



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 J. WILSON 1888
47-085-08489-00-00

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: J. WILSON 1888
Farm Name: LESKOWICZ, MARK & NOREI
U.S. WELL NUMBER: 47-085-08489-00-00
Vertical Plugging
Date Issued: 6/22/2018

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.

85-08489 P

WW-4B
Rev. 2/01

1) Date May 21, 2018
2) Operator's
Well No. 657436 Wilson #1888
3) API Well No. 47-085 - 08489

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 1165 Watershed Hughes River
District Clay County Ritchie Quadrangle Pennsboro

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 Michael Goff
Address 1723 Auburn Road
Pullman WV 26421
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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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector MIKE GOFF BY PHONE Date 6/21/2018

JMM 6/18/18

06/22/2018

PLUGGING PROGNOSIS

657436
 J. Wilson #1888
 API# 47-085-08489
 District, Clay
 Ritchie County, WV

BY: R Green
 DATE: 01/15/18

CURRENT STATUS:

TD @ 5592'
Elevation @ 1100'

9 5/8" casing @ 337' (CTS)
 7" casing @ 1995' (CTS)
 4 1/2" casing @ 5399' (cemented with 225 sks)

Perforations @ 5281' to 5290' (14 shots)
 " @ 4872' to 5005' (14 shots)
 " @ 4632' to 4646' (14 shots)

Fresh Water @ None Reported
Saltwater @ None Reported
Oil Show @ None Reported
Gas shows @ None Reported
Coal @ None Reported

1. Notify inspector Michael Goff @ 304-549-9823, 24 hrs. prior to commencing operations.
2. TIH, check TD @ or below 5290'.
3. TIH and spot 40 bbl. of 6% gelled water followed by a 515' C1A cement plug, 5290' to 4775', WOC 8 hrs. Tag TOC add additional C1A cement if necessary.
4. TOOH to 4650' set a 200' C1A cement plug, 4650' to 4450', WOC 4 hrs. Tag TOC add additional C1A cement if necessary.
5. TOOH to 3600' set a 200' C1A cement plug, 3600' to 3400'. (Safety plug).
6. Free point 4 1/2" casing, cut casing @ free point. TOOH 4 1/2" casing.
7. Set a 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, oil and gas shows below cut. Do not omit any plugs.
8. TOOH to 2050' set a 200' C1A cement plug 2050' to 1850'. (7" casing seat).
9. TOOH to 1200' set a 200' C1A cement plug, 1200' to 1000' (Elevation).
10. TOOH to 500', set a 500' C1A cement plug 500' to surface. (9 5/8" casing seat).
11. Erect monument with API#, date plugged, & company name.
12. Reclaim location and road to WV-DEP specifications.

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WR-35

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

3-Nov.-97
API# 47-08489
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JAN 07 1999
WV Division of
Environmental Protection

FARM NAME Leskowicz, Mark & Noreen OPERATOR WELL NO. J. Wilson 1888
LOCATION: ELEVATION 1,100.00 QUADRANGLE Pennsboro
DISTRICT: Clay COUNTY Ritchie
LATITUDE: 2900 Feet South of 39 Deg. 17 Min. 30 Sec.
LONGITUDE: 6100 Feet West of 80 Deg. 55 Min. 0 Sec.

COMPANY:	CARNEGIE NATURAL GAS CO. 800 REGIS AVENUE PITTSBURGH, PA 15236	CASING/ TUBING SIZE	USED IN DRILLING	LEFT IN WELL	CEMENT FILL UP CU. FT.
AGENT:	DOUGLAS R. NAY				
INSPECTOR:	Sam Hersman				
PERMIT ISSUED:	11/6/1997				
WELL WORK COMMENCED:	11/10/1997	9 5/8"	337'	337'	C.T.S.
WELL WORK COMPLETED:	7/31/1998				
VERBAL PLUGGING PERMISSION GRANTED ON:					
ROTARY <u>X</u> CABLE	<u> </u> RIG	7"	1995'	1995'	C.T.S.
TOTAL DEPTH (FEET):	5592				
FRESH WATER DEPTHS (FT):		4 1/2"		5399'	225 sks.
SALT WATER DEPTHS (FT):					
IS COAL BEING MINED IN AREA (Y/N)	<u>N</u>				
COAL DEPTHS (FT):					

OPEN FLOW DATA * Existing Casing

PRODUCING FORMATION Alexander, Benson PAY ZONE DEPTH (FT) See Treatment

GAS INITIAL OPEN FLOW MCF/d OIL INITIAL OPEN FLOW Bbl/d

FINAL OPEN FLOW Co-mingled MCF/d FINAL OPEN FLOW Bbl/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS HOURS

STATIC ROCK PRESSURE psig (SURFACE PRESSURE) AFTER HOURS

SECOND PRODUCING FORMATION Riley PAY ZONE DEPTH (FT) See Treatment

GAS INITIAL OPEN FLOW - MCF/d OIL INITIAL OPEN FLOW Bbl/d

FINAL OPEN FLOW Co-mingled MCF/d FINAL OPEN FLOW Bbl/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS HOURS

STATIC ROCK PRESSURE 670 psig (SURFACE PRESSURE) AFTER 24 HOURS

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

FOR: CARNEGIE PRODUCTION COMPANY

BY: Douglas R. Nay

DATE: 12/28/98

06/22/2018

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Douglas R. Nay

85-08489A

RIT-8489

Well Treatment

1st Stage

Perforated Alexander Formation (5281'-5290') 14 shots. Treated with 500 gal. 15% HCL, 60 Q Foam, 400 sks. 20/40 sand and 433,000 SCF of N₂, B.D. 2201 psi, MTP 3453 psi, ATP 3230 psi @ BPM rate, ISIP 2592 psi.

2nd Stage

Perforated Benson and Riley Formations (4872'-5005') 14 shots. Treated with 500 gal. 15% HCL, 60 Q Foam, 500 sks. 20/40 sand and 447,000 SCF of N₂, B.D. 1924 psi, MTP 3355 psi, ATP 3086 psi @ BPM rate, ISIP 2466 psi.

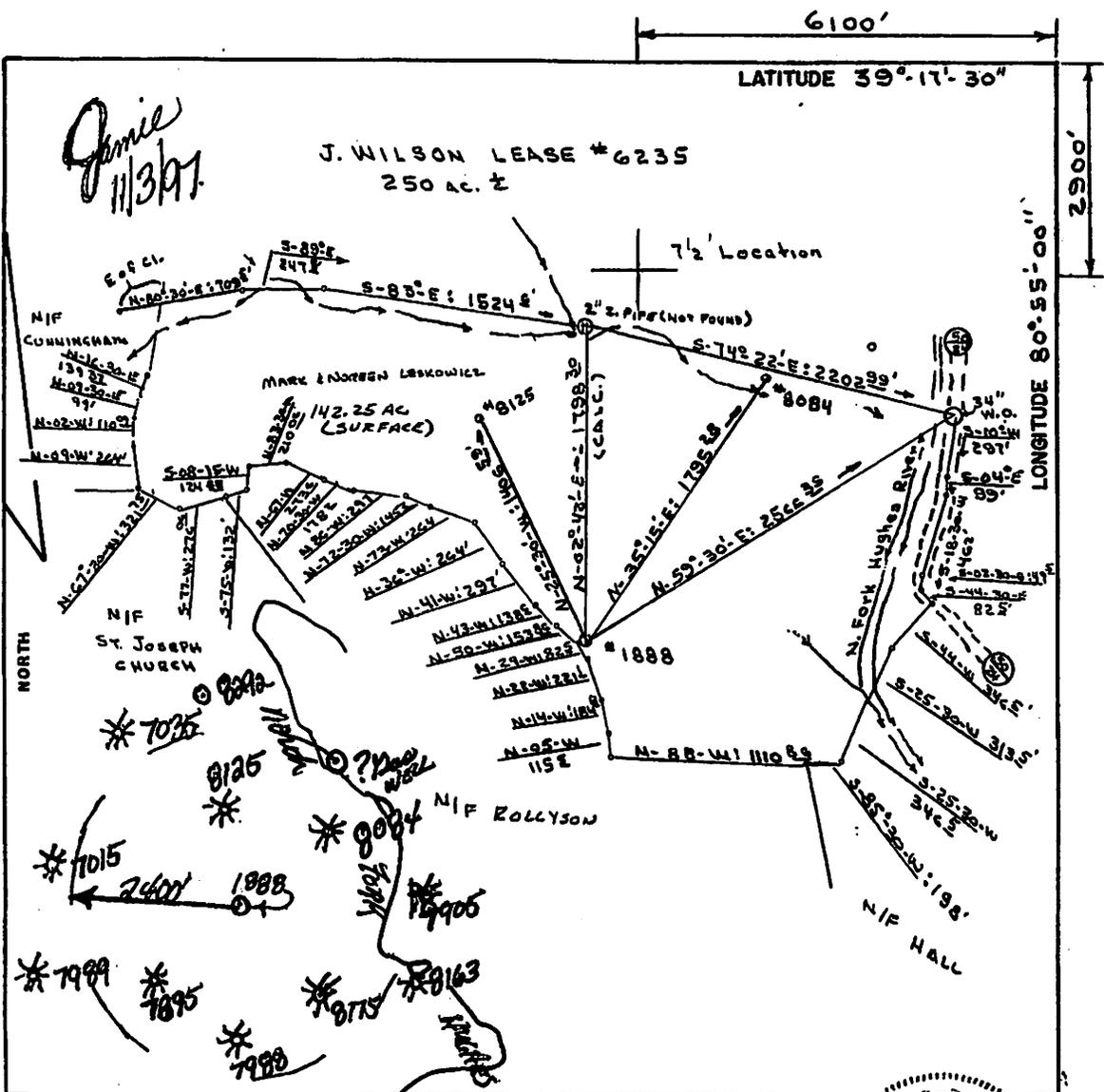
3rd Stage

Perforated Riley Formation (4632'-4646') 14 shots. Treated with 500 gal. 15% HCL, 60 Q Foam, 50 sks. 80/100 sand, 400 sks. 20/40 sand and 408,000 SCF of N₂, B.D. 1888 psi, MTP 3236 psi, ATP 2520 psi @ BPM rate, ISIP 1236 psi.

FORMATION	TOP (FT)	BOTTOM (FT)
Sand, Shale, Red Rock	0	1990
Little Lime	1990	2036
Big Lime	2036	2105
Big Injun	2105	2190
Sand & Shale	2190	2401
Weir	2401	2512
Sand & Shale	2512	3482
Speechley Section	3482	3562
Sand & Shale	3562	3854
Balltown Section	3854	4406
Sand & Shale	4406	4487
Riley Section	4487	4880
Sand & Shale	4880	4996
Benson Section	4996	5004
Sand & Shale	5004	5190
Alexander Section	5190	5311
Sand & Shale	5311	5592 TD

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FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION 7 1/2 TOPO SHEET.
 TOP OF RIDGE ELEV. _____

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) Ann R. Almy
 R.P.E. 899.7 L.L.S. _____



WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506



DATE OCTOBER 6, 1997
 OPERATOR'S WELL NO. 1888
 API WELL NO. 47 085 08489
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1100 WATER SHED NORTH FORK HUGHES RIVER
 DISTRICT CLAY COUNTY BITCHIE
 QUADRANGLE PENNSBORO 7 1/2'
 SURFACE OWNER MARK A. & NOREEN LESKOWICZ ACREAGE 142.25
 OIL & GAS ROYALTY OWNER J. WILSON HEIRS, ET AL. LEASE ACREAGE 250
 LEASE NO. 6235
 PROPOSED WORK: DRILL X 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 ELK ESTIMATED DEPTH 5800'
 WELL OPERATOR Carnegie Production Co DESIGNATED AGENT D. Nay
 ADDRESS 800 Regis Avenue ADDRESS P.O. Box 645
Pittsburgh, PA 15236 Pennsboro, W.V. 26415

06/22/2018

Pennsboro 8

85-08489 P

WW-4A
Revised 6-07

1) Date: May 21, 2018
2) Operator's Well Number
657436 Wilson #1888
3) API Well No.: 47 - 085 - 08489

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>Michael Goff</u>	(c) Coal Lessee with Declaration
Address <u>1723 Auburn Road</u>	Name _____
<u>Pullman WV 26421</u>	Address _____
Telephone <u>304-549-9823</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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Subscribed and sworn before me this 1st day of June 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 depprivacyofficer@wv.gov.

06/22/2018

47-085-08489

657436 (Wilson #1888)

Owner(s) (Surface and Access)

Mark A. Leskowicz and Noreen Leskowicz
1325 River Road
Pensboro, WV 26451

Coal Owner(s):

Wilson-Johnson Family LLC
3315 Higley Road
Rocky River, OH 44116

ET Blue Grass
625 Liberty Ave., Suite 1700
Pittsburgh, PA 15222

Susie Perkins
1903 35th St.
Parkersburg, WV 26104

Benjamin Weekley
Rt 1 Box 53
Pensboro WV 26415

Potential Water Owner(s):

N/A

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WW-4B

API No. 47-085-08489
Farm Name J. Wilson
Well No. 657436 Wilson #1888

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator _____ / owner X / lessee _____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 5/31/18


By: Jason Ranson
Its EQT Director, Drilling -Land; AIF for E.T.Bluegrass

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WW-9
(5/16)

API Number 47 - 085 - 08489
Operator's Well No. 657436 Wilson #1888

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) Hughes River Quadrangle Pennsboro

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 [Signature]

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

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WV Department of
Environmental Protection

Subscribed and sworn before me this 1st day of June, 2018

Rebecca L. Wanstreet Notary Public

My commission expires 4-7-2020



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: _____

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Title: _____ Date: _____

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

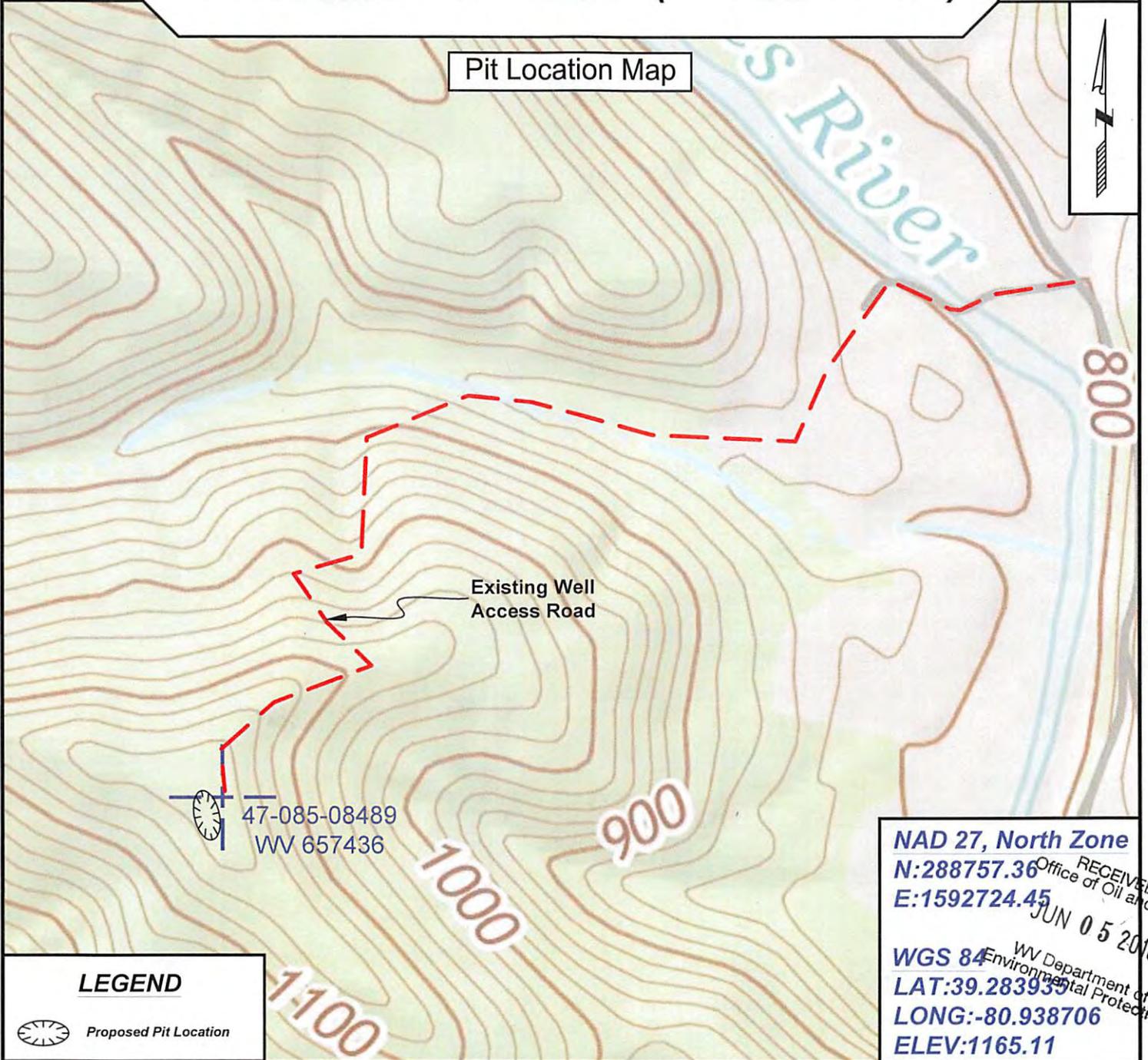
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Topo Quad: <u>Pennsboro 7.5'</u>	Scale: <u>1" = 400'</u>
County: <u>Ritchie</u>	Date: <u>May 11, 2018</u>
District: <u>Clay</u>	Project No: <u>68-38-00-08</u>

47-085-08489 WV 657436 (J. Wilson #1888)

Topo

Pit Location Map



47-085-08489
WV 657436

NAD 27, North Zone
N:288757.36
E:1592724.45
WGS 84
LAT:39.283935
LONG:-80.938706
ELEV:1165.11

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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

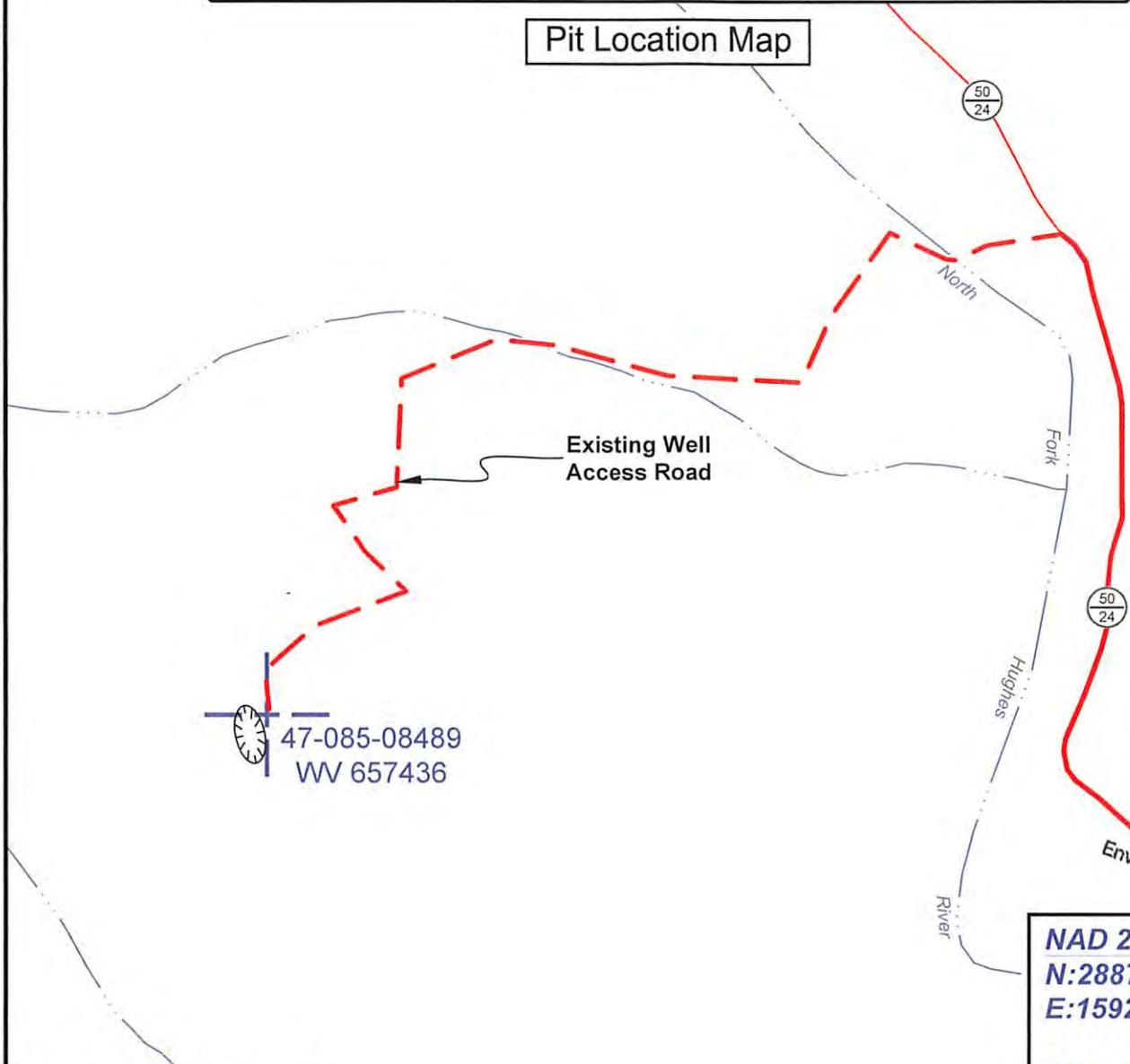
85-08489 P

Topo Quad: Pennsboro 7.5' Scale: 1" = 500'
 County: Ritchie Date: May 11, 2018
 District: Clay Project No: 68-38-00-08

Highway

47-085-08489 WV 657436 (J. Wilson #1888)

Pit Location Map



47-085-08489
WV 657436

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NAD 27, North Zone
N:288757.36
E:1592724.45

WGS 84
LAT:39.283935
LONG:-80.938706
ELEV:1165.11

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

06/22/2018

Topo Quad: Pennsboro 7.5'

Scale: 1" = 2000'

County: Ritchie

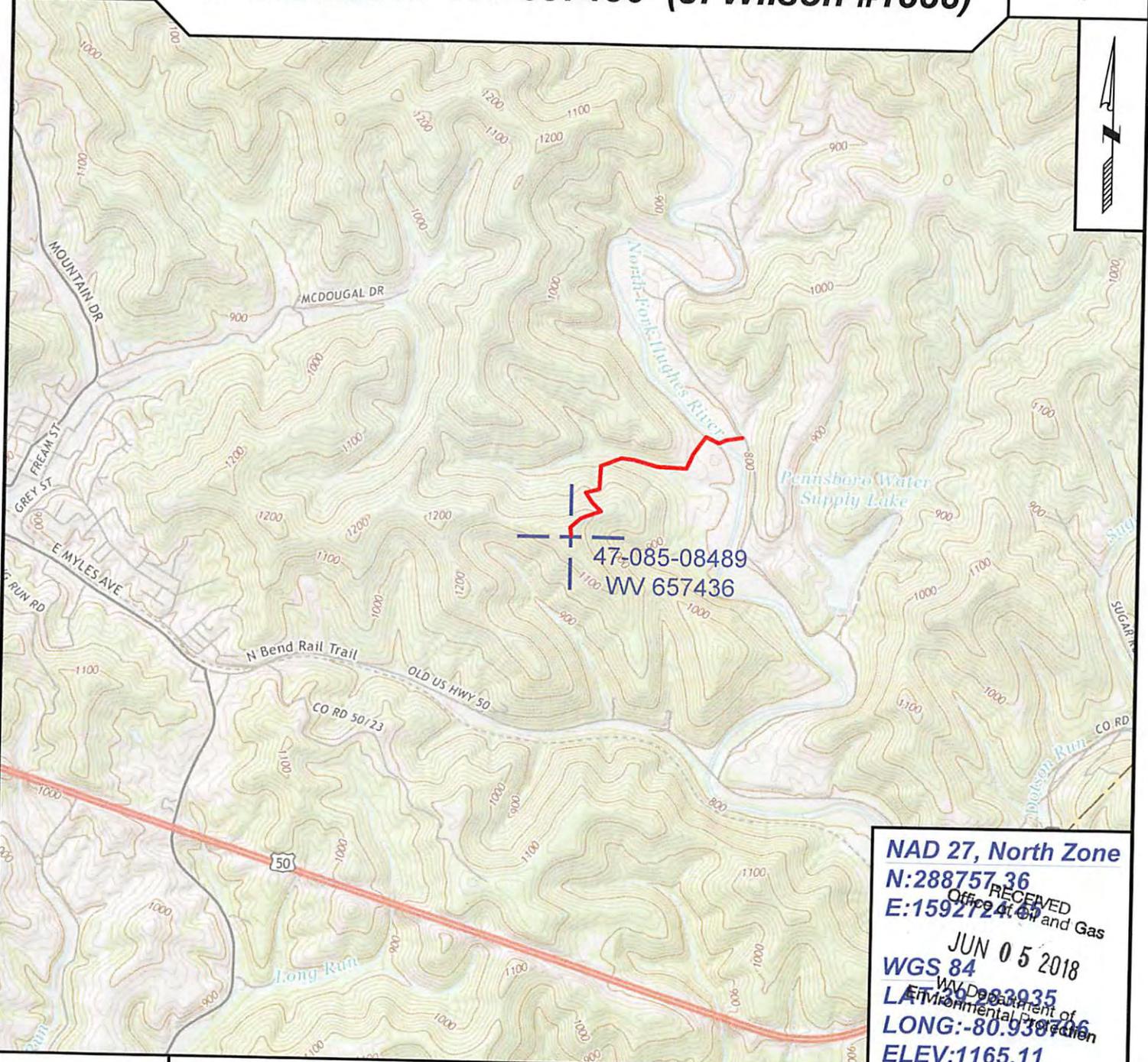
Date: May 11, 2018

District: Clay

Project No: 68-38-00-08

47-085-08489 WV 657436 (J. Wilson #1888)

Topo



47-085-08489
WV 657436

NAD 27, North Zone
N:288757.36
E:1592724.65
 RECEIVED
 Office of Oil and Gas
 JUN 05 2018
 WGS 84
 LAT: 38.28335
 LONG: -80.93806
 ELEV:1165.11



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



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

API: 47-085-08489 WELL NO.: WV 657436 (Wilson #1888)

FARM NAME: J. Wilson

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Ritchie DISTRICT: Clay

QUADRANGLE: Pennsboro 7.5'

SURFACE OWNER: Mark & Noreen Leskowicz

ROYALTY OWNER: Orma M. Wilson Johnson

UTM GPS NORTHING: 4348288

UTM GPS EASTING: 505286 GPS ELEVATION: 355 m (1165 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

5/10/18
Date

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WV Department of
Environmental Protection



Miss Utility of West Virginia (WV811)

(Exhibit A)

Directions to Gas Well No. WV 657436

API No. 47-085-08489

- Beginning at the intersection of US Interstate 79 Exit 119 (Clarksburg/Bridgeport) and US Route 50 in Harrison County, WV.
- Proceed West on US Route 50, for approximately 37.4 miles, to the intersection of WV County Route 10. *(Point No. 1)*
- Turn right onto WV County Route 10 and proceed Northeast, for approximately 0.3 mile, to WV County Route 50/43, on the left. *(Point No. 2)*
- Turn left onto WV County Route 50/43 and proceed Southwest, for approximately 0.4 mile, to the intersection with WV County Route 50/40. *(Point No. 3)*
- Continue straight onto WV County Route 50/40 and proceed Northwest, for approximately 0.7 mile, to WV County Route 50/24, on the right. *(Point No. 4)*
- Turn right onto WV County Route 50/24 and proceed North, for approximately 1.3 miles, to the Well Access Road, on the left. *(Point No. 5)*
- Turn left onto the Well Access Road and proceed Southwest, for approximately 0.72 mile, arriving at Gas Well WV 657436. *(Point No. 6)*

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JUN 05 2018
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BIRCH RIVER OFFICE

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

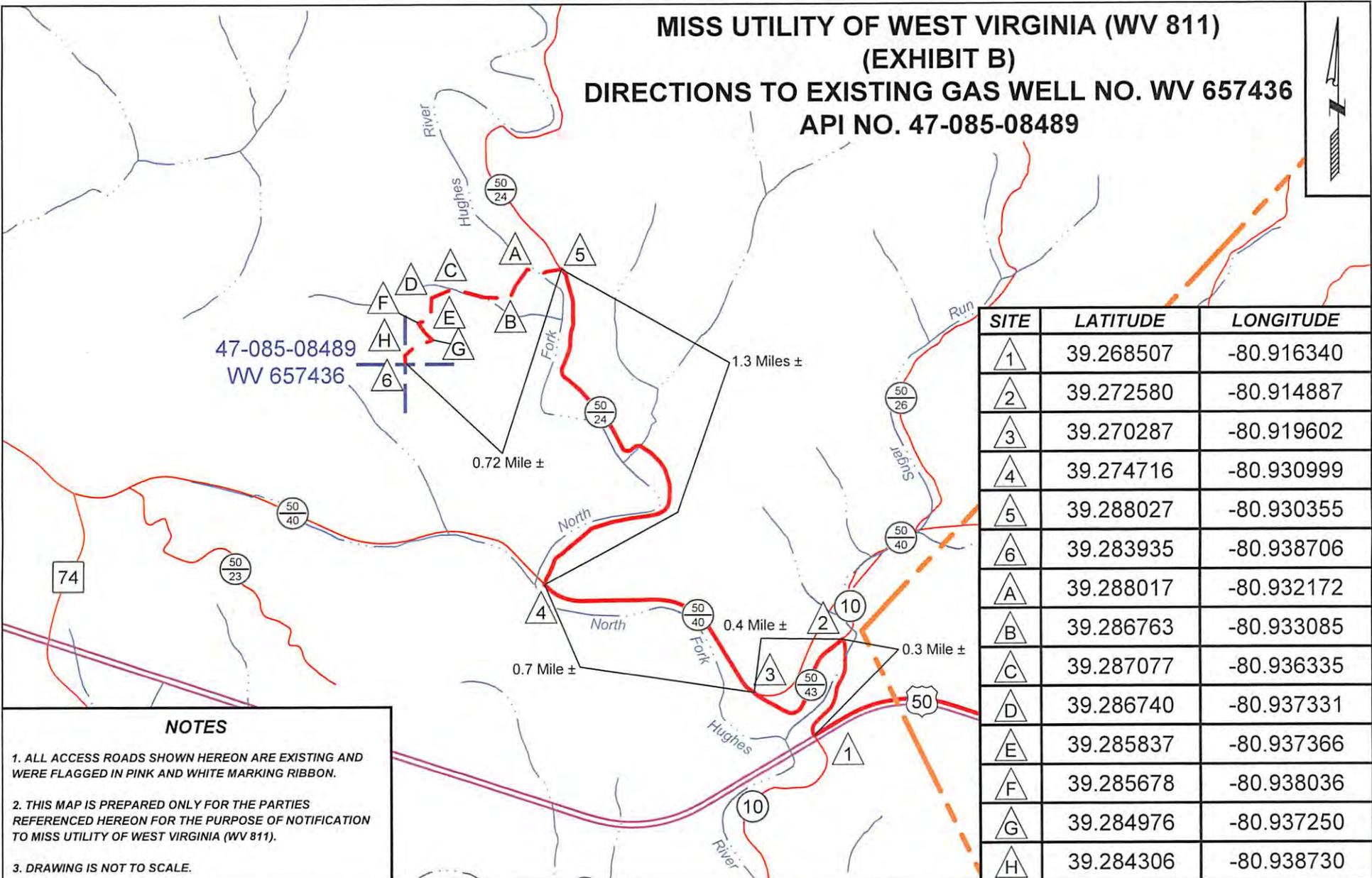
BRIDGEPORT OFFICE

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

**MISS UTILITY OF WEST VIRGINIA (WV 811)
(EXHIBIT B)
DIRECTIONS TO EXISTING GAS WELL NO. WV 657436
API NO. 47-085-08489**



SITE	LATITUDE	LONGITUDE
1	39.268507	-80.916340
2	39.272580	-80.914887
3	39.270287	-80.919602
4	39.274716	-80.930999
5	39.288027	-80.930355
6	39.283935	-80.938706
A	39.288017	-80.932172
B	39.286763	-80.933085
C	39.287077	-80.936335
D	39.286740	-80.937331
E	39.285837	-80.937366
F	39.285678	-80.938036
G	39.284976	-80.937250
H	39.284306	-80.938730

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.



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

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JUN 05 2018

County: Ritchie
 District: Clay
 Date: May 10, 2018
 Project No: 68-38-00-08
 File Name: WV-657436-WILSON

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

85-08489P



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. J. Wilson #1888 - WV 657436 - API No. 47-085-08489

POTENTIAL SAMPLE LOCATIONS

There appears to be no potential water sources within the required 1000 feet of the existing well WV 657436.

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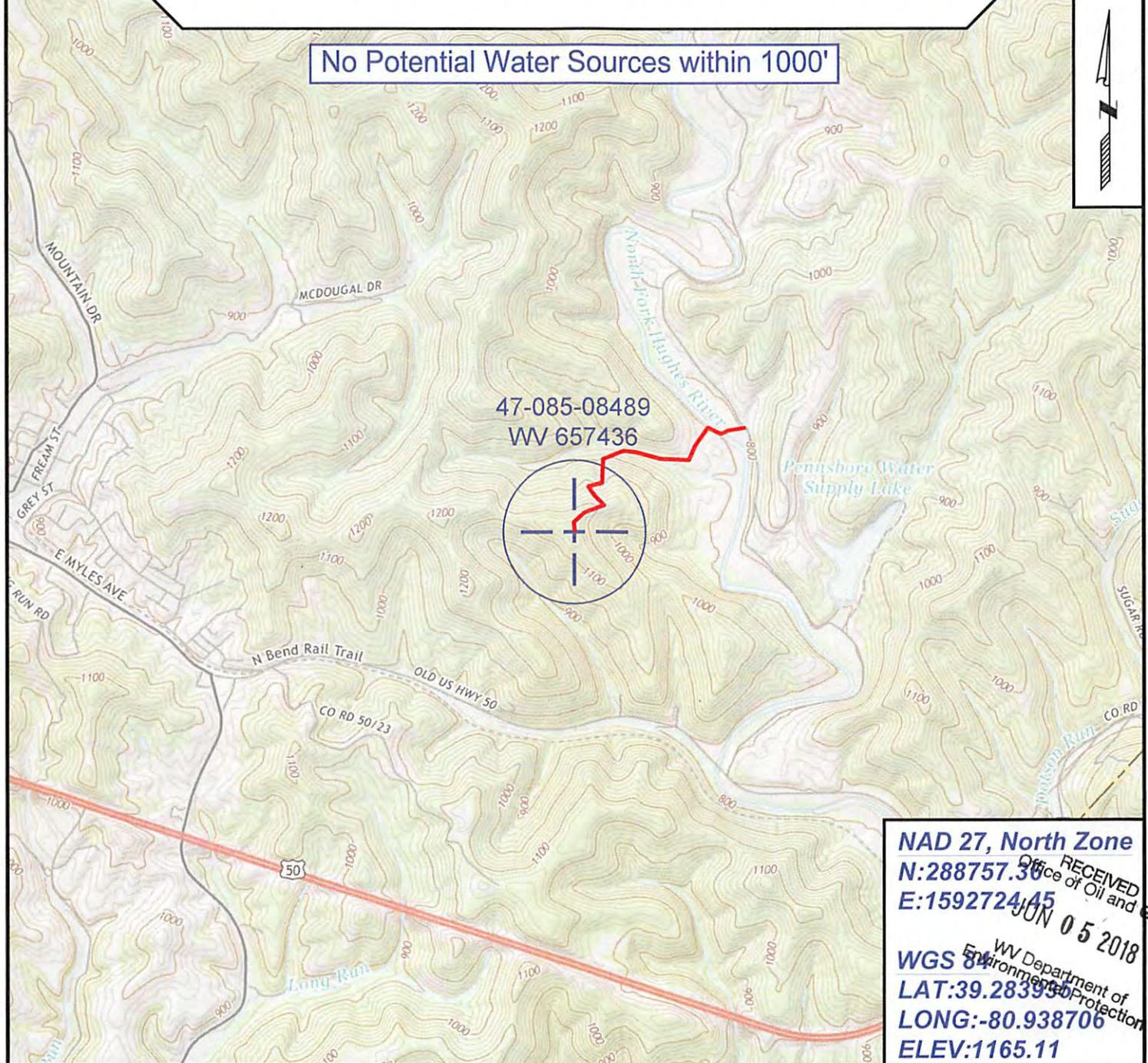
85-08489P

Topo Quad: Pennsboro 7.5' Scale: 1" = 2000'
 County: Ritchie Date: May 11, 2018
 District: Clay Project No: 68-38-00-08

Water

47-085-08489 WV 657436 (J. Wilson #1888)

No Potential Water Sources within 1000'



NAD 27, North Zone
N:288757.36
E:1592724.45
WGS 84
LAT:39.28395
LONG:-80.938706
ELEV:1165.11

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06/22/2018