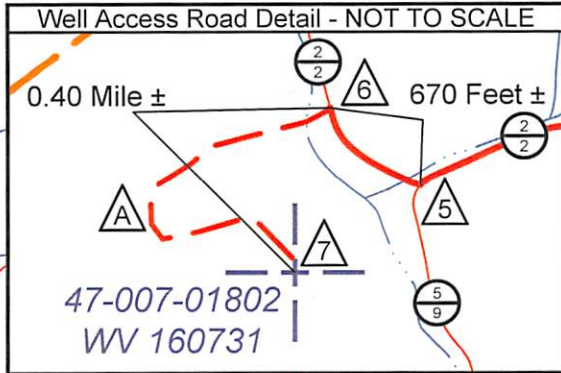
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Office of Oil and Gas

MAY 17 2018

WV Department of
Environmental Protection

SITE	LATITUDE	LONGITUDE
1	38.858159	-80.660094
2	38.859234	-80.662102
3	38.831165	-80.669716
4	38.837912	-80.729898
5	38.832556	-80.774929
6	38.832591	-80.774941
7	38.830145	-80.775618
A	38.831475	-80.778181

**MISS UTILITY OF WEST VIRGINIA (WV 811)
(EXHIBIT B)
DIRECTIONS TO EXISTING GAS WELL NO. WV 160731
API NO. 47-007-01802**



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



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Environmental Protection

County:	Braxton
District:	Otter
Date:	April 18, 2018
Project No:	40-02-00-07
File Name:	WV 160731 WALDECK

PREPARED FOR:
EQT Production Company
2240 Ansys Drive
Canonsburg, PA 15317

4700701802P