



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

Monday, May 07, 2018
WELL WORK PERMIT
Vertical / Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

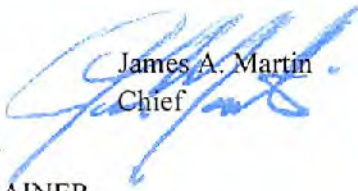
PITTSBURGH, PA 15222

Re: Permit approval for 607519
47-021-03175-00-00

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: Y
Farm Name: GAINER
U.S. WELL NUMBER: 47-021-03175-00-00
Vertical Plugging
Date Issued: 5/7/2018

I

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.

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

Date: April 5, 2018
Operator's Well
Well No. 607519 M. E. Gainer #1-7519
API Well No.: # 021 - 03175

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: 866 Watershed: Spring Run
Location: DeKalb County: Gilmer Quadrangle: Burnt House
District: _____
- 6) Well Operator EQT Production Company
120 Professional Place
Address: Bridgeport, WV 26330
- 7) Designated Agent: Jason Ranson
Address: 120 Professional Place
Bridgeport, WV 26330
- 8) Oil & Gas Danny Mullins
Name: 220 Jack Acres Rd
Address: Buckhannon WV 26201
- 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.

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

Danny Mullins

Date 4-30-18

PLUGGING PROGNOSIS

Gainer, M.E. #1 (607519) **No well records**

District, Dekalb

Gilmer, WV

API # 47-021-03175

BY: Craig Duckworth

DATE: 4/16/18

CURRENT STATUS:

47 02 1 03 17 5P

TD @ unknown (no well records)

Elevation @ 866'

Freshwater, @ No Records

Saltwater @ No record

Gas shows @ No records

Oil shows @ No Records

Coal @ No Records

Big Injun ≈ 1825' from WV G&S
900M

1. Notify state inspector, **Danny Mullins, 304-932-6844, 24 hrs.** Prior to commencing operations.
2. TIH wireline, check fluid level, TD and find bottom of 3" casing also identify 3 1/2" Packer depth.
3. Notify EQT rep and WV DEP Inspector of information for perforating and cement schedule.
4. Attempt to shoot off 3 1/2" tubing above identified packer and attempt to pull 3 1/2" tubing.
5. If 3 1/2" tubing will not pull coming up hole 2 joints and attempt to shoot off 3 1/2" tubing and attempt to pull 3 1/2" tubing out of hole.
6. If 3 1/2" tubing will not pull, TIH w/ 1 1/2" tubing to top of packer and set 100' CIA cement plug from top of packer depth to 100' above 3 1/2" packer and let cement cure. TOO H with tubing completely.
7. If 3 1/2" tubing can be pulled, TIH w/ tubing to 3 1/2" packer and set 100' CIA cement plug from top of packer to 100' above 3 1/2" Packer and TOO H with tubing completely. Let cement cure.
8. TIH w/ wireline and collar locator and find the bottom of it looks like 6 5/8" casing or 8 1/4" casing and identify it. TOO H w/ wireline.
9. TIH w/ tubing to last cement top and cement from last cement top to 50' inside the identified casing seat depth. TOO H w/ tubing. Let cement cure.
10. Free point casing, cut casing at free point, TOO H casing.
11. Set 100' CIA cement plug 50' in/out of casing cut, perforate elevation, coat, oil and gas shows below cut if any are identified. Do not omit any plugs.

RECEIVED
Office of Oil and Gas

APR 23 2018

WV Department of
Environmental Protection

12. Repeat process of identifying and casing seats until the well is plugged to EQT Rep and WV DEP Inspector's directions.
13. Erect monument with API#, date plugged, company name, and company 6 digit ID #.
14. Reclaim location, road to WV-DEP specifications.

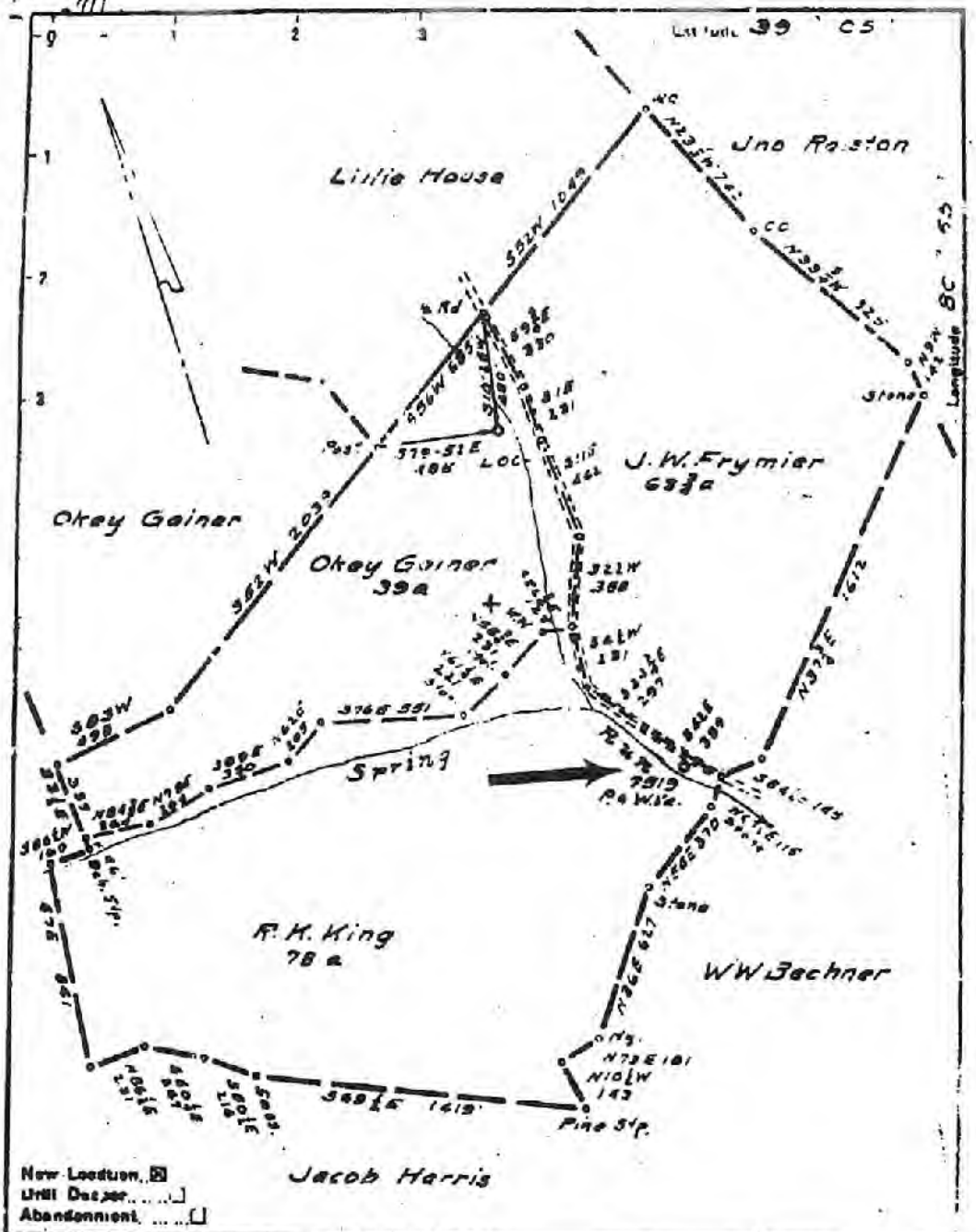
4702 103175P

RECEIVED
Office of Oil and Gas

APR 23 2018

WV Department of
Environmental Protection

47 02 103 17 5P



Company	<u>Spring Run Gas Co.</u>
Address	<u>Clarksburg W. Va.</u>
Farm	<u>M.E. Gainer</u>
Tract	<u>Acres 200</u> Lease No. <u>20849</u>
Well (Form) No.	<u>1</u> Serial No. _____
Elevation (Spirit Level)	<u>303</u>
Quadrangle	<u>Halbrook SW 32</u>
County	<u>Gilmer</u> District <u>DeKalb</u>
Engineer	<u>James P. Griffin</u>
Engineer's Registration No.	<u>1084</u>
File No.	<u>164/153</u> Drawing No. _____
Date	<u>6-18-07</u> Scale <u>1"=500'</u>

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. Gil-809
Gilmer - RECEIVED # 7519
Office of Oil and Gas
FOR REFERENCE ONLY
NO PLAT AVAILABLE
APR 20 1908
of original tracing.
WV Department of
Environmental Protection

1) Date: April 5, 2018
2) Operator's Well Number
607519 M. E. Gainer #1-7519
3) API Well No.: # 021 - 03175
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

4702103175P

4) Surface Owner(s) to be served:
(a) Name JJR WVA LLC
Address c/o John Ryan
134 S Webb Rd.
Hopkins NC 29061
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Danny Mullins
Address 220 Jack Acres Rd
Buckhannon WV 26201
Telephone 304-932-6844

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name H3, LLC
1483 Johns Creek Rd.
Address Milton WV 25541
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

Erin Spine

Its:

Regional Land Supervisor

Address:

2200 Energy Drive

Telephone:

Canonsburg PA 15317

(304) 848-0035

Subscribed and sworn before me this

18

day of

April

2018

Notary Public

My Commission Expires:

4-7-2020

RECEIVED

Office of Oil and Gas

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.

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

4702103175P

Operator Name: EQT PRODUCTION COMPANY OP CODE: _____

Watershed (HUC 10): Spring Run Quadrangle: Burnt House

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:

Formation Fluids

Will a synthetic liner be used in the pit? Yes X No ___ Is 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 _____)
- 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 a 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.

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.

RECEIVED
Office of Oil and Gas
APR 23 2018

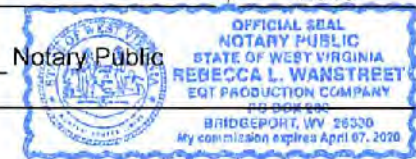
Company Official Signature *Erin Spine*

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 18 day of April 2018

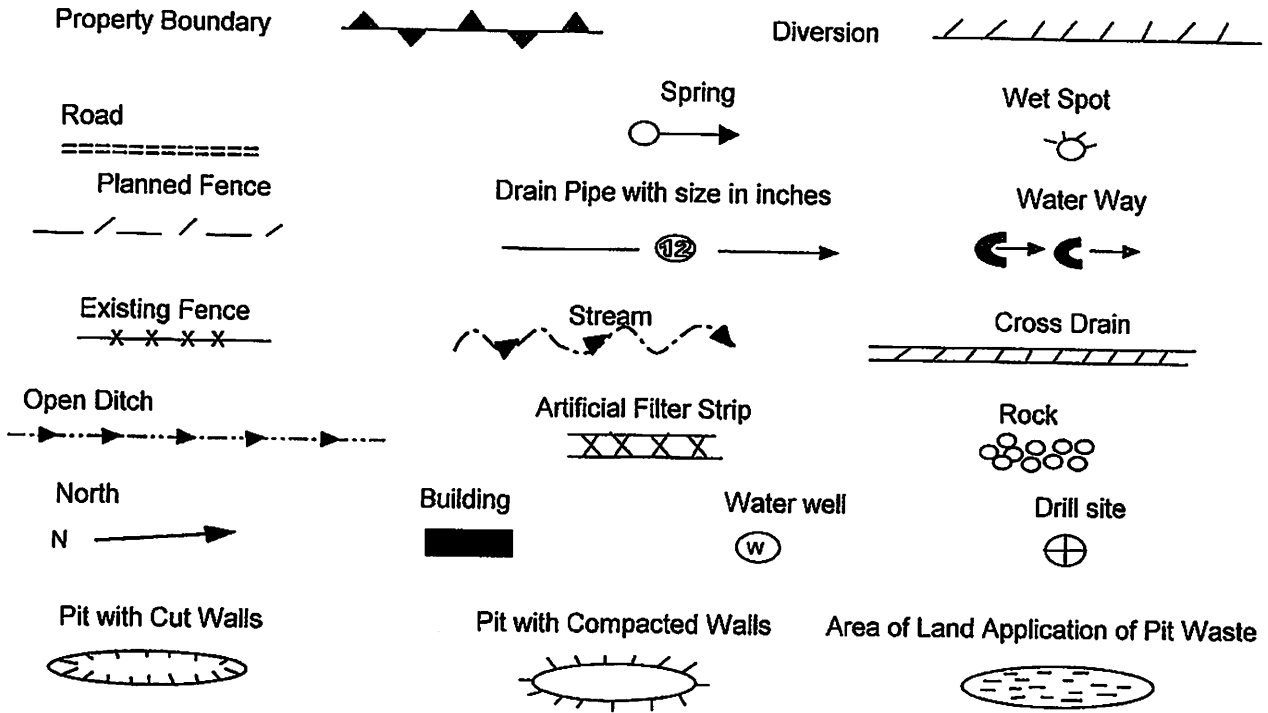
Rebecca L. Wanstreet
My Commission Expires 4-7-2020



WV Department of
Environmental Protection

OPERATOR'S WELL NO.:
607519 M. E. Gainer #1-7519

LEGEND



DM

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: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? Yes No

EQT Production Water plan
Offsite disposals

4702 703175P

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

RECEIVED
Office of Oil and Gas

APR 23 2018

WV Department of
Environmental Protection

RECEIVED
Office of the Director

APR 8 1994

Department of
Environmental Protection

APR 8 1994

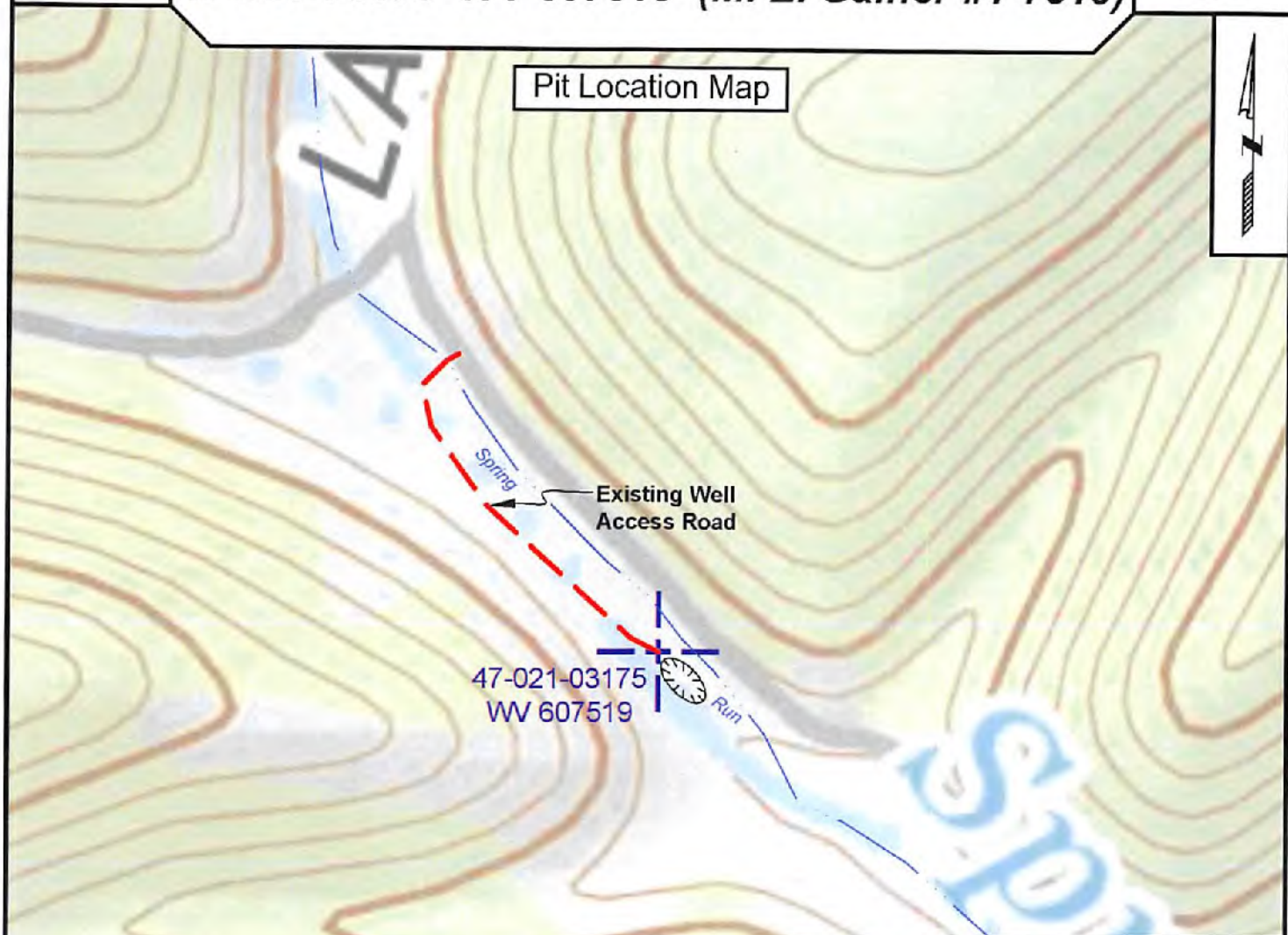
47 02 103 175P

Topo Quad: <u>Burnt House 7.5'</u>	Scale: <u>1" = 200'</u>
County: <u>Gilmer</u>	Date: <u>March 08, 2018</u>
District: <u>DeKalb</u>	Project No: <u>25-19-00-07</u>

47-021-03175 WV 607519 (M. E. Gainer #1-7519)

Topo

Pit Location Map




NAD 27, South Zone
N:732017.79
E:2004665.21

WGS 84
LAT:39.010312
LONG:-80.983415
EEEEV:866.13

RECEIVED

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:

Office of Oil and Gas
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
 WV Department of
 Environmental Protection

47 02 103175 P

Topo Quad: Burnt House 7.5' Scale: 1" = 1000'
 County: Gilmer Date: March 08, 2018
 District: DeKalb Project No: 25-19-00-07

Highway **47-021-03175 WV 607519 (M. E. Gainer #1-7519)**

Pit Location Map



NAD 27, South Zone
N:732017.79
E:2004665.21

WGS 84
LAT:39.010312
LONG:-80.983415
ELEV:866.13

To US Routes
 33 & 119
 12.6 Miles ±

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
 RECEIVED
 Office of Oil and Gas
 P.O. Box 280
 Bridgeport, WV 26330
APR 23 2018

47 02 103175

Topo Quad: Burnt House 7.5'

Scale: 1" = 2000'

County: Gilmer

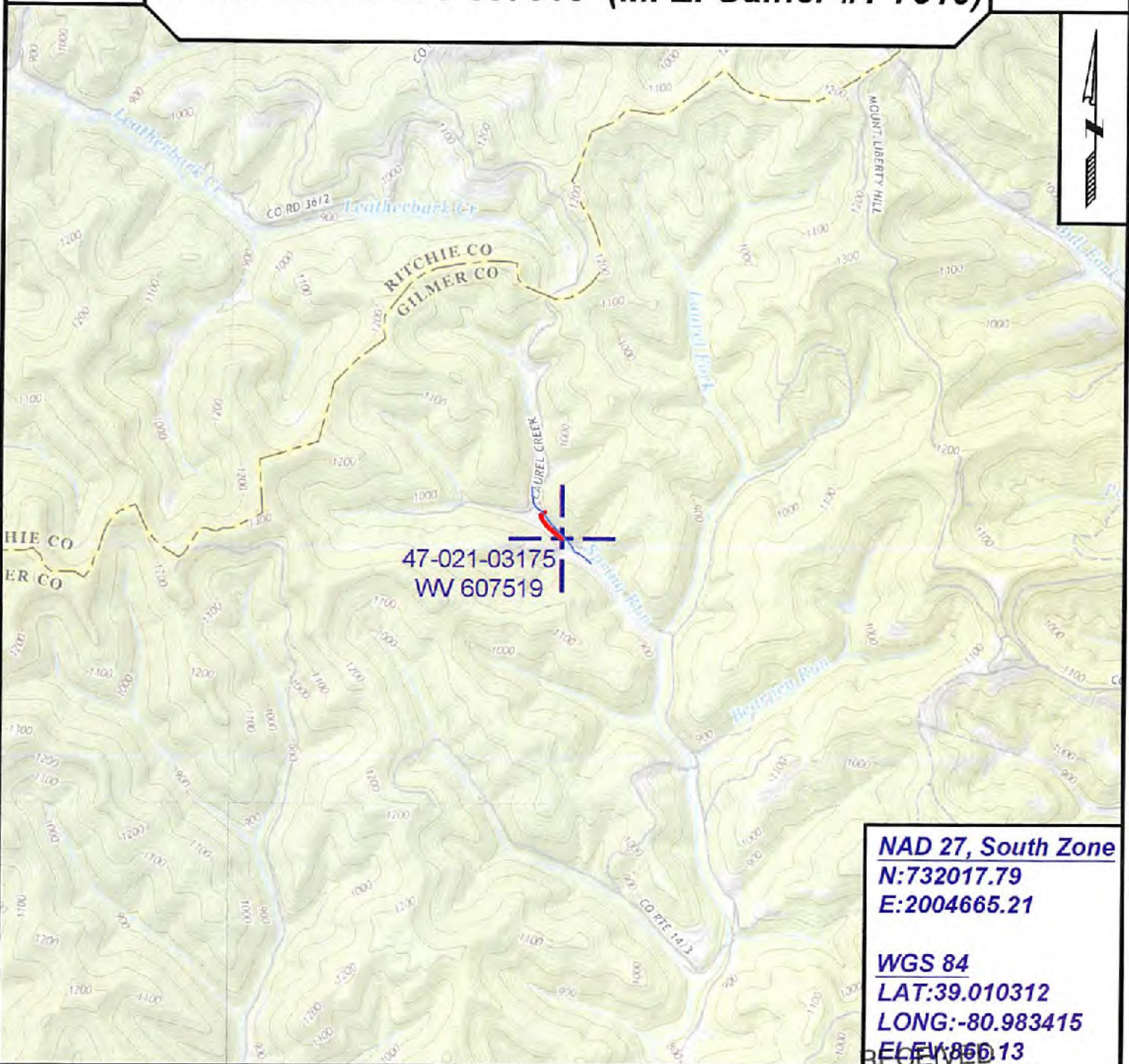
Date: March 08, 2018

District: DeKalb

Project No: 25-19-00-07

47-021-03175 WV 607519 (M. E. Gainer #1-7519)

Topo



47-021-03175
WV 607519

NAD 27, South Zone
N:732017.79
E:2004665.21

WGS 84
LAT:39.010312
LONG:-80.983415
ELEV:866.13



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: Office of Oil and Gas
EQT Production Company

APR 15 2018
P.O. Box 280
Bridgeport, WV 26330
WV Department of
Environmental Protection

47 02 103 175P



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. M. E. Gainer #1-7519 - WV 607519 - API No. 47-021-03175

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 523 +/- Owner: JJR WVA LLC (c/o John Ryan)
 Address: 134 S Webb Rd., Hopkins, SC 29061 Phone No. _____
 Comments: _____

Site: 1 Spacing: 945 +/- Owner: JJR WVA LLC (c/o John Ryan)
 Address: 134 S Webb Rd., Hopkins, SC 29061 Phone No. _____
 Comments: _____

RECEIVED
Office of Oil and Gas

APR 23 2018

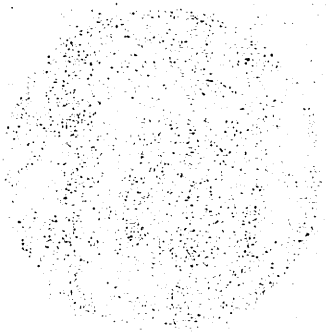
WV Department of
Environmental Protection

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

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

APR 10 2018



U.S. DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

1616 North 10th Street, Denver, Colorado 80202

OFFICE OF THE ASSISTANT SECRETARY

FOR LAND AND WATER MANAGEMENT, PLANNING, AND CONSERVATION

1963 North Lincoln Street, Denver, Colorado 80202

TELEPHONE (303) 837-1500

FACSIMILE (303) 837-1500

WWW.BLM.GOV

U.S. GOVERNMENT PRINTING OFFICE: 2007-500-000

RECEIVED

Office of Oil and Gas

APR 8 2018

U.S. Department of
Environmental Protection

U.S. DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

1616 North 10th Street, Denver, Colorado 80202

TELEPHONE (303) 837-1500

FACSIMILE (303) 837-1500

WWW.BLM.GOV

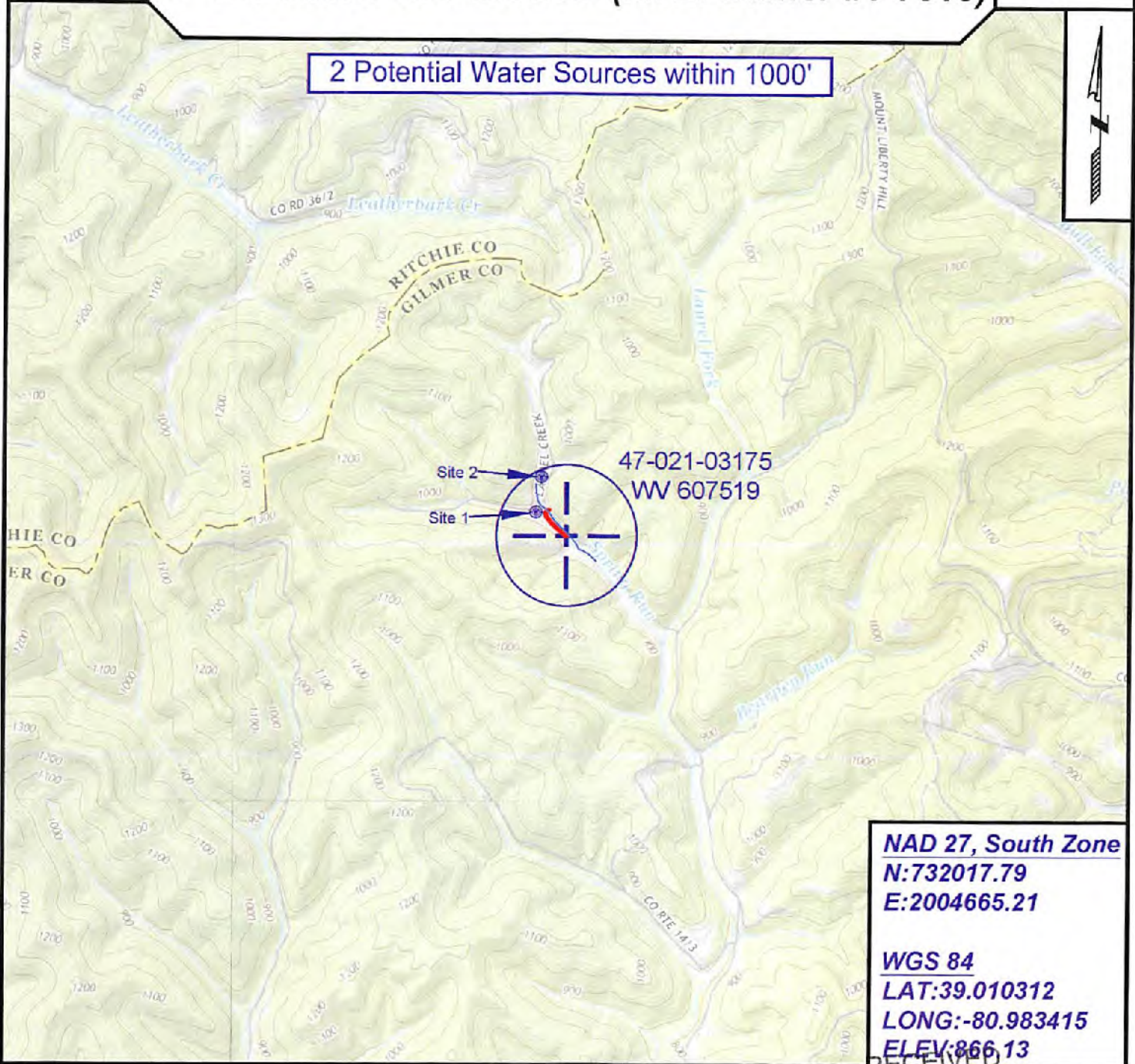
47 02 03 17 5A

Topo Quad: Burnt House 7.5' Scale: 1" = 2000'
 County: Gilmer Date: March 08, 2018
 District: DeKalb Project No: 25-19-00-07

Water

47-021-03175 WV 607519 (M. E. Gainer #1-7519)

2 Potential Water Sources within 1000'



NAD 27, South Zone
N:732017.79
E:2004665.21

WGS 84
LAT:39.010312
LONG:-80.983415
ELEV:866.13



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:
Office of Oil and Gas
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
 WV Department of
 Environmental Protection



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

API: 47-021-03175 WELL NO.: WV 607519 (M. E. Gainer #1-7519)

FARM NAME: M. E. Gainer

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: DeKalb

QUADRANGLE: Burnt House 7.5'

SURFACE OWNER: JJR WVA, LLC (c/o John Ryan)

ROYALTY OWNER: Garnet Gas Company, et al.

UTM GPS NORTHING: 4317921

UTM GPS EASTING: 501436 GPS ELEVATION: 264 m (866 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.

John Ryan
Signature

PS # 2180
Title

3/22/18
Date

RECEIVED
Office of Oil and Gas

APR 23 2018

WV Department of
Environmental Protection