



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 H8
47-103-03234-00-00

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 H8
Farm Name: ET BLUE GRASS, LLC
U.S. WELL NUMBER: 47-103-03234-00-00
Horizontal 6A Plugging
Date Issued: 12/29/2022

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 4



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

RECEIVED
Office of Oil and Gas
NOV 30 2022
WV Department of
Environmental Protection

**RE: Application for a Permit to Plug & Abandon
 BIG245H8 Well
 API 47-103-03234
 Grant 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. Please note that EQT permitted another well on this Wright Pad as "Radcliff" and these wells may also be referred to as Radcliff.

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

12/30/2022

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 Stephen 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 08:40:31 -05'00' Date 11/23/22

12/30/2022

47 1 03 03 234

BIG245 8H
Wetzel Co., WV
HZ Marcellus well
API # 47-103-03234-00
BY: Tyler Mizgorski
DATE: 11/1/2022

CURRENT STATUS:

Elevation @ 1416'
26" A-500 85.6 ppf conductor @ 40' Class A Cement to Surface
13 3/8" J-55 54.4 ppf casing @ 1180' Class A Cement to Surface
9 5/8" A-500 40 ppf casing @ 2,858' Class H Cement to Surface
5 1/2" P-110 20 ppf casing @ 14,554' Class H Cement, Estimated Cement Top 1,295'

Well not completed

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

Coal Show @ 925', 1024', 1132'

Salt Water @ N/A

- 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 7,910 and set a CIBP @7,890' 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 @7,880' 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. 7,880' to 6,380' 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 6,380' 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 ~1,250' using jet cutter. Estimated freepoint @1,295'. TOOH 5 1/2" Casing.
- 16) Set a 1,300' Class A or Class L Cement plug 100'in/1,200' out of casing cut 1,350' to Surface. Pump 500' of cement and pull 500; of tubing 2 times. Pump last 300' section. (Casing Cut Plug, 13 3/8" Casing Seat, Coal, Freshwater, and surface plug)
- 17) Set Monument above ground to WV-DEP Specifications

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12/30/2022
Stephen McCoy



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
BIG245H8 Well
Permit Number 47-103-03234
Grant District, Wetzel County

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,

John Zavatchan
Project Specialist - Permitting

Enc.

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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.

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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12/30/2022

1) Date: November 30 2022
2) Operator's Well Number
BIG245H8

3) API Well No.: 47 - 103 - 03234

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 <u>See Attached</u>
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector <u>Steve McCoy</u>	(c) Coal Lessee with Declaration
Address <u>13016 Indian Creek</u>	Name _____
<u>Jacksonburg, WV 26377</u>	Address _____
Telephone <u>681-344-3265</u>	Address _____

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

- (1) The application to Plug and Abandon a Well on Form WW-1B, 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.

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

Well Operator EQT Production Company
 By: Erin Spine
 Its: Manager - Subsurface Permitting
 Address 400 Woodcliff Drive
Canonsburg PA 15317
 Telephone (724) 271-7380

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 Office of Oil and Gas
 NOV 30 2022

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

WV Department of
 Environmental Protection

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
SM

47 1 0 3 0 3 2 3 4

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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SM

4710303234

7021 2720 0000 9233 0798

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Street and Apt. No

City, State, ZIP+4®

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

40-09 - BIG 245 WW4A NOTIFICATIONS

PS Form 3800, A

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NEAL UTT
1204 BIG RUN RD.
BURTON, WV 26562

40-09 - BIG 245 WW4A NOTIFICATIONS

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

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7021 2720 0000 9233 0767

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

40-09 - BIG 245 WW4A NOTIFICATIONS

PS Form 3800, A

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	
Sent To	WPP, LLC	
Street and Apt. No.	5260 IRWIN ROAD	
City, State, ZIP+4®	HUNTINGTON, WV 25727-3247	
PS Form 3800, April 2019		

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	
Sent To	FRANCES E HARTMAN (FLUHARTY) HEIRS & ASSIGNS	
Street and Apt. No.	4337 5TH AVENUE	
City, State, ZIP+4®	PITTSBURGH, PA 15213	
PS Form 3800, April 2019		

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	
Sent To	ACNR RESOURCES, INC.	
Street and Apt. No.	46226 NATIONAL ROAD	
City, State, ZIP+4®	ST. CLAIRSVILLE, OH 43950	
PS Form 3800, April 2019		

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	
Sent To	EQUITRANS MIDSTREAM C/O GERALD SMITH	
Street and Apt. No.	2200 ENERGY DRIVE	
City, State, ZIP+4®	CANONSBURG, PA 15317	
PS Form 3800, April 2019		

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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) 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 _____)

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 

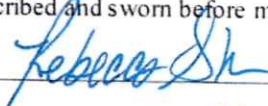
Company Official (Typed Name) Erin Spine

Company Official Title Manager - Subsurface Permitting

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



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 # 1218012022
Member, Pennsylvania Association of Notaries
Stephen McCoy

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: Stephen Mccoy Digitally signed by Stephen Mccoy
Date: 2022.11.23 08:41:52 -05'00'

Comments: Seed and mulch all reclaimed areas.

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NOV 30 2022
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Title: WV Oil and Gas Inspector

Date: 11/23/22

Field Reviewed? () Yes () No

47 1 0 3 0 3 2 3 4

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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12/30/2022



Site Pictures
ET Blue Grass, LLC
BIG 245 H8 47-103-03234



BIG 245 H8 Well Pad Site

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Office of Oil and Gas
NOV 30 2022
WV Department of
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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 RIII, Boulevard - Suite 5
Charleston, WV 25309
phone: 304-756-2949 fax: 304-756-2948

47 103 03234

Topo Quad: Big Run 7.5'

Scale: 1" = 2000'

County: Wetzel

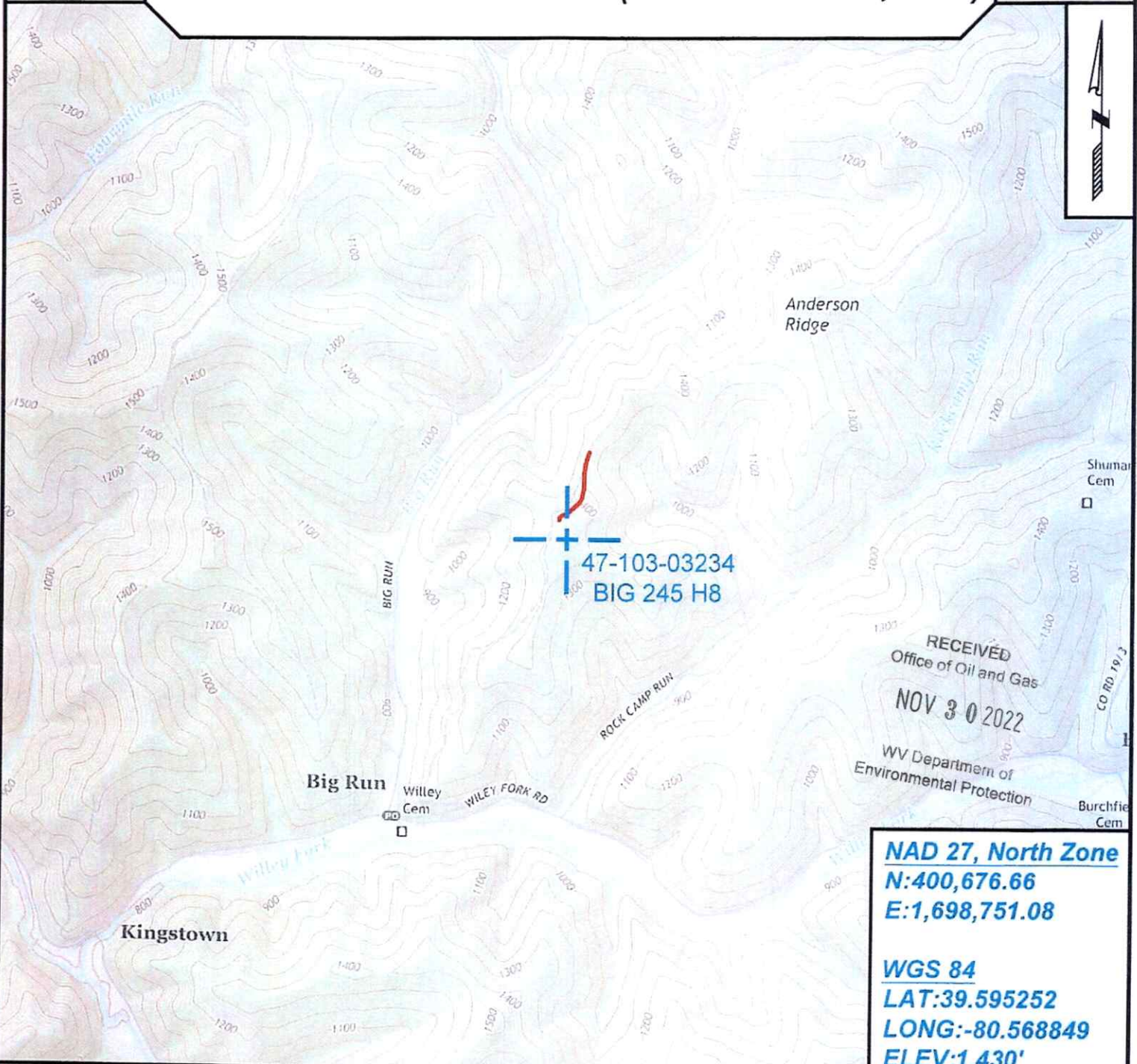
Date: December 21, 2021

District: Grant

Project No: 40-34-00-09

47-103-03234 BIG 245 H8 (ET Blue Grass, LLC)

Topo



NAD 27, North Zone
N:400,676.66
E:1,698,751.08

WGS 84
LAT:39.595252
LONG:-80.568849
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

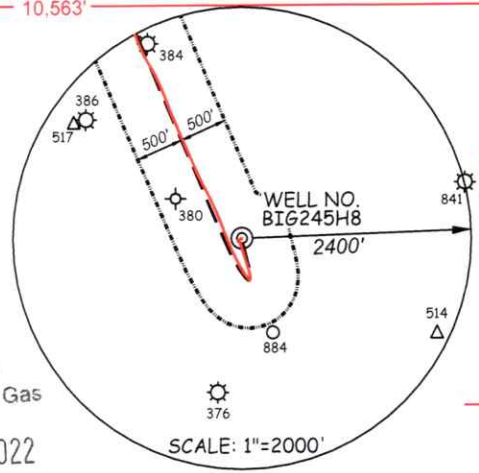
PREPARED FOR:
EQT Production Company
 400 Woodcliff Drive
 Canonsburg, PA 15317
12/30/2022

**BIG245
BIG245H8
EQT PRODUCTION COMPANY**

BOTTOM HOLE LATITUDE 39°37'30"

4710303234

TAG	TM-PAR.	SURFACE OWNERS	ACRES
A	G-TM-3-2	JOSEPH F & GAY BLAKE IRREVOCABLE GRANTOR TR.	194 AC.
B	G-TM-3-5	COASTAL FOREST RESOURCES CO	179 AC.
C	G-TM-3-14	CHARLES STONEKING ET AL.	70.50 AC.
D	G-TM-3-15	CHARLES STONEKING ET AL.	45 AC.
E	G-TM-3-16	CHARLES STONEKING ET AL.	14.11 AC.
F	G-TM-3-18	VIRGINIA RUTH BLAKE	28.75 AC.
G	G-TM-3-19	JOSEPH R PERHAC	93.50 AC.
H	G-TM-3-23	COASTAL FOREST RESOURCES CO	167.75 AC.
I	G-TM-3-24	COASTAL FOREST RESOURCES CO	35.89 AC.
J	G-TM-3-25	CHARLES STONEKING ET AL.	34.4 AC.
K	G-TM-3-26	VIRGINIA RUTH BLAKE	20.69 AC.
L	G-TM-3-27	VIRGINIA RUTH BLAKE	45.83 AC.
M	G-TM-3-30	THOMAS E & CHERYL A LEASURE	51.80 AC.
N	G-TM-3-34	MIKE & MADELINE WHITE	30.6 AC.
O	G-TM-8-1	DANNY STOCKSLAGER ET AL.	170 AC.
P	G-TM-8-2	MIKE & MADELINE WHITE	40.13 AC.
Q	G-TM-8-3	MIKE & MADELINE WHITE	3 AC.
R	G-TM-8-7	JAMES E & MARTIN A STONEKING	19.12 AC.
S	G-TM-8-8	WANDA L BYARD	59.16 AC.
T	G-TM-8-10	GARLAND E MINOR	48.1 AC.
U	G-TM-8-11	BONNIE M HENTHORNE	63.50 AC.
V	G-TM-8-12	SHIRLEY A TITUS	41.9 AC.
W	G-TM-8-12.1	DALE F SAPP	10.1 AC.
X	G-TM-8-14	NEAL UTT	51 AC.
Y	G-TM-8-15	JOHN MICHAEL BYARD	71.60 AC.
Z	G-TM-8-21	IKEY JOE WILLEY	76.27 AC.
AA	G-TM-8-22	ET BLUEGRASS LLC, C/O EQT PRODUCTION CO	138.93 AC.
BB	G-TM-8-23	DALE K. JAMES L & DONALD J DULANEY	70.81 AC.
CC	G-TM-8-25	JAMES ARTHUR YOHO	6.25 AC.
DD	G-TM-8-27	JAMES ARTHUR YOHO	21.75 AC.
EE	G-TM-8-28	JAMES ARTHUR & FLORENCE YOHO	61 AC.
FF	G-TM-8-4	DUANE M GOODRICH	1.625 AC.
GG	G-TM-8-5	DUANE M GOODRICH	130 SQ RDS
HH	G-TM-8-6	DUANE M GOODRICH	164 SQ RDS
II	G-TM-8-13	NEAL UTT	3.75 AC.
JJ	G-TM-8-13.1	DUANE M GOODRICH	3.56 AC.
KK	G-TM-3-28	JOHN & BONNIE RICE	5 AC.
LL	C-TM-19-14	JOSEPH R PERHAC	88.5 AC.



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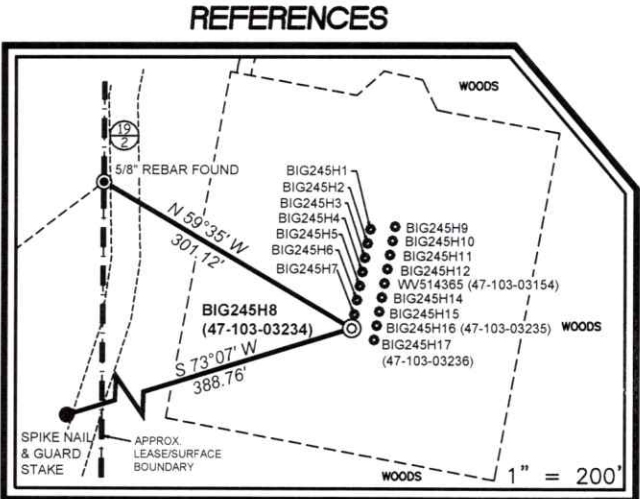
WV Department of
Environmental Protection

AS-DRILLED COORDINATES (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD27 S.P.C.(FT)	N. 400,676.62	E. 1,698,751.10
NAD27 GEO.	LAT-(N) 39.595169	LONG-(W) 80.569038
NAD83 UTM (M)	N. 4,382,924.508	E. 537,019.345
LANDING POINT		
NAD27 S.P.C.(FT)	N. 400,748.52	E. 1,698,568.53
NAD27 GEO.	LAT-(N) 39.595361	LONG-(W) 80.569689
NAD83 UTM (M)	N. 4,382,945.484	E. 536,963.359
BOTTOM HOLE		
NAD27 S.P.C.(FT)	N. 406,799.30	E. 1,695,972.37
NAD27 GEO.	LAT-(N) 39.611887	LONG-(W) 80.579159
NAD83 UTM (M)	N. 4,384,775.700	E. 536,141.696

ROYALTY OWNERS		
SHIBEN ESTATES INC. ET AL.	192 AC.± (160.96)	LEASE NO. 102836
JOSEPH SHIBEN & MINNIE SHIBEN ESTATE ET AL.	1030 AC.±	LEASE NO. 102814

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD27 S.P.C.(FT)	N. 400,676.62	E. 1,698,751.10
NAD27 GEO.	LAT-(N) 39.595169	LONG-(W) 80.569038
NAD83 UTM (M)	N. 4,382,924.508	E. 537,019.345
LANDING POINT		
NAD27 S.P.C.(FT)	N. 400,741.06	E. 1,698,533.00
NAD27 GEO.	LAT-(N) 39.595339	LONG-(W) 80.569814
NAD83 UTM (M)	N. 4,382,943.030	E. 536,952.572
BOTTOM HOLE		
NAD27 S.P.C.(FT)	N. 406,795.66	E. 1,695,962.97
NAD27 GEO.	LAT-(N) 39.611876	LONG-(W) 80.579192
NAD83 UTM (M)	N. 4,384,774.543	E. 536,138.851

- NOTES ON SURVEY**
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS 2500 SQ. FT. OR GREATER WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
 - WELL SPOT CIRCLE (SHEET 1) AND TOPO MARK SCALE IS 1" = 2000'.
 - 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 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 28 , 20 19
REVISED _____
OPERATORS WELL NO. BIG245H8
API WELL NO. 47 - 103 - 03234
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7812PBIG245H8AD.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE SEE NOTE 2

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

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

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 ACREAGE 138.93±
ROYALTY OWNER SHIBEN ESTATES, INC ACREAGE 140± LEASE NO. 125397
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7530'

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

TOP HOLE LONGITUDE 80°32'30"

COUNTY NAME PERMIT

**BIG245
BIG245H8
EQT PRODUCTION COMPANY**

BOTTOM HOLE LATITUDE 39°37'30"

10,572' 47 1 03 03 2 3 4

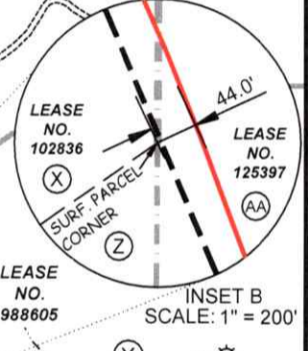
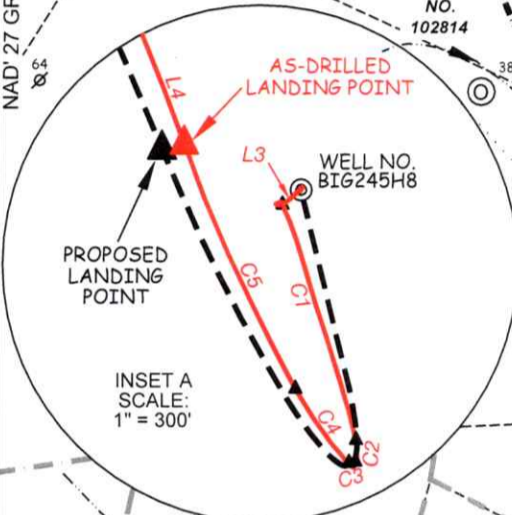
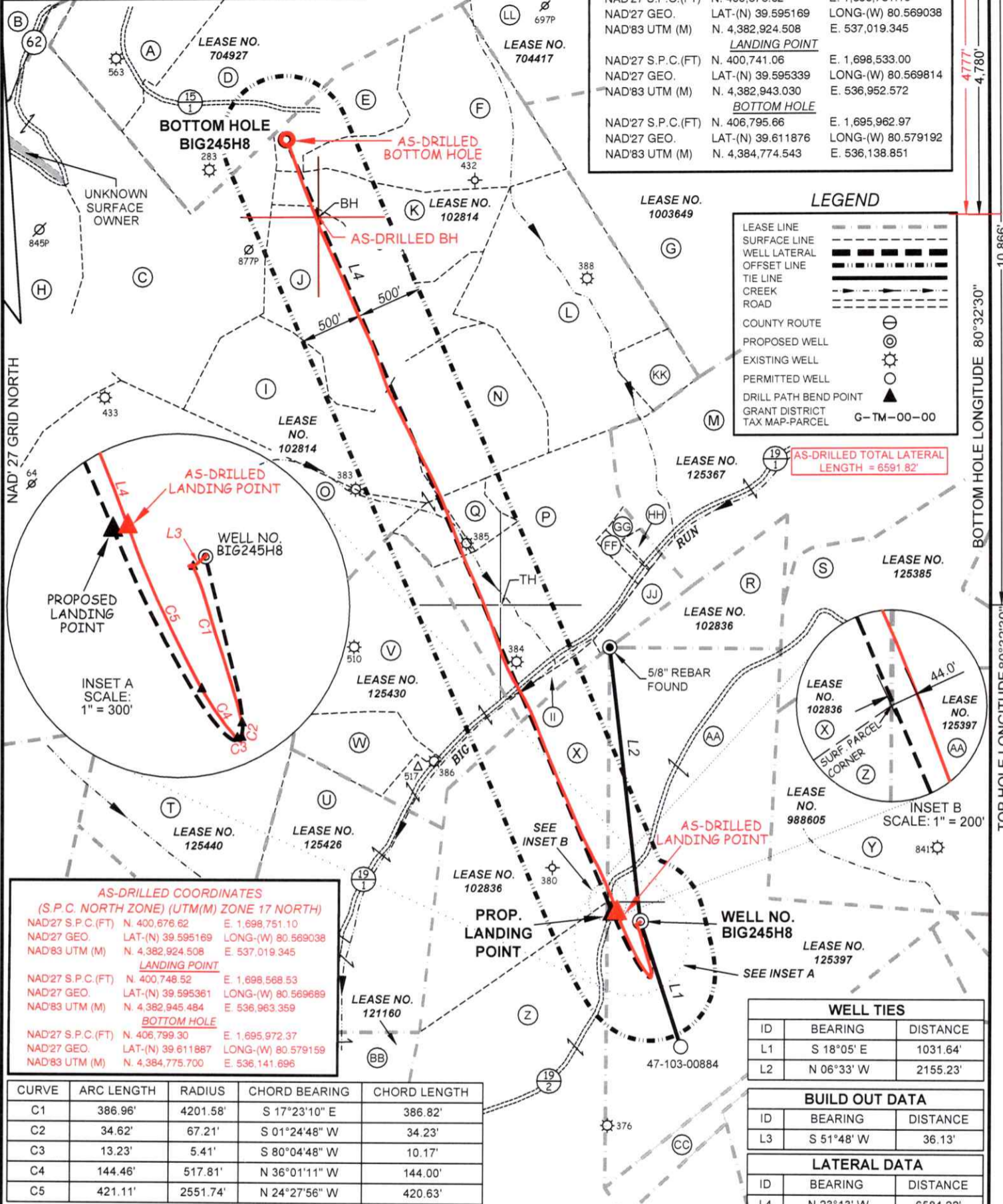
10,563'

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

NAD'27 S.P.C.(FT)	N. 400,676.62	E. 1,698,751.10
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NAD'27 GEO.	LAT-(N) 39.611876	LONG-(W) 80.579192
NAD'83 UTM (M)	N. 4,384,774.543	E. 536,138.851

LEGEND

LEASE LINE	---
SURFACE LINE	----
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)

NAD'27 S.P.C.(FT)	N. 400,676.62	E. 1,698,751.10
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NAD'27 GEO.	LAT-(N) 39.611887	LONG-(W) 80.579159
NAD'83 UTM (M)	N. 4,384,775.700	E. 536,141.696

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	386.96'	4201.58'	S 17°23'10" E	386.82'
C2	34.62'	67.21'	S 01°24'48" W	34.23'
C3	13.23'	5.41'	S 80°04'48" W	10.17'
C4	144.46'	517.81'	N 36°01'11" W	144.00'
C5	421.11'	2551.74'	N 24°27'56" W	420.63'

WELL TIES

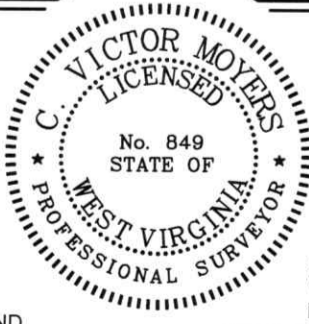
ID	BEARING	DISTANCE
L1	S 18°05' E	1031.64'
L2	N 06°33' W	2155.23'

BUILD OUT DATA

ID	BEARING	DISTANCE
L3	S 51°48' W	36.13'

LATERAL DATA

ID	BEARING	DISTANCE
L4	N 23°13' W	6584.22'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
SCALE 1"=1000'

FILE NO. 7812PBIG245H8AD.dwg
DATE MAY 28, 2019
REVISED
OPERATORS WELL NO. BIG245H8

API WELL NO. 47 - 103 - 03234
STATE COUNTY PERMIT

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*

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

TOP HOLE LONGITUDE 80°32'30"

BOTTOM HOLE LONGITUDE 80°32'30"

COUNTY NAME PERMIT

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

RECEIVED
Office of Oil and Gas

NOV 30 2022

WV Department of
Environmental Protection

API 47-103-03234 County Wetzel District Grant
Quad Big Run Pad Name BIG245 Field/Pool Name N/A
Farm name ET Blue Grass LLC Well Number BIG245 8H (L002954)
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 4,382,924.508 Easting 537,019.345
Landing Point of Curve Northing 4,382,945.484 Easting 536,963.359
Bottom Hole Northing 4,384,775.700 Easting 536,141.696

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 11/16/2018 Date drilling ceased 05/17/2019
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:
Stephen Mccoy Digitally signed by Stephen Mccoy
Date: 2022.11.23 08:42:37 -0500
12/30/2022

WR-35
Rev. 8/23/13

API 47- 103 - 03234 Farm name ET Blue Grass LLC Well number BIG245 8H (L002954)

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"	1155'	NEW	J-55 54.5#	987'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2833'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	14,529'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1412' 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	1030	16.0	1.13	1064	0	8
Coal							
Intermediate 1	CLASS H	1150	16.8	1.02	1173	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2845	15.2	1.10	3129	1412'	8+
Tubing							

Drillers TD (ft) 14,542' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,654'

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

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 4478'

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NOV 30 2022

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WV Department of Environmental Protection

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

12/30/2022

SM

WR-35
Rev. 8/23/13

API 47- 103 - 03234 Farm name ET Blue Grass LLC Well number BIG245 8H (L002954)

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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WV Department of
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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

Please insert additional pages as applicable.

Completed by Derek Ridgway Telephone 412-395-3139
 Signature *Derek Ridgway* 11/8/2022 Title WV Oil and Gas Inspector Date 11/08/2022

WR-35
Rev. 8/23/13

API 47- 103 - 03234 Farm name ET Blue Grass LLC Well number BIG245 8H (L002954)

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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NOV 30 2022
WV Department of
Environmental Protection

4710303234

Well # BIG245 8H (L002954) Final Formations API# 47-103-03234				
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	2,754
Weir	2,755	2,754	2,795	2,794
Sand/Shale	2,795	2,794	3,153	3,152
Gordon	3,153	3,152	3,192	3,191
Sand/Shale	3,192	3,191	3,211	3,210
Forth Sand	3,211	3,210	3,255	3,254
Sand/Shale	3,255	3,254	3,259	3,258
Bayard	3,259	3,258	3,489	3,488
Sand/Shale	3,489	3,488	3,881	3,880
Speechley	3,881	3,880	4,103	4,102
Sand/Shale	4,103	4,102	4,674	4,673
Riley	4,674	4,673	4,906	4,905
Sand/Shale	4,906	4,905	5,370	5,369
Benson	5,370	5,369	5,518	5,517
Sand/Shale	5,518	5,517	5,832	5,831
Alexander	5,832	5,831	6,148	6,144
Elks	6,148	6,144	7,172	7,049
Sonyea	7,172	7,049	7,339	7,206
Middlesex	7,339	7,206	7,398	7,256
Genesee	7,398	7,256	7,513	7,344
Geneseo	7,513	7,344	7,547	7,366
Tully	7,547	7,366	7,584	7,389
Hamilton	7,584	7,389	8,103	7,511
Marcellus	8,103	7,511	14,542	7,538

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NOV 30 2022
WV Department of
Environmental Protection

12/30/2022
SM



Where energy meets innovation.

Actual Wellpath Report

Big 245 514369 AWP Proj: 14567'

Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 AWB
Facility	Big 245 Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Jacostec
Scale	0.999941	Report Generated	5/20/2019 at 2:51:07 PM
Convergence at slot	0.68° West	Database/Source file	WA_MPL_EASTERNUS_Defn/Big_245_514369_AWP_Proj_14567_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-47.00	-34.20	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"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.514369)	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	335.59°

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Actual Wellpath Report

Big 245 514369 AWP Proj: 14567'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 AWB
Facility	Big 245 Pad		

WELLPATH DATA (153 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†	0.000	117.790	0.00	0.00	0.00	0.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	0.00	0.000	0.00	0.00	0.00
25.00	0.000	117.790	25.00	0.00	0.00	0.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	0.00	0.000	0.00	0.00	0.00
112.00	0.180	117.790	112.00	-0.11	-0.06	0.12	1698751.20	400676.60	39°35'42.609"N	80°34'08.534"W	0.14	117.790	0.21	0.21	135.39
212.00	0.060	172.420	212.00	-0.28	-0.19	0.27	1698751.35	400676.47	39°35'42.608"N	80°34'08.532"W	0.33	125.296	0.15	-0.12	54.63
312.00	0.090	244.470	312.00	-0.33	-0.27	0.20	1698751.28	400676.39	39°35'42.607"N	80°34'08.533"W	0.34	143.553	0.09	0.03	72.05
412.00	0.060	256.830	412.00	-0.33	-0.32	0.08	1698751.16	400676.34	39°35'42.607"N	80°34'08.535"W	0.33	165.820	0.03	-0.03	12.36
512.00	0.090	250.470	512.00	-0.31	-0.36	-0.04	1698751.04	400676.30	39°35'42.606"N	80°34'08.536"W	0.36	187.005	0.03	0.03	-6.36
612.00	0.090	269.710	612.00	-0.27	-0.39	-0.20	1698750.88	400676.27	39°35'42.606"N	80°34'08.538"W	0.43	207.040	0.03	0.00	19.24
712.00	0.080	264.530	712.00	-0.21	-0.39	-0.34	1698750.74	400676.21	39°35'42.606"N	80°34'08.540"W	0.52	221.302	0.01	-0.01	-5.18
812.00	0.080	225.790	812.00	-0.22	-0.45	-0.46	1698750.62	400676.21	39°35'42.606"N	80°34'08.542"W	0.64	226.042	0.05	0.00	-38.74
912.00	0.080	216.650	912.00	-0.27	-0.55	-0.56	1698750.52	400676.11	39°35'42.604"N	80°34'08.543"W	0.78	225.186	0.01	0.00	-9.14
1012.00	0.100	214.400	1012.00	-0.35	-0.68	-0.65	1698750.43	400675.98	39°35'42.603"N	80°34'08.544"W	0.94	223.557	0.02	0.02	-2.25
1112.00	0.050	208.660	1112.00	-0.42	-0.79	-0.72	1698750.36	400675.87	39°35'42.602"N	80°34'08.545"W	1.07	222.209	0.05	-0.05	-5.74
1212.00	0.040	210.390	1212.00	-0.47	-0.86	-0.76	1698750.32	400675.80	39°35'42.601"N	80°34'08.545"W	1.14	221.339	0.01	-0.01	1.73
1312.00	0.110	132.300	1312.00	-0.58	-0.95	-0.70	1698750.38	400675.71	39°35'42.601"N	80°34'08.545"W	1.18	216.369	0.11	0.07	-78.09
1412.00	0.120	122.130	1412.00	-0.75	-1.07	-0.54	1698750.54	400675.59	39°35'42.599"N	80°34'08.543"W	1.20	206.806	0.02	0.01	-10.17
1512.00	0.240	358.590	1512.00	-0.65	-0.92	-0.46	1698750.62	400675.74	39°35'42.601"N	80°34'08.542"W	1.03	206.514	0.32	0.12	-123.54
1612.00	0.310	355.540	1612.00	-0.20	-0.44	-0.49	1698750.59	400676.22	39°35'42.606"N	80°34'08.542"W	0.66	227.723	0.07	0.07	-3.05
1712.00	0.400	18.900	1712.00	0.31	0.16	-0.39	1698750.69	400676.82	39°35'42.612"N	80°34'08.541"W	0.42	291.973	0.17	0.09	23.36
1812.00	0.440	19.890	1811.99	0.84	0.85	-0.15	1698750.93	400677.51	39°35'42.618"N	80°34'08.538"W	0.86	350.018	0.04	0.04	0.99
1912.00	0.680	38.050	1911.99	1.39	1.68	0.35	1698751.43	400678.34	39°35'42.627"N	80°34'08.532"W	1.71	11.674	0.30	0.24	18.16
2012.00	0.710	41.110	2011.98	1.92	2.61	1.12	1698752.20	400679.27	39°35'42.636"N	80°34'08.522"W	2.84	23.203	0.05	0.03	3.06
2112.00	0.730	41.440	2111.97	2.43	3.56	1.95	1698753.03	400680.22	39°35'42.645"N	80°34'08.511"W	4.06	28.719	0.02	0.02	0.33
2212.00	0.750	40.820	2211.96	2.97	4.53	2.80	1698753.88	400681.19	39°35'42.655"N	80°34'08.501"W	5.32	31.707	0.02	0.02	-0.62
2312.00	0.570	38.980	2311.96	3.47	5.41	3.54	1698754.62	400682.07	39°35'42.664"N	80°34'08.491"W	6.47	33.183	0.18	-0.18	-1.84
2412.00	0.390	38.030	2411.95	3.85	6.07	4.06	1698755.14	400682.73	39°35'42.670"N	80°34'08.485"W	7.30	33.803	0.18	-0.18	-0.95
2512.00	0.600	217.650	2511.95	3.76	5.92	3.95	1698755.03	400682.58	39°35'42.669"N	80°34'08.486"W	7.12	33.722	0.99	0.21	179.62
2612.00	3.680	225.530	2611.87	2.41	3.26	1.34	1698752.42	400679.92	39°35'42.642"N	80°34'08.519"W	3.52	22.379	3.09	3.08	7.88
2712.00	5.630	224.630	2711.54	-0.44	-2.48	-4.40	1698746.68	400674.18	39°35'42.585"N	80°34'08.592"W	5.05	240.540	1.95	1.95	-0.90
2812.00	4.810	225.980	2811.12	-3.61	-8.89	-10.86	1698740.22	400667.77	39°35'42.521"N	80°34'08.673"W	14.03	230.696	0.83	-0.82	1.35

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 AWB
Facility	Big 245 Pad		

WELLPATH DATA (153 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	3.380	229.600	2910.86	-5.83	-13.71	-16.12	1698734.96	400662.95	39°35'42.473"N	80°34'08.740"W	21.16	229.610	1.45	-1.43	3.62
3012.00	2.340	233.210	3010.74	-7.08	-16.85	-20.00	1698731.08	400659.82	39°35'42.441"N	80°34'08.789"W	26.15	229.890	1.05	-1.04	3.61
3112.00	1.660	234.900	3110.68	-7.78	-18.90	-22.82	1698728.26	400657.76	39°35'42.421"N	80°34'08.824"W	29.63	230.363	0.68	-0.68	1.69
3212.00	0.980	237.650	3210.65	-8.17	-20.19	-24.72	1698726.36	400656.47	39°35'42.408"N	80°34'08.849"W	31.92	230.763	0.68	-0.68	2.75
3312.00	0.870	235.310	3310.64	-8.42	-21.08	-26.07	1698725.01	400655.58	39°35'42.399"N	80°34'08.866"W	33.53	231.042	0.12	-0.11	-2.34
3412.00	0.930	239.090	3410.62	-8.65	-21.93	-27.39	1698723.69	400654.73	39°35'42.390"N	80°34'08.882"W	35.09	231.319	0.08	0.06	3.78
3512.00	0.720	258.430	3510.61	-8.60	-22.47	-28.70	1698722.38	400654.19	39°35'42.385"N	80°34'08.899"W	36.45	231.942	0.35	-0.21	19.34
3612.00	0.640	260.330	3610.61	-8.32	-22.69	-29.87	1698721.21	400653.97	39°35'42.382"N	80°34'08.914"W	37.51	232.775	0.08	-0.08	1.90
3712.00	0.670	259.980	3710.60	-8.03	-22.89	-31.00	1698720.09	400653.77	39°35'42.380"N	80°34'08.928"W	38.53	233.557	0.03	0.03	-0.35
3812.00	0.460	256.560	3810.59	-7.81	-23.08	-31.96	1698719.12	400653.58	39°35'42.378"N	80°34'08.941"W	39.43	234.163	0.21	-0.21	-3.42
3912.00	0.500	258.950	3910.59	-7.63	-23.26	-32.78	1698718.30	400653.40	39°35'42.376"N	80°34'08.951"W	40.19	234.642	0.04	0.04	2.39
4012.00	0.500	259.140	4010.59	-7.43	-23.43	-33.64	1698717.44	400653.24	39°35'42.375"N	80°34'08.962"W	40.99	235.146	0.00	0.00	0.19
4112.00	0.480	265.850	4110.58	-7.18	-23.54	-34.48	1698716.60	400653.12	39°35'42.373"N	80°34'08.973"W	41.75	235.683	0.06	-0.02	6.71
4212.00	0.540	279.700	4210.58	-6.77	-23.49	-35.37	1698715.72	400653.17	39°35'42.374"N	80°34'08.984"W	42.46	236.409	0.14	0.06	13.85
4312.00	0.540	274.830	4310.57	-6.28	-23.37	-36.30	1698714.78	400653.29	39°35'42.375"N	80°34'08.996"W	43.17	237.226	0.05	0.00	-4.87
4412.00	0.530	285.840	4410.57	-5.75	-23.20	-37.21	1698713.87	400653.46	39°35'42.376"N	80°34'09.008"W	43.86	238.056	0.10	-0.01	11.01
4512.00	0.400	307.440	4510.57	-5.14	-22.87	-37.94	1698713.15	400653.80	39°35'42.380"N	80°34'09.017"W	44.29	238.921	0.22	-0.13	21.60
4612.00	0.250	340.220	4610.57	-4.62	-22.45	-38.29	1698712.79	400654.21	39°35'42.384"N	80°34'09.021"W	44.38	239.617	0.23	-0.15	32.78
4712.00	0.250	353.670	4710.56	-4.19	-22.03	-38.39	1698712.70	400654.64	39°35'42.388"N	80°34'09.023"W	44.26	240.152	0.06	0.00	13.45
4812.00	0.380	62.030	4810.56	-3.97	-21.65	-38.12	1698712.97	400655.01	39°35'42.392"N	80°34'09.019"W	43.84	240.400	0.37	0.13	68.36
4912.00	0.480	71.510	4910.56	-3.99	-21.37	-37.43	1698713.66	400655.30	39°35'42.394"N	80°34'09.011"W	43.10	240.280	0.12	0.10	9.48
5012.00	0.520	68.630	5010.56	-4.06	-21.07	-36.61	1698714.48	400655.59	39°35'42.398"N	80°34'09.000"W	42.24	240.080	0.05	0.04	2.88
5112.00	0.520	69.960	5110.55	-4.11	-20.75	-35.76	1698715.32	400655.92	39°35'42.401"N	80°34'08.989"W	41.34	239.878	0.01	0.00	1.33
5212.00	0.520	65.550	5210.55	-4.15	-20.40	-34.92	1698716.16	400656.26	39°35'42.404"N	80°34'08.979"W	40.44	239.702	0.04	0.00	-4.41
5312.00	0.540	65.390	5310.54	-4.15	-20.02	-34.08	1698717.01	400656.64	39°35'42.408"N	80°34'08.968"W	39.52	239.567	0.02	0.02	-0.16
5412.00	0.480	74.380	5410.54	-4.21	-19.71	-33.25	1698717.84	400656.95	39°35'42.411"N	80°34'08.957"W	38.65	239.338	0.10	-0.06	8.99
5512.00	0.420	87.160	5510.54	-4.41	-19.58	-32.48	1698718.61	400657.08	39°35'42.413"N	80°34'08.948"W	37.92	238.915	0.12	-0.06	12.78
5612.00	0.450	87.690	5610.53	-4.69	-19.54	-31.72	1698719.36	400657.12	39°35'42.413"N	80°34'08.938"W	37.26	238.358	0.03	0.03	0.53
5712.00	0.470	87.770	5710.53	-4.99	-19.51	-30.91	1698720.17	400657.15	39°35'42.414"N	80°34'08.928"W	36.56	237.740	0.02	0.02	0.08
5812.00	0.210	88.740	5810.53	-5.22	-19.49	-30.32	1698720.76	400657.17	39°35'42.414"N	80°34'08.920"W	36.05	237.264	0.26	-0.26	0.97

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 AWB
Facility	Big 245 Pad		

WELLPATH DATA (153 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]
5910.00	0.260	53.260	5908.53	-5.24	-19.36	-29.96	1698721.12	400657.31	39°35'42.415"N	80°34'08.916"W	35.67	237.138	0.15	0.05	-36.20
5983.00	3.140	154.120	5981.49	-7.21	-21.06	-28.96	1698722.12	400655.60	39°35'42.399"N	80°34'08.902"W	35.80	233.978	4.38	3.95	138.16
6078.00	9.670	157.030	6075.85	-17.80	-30.75	-24.70	1698726.38	400645.91	39°35'42.303"N	80°34'08.847"W	39.45	218.775	6.88	6.87	3.06
6174.00	14.520	156.250	6169.69	-37.90	-49.20	-16.71	1698734.37	400627.46	39°35'42.122"N	80°34'08.742"W	51.96	198.754	5.05	5.05	-0.81
6268.00	25.080	161.450	6258.01	-69.59	-78.96	-5.59	1698745.49	400597.70	39°35'41.829"N	80°34'08.595"W	79.16	184.050	11.38	11.23	5.53
6363.00	34.430	164.950	6340.40	-116.23	-124.09	7.82	1698758.90	400552.58	39°35'41.385"N	80°34'08.417"W	124.34	176.394	10.01	9.84	3.68
6457.00	39.610	162.150	6415.44	-172.26	-178.32	23.92	1698775.00	400498.35	39°35'40.851"N	80°34'08.203"W	179.91	172.361	5.79	5.51	-2.98
6552.00	39.790	161.890	6488.53	-232.56	-236.04	42.65	1698793.73	400440.64	39°35'40.282"N	80°34'07.955"W	239.86	169.758	0.26	0.19	-0.27
6647.00	39.810	163.390	6561.52	-292.91	-294.07	60.79	1698811.87	400382.61	39°35'39.711"N	80°34'07.715"W	300.29	168.320	1.01	0.02	1.58
6742.00	32.580	163.760	6638.13	-348.43	-347.84	76.66	1698827.73	400328.84	39°35'39.181"N	80°34'07.504"W	356.19	167.572	7.61	-7.61	0.39
6838.00	23.360	170.060	6722.85	-392.55	-391.51	87.20	1698838.27	400285.17	39°35'38.751"N	80°34'07.362"W	401.10	167.444	10.07	-9.60	6.56
6932.00	14.570	183.730	6811.70	-421.09	-421.74	89.65	1698840.73	400254.95	39°35'38.453"N	80°34'07.327"W	431.16	167.999	10.42	-9.35	14.54
7027.00	6.980	262.080	6905.34	-430.04	-434.53	83.12	1698834.20	400242.16	39°35'38.326"N	80°34'07.408"W	442.41	169.171	15.57	-7.99	82.47
7123.00	6.310	340.450	7000.86	-423.11	-430.35	75.56	1698826.64	400246.33	39°35'38.366"N	80°34'07.505"W	436.94	170.041	8.75	-0.70	81.64
7218.00	13.020	317.230	7094.49	-407.73	-417.56	66.54	1698817.61	400259.13	39°35'38.491"N	80°34'07.622"W	422.83	170.946	8.03	7.06	-24.44
7313.00	22.540	320.460	7184.85	-379.93	-395.61	47.64	1698798.71	400281.07	39°35'38.706"N	80°34'07.867"W	398.47	173.134	10.07	10.02	3.40
7408.00	32.690	326.070	7268.94	-336.93	-360.18	21.65	1698772.73	400316.50	39°35'39.053"N	80°34'08.204"W	360.83	176.560	11.02	10.68	5.91
7502.00	43.050	330.610	7343.05	-279.77	-311.02	-8.35	1698742.73	400365.66	39°35'39.535"N	80°34'08.595"W	311.14	181.538	11.41	11.02	4.83
7597.00	52.080	333.410	7407.10	-209.87	-249.13	-41.11	1698709.98	400427.55	39°35'40.143"N	80°34'09.023"W	252.50	189.370	9.75	9.51	2.95
7691.00	63.930	334.290	7456.81	-130.33	-177.68	-76.14	1698674.94	400498.99	39°35'40.845"N	80°34'09.481"W	193.31	203.197	12.63	12.61	0.94
7786.00	70.280	334.860	7493.75	-42.87	-98.68	-113.69	1698637.40	400577.99	39°35'41.621"N	80°34'09.973"W	150.54	229.043	6.71	6.68	0.60
7881.00	79.190	338.510	7518.75	48.65	-14.59	-149.86	1698601.23	400662.07	39°35'42.448"N	80°34'10.448"W	150.57	264.440	10.08	9.38	3.84
7976.00	86.060	340.040	7530.94	142.61	73.48	-183.17	1698567.92	400750.13	39°35'43.315"N	80°34'10.887"W	197.36	291.858	7.41	7.23	1.61
8070.00	88.830	339.110	7535.13	236.28	161.47	-215.94	1698535.15	400838.12	39°35'44.180"N	80°34'11.319"W	269.63	306.788	3.11	2.95	-0.99
8166.00	88.580	337.090	7537.30	332.16	250.52	-251.74	1698499.36	400927.16	39°35'45.056"N	80°34'11.789"W	355.15	314.861	2.12	-0.26	-2.10
8261.00	89.850	335.420	7538.60	427.14	337.46	-289.98	1698461.11	401014.10	39°35'45.911"N	80°34'12.291"W	444.94	319.327	2.21	1.34	-1.76
8356.00	89.850	333.470	7538.85	522.11	423.16	-330.96	1698420.14	401099.80	39°35'46.753"N	80°34'12.828"W	537.22	321.970	2.05	0.00	-2.05
8451.00	90.120	330.760	7538.87	616.93	507.12	-375.39	1698375.71	401183.75	39°35'47.577"N	80°34'13.408"W	630.94	323.490	2.87	0.28	-2.85
8546.00	90.520	332.620	7538.34	711.70	590.76	-420.44	1698330.67	401267.38	39°35'48.399"N	80°34'13.996"W	725.09	324.561	2.00	0.42	1.96
8640.00	90.650	335.210	7537.38	805.65	675.17	-461.77	1698289.34	401351.79	39°35'49.228"N	80°34'14.537"W	817.97	325.631	2.76	0.14	2.76

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Actual Wellpath Report

Big 245 514369 AWP Proj: 14567

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 AWB
Facility	Big 245 Pad		

WELLPATH DATA (153 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]
8736.00	90.520	337.300	7536.40	901.63	763.03	-500.42	1698250.69	401439.65	39°35'50.092"N	80°34'15.044"W	912.49	326.742	2.18	-0.14	2.18
8830.00	90.620	336.890	7535.47	995.60	849.62	-537.00	1698214.11	401526.23	39°35'50.343"N	80°34'15.524"W	1005.10	327.705	0.45	0.11	-0.44
8926.00	90.460	336.350	7534.56	1091.58	937.73	-575.09	1698176.02	401614.33	39°35'51.809"N	80°34'16.024"W	1100.03	328.480	0.59	-0.17	-0.56
9021.00	90.430	336.150	7533.82	1186.57	1024.68	-613.35	1698137.76	401701.28	39°35'52.664"N	80°34'16.526"W	1194.23	329.096	0.21	-0.03	-0.21
9116.00	90.460	336.520	7533.08	1281.55	1111.69	-651.48	1698099.64	401788.28	39°35'53.520"N	80°34'17.027"W	1288.52	329.628	0.39	0.03	0.39
9211.00	90.150	336.860	7532.58	1376.54	1198.94	-689.08	1698062.05	401875.52	39°35'54.377"N	80°34'17.520"W	1382.85	330.112	0.48	-0.33	0.36
9306.00	90.520	337.970	7532.02	1471.48	1286.65	-725.56	1698025.56	401963.23	39°35'55.240"N	80°34'18.000"W	1477.12	330.581	1.23	0.39	1.17
9401.00	90.340	338.690	7531.31	1566.37	1374.93	-760.64	1697990.49	402051.51	39°35'56.108"N	80°34'18.461"W	1571.31	331.048	0.78	-0.19	0.76
9496.00	90.370	338.920	7530.72	1661.22	1463.50	-794.98	1697956.14	402140.07	39°35'56.979"N	80°34'18.913"W	1665.48	331.489	0.24	0.03	0.24
9591.00	90.490	338.270	7530.01	1756.09	1551.95	-829.65	1697921.48	402228.51	39°35'57.849"N	80°34'19.370"W	1759.79	331.872	0.70	0.13	-0.68
9686.00	90.120	335.670	7529.50	1851.05	1639.37	-866.82	1697884.32	402315.93	39°35'58.709"N	80°34'19.858"W	1854.42	332.132	2.76	-0.39	-2.74
9780.00	90.090	331.750	7529.33	1944.98	1723.63	-908.44	1697842.69	402400.18	39°35'59.537"N	80°34'20.402"W	1948.37	332.208	4.17	-0.03	-4.17
9875.00	90.030	327.920	7529.23	2039.48	1805.75	-956.17	1697794.97	402482.30	39°36'00.343"N	80°34'21.025"W	2043.28	332.098	4.03	-0.06	-4.03
9969.00	90.090	330.460	7529.13	2132.89	1886.47	-1004.31	1697746.83	402563.02	39°36'01.135"N	80°34'21.652"W	2137.15	331.970	2.70	0.06	2.70
10064.00	89.750	336.550	7529.27	2227.78	1971.46	-1046.67	1697704.47	402648.00	39°36'01.970"N	80°34'22.206"W	2232.08	332.036	6.42	-0.36	6.41
10159.00	89.750	337.920	7529.68	2322.74	2059.05	-1083.43	1697667.71	402735.59	39°36'02.831"N	80°34'22.689"W	2326.70	332.248	1.44	0.00	1.44
10254.00	89.720	340.030	7530.12	2417.57	2147.72	-1117.51	1697633.63	402824.25	39°36'03.703"N	80°34'23.138"W	2421.06	332.511	2.22	-0.03	2.22
10350.00	89.880	341.140	7530.45	2513.20	2238.26	-1149.42	1697601.73	402914.78	39°36'04.594"N	80°34'23.559"W	2516.15	332.818	1.17	0.17	1.16
10445.00	89.880	341.620	7530.65	2607.72	2328.29	-1179.76	1697571.40	403004.81	39°36'05.480"N	80°34'23.960"W	2610.12	333.128	0.51	0.00	0.51
10540.00	89.850	340.010	7530.88	2702.32	2418.01	-1210.97	1697540.18	403094.52	39°36'06.363"N	80°34'24.373"W	2704.30	333.398	1.70	-0.03	-1.69
10635.00	89.850	338.060	7531.13	2797.14	2506.71	-1244.96	1697506.19	403183.22	39°36'07.236"N	80°34'24.821"W	2798.85	333.589	2.05	0.00	-2.05
10730.00	89.910	336.480	7531.33	2892.10	2594.33	-1281.67	1697469.49	403270.83	39°36'08.097"N	80°34'25.303"W	2893.66	333.709	1.66	0.06	-1.66
10825.00	89.850	335.550	7531.52	2987.09	2681.13	-1320.29	1697430.88	403357.63	39°36'08.951"N	80°34'25.810"W	2988.58	333.783	0.98	-0.06	-0.98
10921.00	90.050	335.980	7531.60	3083.09	2768.67	-1359.69	1697391.47	403445.16	39°36'09.811"N	80°34'26.326"W	3084.52	333.844	0.50	0.22	0.45
11015.00	90.030	338.110	7531.53	3177.53	2855.22	-1396.35	1697354.82	403531.71	39°36'10.662"N	80°34'26.808"W	3178.38	333.939	2.27	-0.03	2.27
11110.00	90.150	339.320	7531.38	3271.91	2943.74	-1430.84	1697320.33	403620.22	39°36'11.533"N	80°34'27.262"W	3273.05	334.077	1.28	0.13	1.27
11205.00	90.090	339.100	7531.18	3366.72	3032.55	-1464.55	1697286.61	403709.03	39°36'12.407"N	80°34'27.706"W	3367.68	334.222	0.24	-0.06	-0.23
11299.00	90.120	340.450	7531.01	3460.47	3120.75	-1497.05	1697254.12	403797.22	39°36'13.274"N	80°34'28.135"W	3461.25	334.373	1.44	0.03	1.44
11394.00	90.120	339.120	7530.81	3555.21	3209.90	-1529.88	1697221.30	403886.36	39°36'14.151"N	80°34'28.568"W	3555.84	334.517	1.40	0.00	-1.40
11489.00	90.030	336.690	7530.68	3650.13	3297.92	-1565.61	1697185.57	403974.37	39°36'15.017"N	80°34'29.038"W	3650.67	334.605	2.56	-0.09	-2.56

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Big 245 514369 AWP Proj: 14567'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot
Wetzel County, WV	Slot 514369
Wetzel	Well
Big 245 Pad	Wellbore
	Big 245 514369 AWB

WELLPATH DATA (153 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]
11584.00	90.150	335.780	7530.53	3745.12	3384.86	-1603.89	1697147.29	404061.31	39°36'15.872"N	80°34'29.540"W	3745.63	334.646	0.97	0.13	-0.96
11679.00	90.220	333.930	7530.23	3840.11	3470.85	-1644.26	1697106.93	404147.30	39°36'16.717"N	80°34'30.069"W	3840.62	334.652	1.95	0.07	-1.95
11774.00	90.120	332.920	7529.94	3935.04	3555.81	-1686.75	1697064.43	404232.26	39°36'17.551"N	80°34'30.625"W	3935.60	334.622	1.07	-0.11	-1.06
11869.00	90.120	333.390	7529.75	4029.95	3640.58	-1729.65	1697021.53	404317.01	39°36'18.384"N	80°34'31.186"W	4030.57	334.587	0.49	0.00	0.49
11964.00	90.060	332.700	7529.60	4124.86	3725.26	-1772.72	1696978.47	404401.69	39°36'19.216"N	80°34'31.749"W	4125.54	334.552	0.73	-0.06	-0.73
12059.00	90.090	333.050	7529.47	4219.75	3809.81	-1816.03	1696935.16	404486.23	39°36'20.046"N	80°34'32.315"W	4220.50	334.514	0.37	0.03	0.37
12154.00	90.250	333.670	7529.19	4314.68	3894.72	-1858.63	1696892.57	404571.14	39°36'20.880"N	80°34'32.872"W	4315.48	334.489	0.67	0.17	0.65
12250.00	89.940	333.690	7529.03	4410.63	3980.77	-1901.19	1696850.01	404657.18	39°36'21.726"N	80°34'33.429"W	4411.47	334.471	0.32	-0.32	0.02
12345.00	89.850	332.080	7529.20	4505.52	4065.32	-1944.49	1696806.71	404741.74	39°36'22.556"N	80°34'33.995"W	4506.43	334.438	1.70	-0.09	-1.69
12439.00	89.850	336.770	7529.45	4599.47	4150.09	-1985.06	1696766.15	404826.50	39°36'23.389"N	80°34'34.527"W	4600.40	334.437	4.99	0.00	4.99
12534.00	89.660	340.750	7529.86	4694.31	4238.62	-2019.46	1696731.74	404915.02	39°36'24.280"N	80°34'34.980"W	4695.12	334.525	4.19	-0.20	4.19
12629.00	89.910	341.350	7530.21	4788.87	4328.47	-2050.31	1696700.89	405004.86	39°36'25.144"N	80°34'35.388"W	4789.51	334.654	0.68	0.26	0.63
12725.00	89.720	340.550	7530.52	4884.45	4419.21	-2081.65	1696669.56	405095.60	39°36'26.037"N	80°34'35.802"W	4884.94	334.777	0.86	-0.20	-0.83
12819.00	89.750	337.380	7530.96	4978.28	4506.93	-2115.38	1696635.83	405183.32	39°36'26.900"N	80°34'36.246"W	4978.68	334.856	3.37	0.03	-3.37
12915.00	89.660	335.090	7531.45	5074.26	4594.79	-2154.07	1696597.14	405271.17	39°36'27.764"N	80°34'36.754"W	5074.65	334.882	2.39	-0.09	-2.39
13009.00	89.720	335.230	7531.96	5168.26	4680.09	-2193.55	1696557.66	405356.46	39°36'28.602"N	80°34'37.271"W	5168.65	334.888	0.16	0.06	0.15
13104.00	90.060	336.060	7532.14	5263.26	4766.63	-2232.73	1696518.49	405443.00	39°36'29.453"N	80°34'37.785"W	5263.64	334.901	0.94	0.36	0.87
13199.00	90.220	337.620	7531.91	5358.23	4853.97	-2270.09	1696481.13	405530.34	39°36'30.311"N	80°34'38.276"W	5358.58	334.936	1.65	0.17	1.64
13294.00	90.370	337.390	7531.42	5453.18	4941.74	-2306.44	1696444.78	405618.10	39°36'31.174"N	80°34'38.754"W	5453.49	334.980	0.29	0.16	-0.24
13389.00	90.150	336.590	7530.99	5548.15	5029.18	-2343.57	1696407.65	405705.54	39°36'32.034"N	80°34'39.241"W	5548.43	335.015	0.87	-0.23	-0.84
13483.00	90.180	334.970	7530.72	5642.14	5114.91	-2382.14	1696369.09	405791.25	39°36'32.877"N	80°34'39.747"W	5642.41	335.027	1.72	0.03	-1.72
13578.00	90.220	336.690	7530.39	5737.14	5201.57	-2421.03	1696330.20	405877.92	39°36'33.729"N	80°34'40.257"W	5737.40	335.041	1.81	0.04	1.81
13674.00	90.250	335.500	7530.00	5833.13	5289.34	-2459.93	1696291.30	405965.67	39°36'34.591"N	80°34'40.768"W	5833.38	335.058	1.24	0.03	-1.24
13769.00	90.310	336.030	7529.53	5928.13	5375.96	-2498.93	1696252.31	406052.30	39°36'35.443"N	80°34'41.279"W	5928.37	335.069	0.56	0.06	0.56
13863.00	90.250	338.180	7529.07	6022.09	5462.55	-2535.49	1696215.74	406138.88	39°36'36.294"N	80°34'41.760"W	6022.31	335.101	2.29	-0.06	2.29
13958.00	90.280	340.060	7528.63	6116.90	5551.31	-2569.35	1696181.89	406227.63	39°36'37.167"N	80°34'42.206"W	6117.07	335.164	1.98	0.03	1.98
14053.00	90.430	337.740	7528.04	6211.74	5639.93	-2603.55	1696147.69	406316.25	39°36'38.039"N	80°34'42.656"W	6211.87	335.221	2.45	0.16	-2.44
14147.00	89.600	338.660	7528.02	6305.64	5727.21	-2638.46	1696112.79	406403.52	39°36'38.897"N	80°34'43.116"W	6305.74	335.265	1.32	-0.88	0.98
14243.00	89.630	340.730	7528.66	6401.38	5817.24	-2671.77	1696079.48	406493.54	39°36'39.783"N	80°34'43.555"W	6401.45	335.331	2.16	0.03	2.16
14338.00	89.660	340.530	7529.25	6496.02	5906.86	-2703.27	1696047.97	406583.15	39°36'40.665"N	80°34'43.972"W	6496.05	335.409	0.21	0.03	-0.21

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Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 AWB
Facility	Big 245 Pad		

WELLPATH DATA (153 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]
14433.00	89.880	340.800	7529.63	6590.64	5996.50	-2734.73	1696016.52	406672.79	39°36'41.547"N	80°34'44.387"W	6590.65	335.484	0.37	0.23	0.28
14528.00	89.820	340.740	7529.88	6685.25	6086.20	-2766.02	1695985.23	406762.48	39°36'42.430"N	80°34'44.801"W	6685.25	335.559	0.09	-0.06	-0.06
14567.00	89.820	340.740	7530.01	6724.10	6123.01	-2778.88	1695972.37	406799.30	39°36'42.792"N	80°34'44.971"W	6724.10	335.589	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Big 245 514369 AWB Ref Wellpath: Big 245 514369 AWP Proj: 14567

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]	End E/W [ft]
17.5in Open Hole	25.00	1189.00	1164.00	25.00	1189.00	0.00	-0.84	0.00	-0.84	-0.75
13.375in Casing Surface	25.00	1189.00	1164.00	25.00	1189.00	0.00	-0.84	0.00	-0.84	-0.75
12.25in Open Hole	1189.00	2865.00	1676.00	1189.00	2863.96	-0.84	-11.69	-0.75	-11.69	-13.84
9.625in Casing Intermediate	25.00	2865.00	2840.00	25.00	2863.96	0.00	-11.69	0.00	-11.69	-13.84
8.75in Open Hole	2865.00	5953.00	3088.00	2863.96	5951.52	-11.69	-19.90	-13.84	-19.90	-29.55
8.5in Open Hole	5953.00	14567.00	8614.00	5951.52	7530.01	-19.90	6123.01	-29.55	6123.01	-2778.88
5.5in Casing Production	25.00	14567.00	14542.00	25.00	7530.01	0.00	6123.01	0.00	6123.01	-2778.88

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Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 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 514369 LP Rev-1	7521.00	64.40	-170.01	1698581.08	400741.06	39°35'43.226"N	80°34'10.717"W	point
Big 245 514369 BHL Rev-1	7535.20	6119.17	-2788.65	1695962.60	406795.45	39°36'42.753"N	80°34'45.095"W	point
Big 245 HL1 Rev-1	7600.00	0.00	0.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon
Big 245 HL2 Rev-1	7600.00	0.00	0.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon
Big 245 HL3 Rev-1	7600.00	0.00	0.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon
Big 245 HL4 Rev-1	7600.00	0.00	0.00	1698751.08	400676.66	39°35'42.610"N	80°34'08.536"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: Big 245 514369 AWB Ref Wellpath: Big 245 514369 AWP Proj: 14567

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	5910.00	Gyrodata standard - Continuous gyro	01_Gyrodata Cont Gyro <8-3/4">{(110'-5908')}	Big 245 514369 AWB
5910.00	14528.00	OWSG MWD rev2 - Standard	02_BHAT Curve + MagVar MSA <8-1/2">{(5910') (5983'-14528')}	Big 245 514369 AWB
14528.00	14567.00	Blind Drilling (std)	Projection to bit	Big 245 514369 AWB

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Actual Wellpath Report

Big 245 514369 AWP Proj: 14567

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 514369
Area	Wetzel County, WV	Well	Big 245 514369
Field	Wetzel	Wellbore	Big 245 514369 AWB
Facility	Big 245 Pad		

COMMENTS

Wellpath general comments
 API: 47-103-03234-0000
 BH Job#: 109787884
 Rig: Patterson 578
 Duration: 5/12/2019 - 5/17/2019
 01_Gyrodatta Cont Gyro <8-3/4">(110'-5908')
 02_BH AT Curve + MagVar MSA <8-1/2">(5910')(5983'-14528')
 Projected MD at TD: 14567'

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EQT

Location: Wetzell County, WV
 Field: Wetzell
 Facility: Big 245 Pad

Slot: Slot 514369
 Well: Big 245 514369
 Wellbore: Big 245 514369 PWB



Gyrodata Cont Gyro <math>-8.3/4^{\circ}> (110^{\circ}-5908^{\circ}) : 0.18^{\circ} \text{ inc. } 112.00\text{ft MD, } 112.00\text{ft TVD, } -0.11\text{ft VS}

Property	Value
Grid System	NAD83 / Lambert West (Original SIP, Northern Zone 4375), US Feet
North Reference	Grid north
Scale	True distance
Measurements are referenced to	Patterson 578 (RKB)
Profile 578 (RKB) to Mean Sea Level	1452 ft
Profile 578 (RKB) to Mean Sea Level	1452 ft
Mean Sea Level to Mud line (At Slot: Slot 514369)	1452 ft
Coordinates are as last referenced to	Database: W井, EASTERNUS, GCS

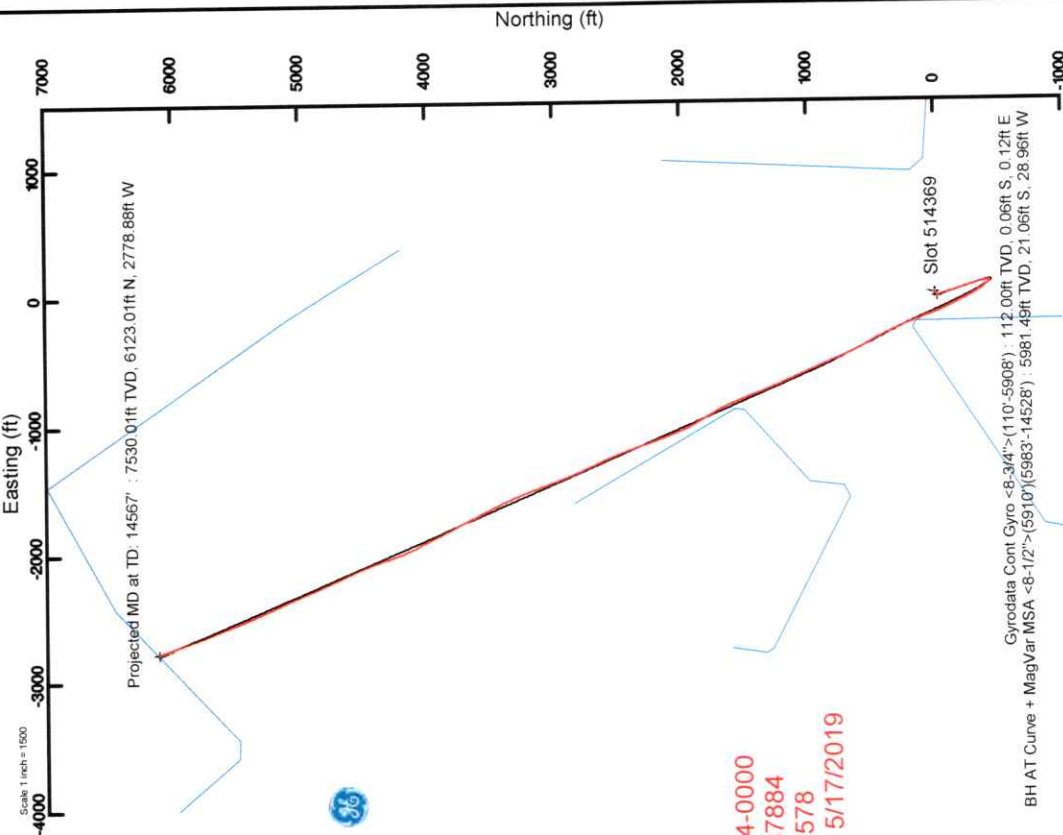
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Big 245 Pad	1698785.280	400723.660	80°34'08.105"W
Slot	Local E (ft)	Local N (ft)	Local E (ft)
Slot 514369	-47.00	-34.20	39°35'42.610"N
Patterson 578 (RKB) to Mud line (At Slot: Slot 514369)	1698751.000	400676.660	258
Mean Sea Level to Mud line (At Slot: Slot 514369)			-14308
Patterson 578 (RKB) to Mean Sea Level			14508

Well Profile Data								
Design Comment	MD (ft)	Inc (ft)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (1/1000)	VS (ft)
This On	5910.00	0.280	53.280	5908.53	-19.36	-29.96	0.15	-5.19
PTB	5953.00	0.280	53.280	5951.53	-19.24	-29.81	0.00	-5.15
Hold	6450.59	39.723	162.140	6410.29	-176.27	21.96	8.00	-169.50
KCP	6678.97	39.723	162.140	6638.54	-315.18	66.72	0.00	-314.47
LP	7974.28	90.000	337.000	7521.00	64.40	-170.01	10.00	229.13
Turn	8074.28	90.000	337.000	7521.00	156.46	-259.09	0.00	229.13
Hold	8187.62	90.000	333.600	7521.00	259.40	-256.44	0.00	682.29
Turn	8827.67	90.000	333.600	7521.00	527.70	-246.44	0.00	1095.40
Hold	8841.00	90.000	337.000	7521.00	659.38	-249.38	3.00	2054.04
Drip	10590.17	89.800	337.000	7521.01	2370.68	-1192.59	0.00	2690.70
Hold	10595.15	89.800	337.000	7521.01	2377.01	-1200.20	3.00	2690.70
BHL	14572.18	89.800	337.000	7525.20	6119.17	-2788.65	0.00	6724.64

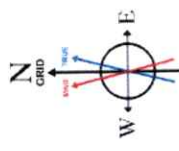
BH AT Curve + MagVar MSA <math>-8.1/2^{\circ}> (5910^{\circ}) (5983^{\circ}-14528^{\circ}) : 3.14^{\circ} \text{ inc. } 5983.00\text{ft MD, } 5981.49\text{ft TVD, } -7.15\text{ft VS}

Projected MD at TD: 14567' : 89.82° inc. 14567.00ft MD, 7530.01ft TVD, 6724.09ft VS

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User specified Dip: 66.83° Field: 52001 nT
 Magnetic North is 8.50 degrees West of True North (at 5/2/2019)
 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





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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