

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, September 17, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 2081 47-017-02030-00-00

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: 2081

Farm Name: SMITH

U.S. WELL NUMBER: 47-017-02030-00-00

Vertical Plugging
Date Issued: 9/17/2018

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

1) Date May 2	21	,	20 18	
2)Operator	S			
Well No.	602081 Ch	arles Smith	#2081	
3) API Well	No. 4	7 017	02030	-

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
4)	Well Type: Oil / Gas X/ Liqui	d injection / Wests dispers) /
		derground storage
	ir das, Fraduction bi of.	derground storage/ Deep/ ShallowA
5)	Location: Elevation 830	Watershen Brush Run
	District Grant	County Doddridge Quadrangle Smithburg
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 Daniel Flack	9) Plugging Contractor Name HydroCarbon Well Service
	Address 58 Rive Road	Address PO Box 995
	Buckhannon WV 26201	Buckhannon WV 26201
Not:	ification must be given to the district o k can commence.	il and gas inspector 24 hours before permitted
	k order approved by inspector	

PLUGGING PROGNOS 602081 C.B.Smith API# 47-017-02030 District, West Union Doddridge County, WV

BY: R Green
DATE: 06/04/18
CURRENT STATUS:
TD@ 2578'
Elevation @ 830'

10" casing @ 154' 8 ¼" casing @ 992' 6 5/8" casing @ 1839' 3" tubing @ 2578' (3" X 6 5/8" packer set @ 2228')

Fresh Water @ None Reported Saltwater @ None Reported Oil Show @ None Reported Gas shows @ 1489' & 2540' Coal @ 455', &1110'

- Notify inspector Daniel Flack @ 304-549-0109, 24 hrs. prior to commencing operations.
- Check tubing and casing pressures to determine integrity of 3" tubing. If 3" tubing is determined to be good continue to step #3. If integrity is not good, call EQT supervisor and state inspector.
- 3. TIH and check TD and locate 3" X 6 5/8" packer.
- 4. TIH and perforate 3" tubing with 10 holes @ 2540' to 2560'.
- 5. TIH to 2560' and spot 40 bbl. of 6% gelled water followed by a 250' C1A cement plug. 2560' to 2310'. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
- 6. TOOH to top of 3" X 6 5/8" packer cut 3" tubing at top of packer. TOOH 3" tubing.
- 7. TIH to top of packer, set a 450° C1A cement plug 2228° to 1778° (6 5/8° casing seat).
- 8. Free point 6 5/8" casing. cut casing @ free point. TOOH 6 5/8" casing.
- 9. Set a 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.

 6 AS @ 14.89'
- 10. TOOH to 1150' set a 400' C1A cement plug 1150' to 750'. (Elevation, coal, & 8 1/4" easing seat).
- 11. Free point 8 1/4" casing, cut casing @ free point, TOOH 8 1/4" casing.
- 12. Set a 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.
- 13. TOOH to 550' set a 200' C1A cement plug. 550' to 350' (Coal @ 455').
- 14. TOOH to 200' set a 100' C1A cement plug 200' to 100' (10" casing seat).
- 15. Free point 10" casing, cut casing @ free point. TOOH 10" casing.
- 16. Set a 100° C1A cement plug 50° in casing cut to surface. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.

All afterpts must be made to pull All Pigue
PAT Willet

- 17. Note* If unable to cut and pull 10" casing TIH and perforate 10" casing with 5 holes each @ 100' & 50'. TIH to 100' set a 100' C1A cement plug 100' to surface.
- 18. Erect monument with API#, date plugged, company name.
- 19. Reclaim road, and location, to WV-DEP specifications.

RECEIVED
Office of Oil and Gas

JUN 1 4 2018

WV Department of Environmental Protection

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WW-4A Revised 6-07

1) Date: May 21, 2018
2) Operator's Well Number
602081 Charles Smith #2081

3) API Well No.: 47 -

017 - 02030

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

(a) Name		
A 1 1	See Attached	Name
Address	-	Address
(b) Name		(b) Coal Owner(s) with Declaration
Address		N .
		Address
(c) Name		Name
Address		Address
6) Inspector	Daniel Flack	() () ()
Address	58 Rive Road	(c) Coal Lessee with Declaration Name
7 iddi ess	Buckhannon WV 26201	Address
	304-545-0109	Address
Telephone	007 010 0103	
(1) The a well it(2) The p	RSONS NAMED ABOVE pplication to Plug and Abandon a Wells and the plugging work order; and lat (surveyor's map) showing the well 1	ocation on Form WW-6.
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Oil and Gas Privacy Notice

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



47-017-02030

602081 (Charles Smith #2081)

Owner(s) (Surface and Access)

Connie Sue Martin (LE) 920 Brush Run West Union, WV 26456

Michael and Melinda Seckman (Remaindermen) 844 Brush Run West Union, WV 26456

Coal Owner(s):

Tarence A. Grant and Donna J. Grant
Trustees of the Grant Family Revocable Trust
209 Sharon Drive
Weirton, WV 26062

Potential Water Owner(s):

Jeff Bonnell 689 Brush Run West Union WV 26456

Juanita Krafft 726 Brush Run West Union WV 26456

Michael and Melinda Seckman (Remaindermen) 844 Brush Run West Union, WV 26456

Connie Sue Martin (LE) 920 Brush Run West Union, WV 26456

Elizabeth Bradford 11458 Fruitwood Way Germantown MD 20876 Office of Oil and Gas

JUN 1 4 2018

Environmental Protection



API Number 47 - 017 _ 02030 Operator's Well No. 602081 Charles Smith #2081

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) Brush Run	Quadrangle Smithburg
Do you anticipate using more than 5.000 bbls of water to con Will a pit be used? Yes No	mplete the proposed well work? Yes No 🗸
If so, please describe anticipated pit waste: Forma	ation 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	:
Underground Injection (UIC Per Reuse (at API Number Off Site Disposal (Supply form V	
Will closed loop systembe used? If so, describe:	
	ontal)? Air, freshwater, oil based, etc.
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill, remove	ed offsite, etc
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust)
Permittee shall provide written notice to the Office of Oil an West Virginia solid waste facility. The notice shall be provid where it was properly disposed.	d Cas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West' provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, based on the control of the cont	ond conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable law ally examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for o btaining trate, and complete. I am aware that there are significant penalties for e or imprisonment.
10	1.00
Subscribed and sworn before me this day of	June . 20 18
Ixenecca (1) Wornstree	Notary Public OFFICIAL SEAL NOTARY PUBLIC
My commission expires 4-7-2020	STATE OF WEST VIRGINIA REBECCA L. WANNTREET EOT PROPURTON COMPANY PO ROX 250



	atment: Acres Disturbed 1±		Н
Lime 3	Tons/acre or to correct to	to pH 6.5	
Fertilizer type (10	0-20-20) or equivalent		
Fertilizer amount	1/3 ton	lbs/acre	
Mulch_2		Lons/acre	
		Seed Mixtures	
T	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		
Plan Approved by:	deh		
Title: 0:40a	Troputo	Date: LeCU/B	

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



1" = 500" Smithburg 7.5' Topo Quad: Scale: April 26, 2018 Doddridge County: Date: District: Grant Project No: 67-30-00-08 Highway 47-017-02030 WV 602081 (Charles Smith #2081) Pit Location Map Brush 47-017-02030 WV 602081 Office of Oil and Gas Proposed Access Road WV Department of Environmental Protection NAD 27, North Zone N:317849.37 E:1659155.13 WGS 84 **LEGEND** LAT:39.366489



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

LONG:-80.705415

ELEV:830.80

2400 Ansys Drive Canonsburg, PA 15317 Topo Quad:

Smithburg 7.5'

Scale:

1" = 200'

County:

Doddridge

Date:

March 26, 2018

District:

Grant

Project No:

67-30-00-08

47-017-02030 WV 602081 (Charles Smith #2081)

Topo

Pit Location Map



Brush



47-017-02030 WV 602081

> Proposed — Access Road

Office of Oil and Gas

JUN 1 4 2018

WV Department of Environmental Protection

NAD 27, North Zone

N:317849.37 E:1659155.13

WGS 84 LAT:39.366489 LONG:-80.705415 ELEV:830.80

A CONTRACTOR OF THE PARTY OF TH

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

P.O. Box 280 Bridgeport, WV 26330 Topo Quad:

Smithburg 7.5'

Scale:

1" = 2000'

County:

Doddridge

Date:

April 26, 2018

District:

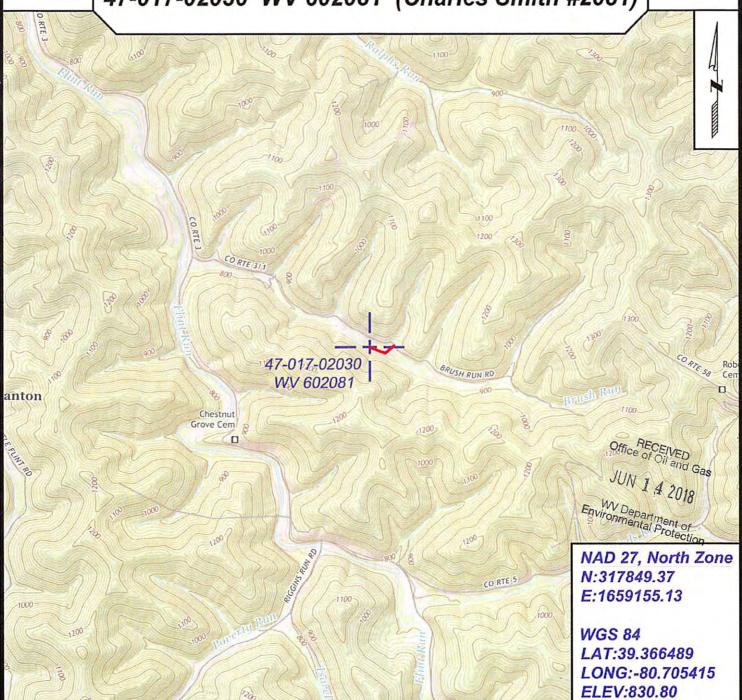
Grant

Project No:

67-30-00-08

47-017-02030 WV 602081 (Charles Smith #2081)

Торо





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



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT:	EQT PRODUCTION COMPANY	
LEASE NAM	IE AND WELL No. Charles Smith #2081 - WV 602081 - API No. 47-017-02030	

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 985 +/- Owner: Jeff Bonnell		
Address: 689 Brush Run, West Union, WV 26456	Phone No.	304-873-1751 .
Comments: Door hanger left		
Site: 2 Spacing: 865 +/- Owner: Juanita Krafft		
Address: 726 Brush Run, West Union, WV 26456		
Comments:		
Site: 3 Spacing: 200 +/- Owner: Michael & Melinda Seckman		75
Site: 3 Spacing: 200 +/- Owner: Michael & Melinda Seckman Address: 844 Brush Run, West Union, WV 26456	Phone No.	304-873-3320 Of Oil ar
Comments:		// /A/ ~
Site: 4 Spacing: 300 +/- Owner: Connie Sue Martin Address: 920 Brush Run Road, West Union, WV 26456		Environment Environment
Address: 920 Brush Run Road, West Union, WV 26456	. Phone No.	304-873-1450 Prote
Comments:		
Site: 5 Spacing:530 +/- Owner: _Elizabeth Bradford		
Address: 11458 Fruitwood Way, Germantown, MD 20876		
Comments: Pond .		
Site: 6 Spacing: 800 +/- Owner: Elizabeth Bradford		
Address: 11458 Fruitwood Way, Germantown, MD 20876		
Comments:		
omments.		

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 (WV811) (Exhibit A) Directions to Gas Well No. WV 602081 API No. 47-017-02030

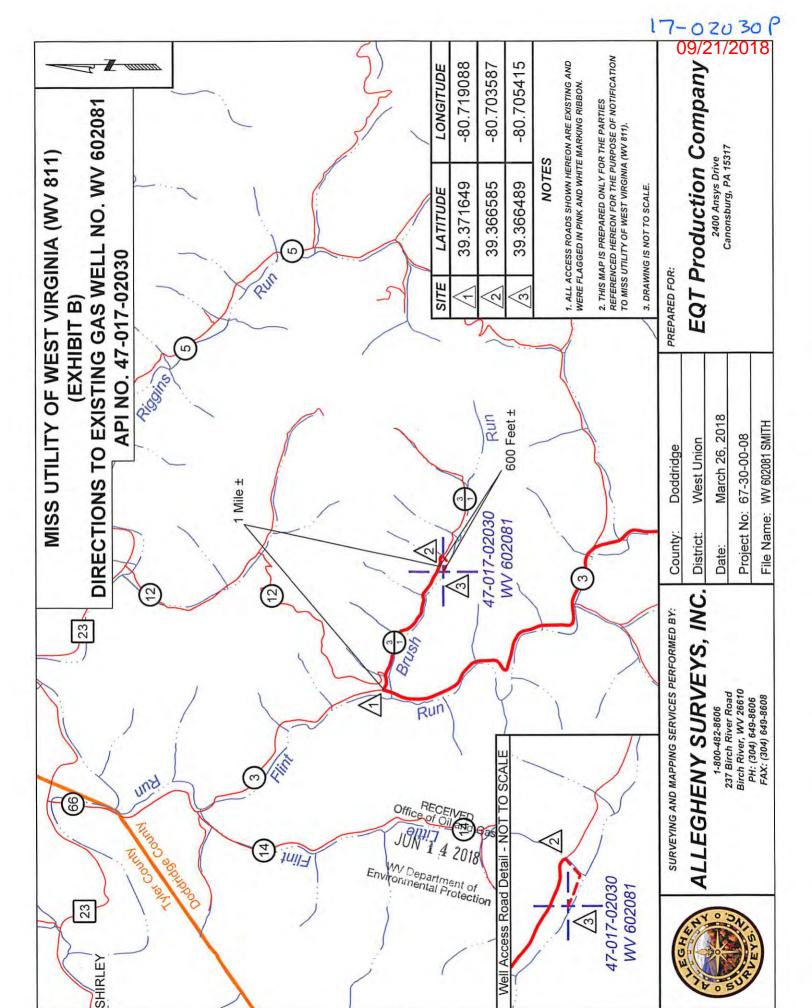
- Beginning at the intersection of US Interstate 79 and US route 50 (Exit 119 Clarksburg/Bridgeport) in Harrison County, West Virginia
- Turn left onto US-50 W and proceed West, for approximately 19.4 miles, arriving at the intersection of US-50 W and WV County Route 9 (Tarkiln Run)
- Turn right onto WV County Route 9 (Tarkiln Run) and proceed North, for approximately 160 feet, arriving at the intersection of WV County Route 9 (Tarkiln Run) and Old US-50.
- Turn left onto Old US-50 and proceed West, for approximately 0.2 mile, arriving at the junction of Old US-50 and WV County Route 3 (Big Flint Road)
- Turn right onto WV County Route 3 (Big Flint Road) and proceed North, for approximately 9 miles, arriving at the junction of WV County Route 3 (Big Flint Road) and WV County Route 3/1 (Brush Run Road) (Point No. 1)
- Turn right onto WV County Route 3/1 (Brush Run Road) and proceed Southeast, for approximately 1 mile, arriving at the Gas Well Access Road on the right. (Point No. 2)
- Turn right and proceed south, for approximately 600 feet, arriving at Gas Well WV 602081.
 (Point No. 3)

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

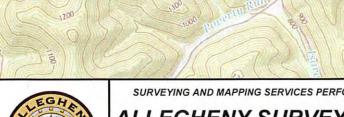




West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-017-02030 WELL NO.: WV 602081 (Charles Smith #2081)
FARM NAME: Charles Smith
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Doddridge DISTRICT: Grant
QUADRANGLE: Smithburg 7.5'
SURFACE OWNER: Connie Sue Martin
ROYALTY OWNER: Grant Family Revocable Trust
UTM GPS NORTHING: 4357489
UTM GPS EASTING:525377 GPS ELEVATION:253 m (830 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:
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.
15#2180 4/26/18 Title Date

17-02030 P 1" = 2000" Smithburg 7.5' Topo Quad: Scale: Doddridge April 26, 2018 County: Date: District: Grant Project No: 67-30-00-08 Water 47-017-02030 WV 602081 (Charles Smith #2081) 6 Potential Water Sources within 1000 1100 CO RTE 3/1 47-017-02030



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FLIMTRO

SURVEYING AND MAPPING SERVICES PERFORMED BY:

WV 602081

Chestnut Grove Cem

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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:

CO RTE 5

BRUSH RUN RD

EQT Production Company

D

Office of Oil and Gas

JUN 1 4 2018

W Department of Environmental Protection

NAD 27, North Zone

N:317849.37

E:1659155.13

LAT:39.366489 LONG:-80.705415

ELEV:830.80

WGS 84

2400 Ansys Drive Canonsburg, PA 15317