



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

Thursday, February 13, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 606139
47-091-00030-00-00

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: 606139
Farm Name: SIMMONS, KENNETH & HELI
U.S. WELL NUMBER: 47-091-00030-00-00
Vertical Plugging
Date Issued: 2/13/2020

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date January 22, 2020
2) Operator's
Well No. 606139 Sarah Johnson #1
3) API Well No. 47-091-00030P

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 1342 Watershed Pads Run Creek
District Booths Creek County Taylor Quadrangle Fairmont East

6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow
Address 400 Woodcliff Drive Address 115 Professional Place
Canonsburg PA 15317 Bridgeport WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Kenneth Greynolds Name HydroCarbon Well Service
Address 613 Broad Run Road Address PO Box 995
Jane Lew, WV 26378 Buckhannon WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:

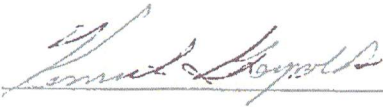
See Attachment for details and procedures.

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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  Date 1-23-20

PLUGGING PROGNOS

606139
 Sarah A. Johnson A-63
 API# 47-091-00030
 District, Booths Creek
 Taylor County, WV

BY: R Green
 DATE: 02/06/17

CURRENT STATUS:

TD @ 2161'
Elevation @ 1342'

10" casing @ 165'
 8 1/4" casing @ 553'
 6 5/8" casing @ 1032'

Fresh Water @ 100' & 505'
Saltwater @ None Reported
Oil Show @ None Reported
Gas shows @ 1101' & 1164'
Coal @ 315'

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1. Notify inspector, Kenneth Greynolds, @ 304-206-6613, 24 hrs. prior to commencing operations.
2. Check TD @ or below, 2100', spot 25 bbl. of 6% gelled water followed by a 300' C1A cement plug, 2100' to 1800'. WOC 8 hrs., TAG TOC, add additional C1A cement if necessary.
3. TOOH to 1400', set 100' C1A cement plug 1400' to 1300'. (elevation).
4. TOOH to 1250', set 350' C1A cement plug, 1250' to 900', (gas shows & 6 5/8" casing seat).
5. Free point 6 5/8" casing, cut casing @ free point. TOOH casing.
6. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
7. TOOH to 650' set 400' C1A cement plug, 650' to 500'. (8 1/4" casing seat).
8. Free point 8 1/4" casing, cut casing @ free point. TOOH casing.
9. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
10. TOOH to 300', set 200' C1A cement plug 300' to 100' (10" casing seat).
11. Free point 10" casing, cut casing @ free point. TOOH casing.
12. Set 100' C1A cement plug 50' in casing cut to surface. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
13. *** Note, if unable to cut and pull 10" casing, perforate 10" casing with 3 holes each @ 100', 75', & 50'. Set 100' C1A cement plug 100' to surface.**
14. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
15. Reclaim location and road to WV-DEP specifications.

606139
Taylor Co.

SARAH JOHNSON #2 47-091-00030 P

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. TAY 30
Fairmont N.E. Quad.
Company
Address
Farm
Location
Well No
District
Surface
Mineral
Commenced
Completed
Open flow
Volume
Rock Pressure
Fresh Water

Pittsburgh & W. Va. Gas Company
Clarksburg, W. Va.
Sarah A. Johnson et al A-63
Fairmont N.E. 3-3
6139 Elev. 1412' VA
Booths Creek Taylor County
Sarah A. Johnson, Box 273, Bridgeport, W. Va.
Same
April 3, 1944
May 20, 1944
12/10ths W in 1" F.M.
25,700 C.F.
195 lbs. 30 hrs.
100' 1 blr. hr.; 325' 1 1/2 Hrs. Hr.
505' 3 Hrs. hr.

Gas Well
CASING & TUBING

10 165 165
8 5/8 553 553
6 5/8 1032 1032

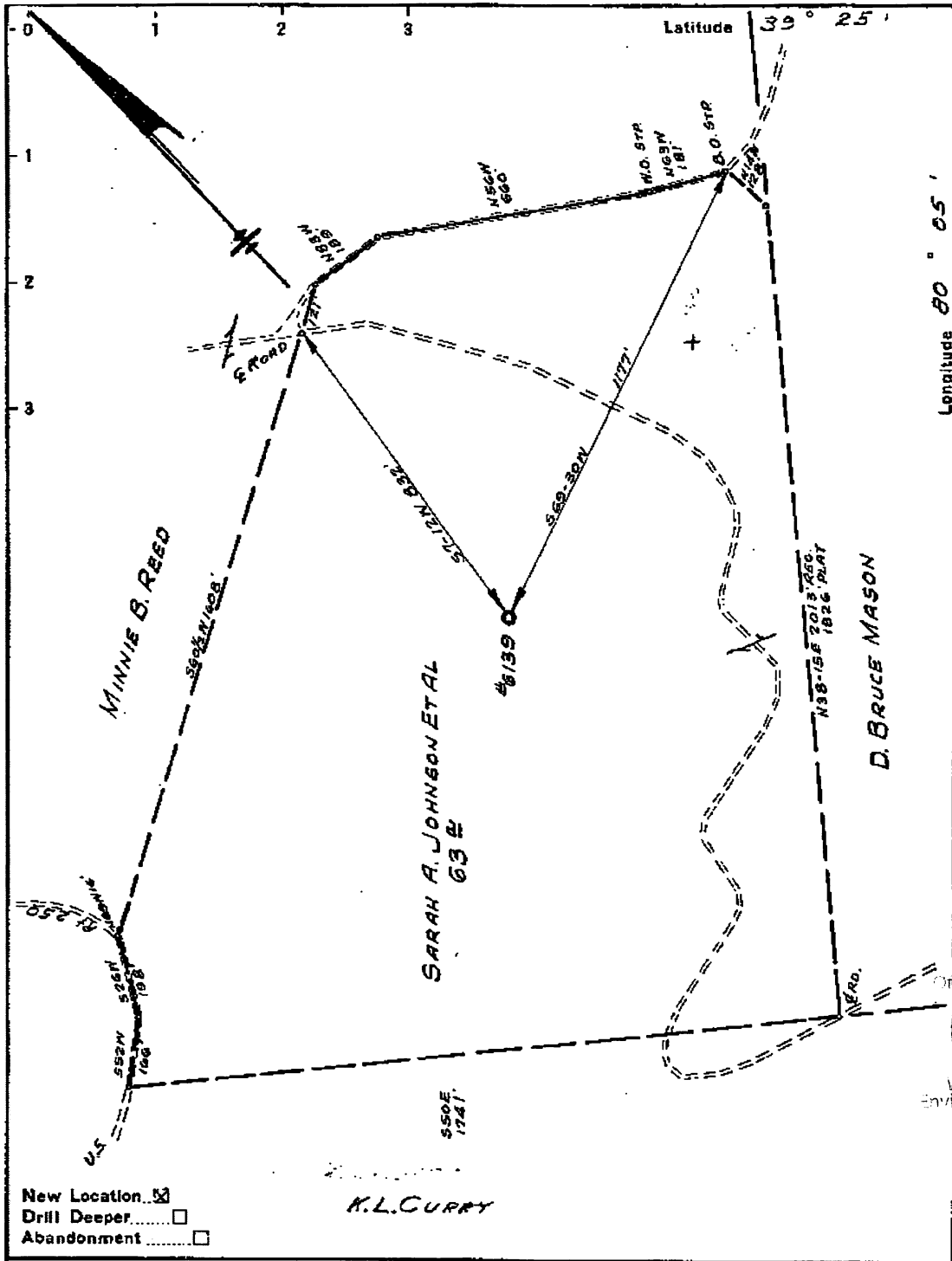
Coal at 315' 60"

Soil							
Slate	Dk	S	0	14	Lime	2145	2161
Lime	Lt	H	14	90	TOTAL DEPTH		2161
Sand	Wh	H	90	170			
Coal	Gr	S	170	315			
Slate	Dk	S	315	320			
1st Salt Sand	Wh	H	320	355			
Slate	Gr	S	355	410			
Slate Shells	Dk	H&S	410	425			
2nd Salt Sand	Lt	H	425	475			
Slate	Dk	S	475	544			
Lime	Lt	Broken	544	548			
Slate	Gr	S	548	575			
Lime	Dk	H	575	586			
Slate Shell		S-H	586	605			
Red Rock		S	605	670			
Lime		H	670	693			
Red Rock		S	693	740			
Lime	Lt	H	740	760			
Maron Sand	Wh	H	760	801			
Red Rock		S	801	866			
Slate Shells		S	866	958			
Lime	Gr	H	958	972			
Slate	Wh	S	972	996			
Red Rock		S	996	1000			
Big Lime	Wh	H	1000	1009			
Big Injun		H	1009	1090			
Red Rock		S	1090	1203	Gas 1101-1107 10/10 W 1"		
Slate Shells	Wh	S-H	1203	1210	Gas 1164-1186 24/10 W 1"		
Lime	Gr	H	1210	1227			
Slate Shells	Wh	S-H	1227	1245			
Lime	Wh	H	1245	1257			
Slate Shells	Wh	H	1257	1343			
Lime	Wh	H	1343	1355			
Slate Shells		S-H	1355	1435			
Lime		H	1435	1462			
50' Sand	Wh	H	1462	1578			
Slate Shells		S-H	1578	1704			
Red Rock		S	1704	1770			
Slate & Shells	Wh	H-S	1770	1775			
Red Rock		S	1775	1809			
Slate Shell		H&S	1809	1834			
Red Rock		S	1834	1860			
Red Rock		H&S	1860	1879			
Slate		S	1879	1969			
4th Sand	Gr	H	1969	1979			
Slate		S	1979	1992			
Slate Shells		S-H	1992	2000			
Red Rock		S	2000	2033			
5th Sand		H	2033	2047			
Red Rock		H	2047	2068			
Lime		H	2068	2090			
Slate		H	2090	2142			
			2142	2145			

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New Location
 Drill Deeper
 Abandonment

K.L. CURRY

Company PITTSBURGH & W.V. GAS CO.
 Address CLARKSBURG, W.V.
 Farm SARAH A. JOHNSON ET AL
 Tract _____ Acres 63 Lease No. 23056
 Well (Farm) No. ONE Serial No. 6139
 Elevation (Spirit Level) 1412' N.A.
 Quadrangle FAIRMONT N. E. 3 E
 County TAYLOR District BOOTH CREEK
 Engineer JAMES T. JEFFRIES
 Engineer's Registration No. 1084
 File No. V-88-P-147 Drawing No. _____
 Date OCT. 12, 1943 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. JAY-30

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

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 OCT 30 4 2020
 WV Department of
 Environmental Protection

"IMPERIAL" TRACING BLOCK
 A & S CO., N. Y.

WW-4A
Revised 6-07

1) Date: January 22, 2020
2) Operator's Well Number
606139 Sarah Johnson #1
3) API Well No.: 47 - 091 - 00030

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>Kenneth Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Road</u>	Name _____
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>304-206-6613</u>	

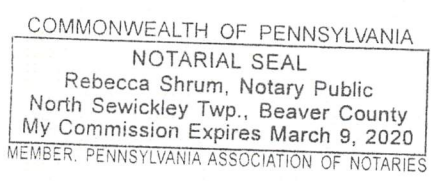
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TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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: Supervisor - Subsurface Permitting
 Address 400 Woodcliff Drive
Canonsburg PA 15317
 Telephone (724) 271-7380

Subscribed and sworn before me this 22nd day of January 2020
Rebecca Shrum Notary Public
My Commission Expires March 9, 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.

47-091-00030

606139 Sarah Johnson #1

Owner(s) (Surface and Access)

Helen J Simmons
4098 Beverly Pike
Grafton, WV 26354

Coal Owner(s)

Helen J Simmons
4098 Beverly Pike
Grafton, WV 26354

Barbara Bolyard Etal
604 Gawthorp Rd
Grafton, WV 26354

Arch Coal Inc.
1 City Place Drive
Suite 300
St. Louis, MO 63141

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

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Pads Run Creek Quadrangle Fairmont East

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: NO LAND APPLICATION.

- 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? _____

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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.

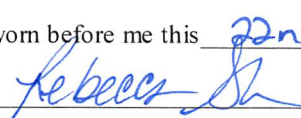
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 

Company Official (Typed Name) Erin Spine

Company Official Title Supervisor - Subsurface Permitting

Subscribed and sworn before me this 22nd day of January, 2020



COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Rebecca Shrum, Notary Public
North Sewickley Twp., Beaver County
My Commission Expires March 9, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My commission expires March 9, 2020

Form WW-9

Operator's Well No. 606139 Sarah Johnson #1

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre _____

Mulch 2 Tons/acre _____

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		

Attach:
 Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *[Signature]*

Comments: *RECLAIM, RE-SEED + MULCH 15.8P*

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Title: OIL & GAS INSPECTION Date: 1-23-20

Field Reviewed? Yes No

47-091-00030P

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: Fairmont East 7.5'

Scale: 1" = 200'

47-091-00030P

County: Taylor

Date: November 7, 2019

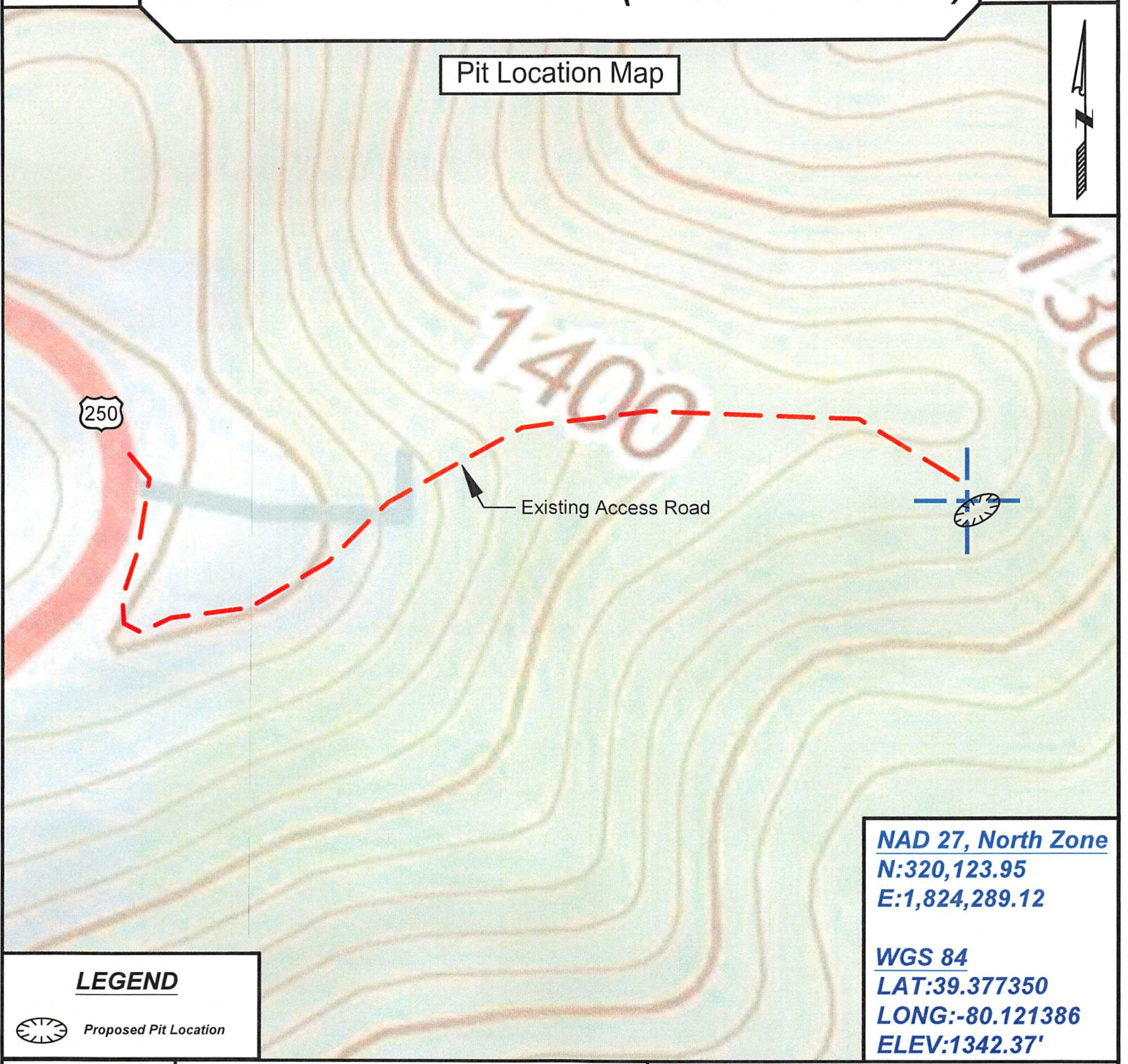
District: Booths Creek

Project No: 206-13-00-16

WV 606139 47-091-00030 (Sarah Johnson #1)

Topo

Pit Location Map



LEGEND

 Proposed Pit Location

NAD 27, North Zone
N:320,123.95
E:1,824,289.12

WGS 84
LAT:39.377350
LONG:-80.121386
ELEV:1342.37'



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

400 Woodcliff Drive
Canonsburg, PA 15317

Topo Quad: Fairmont East 7.5'

Scale: 1" = 500'

47-091-00030

County: Taylor

Date: November 7, 2019

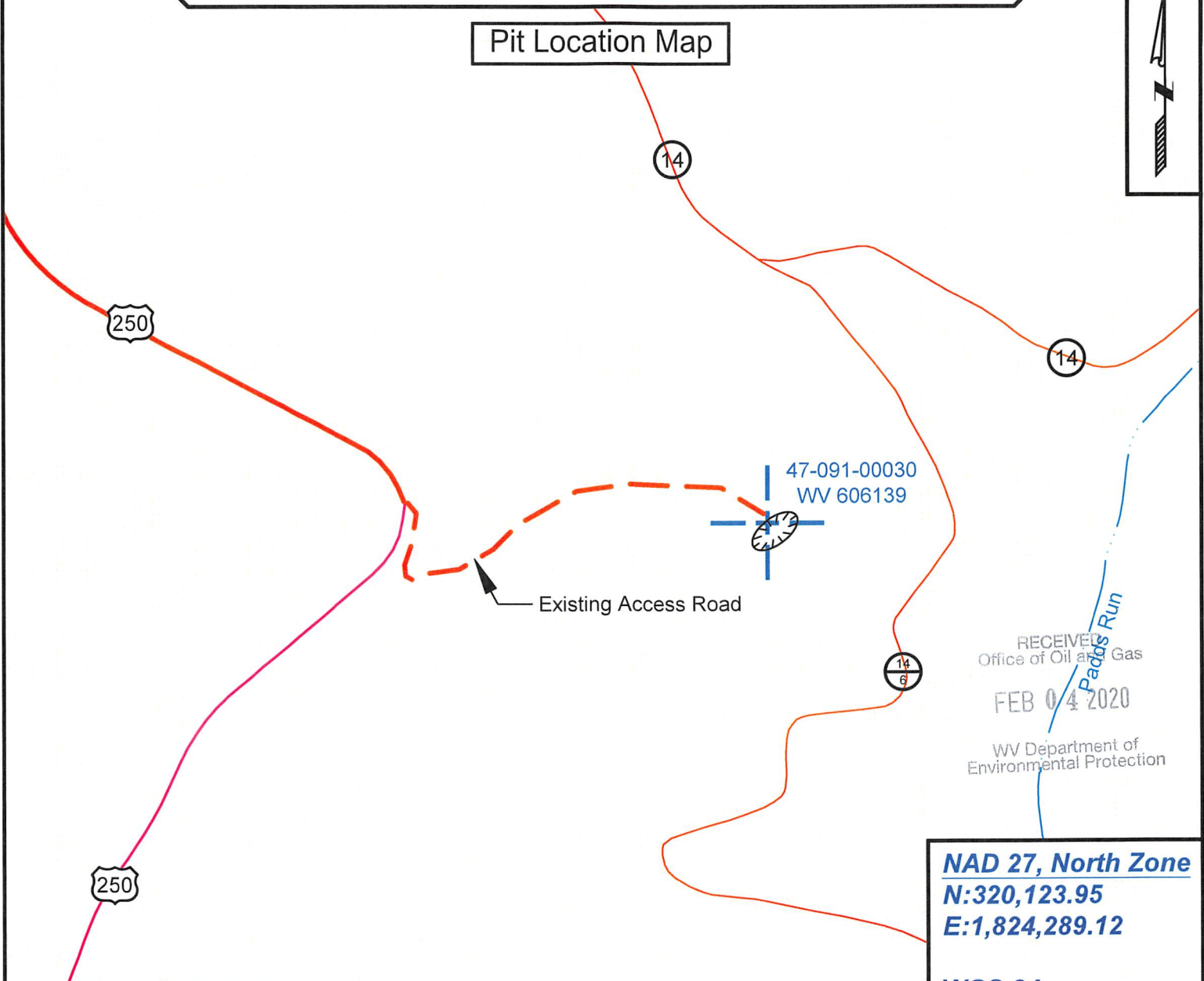
District: Booths Creek

Project No: 206-13-00-16

Highway

WV 606139 47-091-00030 (Sarah Johnson #1)

Pit Location Map



NAD 27, North Zone
N:320,123.95
E:1,824,289.12

WGS 84
LAT:39.377350
LONG:-80.121386
ELEV:1342.37'

LEGEND

 Proposed Pit Location



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PREPARED FOR:
EQT Production Company
400 Woodcliff Drive
Canonsburg, PA 15317

Topo Quad: Fairmont East 7.5'

Scale: 1" = 2000'

47-091-00030P

County: Taylor

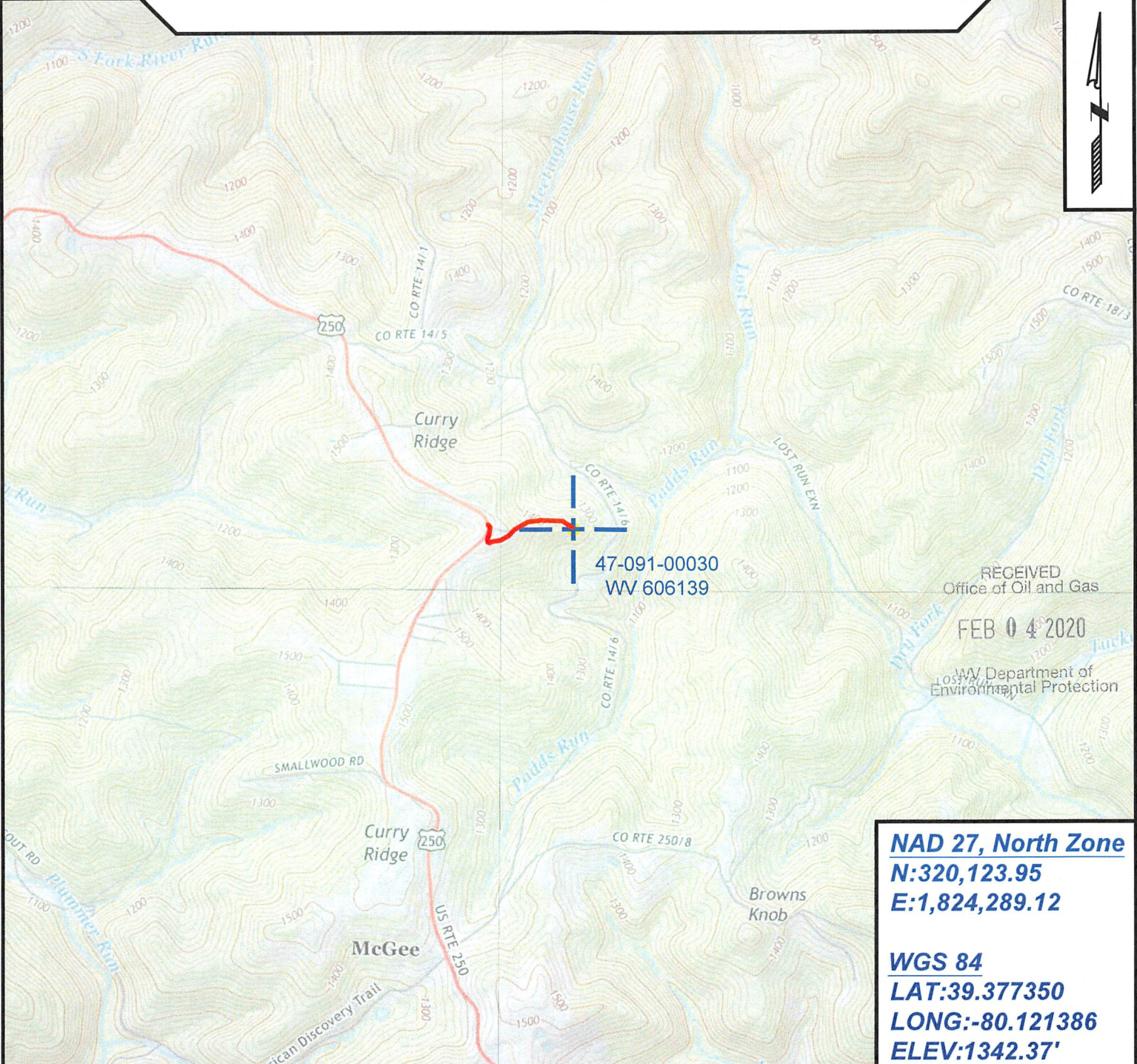
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WV 606139 47-091-00030 (Sarah Johnson #1)

Topo



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FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

400 Woodcliff Drive
Canonsburg, PA 15317

47-091-00030P

WW-7
8-30-06



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

API: 47-091-00030 WELL NO.: WV 606139 (Sarah Johnson #1)
FARM NAME: Sarah Johnson
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Taylor DISTRICT: Booths Creek
QUADRANGLE: Fairmont East 7.5'
SURFACE OWNER: Hellen J. Simmons
ROYALTY OWNER: EQT Production Company, et al.
UTM GPS NORTHING: 4359021
UTM GPS EASTING: 575676 GPS ELEVATION: 409m (1342ft)

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.**

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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 11/8/2019 Date