



---

west virginia department of environmental protection

---

Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Wednesday, May 03, 2017  
WELL WORK PERMIT  
Vertical / Plugging

EQT PRODUCTION COMPANY (A)  
120 PROFESSIONAL PLACE  
BUILDING II  
BRIDGEPORT, WV 26330

Re: Permit approval for CHAS, NAT'L 7  
47-019-00846-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: CHAS, NAT'L 7  
Farm Name: DAVIS & FUDGE HEIRS  
U.S. WELL NUMBER: 47-019-00846-00-00  
Vertical / Plugging  
Date Issued: 5/3/2017

Promoting a healthy environment.

05/05/2017

## 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.

1900846P

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

OK #  
22593  
100<sup>00</sup>

Date: March 24, 2017  
Operator's Well \_\_\_\_\_  
Well No. 518492 (Charleston National Bank #7)  
API Well No.: 47 019 - 00846

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

**APPLICATION FOR A PERMIT TO PLUG AND ABANDON**

4) Well Type: Oil \_\_\_\_\_ Gas X Liquid Injection \_\_\_\_\_ Waste Disposal: \_\_\_\_\_  
If Gas, Production \_\_\_\_\_ X Or Underground storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow X

5) Elevation: 2293 ft. Watershed: Packs Branch  
Location: Plateau County: Fayette Quadrangle: Oak Hill 7.5'  
District: \_\_\_\_\_

6) Well Operator EQT Production Company  
120 Professional Place  
Address: Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place  
Bridgeport, WV 26330

8) Oil & Gas Terry Urban  
Name: P. O. Box 1207  
Address: Clendenin, WV 25045

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.**

SEE NEXT PAGE

RECEIVED  
Office of Oil and Gas  
APR 03 2017  
WV Department of  
Environmental Protection

OFFICE USE ONLY

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

Work order approved by inspector [Signature] Date 4-3-17

05/05/2017

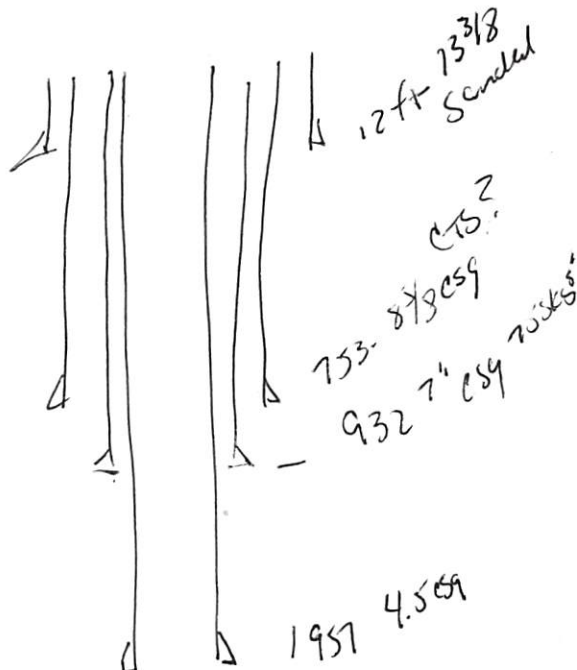
PLUGGING PROGNOS

Charleston National Bank #7  
518492  
API# 47-019-00846  
District, Plateau  
Fayette County, WV

BY: R Green  
DATE: 11/17/16

**CURRENT STATUS:**  
TD @ 1990'  
Elevation @ 2291'

13 3/8" conductor @ 12'  
8 5/8" casing @ 753' (Cemented with 319sks) CTS  
7" casing @ 932' (Cemented with 75sks) UP INSIDE 8 5/8"  
4 1/2" @ 1957' (Cemented with 140sks) UP INSIDE 7" ★  
Perforated @ 1814' to 1824'



**Fresh Water @ 163'**  
Saltwater @ None Reported  
**Oil Show @ None reported**  
Gas shows @ None Reported  
Coal @ 198, & 439'

1. Notify inspector, Terry Urban, @ 304-549-5915, 24 hrs. prior to commencing operations.
2. \*Note, if any casings without cement in the annulus cannot be retrieved, make sure to consult with Inspector, and to perforate all saltwater, freshwater, coal, oil & gas shows, and elevation in the well.
3. TIH check TD @ 1875', pump 20 bbl. of 6% gelled water, followed by a 175' C1A cement plug, 1875' to 1700', WOC 8 hrs., Tag TOC add additional C1A cement if necessary.
4. Free point 4 1/2" casing, cut casing @ free point. TOO H casing. 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. Gel hole to next plug.
5. TOO H to 1050', set 400' C1A cement plug 1050' to 650'. (7" casing seat, 8 5/8" casing seat). Gel hole to next plug.
6. TOO H to 450' set 100' C1A cement plug 450' to 350'. (Coal @ 439').
7. TOO H to 225', Set 225' C1A cement plug 225' to surface. (Freshwater @ 163' coal @ 198').
8. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
9. Reclaim location and road to WV-DEP specifications.

★ TOC OF 4 1/2" MAY BE ≈ 600', WHICH MEANS  
4 1/2" CASING CUT MAY BE ≈ 550',  
IF SO SET C1A CEMENT PLUG FROM  
CUT TO SURFACE,

Will check TD  
4-3-17  
May change as per

JMM



1900846A

RECEIVED

WR-35

WV Division of Environmental Protection

20-Nov-96  
API # 47- 19-00846

MAY 05 1997

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Permitting

Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: DAVIS & FUDGE HEIRS Operator Well No.: CHAS, NAT'L #7

LOCATION: Elevation: 2,291.00 Quadrangle: OAK HILL

District: PLATEAU County: FAYETTE  
Latitude: 10000 Feet South of 37 Deg. 55Min. 0 Sec.  
Longitude 7920 Feet West of 81 Deg. 10 Min. 0 Sec.

Company: EASTERN STATES OIL & GAS,  
2900 EISENHOWER AVE., STE. 300  
ALEXANDRIA, VA 22314-0000

Agent: ROBERT G. ALLEY

Inspector: RODNEY DILLON

Permit Issued: 11/27/96

Well work Commenced: 12/28/96

Well work Completed: 1/6/97

Verbal Plugging

Permission granted on:

Rotary  Cable  Rig

Total Depth (feet) 1990'

Fresh water depths (ft) 163'

Salt water depths (ft)

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 198', 439'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	12'	12'	none
8 5/8"	753'	753'	319 sks
7"	932'	932'	75 sks
4 1/2"	1957'	1957'	140 sks

OPEN FLOW DATA

Producing formation Ravencliff Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow 6 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 6 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 2 1/2 Hours  
Static rock Pressure 64 psig (surface pressure) after 1021 3/4 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

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: David L. Matz  
EASTERN STATES OIL & GAS, INC.

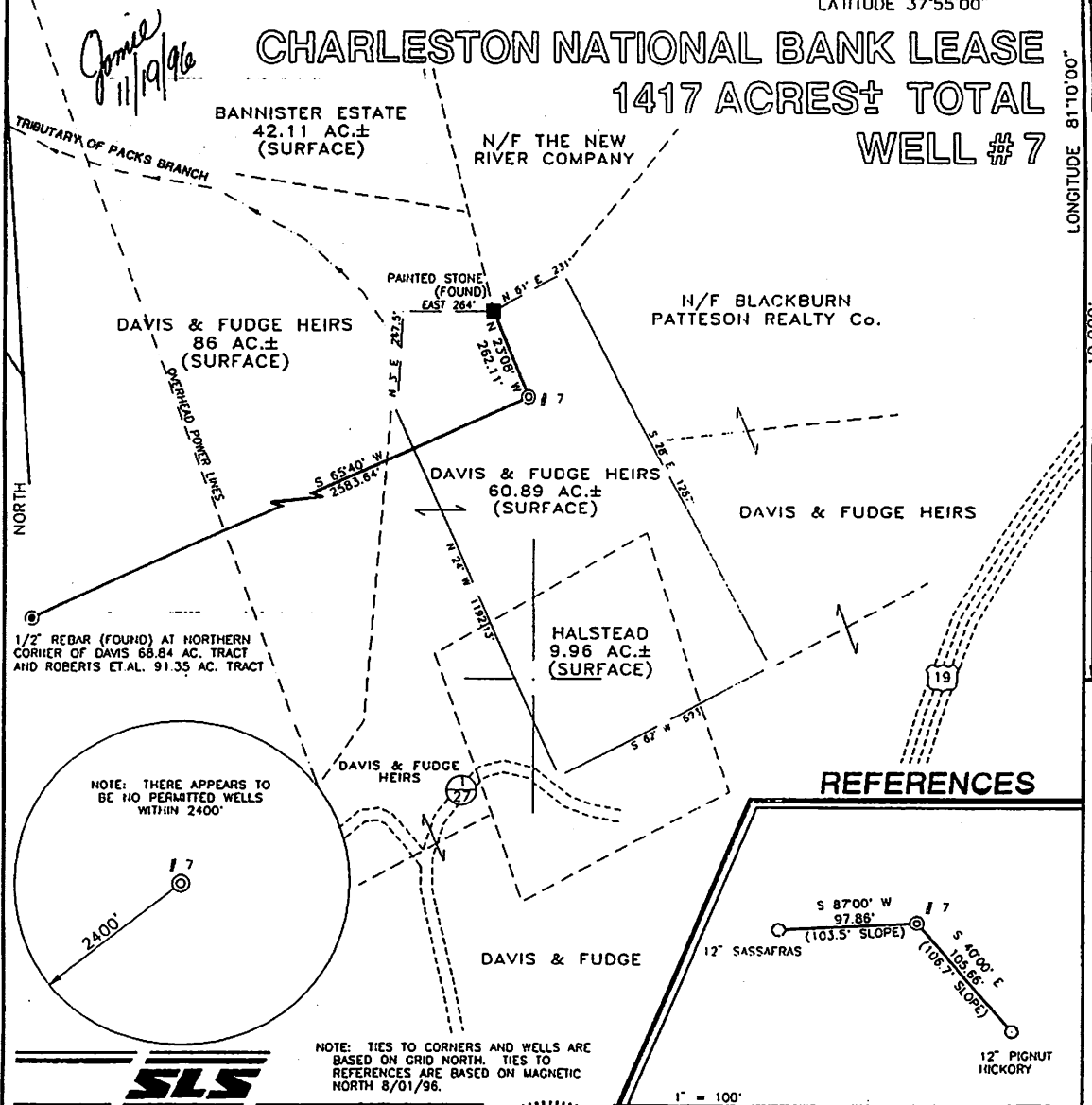
By: David L. Matz

Date: 5/2/97

Oak Hill 8  
05/05/2017







**NOTE:** THERE APPEARS TO BE NO PERMITTED WELLS WITHIN 2400'

**NOTE:** TIES TO CORNERS AND WELLS ARE BASED ON GRID NORTH. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 8/01/96.

**REFERENCES**

- S 87°00' W 97.88' (103.5' SLOPE)
- S 102°45' E 108.7' (108.7' SLOPE)
- 12" SASSAFRAS
- 12" PIGNUT HICKORY

1" = 100'

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 ENERGY.

P.S. Gregory A. Smith  
677

**GREGORY A. SMITH**  
LICENSED  
No. 677  
STATE OF  
WEST VIRGINIA  
PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE OCTOBER 25, 19 96  
 OPERATORS WELL NO. CHARLESTON NATIONAL BANK # 7  
 API WELL NO. 47-019-00846  
 STATE            COUNTY            PERMIT           

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3506P7 (58-24)  
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 1749' SCALE 1" = 400'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 2291' WATERSHED PACKS BRANCH  
 DISTRICT PLATEAU, Fayette Co. COUNTY FAYETTE QUADRANGLE OAK HILL 7.5'

SURFACE OWNER DAVIS & FUDGE HEIRS ACREAGE 60.89  
 ROYALTY OWNER DAVIS & FUDGE HEIRS LEASE ACREAGE 20 OF 1417

PROPOSED WORK: LEASE NO.             
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE-IN WELL (SPECIFY)            TARGET FORMATION RAVENCLIFF  
 ESTIMATED DEPTH 2500'

WELL OPERATOR EASTERN STATES OIL & GAS, Inc. DESIGNATED AGENT ROBERT ALLEY  
 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

05/05/2017



19 00846P

WW-4-A  
Revised 6/07

1) Date: March 24, 2017  
2) Operator's Well Number  
518492 (Charleston National Bank #7)  
3) API Well No.: 47 019 - 00846  
State County Permit

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

4) Surface Owner(s) to be served:  
(a) Name Meadow Creek Coal Corporation  
Address 263 White Oak Drive  
Beckley, WV 25802  
(b) Name Dennis Halstead  
Address 710 Laurel Creek  
Fayetteville, WV 25840  
(c) Name Lee Ellis  
Address 1239 River Road  
Rainelle, WV 25962  
6) Inspector Terry Urban  
Address P. O. Box 1207  
Clendenin, WV 25045  
Telephone (304) 549-5915

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Meadow Creek Coal Corporation  
263 White Oak Drive  
Address Beckley, WV 25802  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

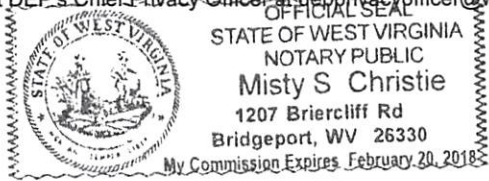
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
  - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: EQT Production Company  
By: Victoria J. Roark  
Its: Permitting Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 28th day of March, 2017  
Misty S. Christie Notary Public  
My Commission Expires: 2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



05/05/2017

ing Department  
ion  
W 26330

1900846P

- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
**Meadow Creek Coal Corporation**  
263 White Oak Drive  
Beckley, WV 25802

Plugging Permit #518492



9590 9402 2551 6306 5753 42

2. Article Number (Transfer from service label)  
7016 2140 0000 5639 0545

Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®

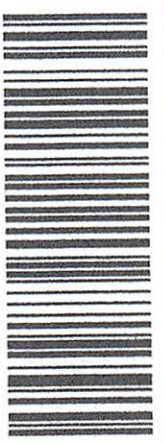
**OFFICIAL USE**

Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$  
 Return Receipt (electronic) \$  
 Certified Mail Restricted Delivery \$  
 Adult Signature Required \$  
 Adult Signature Restricted Delivery \$

Postage \$  
Total \$  
Meadow Creek Coal Corporation  
263 White Oak Drive  
Beckley, WV 25802  
City: Beckley, WV 25802  
State: WV  
Zip: 26330  
Plugging Permit #518492

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 2140 0000 5639 0545  
7016 2140 0000 5639 0545



CERTIFIED MAIL

neopost®  
03/29/2017  
US POSTAGE  
\$0.71  
ZIP 26330  
041L 022889  
05/05/2017



ing Department  
ion  
W 26330

1900846P

so that we can return the card to you.  
■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
Dennis Halstead  
710 Laurel Creek  
Fayetteville, WV 25840  
  
Plugging Permit #518492



9590 9402 2551 6306 5753 35

2. Article Number (Transfer from service label)  
7016 2140 0000 5639 0552

Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

City: S Plugging Permit #518492

Street: Fayetteville, WV 25840

Sent To: 710 Laurel Creek  
Dennis Halstead

Total F: \$

Postage: \$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Adult Signature Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Return Receipt (hardcopy)	\$

Certified Mail Fee \$

Postmark Here

**OFFICIAL USE**

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

Domestic Mail Only

**U.S. Postal Service™ CERTIFIED MAIL® RECEIPT**

7016 2140 0000 5639 0552  
7016 2140 0000 5639 0552



neopost®  
03/29/2017  
US POSTAGE

05/05/2017  
Z/W 26330  
041 0122881

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lee Ellis  
1239 River Road  
Rainelle, WV 25962

Plugging Permit #518492



9590 9402 2551 6306 5753 28

2. Article Number (Transfer from service label)

7016 2140 0000 5639 0569

PS Form 3811, July 2015 PSN 7530-02-000-9053

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

1900846P  
Action  
280  
WV 26330  
Shipping Department

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

City, State  
Street or  
Rainelle, WV 25962  
Sent To  
1239 River Road  
Lee Ellis  
Total Postage

Plugging Permit #518492

Postage  
 Adult Signature Restricted Delivery \$  
 Adult Signature Required \$  
 Certified Mail Restricted Delivery \$  
 Return Receipt (electronic) \$  
 Return Receipt (hardcopy) \$  
 Extra Services & Fees (check box, add fee as appropriate) \$  
 Certified Mail Fee \$

OFFICIAL USE  
For delivery information, visit our website at www.usps.com™

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

7016 2140 0000 5639 0569  
7016 2140 0000 5639 0569



neopost®  
03/29/2017  
US POSTAGE  
\$07.7  
Z126330  
041LT02288  
05/05/2017



19 00 846 P

WW-9  
Revised 5/16

Page \_\_\_\_\_ of \_\_\_\_\_  
2) Operator's Well Number  
**518492 (Charleston National Bank #7)**  
3) API Well No.: 47 019 - 00846

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

Operator Name: EQT PRODUCTION COMPANY OP CODE: 306686

Watershed (HUC 10): Packs Branch Quadrangle: Oak Hill 7.5'  
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_ No X

Will a pit be used? Yes X No \_\_\_  
If so, please describe anticipated pit waste: \_\_\_\_\_  
Will a synthetic liner be used in the pit? Yes X No \_\_\_ Is so, what ml.? 40 ml 20 ml.

Proposed Disposal Method for Treated Pit Wastes:  
NO LAND APP Land Application (if selected provide a completed form WW-9-GPP) \_\_\_\_\_ )  
Underground Injection (UIC Permit Number \_\_\_\_\_ )  
X Reuse (at API Number -- Various \_\_\_\_\_ )  
X Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)  
Other: (Explain \_\_\_\_\_ )

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, remove offsite, etc. \_\_\_\_\_  
If left in pit and plan to solidify what medium will be used? (cement, Lime, sawdust) \_\_\_\_\_  
Landfill or offsite name/permit number? \_\_\_\_\_

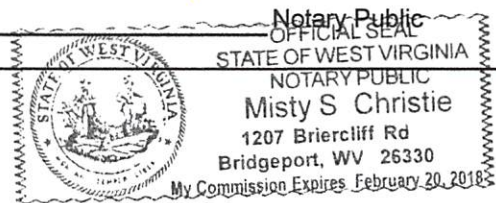
Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature \_\_\_\_\_  
Company Official (Typed Name) Victoria J. Roark  
Company Official Title Permitting Supervisor - WV  
Subscribed and sworn before me this 28th day of March, 2017

My Commission Expires 2/20/18

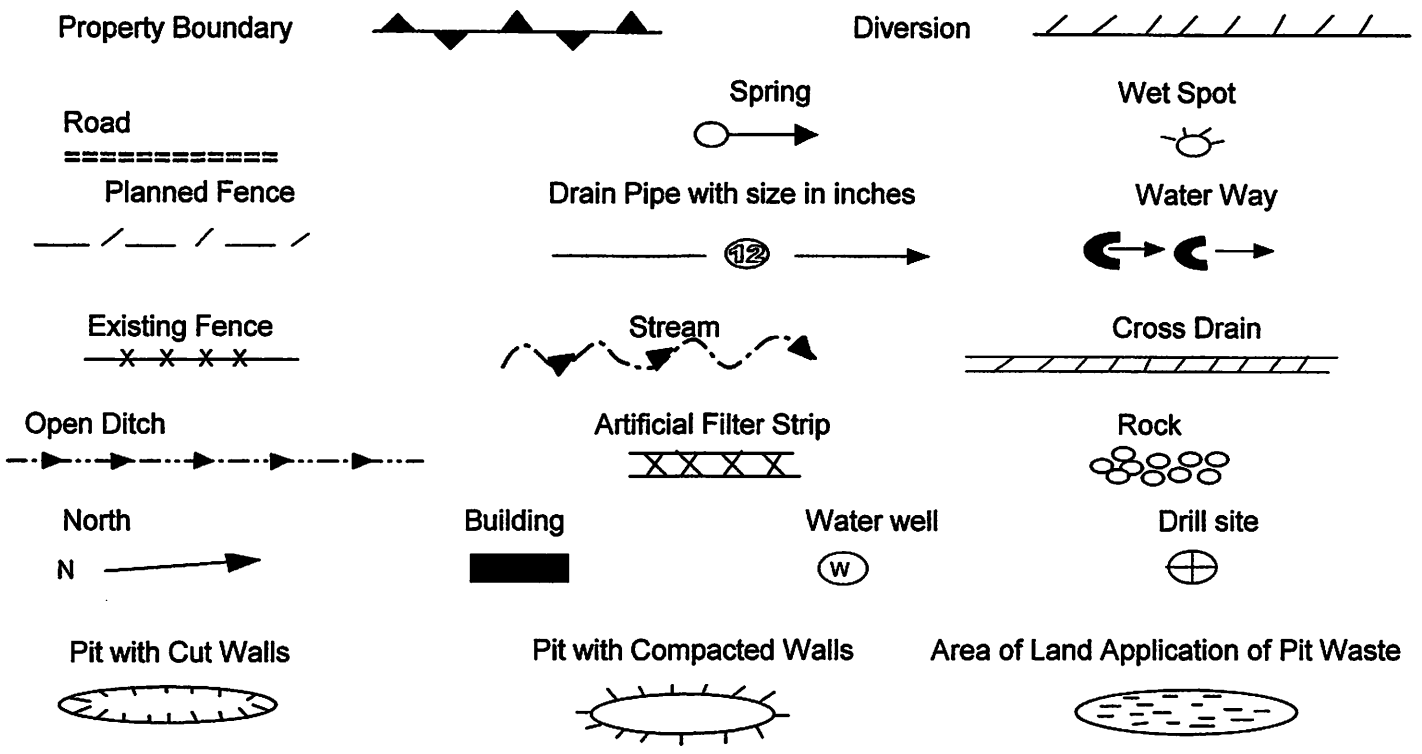


05/05/2017



**OPERATOR'S WELL NO.:**  
8492 (Charleston National Bank #7)

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH         

Lime 3 Tons/acre or to correct to pH 6.5

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

Mulch 2 Tons/acre or hydroseed.

**SEED MIXTURES**

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

**ATTACH:**

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

Plan approved by: *[Signature]*

Comments:         

Title: Field by [Signature] Date: 4-3-17

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



4-3-17

Topo Quad: Oak Hill 7.5' Scale: 1" = 500'

County: Fayette Date: March 2, 2017

District: Plateau Project No: 57-05-00-07

Highway **47-019-00846 WV 518492 (Charleston National Bank #7)**

**Pit Location Map**



To WV County Route 27  
1.0 Mile ±

Existing Well  
Access Road

14  
4-3-17

47-019-00846  
WV 518492

**LEGEND**

- PIT-CUT WALLS
- PIT-COMPACTED WALLS
- AREA OF LAND APPLICATION OF PIT WASTE

**No LAND APP**

*J. Kim*

**NAD 27, South Zone**  
N:323824.96  
E:1944011.88

**WGS 84**  
LAT:37.889275  
LONG:-81.193833  
ELEV:2293.49



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

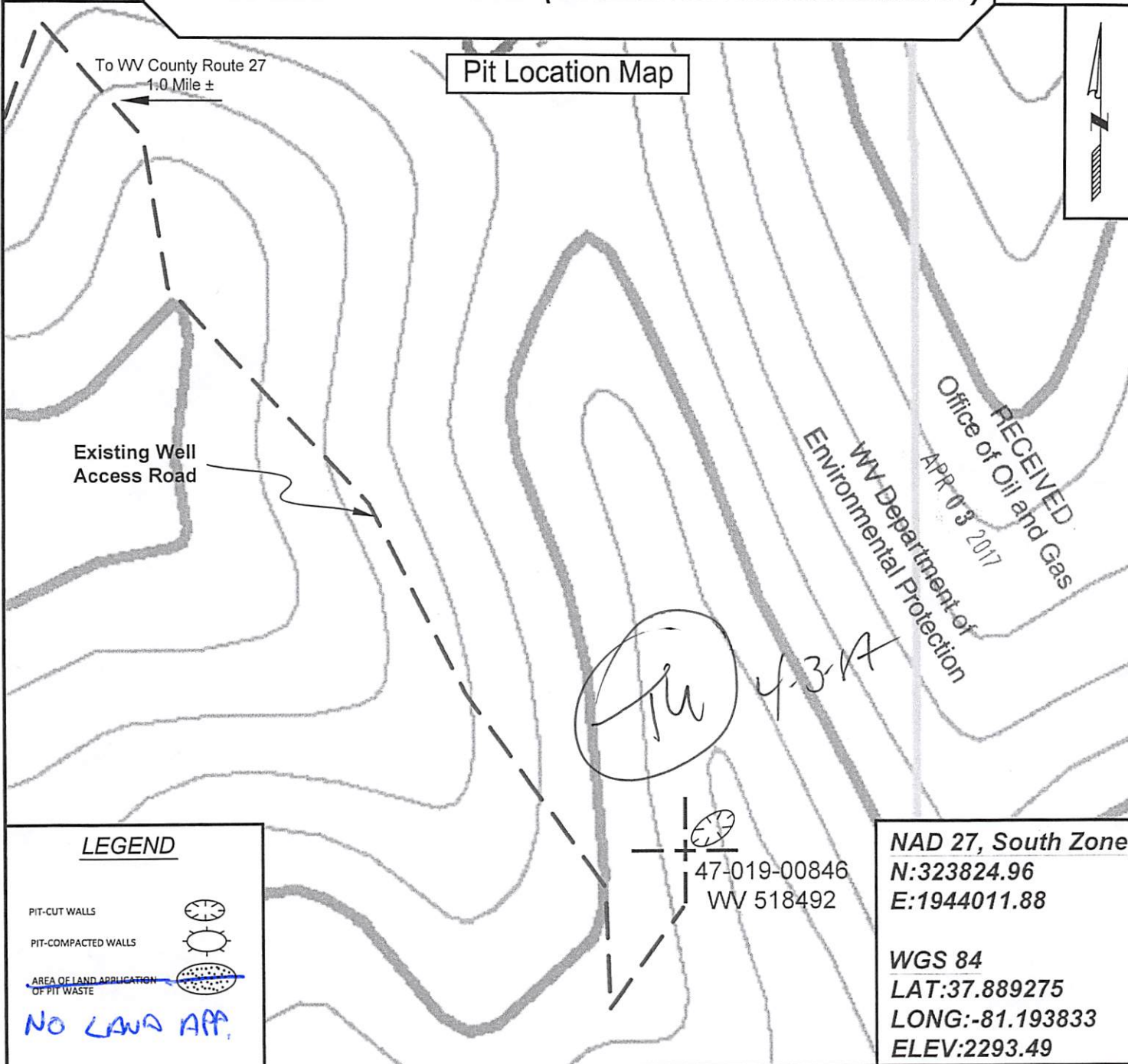
PREPARED FOR:  
**EQT Production Company**  
P.O. Box 280  
Bridgeport, WV 26330

05/05/2017

Topo Quad: Oak Hill 7.5' Scale: 1" = 200'  
 County: Fayette Date: March 2, 2017  
 District: Plateau Project No: 57-05-00-07

**47-019-00846 WV 518492 (Charleston National Bank #7)**

Topo



**LEGEND**

- PIT-CUT WALLS
- PIT-COMPACTED WALLS
- AREA OF LAND APPLICATION OF PIT WASTE

*NO LAND APP.*

**NAD 27, South Zone**  
**N:323824.96**  
**E:1944011.88**

**WGS 84**  
**LAT:37.889275**  
**LONG:-81.193833**  
**ELEV:2293.49**



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

PREPARED FOR:  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330

05/05/2017



1900846P

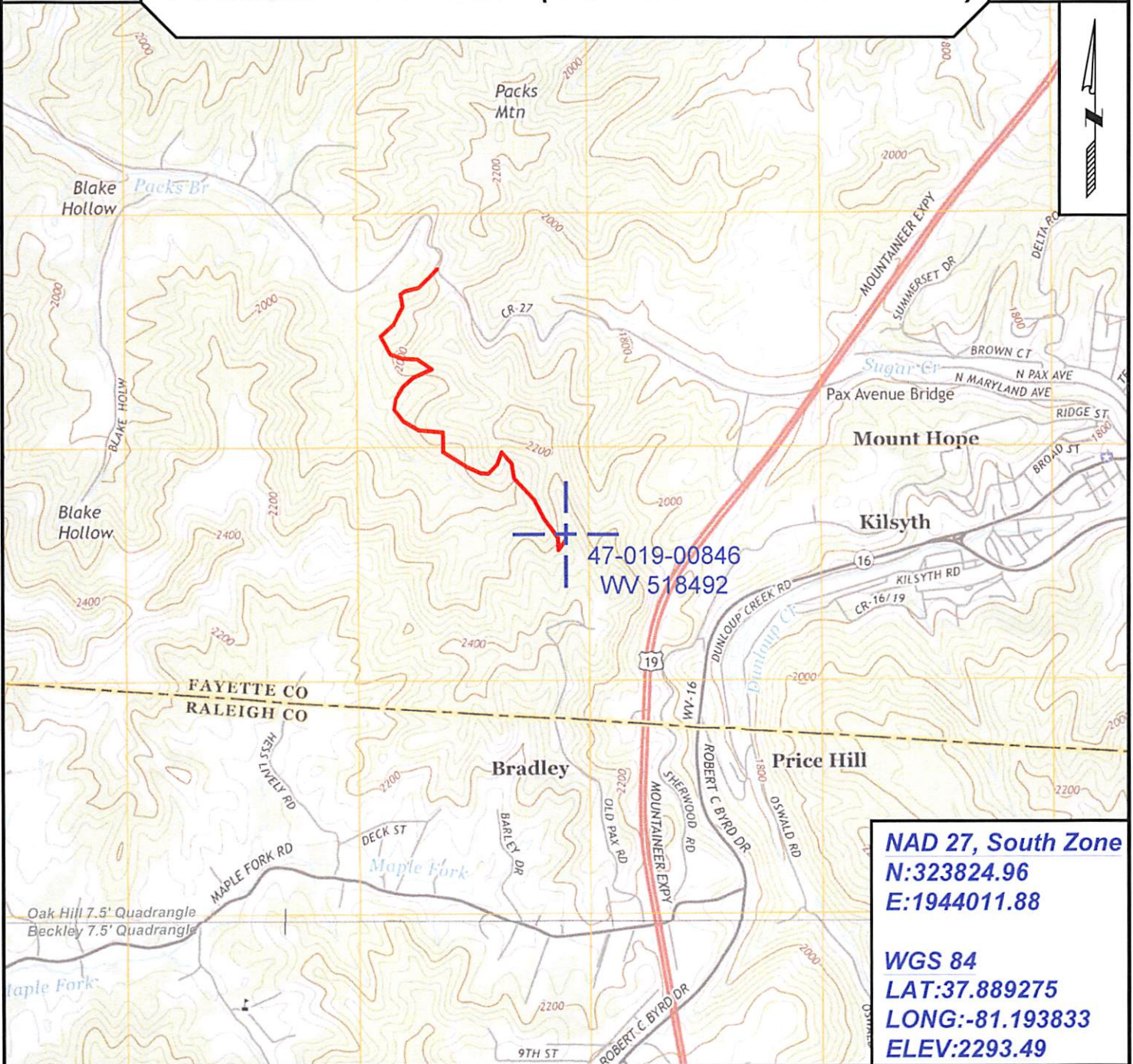
Topo Quad: Oak Hill 7.5' Scale: 1" = 2000'

County: Fayette Date: March 2, 2017

District: Plateau Project No: 57-05-00-07

# 47-019-00846 WV 518492 (Charleston National Bank #7)

Topo



47-019-00846  
WV 518492

**NAD 27, South Zone**  
**N:323824.96**  
**E:1944011.88**

**WGS 84**  
**LAT:37.889275**  
**LONG:-81.193833**  
**ELEV:2293.49**



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**  
 RECEIVED  
 Office of Oil and Gas  
 P.O. Box 280  
 Bridgeport, WV 26330  
 MAY 5 2017

WV Department of Environmental Protection  
 05/05/2017



WW-7  
8-30-06



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

API: 47-019-00846 WELL NO.: WV 518492 (Charleston National Bank #7)

FARM NAME: Charleston National Bank

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Fayette DISTRICT: Plateau

QUADRANGLE: Oak Hill 7.5'

SURFACE OWNER: Meadow Creek Coal Corporation

ROYALTY OWNER: Meadow Creek Coal Corporation

UTM GPS NORTHING: 4193548

UTM GPS EASTING: 482956 GPS ELEVATION: 699 m (2293 ft)

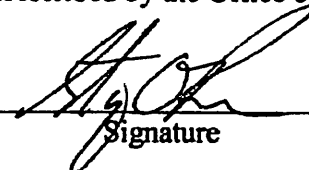
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

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.

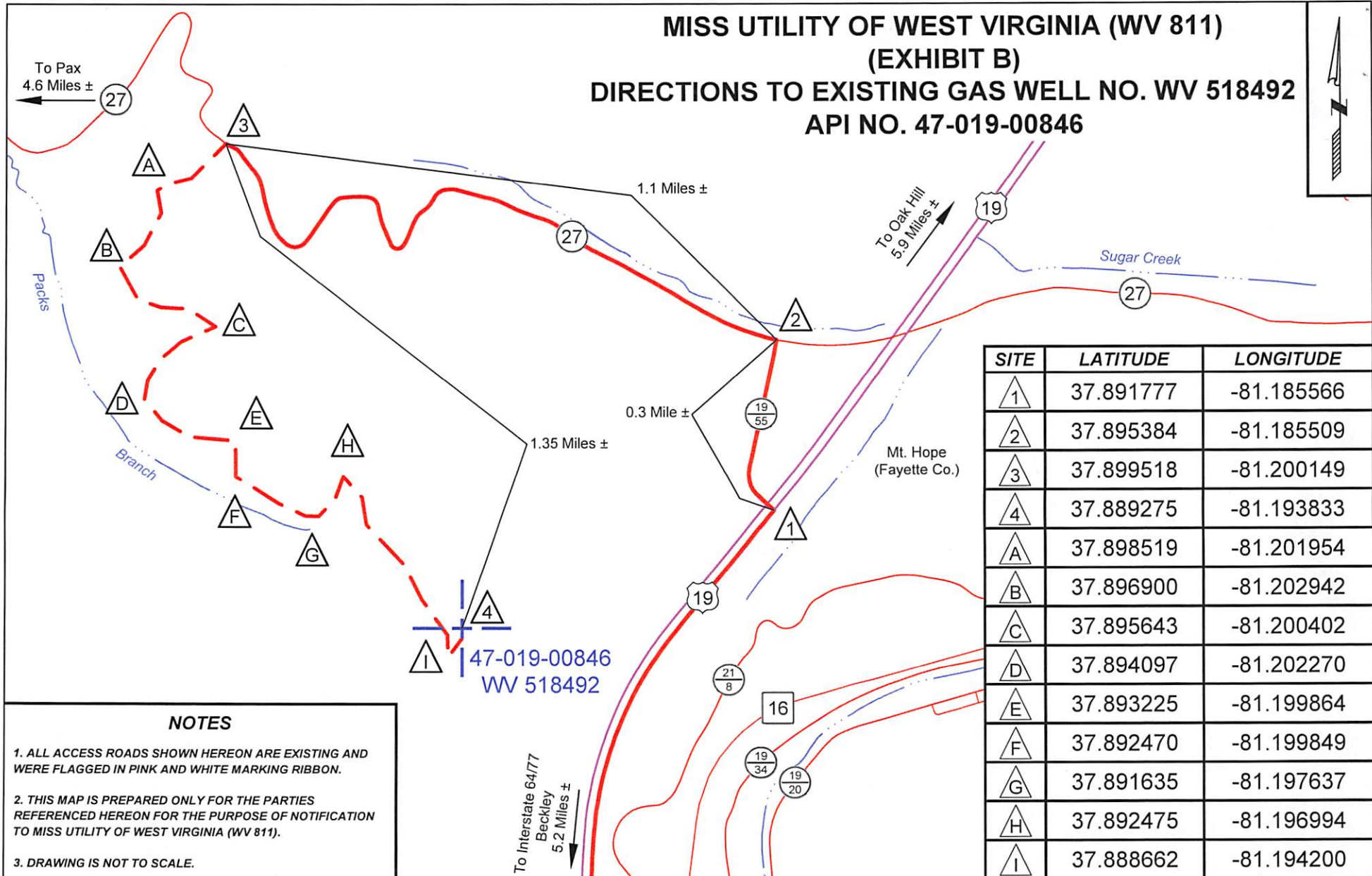
  
Signature

PS# 2180  
Title

3/9/17  
Date

1900 846A

# MISS UTILITY OF WEST VIRGINIA (WV 811) (EXHIBIT B) DIRECTIONS TO EXISTING GAS WELL NO. WV 518492 API NO. 47-019-00846



SITE	LATITUDE	LONGITUDE
1	37.891777	-81.185566
2	37.895384	-81.185509
3	37.899518	-81.200149
4	37.889275	-81.193833
A	37.898519	-81.201954
B	37.896900	-81.202942
C	37.895643	-81.200402
D	37.894097	-81.202270
E	37.893225	-81.199864
F	37.892470	-81.199849
G	37.891635	-81.197637
H	37.892475	-81.196994
I	37.888662	-81.194200

### 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.

47-019-00846  
WV 518492



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:	Fayette
District:	Plateau
Date:	March 2, 2017
Project No:	57-05-00-07
File Name:	WV 518492 CHARLESTON NATIONAL BANK

PREPARED FOR:  
**EQT Production Company**  
P.O. Box 280  
Bridgeport, WV 26330



### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Charleston National Bank #7 WV 518492 47-019-00846

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 951 +/- Owner: Dennis & Gloria Halstead  
Address: 710 Laurel Creek Road, Fayetteville, WV 25840 Phone No. \_\_\_\_\_  
Comments: Pond

**BIRCH RIVER OFFICE**  
237 Birch River Road  
Birch River, WV 26610  
phone: 304-649-8606  
fax: 304-649-8608

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

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

RECEIVED  
Office of Oil and Gas  
MARTINSBURG OFFICE  
25 Lights Addition Drive  
Martinsburg, WV 25404  
phone: 304-901-2162  
fax: 304-901-2182



Topo Quad: Oak Hill 7.5' Scale: 1" = 2000'

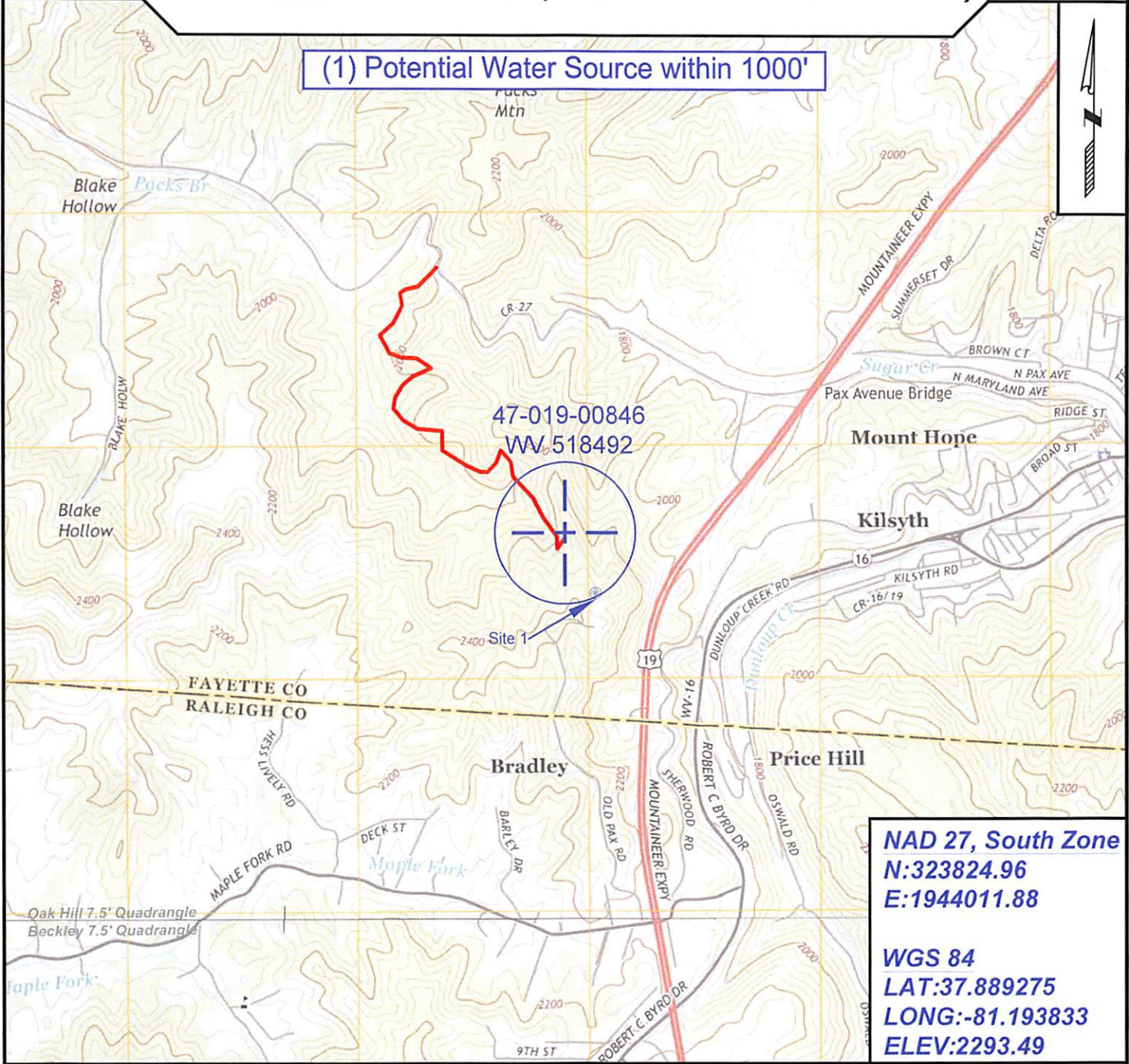
County: Fayette Date: March 2, 2017

District: Plateau Project No: 57-05-00-07

Water

47-019-00846 WV 518492 (Charleston National Bank #7)

(1) Potential Water Source within 1000'



NAD 27, South Zone  
N:323824.96  
E:1944011.88

WGS 84  
LAT:37.889275  
LONG:-81.193833  
ELEV:2293.49



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

PREPARED FOR:  
**EQT Production Company**  
P.O. Box 280  
Bridgeport, WV 26330