



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, December 29, 2022
WELL WORK PLUGGING PERMIT
Horizontal 6A Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit approval for BIG 245 H16
47-103-03235-00-00

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: BIG 245 H16
Farm Name: ET BLUE GRASS, LLC
U.S. WELL NUMBER: 47-103-03235-00-00
Horizontal 6A Plugging
Date Issued: 12/29/2022

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12/30/2022

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.

47 1 0 3 0 3 2 3 5



400 Woodcliff Dr | Canonsburg, PA 15317
www.eqt.com

Via Email

November 23, 2022

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Jeff McLaughlin
601 57th Street, SE
Charleston, WV 25304

**RE: Application for a Permit to Plug & Abandon
BIG245H16
API 47-103-03235
Gran District, Wetzel County, WV**

WVDEP Recipient,

Attached is EQT Production Company's application for a permit to plug and abandon for the well referenced above.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our land department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Sincerely,

Becky Shrum
Project Specialist - Permitting
bshrum@eqt.com
412-660-0654

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WV Department of
Environmental Protection

12/30/2022

47 1 0 3 0 3 2 3 5

- 1) Date November 17, 2022
- 2) Operator's
Well No. BIG245H16
- 3) API Well No. 47-103 - 03235

**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 1430' Watershed Rockcamp Run of Wiley Fork
District Grant County Wetzel Quadrangle Big Run 7.5'
- 6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow
Address 400 Woodcliff Drive Address 427 Midstate Drive
Canonsburg PA 15317 Clarksburg, WV 26301
- 8) Oil and Gas Inspector to be notified Name Steve McCoy 9) Plugging Contractor Name R&J
Address 13016 Indian Creek Address 1087 Raccoon Road
Jacksonburg, WV 26377 Hueysville, KY 41640

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 Stephen Mccoy Digitally signed by Stephen Mccoy Date: 2022.11.23 08:59:40 -05'00' Date 11/23/22

12/30/2022

47 1 03 03 235

BIG245 16H
Wetzel Co., WV
HZ Marcellus well
API # 47-103-03235-00
BY: Tyler Mizgorski
DATE: 11/1/2022

CURRENT STATUS:

Elevation @ 1429'
26" A-500 85.6 ppf conductor @ 53' Class A Cement to Surface
13 3/8" J-55 54.4 ppf casing @ 1,179' Class A Cement to Surface
9 5/8" A-500 40 ppf casing @ 2,857' Class H Cement to Surface
5 1/2" P-110 20 ppf casing @ 14,974' Class H Cement, Estimated Cement Top 2,348'

Well not completed

Fresh water @ 229', 507', 662', 752', 1011'

Coal Show @ 925', 1024', 1132'

Salt Water @ N/A

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- 1) Notify Inspector **Steve McCoy**, (681) 344-3265, stephen.e.mccoy@wv.gov prior to beginning operations.
- 2) Check and record pressure on all casings, notify Engineer of recorded pressures.
- 3) Install 10k wireline BOP. Test BOP's and stack to regs. P/U install 10k lubricator. **(Call 8hrs before, will need crane truck)**
- 4) Equalize lubricator, if necessary and RIH w/ gauge ring to 7,940 and set a CIBP @7,920' MD above the Marcellus TVD. Do not set plug in collar. If unable to get to set depth, EQT office will call DEP to discuss options.
- 5) Hook up pump truck and pressure test lines to 8000 psi. **(Call pump truck 8hrs before)**
- 6) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 7) RIH and set second CIBP 10' above the first @7,910' MD
- 8) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 9) RIH with Renegade segmented bond log and pull log from CIBP to surface
- 10) TIH with tubing to CIBP.
- 11) Pump 1500' Class A or Class L cement plug. 7,910' to 6,410' Pump 500' of cement and pull 500' of tubing 2 times. Pump last 500' section and pull tubing 700' and reverse circulate with fresh water if need be.
- 12) Let cement dry for 8 hours Tag up on cement. If cement top is at 6,410' or close POOH with tubing to 3,000'
- 13) Set a 300' Class A or Class L cement plug 3,000' to 2,700'. TOOH 300' Reverse circulate full hole volume. TOOH 300' (Safety Plug, 9 5/8" Casing Seat)
- 14) Let cement dry for 8 hours. Tag up on cement. If cement top is at 2,700' or close POOH with tubing
- 15) Free Point 5 1/2" casing. Cut Casing @freepoint ~2,300' using jet cutter. Estimated freepoint @2,348'. TOOH 5 1/2" Casing.
- 16) Set a 300' Class A or Class L Cement plug 100'in/200' out of casing cut 2,200' to 1,900'. (Casing Cut Plug)
- 17) Let cement dry for 8 hours. Tag up on cement. If cement top is at 1,900' or close POOH with tubing to 1,200'
- 18) Set a 1200' Class A or Class L Cement plug from 1,200' Pump 500' of cement and pull 500' of tubing 2 times. Pump last 200' section. (13 3/8" Casing Seat, Coal, Freshwater, and surface plug)
- 19) Set Monument above ground to WV-DEP Specifications

Steph
12/30/2022

47 1 0 3 0 3 2 3 5



EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

November 8, 2022

Mr. Taylor Brewer
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Class L Cement Variance Request
BIG245H16 Well
Permit Number 47-103-03235
Grant District, Wetzell County

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Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR4 Section 11.5, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

A handwritten signature in blue ink, appearing to read 'John Zavatchan'.

John Zavatchan
Project Specialist - Permitting

Enc.

12/30/2022



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

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REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

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4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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4710303235

WW-4A
Revised 6-07

1) Date: November 17, 2022

2) Operator's Well Number

BIG245H16

3) API Well No.: 47 - 103 - 03235

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:

(a) Name See Attached
Address _____

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Steve McCoy
Address 13016 Indian Creek
Jacksonburg, WV 26377
Telephone 681-344-3265

5) (a) Coal Operator

Name See Attached
Address _____

(b) Coal Owner(s) with Declaration
Name See Attached
Address _____

Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address _____

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

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 17th day of November, 2022
Rebecca Shrum Notary Public
My Commission Expires March 9, 2024

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.

12/30/2022

BIG245 Pad WW-4A Attachment**Surface Owners (All Disturbance):**

Wanda L. Byard
1250 Meadowland Dr.
Lewisport, KY 42351

Neal Utt
1204 Big Run Rd.
Burton, WV 26562

Ikey Joe Willey
12359 Willey Fork Rd.
Pine Grove, WV 26419

ET Blue Grass LLC
PO Box 6135
Pittsburgh, PA 15212-0135

Coal Owners:

WPP, LLC
5260 Irwin Road
Huntington, WV 25727-3247

Frances E Hartman (Fluharty) Heirs & Assigns
4337 5th Avenue
Pittsburgh, PA 15213

Coal Operator:

ACNR Resources, Inc.
46226 National Road
St. Clairsville, OH 43950

Operator of Any Natural Gas Storage Field:

Equitrans Midstream
c/o Gerald Smith
2200 Energy Drive
Canonsburg, PA 15317

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WANDA L. BYARD
1250 MEADOWLAND DR.
LEWISPORT, KY 42351

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City, State, ZIP+4®

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40-09 - BIG 245 WW4A NOTIFICATIONS

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1204 BIG RUN RD.
BURTON, WV 26562

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IKEY JOE WILLEY
12359 WILLEY FORK RD.
PINE GROVE, WV 26419

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ET BLUE GRASS LLC
PO BOX 6135
PITTSBURGH, PA 15212-0135

Street and Apt. No
City, State, ZIP+4®

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WPP, LLC
Street and Apt. No.
5260 IRWIN ROAD
City, State, ZIP+4®
HUNTINGTON, WV 25727-3247

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**FRANCES E HARTMAN (FLUHARTY)
HEIRS & ASSIGNS**
Street and Apt. No.
4337 5TH AVENUE
City, State, ZIP+4®
PITTSBURGH, PA 15213

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46226 NATIONAL ROAD
City, State, ZIP+4®
ST. CLAIRSVILLE, OH 43950

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C/O GERALD SMITH**
Street and Apt. No.
2200 ENERGY DRIVE
City, State, ZIP+4®
CANONSBURG, PA 15317

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12/30/2022

WW-9
(5/16)

API Number 47 - 103 - 03235
Operator's Well No. BIG245H16

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) Rockcamp Run of Wiley Fork Quadrangle Big Run 7.5'

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: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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Will closed loop system be used? If so, describe: _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _____

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Erin Spine

Company Official Title Manager - Subsurface Permitting

Subscribed and sworn before me this 8th day of November, 2022

[Signature] Notary Public

My commission expires March 9, 2024

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706

Member, Pennsylvania Association of Notaries
[Signature]

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH _____

Line 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

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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: Stephen Mccoy Digitally signed by Stephen Mccoy
Date: 2022.11.23 09:01:05 -05'00'

Comments: Seed and mulch all reclaimed/disturbed areas.

Title: WV Oil and Gas Inspector

Date: 11/23/22

Field Reviewed? () Yes (X) No

47 1 0 3 0 3 2 3 5

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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WW-7
8-30-06



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

API: 47-103-03235 WELL NO.: BIG 245 H16 (ET Blue Grass, LLC)

FARM NAME: BIG 245

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Big Run 7.5'

SURFACE OWNER: ET Blue Grass, LLC

ROYALTY OWNER: Shiben Estates, Inc.

UTM GPS NORTHING: 4382926

UTM GPS EASTING: 537027 GPS ELEVATION: 436 m (1430 ft)

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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.

Ben R. Shea P.S. 2092 12/21/21
Signature Title Date

12/30/2022

47 1 03 03 235



Site Pictures
ET Blue Grass, LLC
BIG 245 H16 47-103-03235

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BIG 245 H16 Well Pad Site

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

CHARLESTON OFFICE

301 R.H. Boulevard - Suite 5
Charleston, WV 25309

phone: 304-756-2949 fax: 304-756-2948

ALLEGHENYSURVEYS.COM

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4210303235

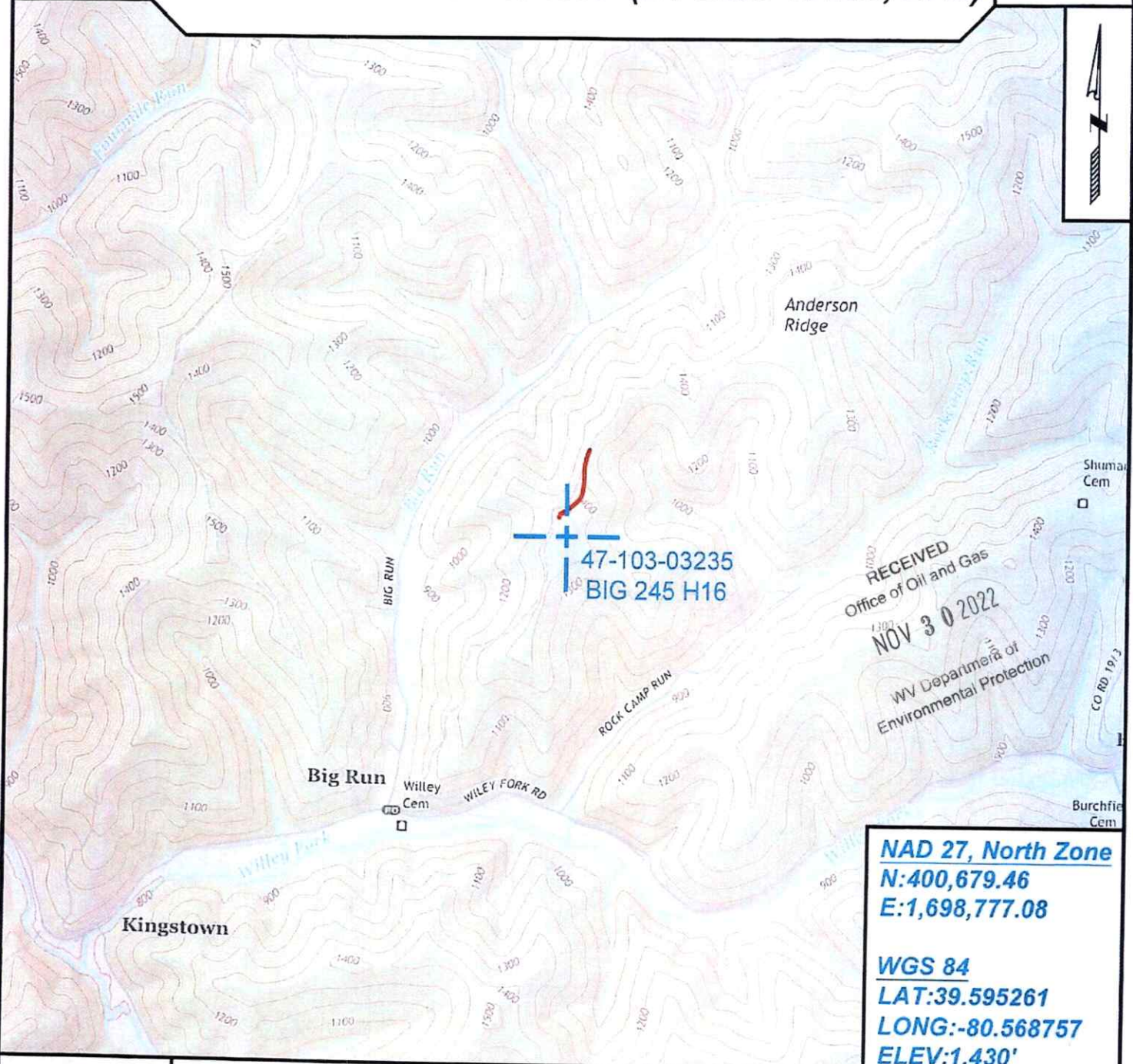
Topo Quad: Big Run 7.5' Scale: 1" = 2000'

County: Wetzel Date: December 21, 2021

District: Grant Project No: 40-34-00-09

47-103-03235 BIG 245 H16 (ET Blue Grass, LLC)

Topo



NAD 27, North Zone
N:400,679.46
E:1,698,777.08

WGS 84
LAT:39.595261
LONG:-80.568757
ELEV:1,430'



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

12/30/2022

**BIG245
BIG245H16
EQT PRODUCTION COMPANY**

BOTTOM HOLE LATITUDE 39°37'30"

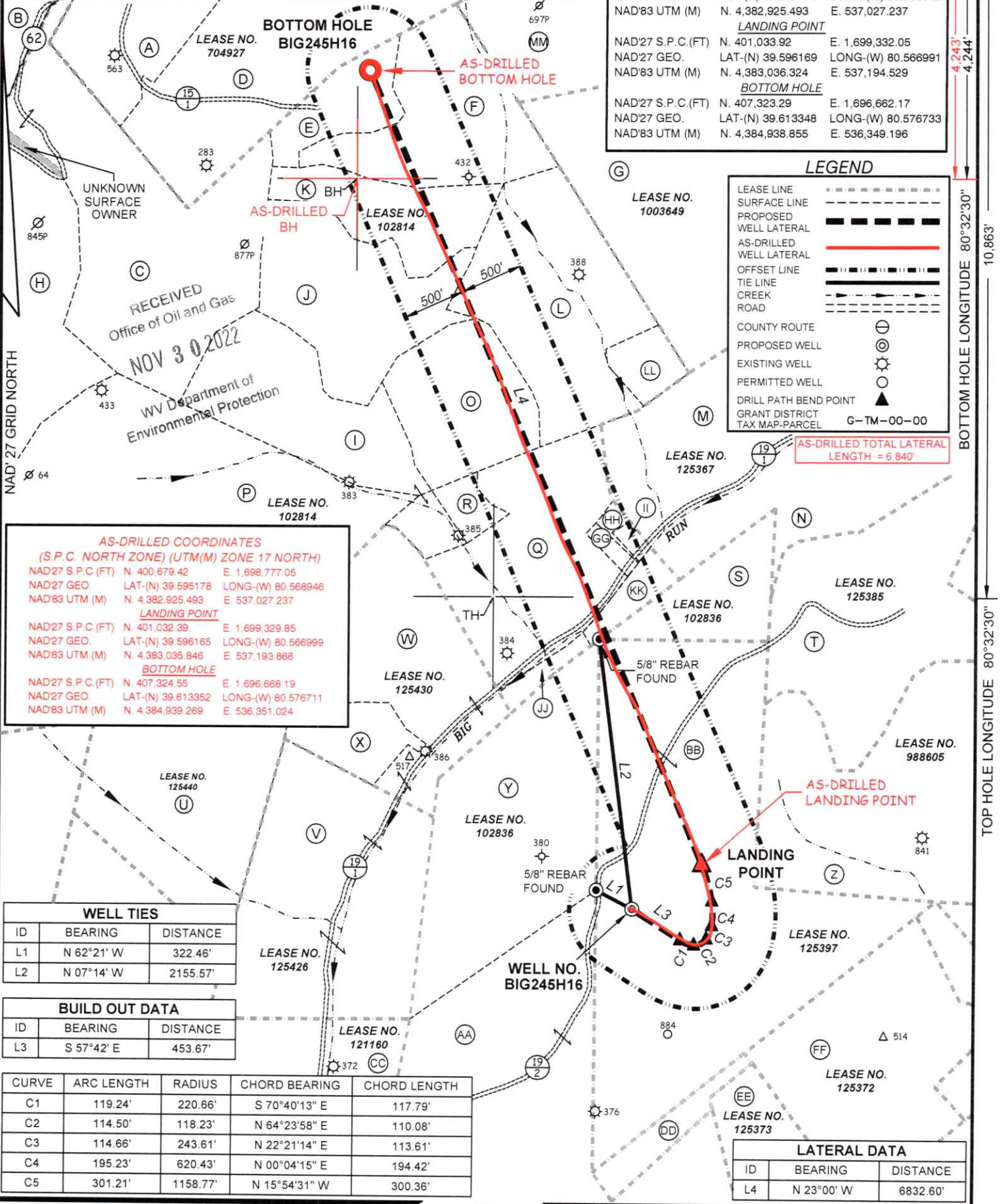
9.873'

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD27 S.P.C.(FT)	N. 400,679.42	E. 1,698,777.05
NAD27 GEO.	LAT-(N) 39.595178	LONG-(W) 80.566946
NAD83 UTM (M)	N. 4,382,925.493	E. 537,027.237
LANDING POINT		
NAD27 S.P.C.(FT)	N. 401,033.92	E. 1,699,332.05
NAD27 GEO.	LAT-(N) 39.596169	LONG-(W) 80.566991
NAD83 UTM (M)	N. 4,383,036.324	E. 537,194.529
BOTTOM HOLE		
NAD27 S.P.C.(FT)	N. 407,323.29	E. 1,696,662.17
NAD27 GEO.	LAT-(N) 39.613348	LONG-(W) 80.576733
NAD83 UTM (M)	N. 4,384,938.855	E. 536,349.196

LEGEND

LEASE LINE	---
SURFACE LINE	----
PROPOSED WELL LATERAL	=====
AS-DRILLED WELL LATERAL	=====
OFFSET LINE	-----
TIE LINE	-----
CREEK	~~~~~
ROAD	-----
COUNTY ROUTE	⊖
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
DRILL PATH BEND POINT	▲
GRANT DISTRICT TAX MAP-PARCEL	G-TM-00-00



AS-DRILLED COORDINATES
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD27 S.P.C.(FT)	N. 400,679.42	E. 1,698,777.05
NAD27 GEO.	LAT-(N) 39.595178	LONG-(W) 80.566946
NAD83 UTM (M)	N. 4,382,925.493	E. 537,027.237
LANDING POINT		
NAD27 S.P.C.(FT)	N. 401,032.39	E. 1,699,329.85
NAD27 GEO.	LAT-(N) 39.596165	LONG-(W) 80.566999
NAD83 UTM (M)	N. 4,383,035.846	E. 537,193.868
BOTTOM HOLE		
NAD27 S.P.C.(FT)	N. 407,324.55	E. 1,696,668.19
NAD27 GEO.	LAT-(N) 39.613352	LONG-(W) 80.576711
NAD83 UTM (M)	N. 4,384,939.269	E. 536,351.024

WELL TIES

ID	BEARING	DISTANCE
L1	N 62°21' W	322.46'
L2	N 07°14' W	2155.57'

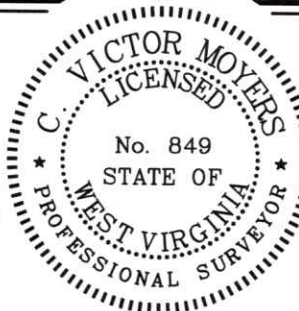
BUILD OUT DATA

ID	BEARING	DISTANCE
L3	S 57°42' E	453.67'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	119.24'	220.66'	S 70°40'13" E	117.79'
C2	114.50'	118.23'	N 64°23'58" E	110.08'
C3	114.66'	243.61'	N 22°21'14" E	113.61'
C4	195.23'	620.43'	N 00°04'15" E	194.42'
C5	301.21'	1158.77'	N 15°54'31" W	300.36'

LATERAL DATA

ID	BEARING	DISTANCE
L4	N 23°00' W	6832.60'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 FILE NO. 7812PBIG245H16AD.dwg SCALE 1"=1000'
 DATE JUNE 14, 2019
 REVISED _____
 OPERATORS WELL NO. BIG245H16

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 C. Victor Moyers

API WELL NO. **47 - 103 - 03235**
 STATE COUNTY PERMIT

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



WELL OPERATOR EQT PRODUCTION COMPANY
 ADDRESS 2400 ANSYS DRIVE, SUITE 200
 CANONSBURG, PA 15317

DESIGNATED AGENT JASON RANSON
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280
 BRIDGEPORT, WV 26330

BOTTOM HOLE LONGITUDE 80°32'30"
 TOP HOLE LONGITUDE 80°32'30"
 COUNTY NAME
 PERMIT

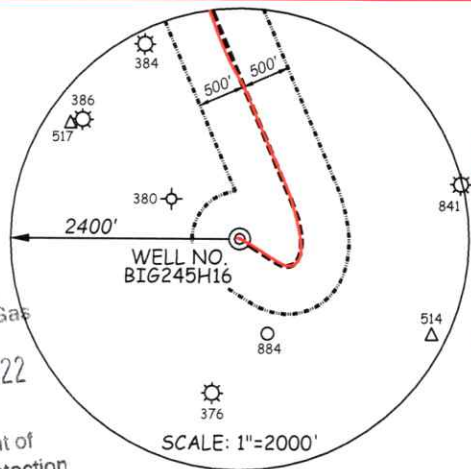
BIG245
BIG245H16
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°37'30"

9,873'

9,879'

Table with columns: TAG, TM-PAR., SURFACE OWNERS, ACRES. Lists various land parcels and owners.



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AS-DRILLED COORDINATES (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH). Includes NAD27 S.P.C.(FT), NAD27 GEO, NAD83 UTM (M) for LANDING POINT and BOTTOM HOLE.

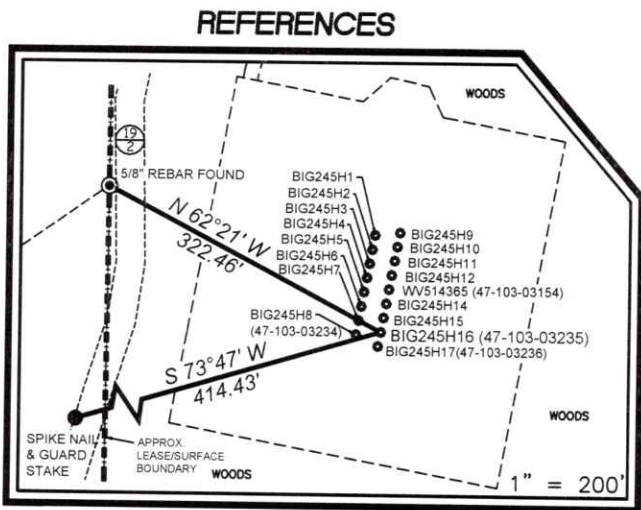
ROYALTY OWNERS table with columns: OWNER, ACRES, LEASE NO.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH). Includes NAD27 S.P.C.(FT), NAD27 GEO, NAD83 UTM (M) for LANDING POINT and BOTTOM HOLE.

AS-DRILLED TOTAL LATERAL LENGTH = 6,840'

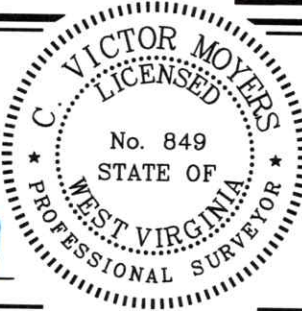
NOTES ON SURVEY

- 1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL...
2. WELL SPOT CIRCLE (SHEET 1) AND TOPO MARK SCALE IS 1" = 2000'.
3. AS DRILLED INFORMATION PROVIDED BY EQT.



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 [Signature]



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. DATE JUNE 14, 20 19. OPERATORS WELL NO. BIG245H16. API WELL NO. 47-103-03235. STATE COUNTY PERMIT.

MINIMUM DEGREE OF ACCURACY 1/2500. FILE NO. 7812PBIG245H16AD.dwg. HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK).

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X. LOCATION: PAD ELEVATION 1430', WATERSHED ROCKCAMP RUN OF WILLEY FORK, DISTRICT GRANT, COUNTY WETZEL, QUADRANGLE BIG RUN 7.5'. SURFACE OWNER ET BLUE GRASS, LLC. ROYALTY OWNER SHIBEN ESTATES, INC. PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___. PHYSICAL CHANGE IN WELL (SPECIFY) ___. TARGET FORMATION MARCELLUS. ESTIMATED DEPTH 7531'.

WELL OPERATOR EQT PRODUCTION COMPANY. ADDRESS 2400 ANSYS DRIVE, SUITE 200 CANONSBURG, PA 15317. DESIGNATED AGENT JASON RANSON. ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330.

COUNTY NAME PERMIT



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Actual Wellpath Report

Big 245 515609 AWP Proj: 14986'

Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 515609
Area	Wetzel County, WV	Well	Big 245 515609
Field	Wetzel	Wellbore	Big 245 515609 AWB
Facility	Big 245 Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US			Software System	WellArchitect® 5.1
North Reference	feet			User	Edsaryar
Scale	Grid			Report Generated	11/Jan/2019 at 09:30
Convergence at slot	0.68° West			Database/Source file	WA_MPL_EASTERNUS Defn/Big_245_515609_AWP_Proj_14986_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-44.20	-8.20	1698777.08	400679.46	39°35'42.641"N	80°34'08.204"W
Facility Reference Pt			1698785.28	400723.66	39°35'43.079"N	80°34'08.106"W
Field Reference Pt			1688243.35	385255.46	39°33'08.944"N	80°36'20.337"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 578 (RKB) to Facility Vertical Datum	1455.00ft
Horizontal Reference Pt	Slot	Patterson 578 (RKB) to Mean Sea Level	1455.00ft
Vertical Reference Pt	Patterson 578 (RKB)	Patterson 578 (RKB) to Mud Line at Slot (Slot 515609)	25.00ft
MD Reference Pt	Patterson 578 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	342.34°

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Actual Wellpath Report

Big 245 515609 AWP Proj: 14986'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 515609
Area	Wetzel County, WV	Well	Big 245 515609
Field	Wetzel	Wellbore	Big 245 515609 AWB
Facility	Big 245 Pad		

WELLPATH DATA (160 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert.Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
0.00	0.00	147.710	0.00	0.00	0.00	0.00	1698777.08	400679.46	39°35'42.641"N	80°34'08.204"W	0.00	0.000	0.00	0.00	0.00
25.00	0.00	147.710	25.00	0.00	0.00	0.00	1698777.08	400679.46	39°35'42.641"N	80°34'08.204"W	0.00	0.000	0.00	0.00	0.00
112.00	0.040	147.710	112.00	-0.03	-0.03	0.02	1698777.10	400679.43	39°35'42.640"N	80°34'08.204"W	0.03	147.710	0.05	0.05	169.78
212.00	0.060	325.030	212.00	-0.01	-0.01	0.00	1698777.08	400679.45	39°35'42.641"N	80°34'08.204"W	0.01	158.397	0.10	0.02	177.32
312.00	0.070	97.910	312.00	0.01	0.02	0.04	1698777.12	400679.48	39°35'42.641"N	80°34'08.204"W	0.04	57.846	0.12	0.01	132.88
412.00	0.050	160.260	412.00	-0.06	-0.03	0.11	1698777.19	400679.43	39°35'42.640"N	80°34'08.203"W	0.11	103.841	0.06	-0.02	62.35
512.00	0.020	323.620	512.00	-0.09	-0.05	0.11	1698777.19	400679.41	39°35'42.640"N	80°34'08.203"W	0.13	115.265	0.07	-0.03	163.36
612.00	0.050	120.020	612.00	-0.10	-0.06	0.14	1698777.22	400679.40	39°35'42.640"N	80°34'08.202"W	0.16	113.542	0.07	0.03	156.40
712.00	0.120	226.940	712.00	-0.18	-0.16	0.10	1698777.18	400679.30	39°35'42.639"N	80°34'08.203"W	0.19	146.286	0.14	0.07	106.92
812.00	0.160	246.660	812.00	-0.24	-0.28	-0.10	1698776.98	400679.18	39°35'42.638"N	80°34'08.205"W	0.30	199.699	0.06	0.04	19.72
912.00	0.090	278.930	912.00	-0.22	-0.33	-0.31	1698776.77	400679.13	39°35'42.637"N	80°34'08.208"W	0.45	223.324	0.10	-0.07	32.27
1012.00	0.030	319.120	1012.00	-0.14	-0.28	-0.41	1698776.67	400679.18	39°35'42.638"N	80°34'08.209"W	0.50	235.849	0.06	-0.04	40.19
1112.00	0.030	225.680	1112.00	-0.11	-0.27	-0.46	1698776.52	400679.19	39°35'42.638"N	80°34'08.210"W	0.53	240.027	0.06	-0.02	-93.44
1212.00	0.090	275.300	1212.00	-0.09	-0.28	-0.56	1698776.62	400679.18	39°35'42.638"N	80°34'08.211"W	0.62	243.610	0.07	0.06	49.62
1312.00	0.030	46.630	1312.00	-0.05	-0.25	-0.62	1698776.46	400679.21	39°35'42.638"N	80°34'08.212"W	0.67	247.823	0.11	-0.06	131.33
1412.00	0.170	253.590	1412.00	-0.04	-0.28	-0.74	1698776.34	400679.18	39°35'42.638"N	80°34'08.213"W	0.79	249.593	0.20	0.14	-153.04
1512.00	0.540	281.720	1512.00	0.20	-0.22	-1.34	1698775.74	400679.24	39°35'42.638"N	80°34'08.221"W	1.36	260.643	0.40	0.37	28.13
1612.00	0.760	286.160	1611.99	0.80	0.06	-2.44	1698774.64	400679.52	39°35'42.641"N	80°34'08.235"W	2.44	271.383	0.23	0.22	4.44
1712.00	0.810	293.820	1711.98	1.63	0.53	-3.73	1698773.35	400679.99	39°35'42.646"N	80°34'08.252"W	3.76	278.082	0.12	0.05	7.66
1812.00	0.810	291.940	1811.97	2.55	1.08	-5.03	1698772.05	400680.54	39°35'42.651"N	80°34'08.268"W	5.14	282.108	0.03	0.00	-1.88
1912.00	0.860	304.510	1911.96	3.60	1.77	-6.30	1698770.78	400681.23	39°35'42.657"N	80°34'08.285"W	6.54	285.670	0.19	0.05	12.57
2012.00	0.790	311.790	2011.95	4.78	2.65	-7.43	1698769.65	400682.11	39°35'42.666"N	80°34'08.299"W	7.89	289.636	0.13	-0.07	7.28
2112.00	0.590	319.570	2111.94	5.85	3.50	-8.28	1698768.80	400682.96	39°35'42.674"N	80°34'08.310"W	8.99	292.931	0.22	-0.20	7.78
2212.00	0.600	315.680	2211.94	6.79	4.27	-8.98	1698768.10	400683.73	39°35'42.682"N	80°34'08.319"W	9.95	295.428	0.04	0.01	-3.89
2312.00	0.460	302.900	2311.93	7.57	4.86	-9.68	1698767.40	400684.32	39°35'42.688"N	80°34'08.329"W	10.84	296.662	0.18	-0.14	-12.78
2412.00	0.420	307.890	2411.93	8.18	5.31	-10.31	1698766.77	400684.77	39°35'42.692"N	80°34'08.337"W	11.60	297.231	0.06	-0.04	4.99
2512.00	0.400	325.740	2511.93	8.82	5.82	-10.80	1698766.28	400685.28	39°35'42.697"N	80°34'08.343"W	12.27	298.326	0.13	-0.02	17.85
2612.00	0.420	329.930	2611.93	9.51	6.43	-11.18	1698765.90	400685.88	39°35'42.703"N	80°34'08.348"W	12.89	299.894	0.04	0.02	4.19
2712.00	0.380	331.680	2711.92	10.20	7.03	-11.52	1698765.56	400686.49	39°35'42.709"N	80°34'08.352"W	13.50	301.414	0.04	-0.04	1.75
2812.00	0.330	309.970	2811.92	10.77	7.51	-11.90	1698765.18	400686.97	39°35'42.714"N	80°34'08.357"W	14.07	302.270	0.14	-0.05	-21.71

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Actual Wellpath Report

Big 245 515609 AWP Proj: 14986'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT
Area	Wetzel County, WV
Field	Wetzel
Facility	Big 245 Pad
Slot	Slot 515609
Well	Big 245 515609
Wellbore	Big 245 515609 AWB

WELLPATH DATA (160 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
2912.00	0.330	294.350	2911.92	11.20	7.82	-12.38	1698764.70	400687.27	39°35'42.717"N	80°34'08.363"W	14.64	302.265	0.09	0.00	-15.62
3012.00	0.390	283.700	3011.92	11.57	8.01	-12.97	1698764.11	400687.47	39°35'42.718"N	80°34'08.371"W	15.25	301.709	0.09	0.06	-10.65
3112.00	0.390	281.240	3111.92	11.91	8.16	-13.64	1698763.44	400687.62	39°35'42.720"N	80°34'08.380"W	15.89	300.901	0.02	0.00	-2.46
3212.00	0.410	288.680	3211.91	12.29	8.34	-14.31	1698762.77	400687.80	39°35'42.722"N	80°34'08.388"W	16.56	300.242	0.06	0.02	7.44
3312.00	0.450	267.490	3311.91	12.60	8.44	-15.04	1698762.04	400687.90	39°35'42.722"N	80°34'08.397"W	17.25	299.298	0.16	0.04	-21.19
3412.00	0.530	261.660	3411.91	12.78	8.36	-15.89	1698761.19	400687.81	39°35'42.721"N	80°34'08.408"W	17.95	297.736	0.09	0.08	-5.83
3512.00	0.550	258.450	3511.90	12.91	8.19	-16.82	1698760.26	400687.65	39°35'42.720"N	80°34'08.420"W	18.71	295.971	0.04	0.02	-3.21
3612.00	0.490	260.600	3611.90	13.02	8.03	-17.71	1698759.37	400687.49	39°35'42.718"N	80°34'08.432"W	19.44	294.380	0.06	-0.06	2.15
3712.00	0.350	266.450	3711.89	13.16	7.94	-18.44	1698758.64	400687.40	39°35'42.717"N	80°34'08.441"W	20.07	293.293	0.15	-0.14	5.85
3812.00	0.340	265.020	3811.89	13.30	7.89	-19.04	1698758.04	400687.35	39°35'42.717"N	80°34'08.448"W	20.61	292.519	0.01	-0.01	-1.43
3912.00	0.320	272.530	3911.89	13.46	7.88	-19.61	1698757.47	400687.34	39°35'42.716"N	80°34'08.456"W	21.14	291.889	0.05	-0.02	7.51
4012.00	0.340	266.280	4011.89	13.63	7.87	-20.19	1698756.89	400687.33	39°35'42.716"N	80°34'08.463"W	21.67	291.305	0.04	0.02	-6.25
4112.00	0.420	267.210	4111.89	13.79	7.84	-20.85	1698756.23	400687.29	39°35'42.716"N	80°34'08.472"W	22.27	290.597	0.08	0.08	0.93
4212.00	0.440	273.160	4211.88	14.02	7.84	-21.60	1698755.48	400687.30	39°35'42.716"N	80°34'08.481"W	22.98	289.947	0.05	0.02	5.95
4312.00	0.490	280.140	4311.88	14.36	7.94	-22.40	1698754.68	400687.39	39°35'42.717"N	80°34'08.491"W	23.77	289.504	0.08	0.05	6.98
4412.00	0.490	292.010	4411.88	14.83	8.17	-23.22	1698753.86	400687.63	39°35'42.719"N	80°34'08.502"W	24.62	289.386	0.10	0.00	11.87
4512.00	0.400	312.080	4511.87	15.40	8.56	-23.88	1698753.21	400688.02	39°35'42.723"N	80°34'08.510"W	25.37	289.734	0.18	-0.09	20.07
4612.00	0.370	341.650	4611.87	16.03	9.11	-24.24	1698752.85	400688.56	39°35'42.728"N	80°34'08.515"W	25.89	290.590	0.20	-0.03	29.57
4712.00	0.390	357.860	4711.87	16.68	9.75	-24.35	1698752.73	400689.21	39°35'42.734"N	80°34'08.517"W	26.23	291.825	0.11	0.02	16.21
4812.00	0.480	42.650	4811.87	17.21	10.40	-24.08	1698753.00	400689.86	39°35'42.741"N	80°34'08.513"W	26.23	293.360	0.34	0.09	44.79
4912.00	0.520	63.680	4911.86	17.49	10.91	-23.39	1698753.69	400690.37	39°35'42.746"N	80°34'08.504"W	25.81	295.006	0.19	0.04	21.03
5012.00	0.530	67.260	5011.86	17.60	11.29	-22.56	1698754.53	400690.75	39°35'42.750"N	80°34'08.494"W	25.22	296.588	0.03	0.01	3.58
5112.00	0.520	68.090	5111.86	17.67	11.64	-21.71	1698755.37	400691.10	39°35'42.753"N	80°34'08.483"W	24.63	298.195	0.01	-0.01	0.83
5212.00	0.620	69.720	5211.85	17.73	11.99	-20.78	1698756.30	400691.45	39°35'42.757"N	80°34'08.471"W	23.99	299.994	0.10	0.10	1.63
5312.00	0.570	81.820	5311.85	17.68	12.25	-19.78	1698757.30	400691.71	39°35'42.760"N	80°34'08.459"W	23.27	301.776	0.13	-0.05	12.10
5412.00	0.510	91.170	5411.84	17.45	12.31	-18.84	1698758.24	400691.77	39°35'42.760"N	80°34'08.447"W	22.51	303.166	0.11	-0.06	9.35
5512.00	0.380	106.310	5511.84	17.12	12.21	-18.08	1698759.00	400691.67	39°35'42.759"N	80°34'08.437"W	21.82	304.038	0.17	-0.13	15.14
5612.00	0.310	85.550	5611.84	16.87	12.14	-17.49	1698759.59	400691.60	39°35'42.759"N	80°34'08.429"W	21.29	304.762	0.14	-0.07	-20.76
5712.00	0.260	72.680	5711.84	16.81	12.23	-17.01	1698760.08	400691.69	39°35'42.760"N	80°34'08.423"W	20.95	305.720	0.08	-0.05	-12.87
5812.00	0.300	85.490	5811.83	16.75	12.32	-16.53	1698760.55	400691.78	39°35'42.761"N	80°34'08.417"W	20.61	306.694	0.07	0.04	12.81

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Big 245 515609 AWP Proj: 14986'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 515609
Area	Wetzel County, WV	Well	Big 245 515609
Field	Wetzel	Wellbore	Big 245 515609 AWB
Facility	Big 245 Pad		

WELLPATH DATA (160 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
5888.00	0.370	119.820	5887.83	16.52	12.21	-16.12	1698760.96	400691.67	39°35'42.760"N	80°34'08.412"W	20.22	307.149	0.27	0.09	45.17
5945.00	0.310	94.430	5944.83	16.33	12.11	-15.80	1698761.28	400691.57	39°35'42.759"N	80°34'08.408"W	19.91	307.456	0.28	-0.11	-44.54
5983.00	1.620	108.010	5982.83	15.98	11.93	-15.19	1698761.89	400691.39	39°35'42.757"N	80°34'08.400"W	19.32	308.153	3.48	3.45	35.74
6030.00	5.940	107.300	6029.71	14.20	11.00	-12.23	1698764.85	400690.46	39°35'42.748"N	80°34'08.362"W	16.45	311.968	9.19	9.19	-1.51
6078.00	9.700	107.060	6077.26	10.47	9.08	-6.00	1698771.09	400688.54	39°35'42.730"N	80°34'08.282"W	10.88	326.560	7.83	7.83	-0.50
6174.00	16.700	117.920	6170.68	-4.01	0.23	13.95	1698791.03	400679.69	39°35'42.645"N	80°34'08.026"W	13.95	89.037	7.70	7.29	11.31
6268.00	22.070	124.490	6259.33	-27.62	-16.10	40.46	1698817.54	400663.36	39°35'42.486"N	80°34'07.685"W	43.55	111.701	6.16	5.71	6.99
6363.00	30.100	119.080	6344.59	-59.12	-37.83	76.06	1698853.13	400641.64	39°35'42.276"N	80°34'07.227"W	84.94	116.443	8.81	8.45	-5.69
6457.00	38.320	119.150	6422.26	-97.60	-63.52	122.19	1698899.26	400615.94	39°35'42.027"N	80°34'06.634"W	137.71	117.469	8.74	8.74	0.07
6552.00	43.590	120.750	6493.98	-143.60	-94.64	176.10	1698953.16	400584.83	39°35'41.726"N	80°34'05.940"W	199.91	118.254	5.66	5.55	1.68
6647.00	43.690	123.580	6562.74	-193.68	-129.53	231.58	1699008.65	400549.94	39°35'41.388"N	80°34'05.226"W	265.35	119.220	2.06	0.11	2.98
6742.00	43.760	123.180	6631.39	-244.74	-165.66	286.41	1699063.48	400513.81	39°35'41.037"N	80°34'04.520"W	330.87	120.045	0.30	0.07	-0.42
6838.00	43.570	121.340	6700.84	-295.45	-201.04	342.46	1699119.52	400478.43	39°35'40.694"N	80°34'03.799"W	397.11	120.415	1.34	-0.20	-1.92
6932.00	41.090	120.800	6770.33	-343.03	-233.71	396.67	1699173.72	400445.77	39°35'40.378"N	80°34'03.102"W	460.40	120.506	2.67	-2.64	-0.57
7027.00	32.350	116.390	6846.42	-384.16	-261.05	446.36	1699223.41	400418.43	39°35'40.113"N	80°34'02.463"W	517.09	120.321	9.60	-9.20	-4.64
7123.00	28.280	102.210	6929.38	-413.39	-277.30	491.67	1699268.72	400402.17	39°35'39.958"N	80°34'01.882"W	564.48	119.423	8.55	-4.24	-14.77
7218.00	27.240	76.630	7013.75	-426.27	-277.03	534.97	1699312.02	400402.44	39°35'39.966"N	80°34'01.329"W	602.45	117.377	12.51	-1.09	-26.93
7313.00	27.310	59.410	7098.32	-423.02	-260.89	574.95	1699351.99	400418.59	39°35'40.130"N	80°34'00.821"W	631.37	114.407	8.28	0.07	-18.13
7408.00	30.130	37.030	7181.86	-404.30	-230.67	608.17	1699385.21	400448.80	39°35'40.433"N	80°34'00.401"W	650.45	110.771	11.64	2.97	-23.56
7502.00	35.080	18.530	7261.22	-368.75	-186.09	631.04	1699408.08	400493.38	39°35'40.876"N	80°34'00.115"W	657.90	106.430	11.79	5.27	-19.68
7597.00	42.750	4.400	7335.23	-316.66	-127.85	642.22	1699419.26	400551.61	39°35'41.453"N	80°33'59.981"W	654.83	101.259	12.31	8.07	-14.87
7691.00	52.200	355.960	7398.76	-250.78	-58.77	642.05	1699419.09	400620.69	39°35'42.135"N	80°33'59.994"W	644.74	95.230	12.02	10.05	-8.98
7786.00	60.920	351.060	7451.08	-173.09	19.86	632.94	1699409.98	400699.32	39°35'42.911"N	80°34'00.122"W	633.25	88.203	10.13	9.18	-5.16
7881.00	70.210	347.150	7490.35	-87.31	104.65	616.50	1699393.55	400784.11	39°35'43.747"N	80°34'00.627"W	625.32	80.366	10.47	9.78	-4.12
7976.00	74.290	345.950	7519.31	2.91	192.63	595.45	1699372.50	400872.08	39°35'44.614"N	80°34'00.345"W	625.84	72.074	4.46	4.29	-1.26
8071.00	80.000	345.310	7540.43	95.34	282.31	572.47	1699349.52	400961.75	39°35'45.498"N	80°34'00.935"W	638.30	63.750	6.05	6.01	-0.67
8166.00	87.010	343.590	7551.17	189.60	373.18	547.18	1699324.22	401052.62	39°35'46.393"N	80°34'01.271"W	662.32	55.705	7.59	7.38	-1.81
8216.00	90.250	342.580	7552.37	239.57	421.00	532.63	1699309.68	401100.43	39°35'46.864"N	80°34'01.464"W	678.92	51.677	6.79	6.48	-2.02
8261.00	90.340	341.050	7552.14	284.57	463.75	518.59	1699295.64	401143.18	39°35'47.285"N	80°34'01.650"W	695.70	48.195	3.41	0.20	-3.40
8356.00	90.220	337.030	7551.67	379.39	552.44	484.61	1699261.66	401231.87	39°35'48.157"N	80°34'02.098"W	734.88	41.258	4.23	-0.13	-4.23

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Big 245 515609 AWP Proj: 14986'

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REFERENCE WELLPATH IDENTIFICATION

Operator	IEQT	Slot	Slot 515609
Area	Wetzel County, WV	Well	Big 245 515609
Field	Wetzel	Wellbore	Big 245 515609 AWB
Facility	Big 245 Pad		

WELLPATH DATA (160 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
8451.00	90.580	335.240	7551.01	473.83	639.31	446.18	1699223.23	401318.74	39°35'49.011"N	80°34'02.602"W	779.62	34.911	1.92	0.38	-1.88
8546.00	90.460	335.930	7550.15	568.16	725.82	406.92	1699183.97	401405.23	39°35'49.861"N	80°34'03.117"W	832.10	29.276	0.74	-0.13	0.73
8640.00	90.550	335.590	7549.32	661.54	811.52	368.33	1699145.38	401490.93	39°35'50.704"N	80°34'03.623"W	891.20	24.412	0.37	0.10	-0.36
8736.00	90.460	335.930	7548.47	756.91	899.06	328.91	1699105.97	401578.46	39°35'51.564"N	80°34'04.139"W	957.33	20.095	0.37	-0.09	0.35
8830.00	90.650	336.670	7547.56	850.38	985.12	291.13	1699068.19	401664.52	39°35'52.410"N	80°34'04.635"W	1027.24	16.464	0.81	0.20	0.79
8926.00	90.320	336.910	7546.58	945.92	1073.35	253.30	1699030.36	401752.74	39°35'53.278"N	80°34'05.132"W	1102.83	13.278	0.28	-0.14	0.25
9021.00	90.460	337.010	7545.77	1040.50	1160.77	216.12	1698993.19	401840.16	39°35'54.137"N	80°34'05.620"W	1180.72	10.547	0.12	-0.06	0.11
9117.00	90.490	337.100	7544.97	1136.09	1249.17	178.70	1698955.77	401928.55	39°35'55.007"N	80°34'06.111"W	1261.89	8.141	0.10	0.03	0.09
9211.00	90.460	337.620	7544.19	1229.73	1335.92	142.51	1698919.59	402015.30	39°35'55.860"N	80°34'06.587"W	1343.50	6.089	0.55	-0.03	0.55
9307.00	90.370	336.480	7543.45	1325.41	1424.73	106.06	1698883.13	402104.10	39°35'56.733"N	80°34'07.066"W	1428.67	4.257	0.13	-0.03	0.13
9401.00	90.430	336.480	7542.79	1419.02	1511.32	69.50	1698846.57	402190.69	39°35'57.585"N	80°34'07.546"W	1512.92	2.633	1.34	-0.06	-1.34
9496.00	90.550	332.130	7542.03	1513.06	1596.90	28.32	1698805.39	402276.27	39°35'58.425"N	80°34'08.085"W	1597.16	1.016	4.58	0.19	-4.58
9592.00	89.660	328.410	7541.85	1606.92	1680.25	-19.28	1698757.80	402359.61	39°35'59.244"N	80°34'08.706"W	1680.36	359.343	3.98	-0.93	-3.88
9686.00	90.250	330.020	7541.93	1698.46	1761.00	-67.39	1698709.69	402440.36	39°36'00.036"N	80°34'09.333"W	1762.29	357.808	1.82	0.63	1.71
9781.00	90.060	333.170	7541.67	1791.78	1844.56	-112.58	1698664.51	402523.90	39°36'00.856"N	80°34'09.923"W	1847.99	356.507	3.32	-0.20	3.32
9875.00	90.340	334.630	7541.34	1884.76	1928.97	-153.93	1698623.16	402608.31	39°36'01.686"N	80°34'10.464"W	1935.10	355.438	1.58	0.30	1.55
9970.00	90.340	336.180	7540.78	1979.06	2015.34	-193.47	1698583.62	402694.68	39°36'02.535"N	80°34'10.982"W	2024.61	354.517	1.63	0.00	1.63
10065.00	90.460	338.800	7540.11	2073.71	2103.10	-229.83	1698547.26	402782.43	39°36'03.398"N	80°34'11.460"W	2115.62	353.763	2.76	0.13	2.76
10160.00	90.490	340.810	7539.33	2168.61	2192.25	-262.63	1698514.47	402871.58	39°36'04.275"N	80°34'11.892"W	2207.92	353.169	2.12	0.03	2.12
10255.00	89.480	339.810	7539.35	2263.55	2281.69	-294.63	1698482.46	402961.01	39°36'05.155"N	80°34'12.315"W	2300.64	352.642	1.50	-1.06	-1.06
10350.00	89.660	338.280	7540.06	2358.38	2370.40	-328.61	1698448.49	403049.72	39°36'06.028"N	80°34'12.762"W	2393.07	352.107	1.62	0.19	-1.61
10445.00	89.780	338.790	7540.53	2453.17	2458.81	-363.37	1698413.73	403138.12	39°36'06.897"N	80°34'13.220"W	2485.52	351.594	0.55	0.13	0.54
10540.00	89.630	338.990	7541.02	2548.00	2547.44	-397.58	1698379.52	403226.74	39°36'07.769"N	80°34'13.670"W	2578.28	351.129	0.26	-0.16	0.21
10635.00	89.910	337.270	7541.40	2642.74	2635.60	-432.97	1698344.14	403314.89	39°36'08.636"N	80°34'14.136"W	2670.92	350.671	1.83	0.29	-1.81
10731.00	90.150	333.470	7541.35	2738.01	2722.85	-472.97	1698304.14	403402.14	39°36'09.494"N	80°34'14.660"W	2763.62	350.146	3.97	0.25	-3.96
10826.00	90.000	331.810	7541.22	2831.65	2807.22	-516.63	1698260.48	403486.50	39°36'10.322"N	80°34'15.231"W	2854.36	349.572	1.75	-0.16	-1.75
10921.00	90.370	335.470	7540.92	2925.54	2892.32	-558.80	1698218.31	403571.61	39°36'11.158"N	80°34'15.782"W	2945.81	349.065	3.87	0.39	3.85
11016.00	90.280	337.740	7540.38	3020.06	2979.51	-596.52	1698180.59	403658.78	39°36'12.015"N	80°34'16.277"W	3038.63	348.679	2.39	-0.09	2.39
11110.00	90.620	338.240	7539.64	3113.78	3066.65	-631.75	1698145.37	403745.92	39°36'12.873"N	80°34'16.741"W	3131.05	348.360	0.64	0.36	0.53
11205.00	90.520	339.650	7538.70	3208.61	3155.30	-665.88	1698111.24	403834.57	39°36'13.745"N	80°34'17.190"W	3224.80	348.083	1.49	-0.11	1.48

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
11299.00	90.310	339.190	7538.01	3302.48	3243.30	-698.92	1698078.20	403922.56	39°36'14.610"N	80°34'17.626"W	3317.75	347.839	0.54	-0.22	-0.49
11394.00	90.340	338.130	7537.48	3397.29	3331.78	-733.49	1698043.64	404011.04	39°36'15.481"N	80°34'18.081"W	3411.57	347.584	1.12	0.03	-1.12
11489.00	90.340	338.110	7536.91	3492.03	3419.94	-768.89	1698008.24	404099.19	39°36'16.348"N	80°34'18.547"W	3505.31	347.329	0.02	0.00	-0.02
11584.00	89.510	336.160	7537.04	3586.63	3507.47	-805.80	1697971.33	404186.72	39°36'17.208"N	80°34'19.031"W	3598.84	347.061	2.23	-0.87	-2.05
11679.00	89.600	335.670	7537.77	3681.03	3594.20	-844.57	1697932.56	404273.44	39°36'18.061"N	80°34'19.540"W	3692.09	346.776	0.52	0.09	-0.52
11774.00	89.570	337.570	7538.46	3775.55	3681.39	-882.27	1697894.87	404360.62	39°36'18.918"N	80°34'20.035"W	3785.63	346.523	2.00	-0.03	2.00
11869.00	89.850	339.830	7538.94	3870.35	3769.89	-916.77	1697860.36	404449.12	39°36'19.789"N	80°34'20.489"W	3879.76	346.332	2.40	0.29	2.38
11964.00	89.750	340.620	7539.27	3965.28	3859.29	-948.91	1697828.23	404538.51	39°36'20.668"N	80°34'20.913"W	3974.24	346.186	0.84	-0.11	0.83
12059.00	89.720	340.490	7539.71	4060.24	3948.87	-980.54	1697796.60	404628.09	39°36'21.550"N	80°34'21.331"W	4068.79	346.055	0.14	-0.03	-0.14
12154.00	89.850	338.840	7540.07	4155.13	4037.95	-1013.55	1697763.59	404717.16	39°36'22.426"N	80°34'21.766"W	4163.21	345.910	1.74	0.14	-1.74
12250.00	90.180	339.280	7540.41	4250.97	4127.60	-1047.86	1697729.29	404806.81	39°36'23.308"N	80°34'22.218"W	4258.54	345.755	0.47	-0.10	0.46
12345.00	90.180	339.550	7540.46	4345.85	4216.54	-1081.26	1697695.89	404895.74	39°36'24.183"N	80°34'22.659"W	4352.97	345.617	0.53	0.45	0.28
12439.00	90.060	338.040	7540.27	4439.66	4304.17	-1115.26	1697661.89	404983.37	39°36'25.045"N	80°34'23.106"W	4446.31	345.473	1.61	-0.13	-1.61
12534.00	90.030	337.110	7540.19	4534.34	4391.99	-1151.50	1697625.65	405071.18	39°36'25.909"N	80°34'23.583"W	4540.43	345.309	0.98	-0.03	-0.98
12629.00	89.940	335.470	7540.22	4628.80	4478.96	-1189.70	1697587.46	405158.15	39°36'26.764"N	80°34'24.084"W	4634.28	345.125	1.73	-0.09	-1.73
12724.00	90.150	333.810	7540.14	4722.94	4564.81	-1230.39	1697546.77	405243.99	39°36'27.607"N	80°34'24.617"W	4727.72	344.915	1.76	0.22	-1.73
12819.00	90.090	336.250	7539.94	4817.16	4650.92	-1270.49	1697506.67	405330.10	39°36'28.454"N	80°34'25.142"W	4821.33	344.721	2.57	-0.06	2.57
12915.00	90.180	337.030	7539.72	4912.69	4739.05	-1308.55	1697468.61	405418.22	39°36'29.320"N	80°34'25.642"W	4916.39	344.564	0.82	0.09	0.81
13009.00	90.250	336.340	7539.36	5006.23	4825.37	-1345.75	1697431.41	405504.54	39°36'30.169"N	80°34'26.131"W	5009.52	344.417	0.74	0.07	-0.73
13104.00	90.150	335.920	7539.03	5100.67	4912.25	-1384.20	1697392.97	405591.41	39°36'31.023"N	80°34'26.635"W	5103.55	344.263	0.45	-0.11	-0.44
13199.00	90.310	336.510	7538.65	5195.13	4999.18	-1422.51	1697354.66	405678.33	39°36'31.877"N	80°34'27.138"W	5197.63	344.116	0.64	0.17	0.62
13294.00	90.280	334.310	7538.16	5289.43	5085.56	-1462.04	1697315.13	405764.70	39°36'32.726"N	80°34'27.656"W	5291.54	343.961	2.32	-0.03	-2.32
13389.00	90.370	334.560	7537.62	5383.52	5171.25	-1503.03	1697274.14	405850.40	39°36'33.568"N	80°34'28.193"W	5385.25	343.793	0.28	0.09	0.26
13483.00	90.150	336.110	7537.20	5476.82	5256.67	-1542.26	1697234.92	405935.81	39°36'34.408"N	80°34'28.707"W	5478.25	343.649	1.67	-0.23	1.65
13578.00	90.150	336.550	7536.95	5571.29	5343.68	-1580.40	1697196.78	406022.81	39°36'35.263"N	80°34'29.208"W	5572.67	343.524	0.46	0.00	0.46
13674.00	90.060	335.480	7536.77	5666.71	5431.39	-1619.42	1697157.76	406110.52	39°36'36.125"N	80°34'29.720"W	5667.48	343.398	1.12	-0.09	-1.11
13769.00	89.690	332.580	7536.98	5760.70	5516.79	-1661.02	1697116.16	406195.91	39°36'36.964"N	80°34'30.264"W	5761.42	343.244	3.08	-0.39	-3.05
13863.00	89.850	333.470	7537.36	5853.46	5600.56	-1703.65	1697073.53	406279.68	39°36'37.787"N	80°34'30.822"W	5853.95	343.081	0.96	0.17	0.95
13958.00	89.290	332.600	7538.07	5947.20	5685.23	-1746.73	1697030.46	406364.34	39°36'38.619"N	80°34'31.385"W	5947.51	342.921	1.09	-0.59	-0.92
14053.00	89.690	331.980	7538.92	6040.74	5769.33	-1790.90	1696986.29	406448.44	39°36'39.445"N	80°34'31.962"W	6040.90	342.755	0.78	0.42	-0.65

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Actual Wellpath Report

Big 245 515609 AWP Proj: 14986'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 515609
Area	Wetzel County, WV	Well	Big 245 515609
Field	Wetzel	Wellbore	Big 245 515609 AWP
Facility	Big 245 Pad		

WELLPATH DATA (160 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
14147.00	89.660	337.670	7539.45	6133.90	5854.36	-1830.87	1696946.32	406533.47	39°36'40.280"N	80°34'32.486"W	6133.98	342.634	6.05	-0.03	6.05
14243.00	89.750	337.700	7539.94	6229.58	5943.17	-1867.32	1696909.87	406622.27	39°36'41.154"N	80°34'32.965"W	6229.62	342.557	0.10	0.09	0.03
14338.00	90.090	338.440	7540.08	6324.31	6031.30	-1902.80	1696874.39	406710.39	39°36'42.020"N	80°34'33.432"W	6324.33	342.490	0.86	0.36	0.78
14433.00	90.060	342.530	7539.95	6419.24	6120.82	-1934.53	1696842.67	406799.91	39°36'42.901"N	80°34'33.851"W	6419.26	342.460	4.31	-0.03	4.31
14528.00	89.880	341.630	7540.00	6514.24	6211.21	-1963.76	1696813.44	406890.29	39°36'43.791"N	80°34'34.238"W	6514.25	342.455	0.97	-0.19	-0.95
14624.00	90.000	340.640	7540.10	6610.22	6302.05	-1994.80	1696782.40	406981.13	39°36'44.685"N	80°34'34.649"W	6610.23	342.436	1.04	0.13	-1.03
14720.00	89.850	340.260	7540.23	6706.17	6392.52	-2026.93	1696750.28	407071.59	39°36'45.575"N	80°34'35.073"W	6706.17	342.407	0.43	-0.16	-0.40
14815.00	90.000	341.720	7540.35	6801.14	6482.34	-2057.87	1696719.34	407161.40	39°36'46.459"N	80°34'35.482"W	6801.14	342.388	1.54	0.16	1.54
14910.00	89.940	342.930	7540.40	6896.14	6572.85	-2086.71	1696690.50	407251.91	39°36'47.351"N	80°34'35.864"W	6896.14	342.387	1.28	-0.06	1.27
14986.00	89.940	342.930	7540.48	6972.13	6645.50	-2109.02	1696668.19	407324.55	39°36'48.066"N	80°34'36.161"W	6972.13	342.393	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Big 245 515609 AWP Ref Wellpath: Big 245 515609 AWP Proj: 14986'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]
17.5in Open Hole	25.00	1191.00	1166.00	25.00	1191.00	0.00	0.00	0.00	-0.28
13.375in Casing Surface	25.00	1191.00	1166.00	25.00	1191.00	0.00	0.00	0.00	-0.28
12.25in Open Hole	1191.00	2869.00	1678.00	1191.00	2868.92	-0.28	-0.53	-0.53	-12.16
9.625in Casing Intermediate	25.00	2869.00	2844.00	25.00	2868.92	0.00	7.70	0.00	7.70
8.75in Open Hole	2869.00	5963.00	3094.00	2868.92	5962.83	7.70	7.70	-12.16	-12.16
8.5in Open Hole	5963.00	14986.00	9023.00	5962.83	7540.48	12.06	12.06	-15.61	-15.61
5.5in Casing Production	25.00	14986.00	14961.00	25.00	7540.48	0.00	6645.50	0.00	-2109.02

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Big 245 515609 AWP Proj: 14986'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 515609
Area	Wetzel County, WV	Well	Big 245 515609
Field	Wetzel	Wellbore	Big 245 515609 AWB
Facility	Big 245 Pad		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Big 245 515609 BHL Rev-1	7536.10	6644.24	-2115.04	1696662.17	407323.29	39°36'48.053"N	80°34'36.237"W	point
Big 245 515609 LP Rev-1	7546.00	354.48	555.00	1699332.05	401033.91	39°35'46.209"N	80°34'01.169"W	point
Big 245 HL1 Rev-1	7600.00	-2.80	-26.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon
Big 245 HL2 Rev-1	7600.00	-2.80	-26.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon
Big 245 HL3 Rev-1	7600.00	-2.80	-26.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon
Big 245 HL4 Rev-1	7600.00	-2.80	-26.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: Big 245 515609 AWB Ref Wellpath: Big 245 515609 AWP Proj: 14986'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	5888.00	Gyrodata standard - Continuous gyro		
5888.00	14910.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	01 Gyrodata Cont Gyro <8-3/4">(100'-5876')	Big 245 515609 AWB
14910.00	14986.00	Blind Drilling (std)	02 BH AT Curve + MagVar MSA <8-1/2">(5888')(-14910') Projection to bit	Big 245 515609 AWB
				Big 245 515609 AWB

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Actual Wellpath Report

Big 245 515609 AWP Proj: 14986'

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HUGHES**
a GE company

REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 515609
Area	Wetzel County, WV	Well	Big 245 515609
Field	Wetzel	Wellbore	Big 245 515609 AWB
Facility	Big 245 Pad		

COMMENTS

Wellpath general comments

API: 47-103-03235-0000
 BH Job #: 109788008
 Rig: Patterson 578
 Duration: 5/25/2019-5/28/2019
 Gyrodata Cont. Gyro <8-3/4"> (100'-5876')
 BH AT Curve+MagVar MSA <8-1/2"> (5888')(5945'-14910')
 Projected MD at TD: 14986'

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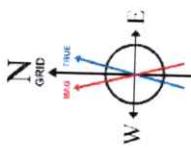
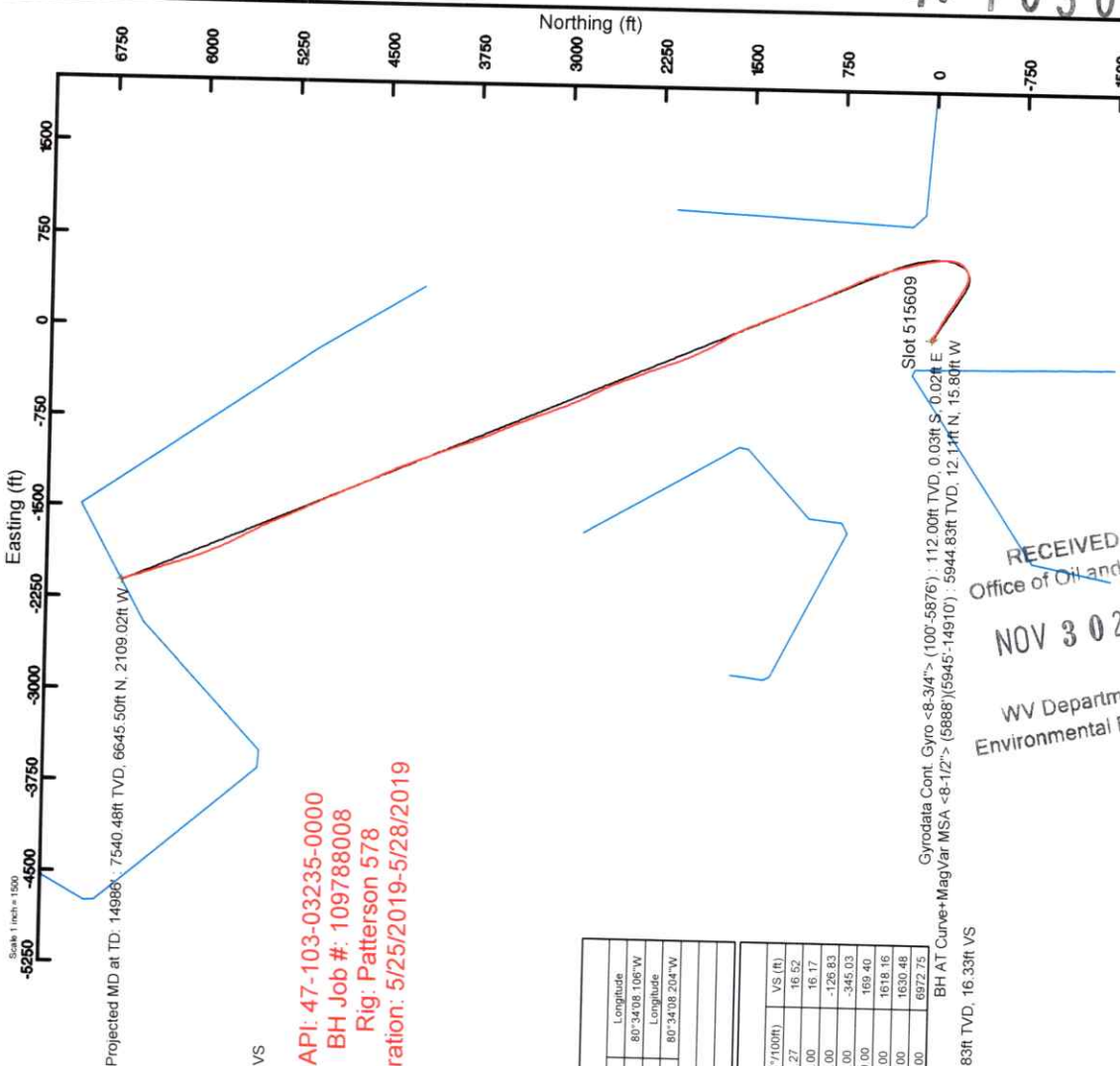
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Location: Wetzel County, WV
Facility: Wetzel
Facility: Big 245 Pad

Slot: Slot 515609
Well: Big 245 515609
Wellbore: Big 245 515609 PWB

Plot reference vertical is Big 245 515609 PWB Rev A.0
True vertical depths are referenced to Patterson 578 (RKB)
Measured depths are referenced to Patterson 578 (RKB)
Patterson 578 (RKB) to Mean Seal Level: 1450 feet
Mean Seal Level to Mud line (AI Slot 515609): 1430 feet
Contributors are in feet referenced to Slot
Grid System: NAD83 Lambert West Virginia SP Northern Zone (4301), US feet
North Reference: Grid north
Scale: True distance
Depth is in feet
Created by: echarger on 2019-05-11
Database: WVA_MPL_EASTERNMS_Data



API: 47-103-03235-0000
BH Job #: 109788008
Rig: Patterson 578
Duration: 5/25/2019-5/28/2019

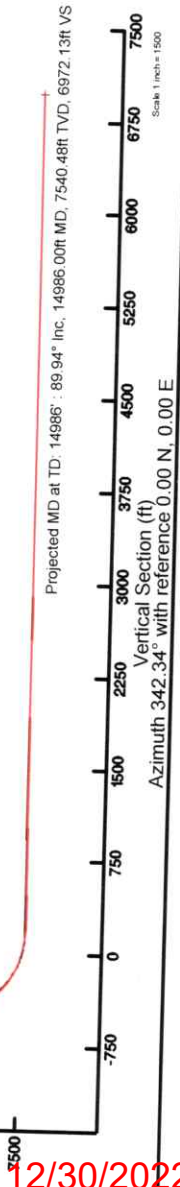
User specified (HDGM) Dip: 66.83° Field: 51994 rT
Magnetic North is 8.50 degrees West of True North (at 23/May/2019)
Grid North is 0.68 degrees West of True North
To correct azimuth from True to Grid add 0.68 degrees
To correct azimuth from Magnetic to Grid subtract 7.82 degrees

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Big 245 Pad	1698785.280	400723.660	80°34'08.100"W
Slot	Local E (ft)	Local N (ft)	Local S (ft)
Slot 515609	-44.20	-8.20	16.52
Patterson 578 (RKB) to Mud line (AI Slot 515609)	1698777.080	400679.460	80°34'08.204"W
Mean Sea Level to Mud line (AI Slot 515609)	25ft		
Patterson 578 (RKB) to Mean Seal Level	-1430ft		

Well Profile Data			
Design Comment	MD (ft)	Az (°)	TVD (ft)
The Oh	5886.00	0.370	119.820
PTB	5963.00	0.370	119.820
Hold	6483.61	42.018	123.339
KOP	6903.06	42.018	123.339
LP	8145.00	80.375	336.999
Dtop	9600.10	80.375	336.999
H64	9612.46	90.004	336.999
BH4	14278.05	90.004	336.999

Gyrodata Cont. Gyro <8-3/4"> (100°-5876') : 112.00ft TVD, 0.03ft S, 0.02ft E
BH AT Curve+MagVar MSA <8-1/2"> (5888)(5945-14910) : 0.31° inc, 5945.00ft MD, 5944.83ft TVD, 16.33ft VS
BH AT Curve+MagVar MSA <8-1/2"> (5888)(5945-14910) : 0.31° inc, 5945.00ft MD, 5944.83ft TVD, 16.33ft VS
Gyrodata Cont. Gyro <8-3/4"> (100°-5876') : 112.00ft TVD, 0.03ft S, 0.02ft E
BH AT Curve+MagVar MSA <8-1/2"> (5888)(5945-14910) : 0.31° inc, 5945.00ft MD, 5944.83ft TVD, 16.33ft VS

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State of West Virginia
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Well Operator's Report of Well Work

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API 47 - 103 - 03235 County Wetzel District Grant
 Quad Big Run Pad Name BIG245 Field/Pool Name N/A
 Farm name ET Blue Grass LLC Well Number BIG245 16H (L002955)
 Operator (as registered with the OOG) EQT Production Company
 Address 2400 Ansys Drive, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
 Top hole Northing 4,382,925.493 Easting 537,027.237
 Landing Point of Curve Northing 4,383,035.846 Easting 537,193.868
 Bottom Hole Northing 4,384,939.269 Easting 536,351.024

Elevation (ft) 1430' GL Type of Well New Existing Type of Report Interim Final
 Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
 Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
 Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
 Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
 Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
 Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)

Synthetic Oil Based Mud 12.00 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 02/06/2019 Date drilling commenced 11/24/2018 Date drilling ceased 05/29/2019
 Date completion activities began _____ Date completion activities ceased _____
 Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 214,492,647,737,996 Open mine(s) (Y/N) depths N
 Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
 Coal depth(s) ft 926,1025,1124 Cavern(s) encountered (Y/N) depths N
 Is coal being mined in area (Y/N) N

Reviewed by:
 Digitally signed by
 Stephen Mccoy
 Date: 2022.11.23
 09:07:47 -0500
 n Mccoy 12/30/2022

WR-35
Rev. 8/23/13

API 47-103 - 03235 Farm name ET Blue Grass LLC Well number BIG245 16H (L002955)

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	1154'	NEW	J-55 54.5#	973'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2832'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	14,949'	NEW	HP-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1885' GL, which is greater than 500' TVD above the producing formation. No issues during cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	100	15.6	1.18	118	0	8+
Surface	CLASS A	1088	16.0	1.13	1229	0	8
Coal							
Intermediate 1	CLASS H	1188	16.8	1.02	1211	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2456	15.2	1.10	2702	1885'	8+
Tubing							

Drillers TD (ft) 14,961' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 6,878'

Check all wireline logs run caliper density deviated/directional induction temperature sonic
 neutron resistivity gamma ray

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Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

CONDUCTOR- NONE
 SURFACE- ON SHOE TRACK AND EVERY 500' TO SURFACE
 INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE
 PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 2982'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 103 - 03235 Farm name ET Blue Grass LLC Well number BIG245 16H (L002955)

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY
 Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

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Please insert additional pages as applicable.

Drilling Contractor Patterson UTI (Rig 578)
 Address 207 Carlton Dr City Eighty Four State PA Zip 15330
 Logging Company Baker Hughes
 Address 400 Technology Dr Suite 100 City Canonsburg State PA Zip 15317
 Cementing Company Halliburton
 Address 121 Champion Way Suite 110 City Canonsburg State PA Zip 15317
 Cementing Company Universal Pressure Pumping, Inc.
 Address 13549 S. Moisertown Road City Meadville State PA Zip 16335

Completed by Derek Ridgway Telephone 412-395-3139
 Signature [Signature] Title Managing Director of Drilling Date 11/08/2022

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

12/30/2022
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Rev. 8/23/13

Page ___ of ___

API 47- 103 - 03235 Farm name ET Blue Grass LLC Well number BIG245 16H (L002955)

Drilling Contractor Falcon (Rig 25)
Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company Scientific Drilling International
Address 124 Vista Drive City Charleroi State PA Zip 15022

Logging Company GyroData
Address 73 Noblestown Road City Carnegie State PA Zip 15106

Cementing Company Schlumberger Technology Corp.
Address 4600 J. Barry Court, Suite 200 City Canonsburg State PA Zip 15317

Logging Company KLX Energy Services, LLC
Address 1498 Evans City Road City Evans City State PA Zip 16033

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Well # BIG245 16H (L002955) Final Formations API# 47-103-03235				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	926	926
Waynesburg Coal	926	926	927	927
Sand/Shale	927	927	1,025	1,025
Mapletown Coal	1,025	1,025	1,034	1,034
Sand/Shale	1,034	1,034	1,124	1,124
Pittsburgh Coal	1,124	1,124	1,130	1,130
Sand/Shale	1,130	1,130	2,295	2,295
Maxton	2,295	2,295	2,336	2,336
Sand/Shale	2,336	2,336	2,349	2,349
Big Lime	2,349	2,349	2,419	2,419
Big Injun	2,419	2,419	2,586	2,586
Sand/Shale	2,586	2,586	2,755	2,755
Weir	2,755	2,755	2,795	2,795
Sand/Shale	2,795	2,795	3,153	3,153
Gordon	3,153	3,153	3,192	3,192
Sand/Shale	3,192	3,192	3,211	3,211
Forth Sand	3,211	3,211	3,255	3,255
Sand/Shale	3,255	3,255	3,259	3,259
Bayard	3,259	3,259	3,489	3,489
Sand/Shale	3,489	3,489	3,881	3,881
Speechley	3,881	3,881	4,103	4,103
Sand/Shale	4,103	4,103	4,674	4,674
Riley	4,674	4,674	4,906	4,906
Sand/Shale	4,906	4,906	5,370	5,370
Benson	5,370	5,370	5,518	5,518
Sand/Shale	5,518	5,518	5,832	5,832
Alexander	5,832	5,832	6,148	6,145
Elks	6,148	6,145	7,275	7,062
Sonyea	7,275	7,062	7,455	7,218
Middlesex	7,455	7,218	7,519	7,270
Genesee	7,519	7,270	7,642	7,359
Geneseo	7,642	7,359	7,677	7,380
Tully	7,677	7,380	7,717	7,403
Hamilton	7,717	7,403	7,982	7,502
Marcellus	7,982	7,502	14,961	7,527

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Kennedy, James P <james.p.kennedy@wv.gov>

Plugging permits approved 4710303234 1033235 1033236

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Thu, Dec 29, 2022 at 2:17 PM


To: "Shrum, Becky" <BShrum@eqt.com>, "Zavatchan, John" <jzavatchan@eqt.com>, OPishioneri@eqt.com, Stephen E McCoy <stephen.e.mccoy@wv.gov>, slemley@wvassessor.com


To whom it may concern, plugging permits have been issued for 4710303234 1033235 1033236.


James Kennedy


WVDEP OOG


6 attachments


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