



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 4, 2025
WELL WORK PERMIT
Horizontal 6A / Fracture

EQT PRODUCTION COMPANY
2200 ENERGY DRIVE

CANONSBURG , PA 15317

Re: Permit approval for BIG 177 H15
47-103-03191-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

H. Jason Harmon
Acting Chief

A handwritten signature in black ink, appearing to read "Jason Harmon", is written over a light blue rectangular background.

Operator's Well Number: BIG 177 H15
Farm Name: COASTAL FOREST RESOURCES CO. D/B/A COASTAL T⁺
U.S. WELL NUMBER: 47-103-03191-00-00
Horizontal 6A Fracture
Date Issued: 12/4/2025

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 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. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

12/05/2025

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: EQT Production Company 306686 Wetzel Grant Big Run
Operator ID County District Quadrangle
- 2) Operator's Well Number: H15 Well Pad Name: BIG177
- 3) Farm Name/Surface Owner: Coastal Forest Resources Co. Public Road Access: Rt 19
- 4) Elevation, current ground: 811' Elevation, proposed post-construction: 811'
- 5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐
Other ☐
(b) If Gas Shallow ☒ Deep ☐
Horizontal ☒
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6,849', 51', 2,620 PSI
- 8) Proposed Total Vertical Depth: As Drilled: 6,881'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: As Drilled: 15,382'
- 11) Proposed Horizontal Leg Length: As Drilled: 7,407'
- 12) Approximate Fresh Water Strata Depths: 185, 295, 495, 645
- 13) Method to Determine Fresh Water Depths: Wells Drilled - see attached WR-35
- 14) Approximate Saltwater Depths: 1150, 1465
- 15) Approximate Coal Seam Depths: 115, 168, 446, 510
- 16) Approximate Depth to Possible Void (coal mine, karst, other): none anticipated
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☒
- (a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A500	85.6	80'	80' ✓	196 / CTS
Fresh Water	13 3/8	New	J-55	54.5	768'	768' ✓	864 / CTS
Coal							
Intermediate	9 5/8	New	A500	40	2731'	2731' ✓	1187 / CTS ✓
Production	5 1/2	New	P-110	20	15,367'	15,367' ✓	3514 / 362
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1000	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A	1.13
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class H	1.02
Production	5 1/2	8 3/4 & 8 1/2	0.361	14360	11488	Class A	1.09
Tubing							
Liners							

PACKERS

Kind:				WV Department of Environmental Protection
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Complete a horizontal well in the Marcellus Formation previously drilled.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): NA - site built

22) Area to be disturbed for well pad only, less access road (acres): NA - site built

23) Describe centralizer placement for each casing string:

Completed
Conductor: None
Surface: On shoe track and every 500' to surface
Intermediate: On shoe track and every 500' to surface
Production: On shoe track and every joint to 2,008'

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24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives
Surface: Calcium Chloride. Used to speed the setting of cement slurries
Intermediate: Calcium Chloride. Used to speed the setting of cement slurries. If applicable: Gas Migration Control Additive, Cement Retarder
Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

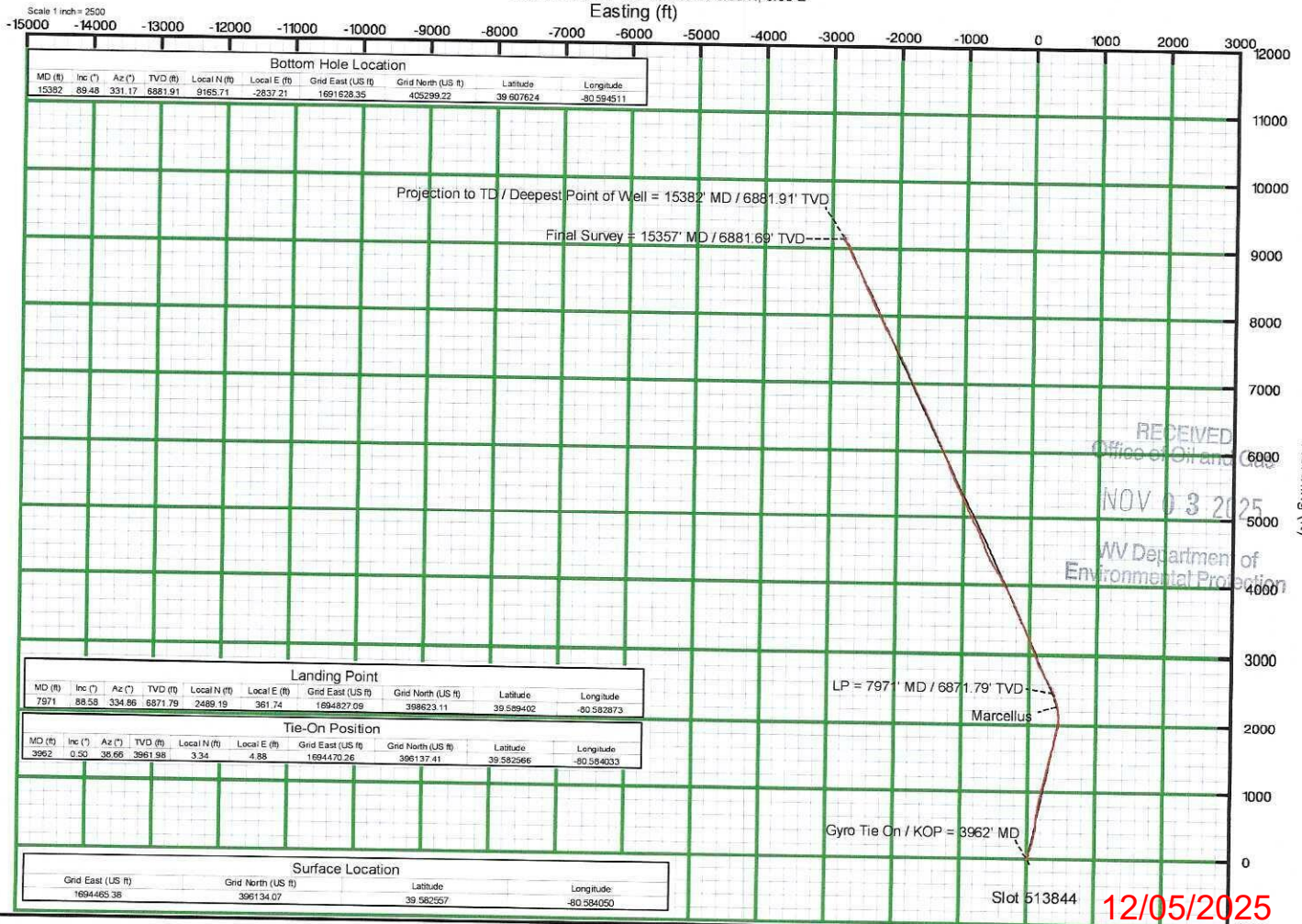
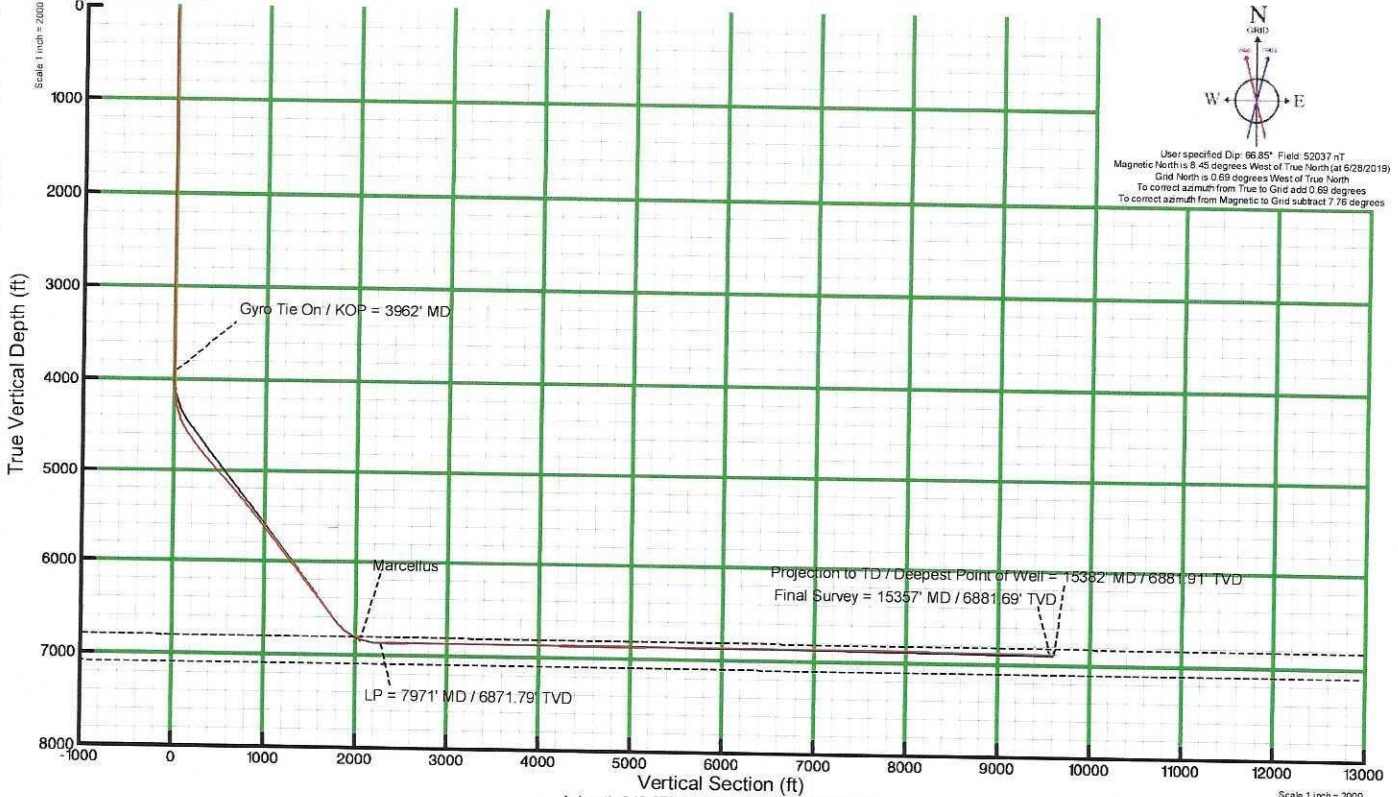
Completed
Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.



Where energy meets innovation.

Ground elevation = 811 ft
KB elevation = 836 ft
All measurements are taken from KB elevation



WW-9
(4/16)

API Number 47 - 103 - 03191

Operator's Well No. BIG177 H15

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) Wiley Fork of North Fork Fishing Creek Quadrangle Big Run

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: N/A

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

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application
- ☒ Underground Injection (UIC Permit Number 0014, 8462, 4037)
- ☒ Reuse (at API Number Various)
- ☒ Off Site Disposal (Supply form WW-9 for disposal location)
- ☐ Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, the closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

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

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

Additives to be used in drilling medium? see attached

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

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

-Landfill or offsite name/permit number? See attached list

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 August 1, 2005, 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) Branden Weimer

Company Official Title Regional Manager - Permitting

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WV Department of
Environmental Protection

Subscribed and sworn before me this 31st day of October, 2025

Kristen Brooks

Notary Public

My commission expires February 17, 2029

Commonwealth of Pennsylvania - Notary Seal
Kristen Brooks, Notary Public
Fayette County
My commission expires February 17, 2029
Commission number 1285524
Member, Pennsylvania Association of Notaries

12/03/2025

EQT Production CompanyProposed Revegetation Treatment: Acres Disturbed No additional Prevegetation pH 5.2Lime 3 Tons/acre or to correct to pH 6.5Fertilizer type Granular 10-20-20Fertilizer amount 500 lbs/acreMulch 2 Tons/acre**Seed Mixtures****Temporary****Permanent**

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

 Plan Approved by: **Stephen Mccoy**
 Digitally signed by Stephen Mccoy
 Date: 2025.10.23 11:17:48 -04'00'

Comments: _____

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Title: _____ Date: _____

Field Reviewed? () Yes () No

12/05/2025

Digitally signed by
Stephen McCoy
Date: 2025.10.23
11:13:24 -04'00'

Topo Quad: Big Run 7.5'

Scale: 1" = 1000'

County: Wetzel

Date: January 30, 2025

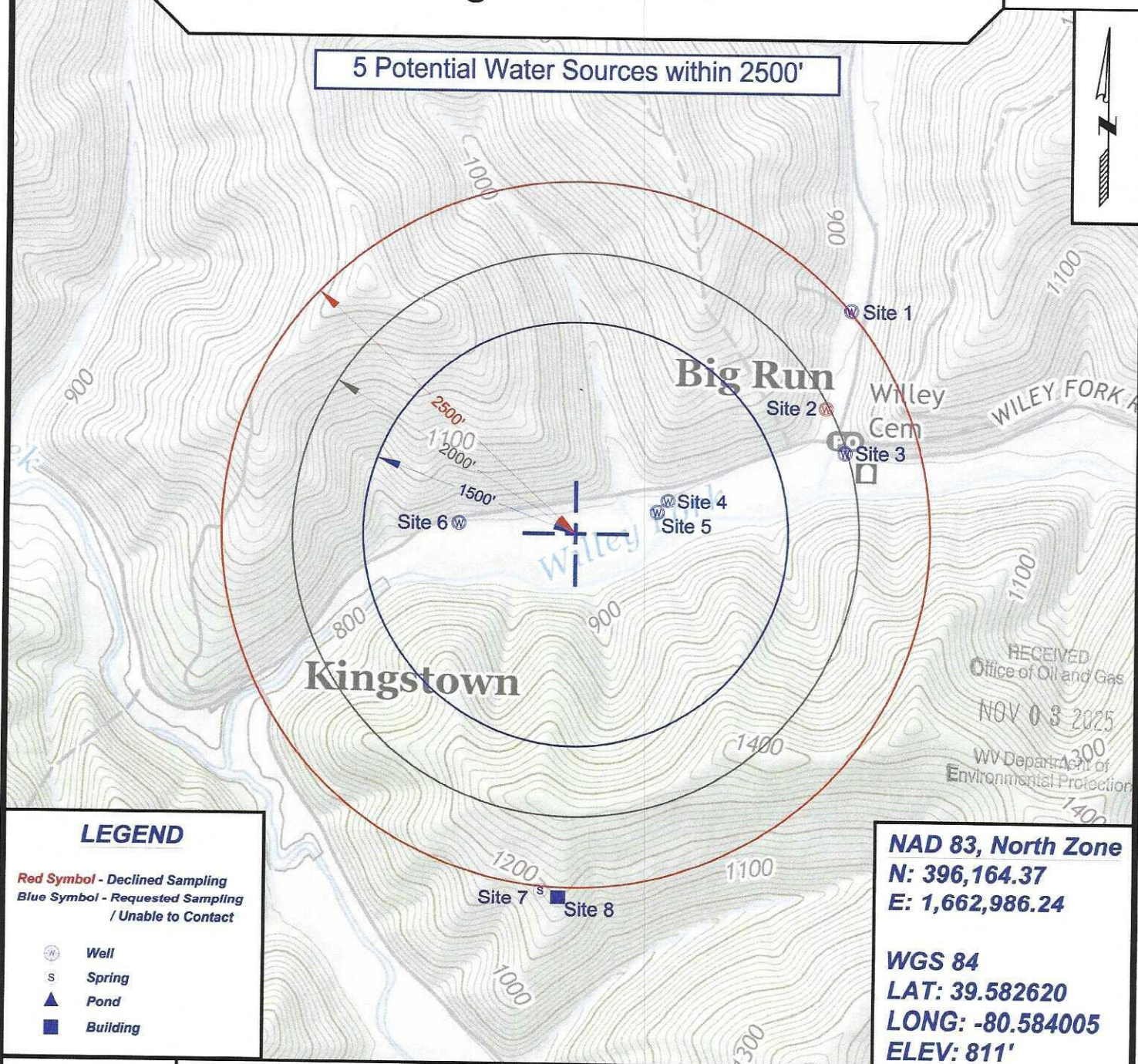
District: Grant

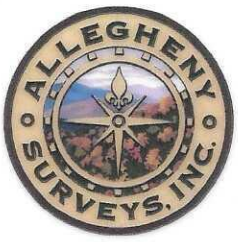
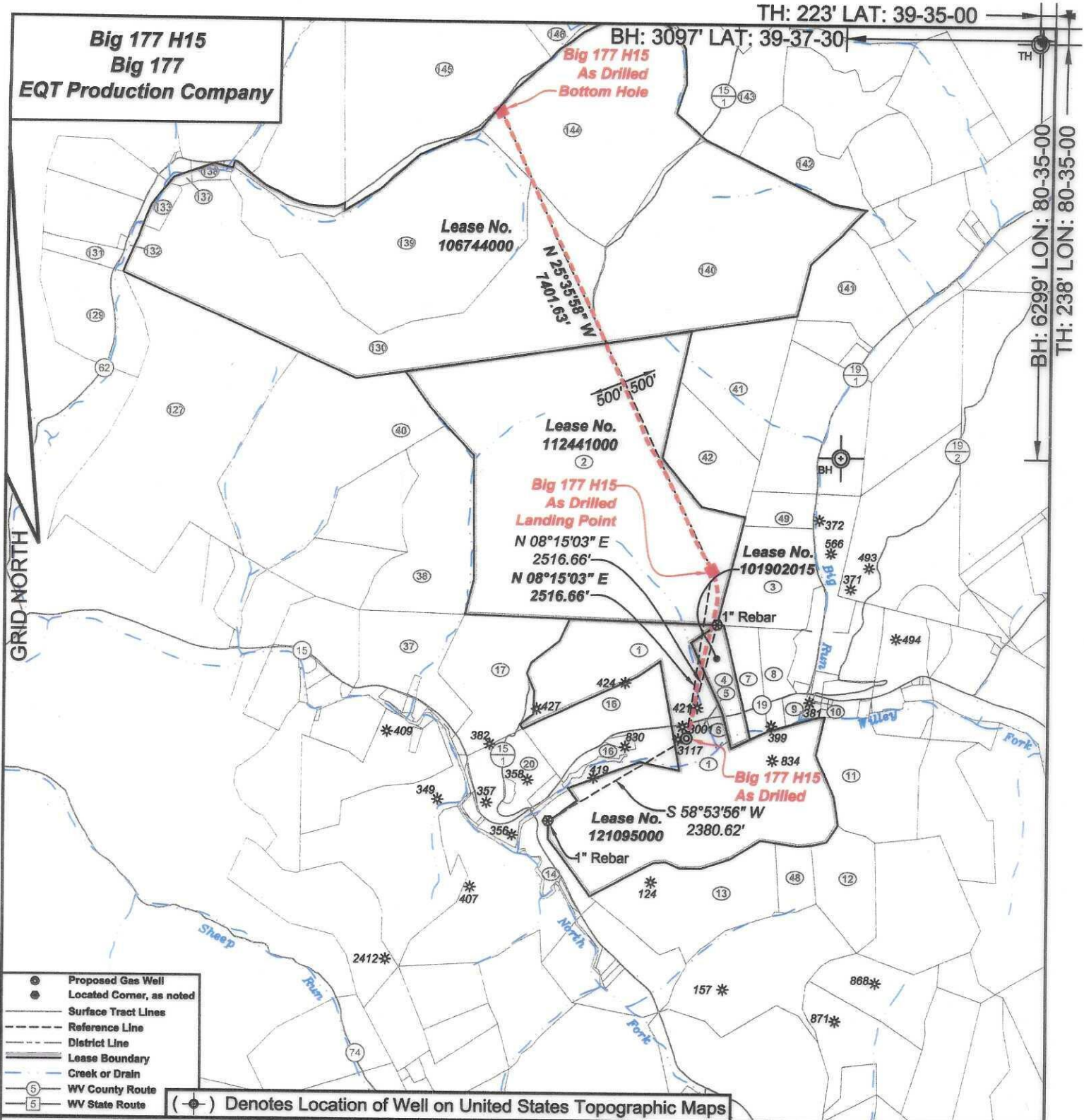
Project No: 352-18-M-23

Water

Big 177 Well Pad

5 Potential Water Sources within 2500'





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 Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



FILE NO: 352-23
DRAWING NO: Big 177 H15
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

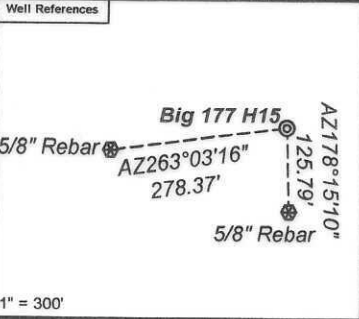
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: October 10 20 25
OPERATOR'S WELL NO.: Big 177 H15
API WELL NO
47 - 103 - 03191
STATE COUNTY PERMIT

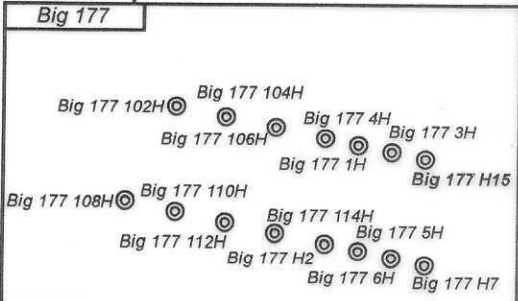
WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: 810.5' WATERSHED Willey Fork of North Fork Fishing Creek QUADRANGLE: Big Run
DISTRICT: Grant COUNTY: Wetzel
SURFACE OWNER: Coastal Forest Resources Company ACREAGE: 217.19
ROYALTY OWNER: Coastal Forest Resources Company, et al. LEASE NO: 121095000 ACREAGE: 300
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6849'
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 2200 Energy Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

Big 177 H15
Big 177
EQT Production Company

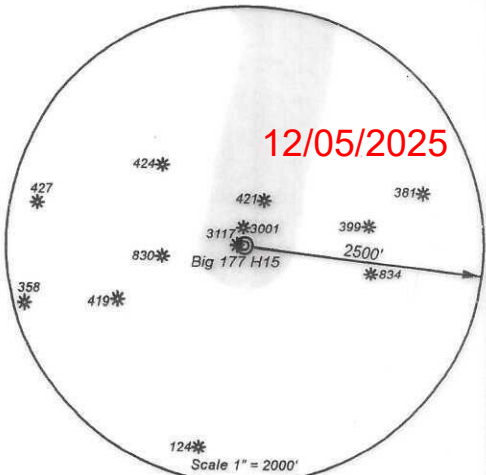
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	13	6	Wetzel	Grant	Coastal Forest Resources Company	217.19
2	8	18	Wetzel	Grant	Coastal Forest Resources Company	337
3	8	23.2	Wetzel	Grant	James L. Dulaney	43.19
4	8	35	Wetzel	Grant	John D. Parks	15.5
5	8	66	Wetzel	Grant	EQM Gathering OPOO LLC	0.418
6	8	65	Wetzel	Grant	Ikey Joe & Tina M. Willey	2.15
7	8	36	Wetzel	Grant	James L. & Karen Dulaney	14.1
8	8	37	Wetzel	Grant	James L. & Karen Dulaney	14.1
9	8	43	Wetzel	Grant	Judy K. Utt	3.25
10	8	45	Wetzel	Grant	Dale K. Dulaney	9.828
11	13	7	Wetzel	Grant	Mansel Lee McDiffitt, et al.	51.8
12	13	15	Wetzel	Grant	Robert Scott & Alfred Bryan Cole	27.75
13	13	13	Wetzel	Grant	Linda L. Dunn	67.5
14	13	12	Wetzel	Grant	Leslie Lydick & Susan Miracle	15.02
16	13	6.1	Wetzel	Grant	Coastal Forest Resources Company	55.06
17	8	34	Wetzel	Grant	Hallie M. & Paul E. Hardbarger	54.01
20	13	4	Wetzel	Grant	Jeffrey L. & Beth Willey	26.8
37	7	34	Wetzel	Grant	Kenneth E. Wildman Life Estate	44.6
38	8	17	Wetzel	Grant	Kenneth E. Wildman Life Estate	67
40	7	10	Wetzel	Grant	Coastal Forest Resources Company	120
41	8	10	Wetzel	Grant	Mark W. Minor, et al.	48.1
42	8	19	Wetzel	Grant	Phillip Brent & Kimberly Shreve	46.45
48	13	14	Wetzel	Grant	Linda L. Dunn	12.5
49	8	23	Wetzel	Grant	Dale K. Dulaney	43.19
127	7	9	Wetzel	Grant	Coastal Forest Resources Company	170.88
129	7	5	Wetzel	Grant	Christopher M. Morgan, et al.	74
130	7	3	Wetzel	Grant	Coastal Forest Resources Company	178
131	7	60	Wetzel	Grant	Oody Norris	10
132	7	2.2	Wetzel	Grant	Oody Norris	2.43
133	7	3.1	Wetzel	Grant	Edward L. Dulaney, et al.	4
137	2	15	Wetzel	Grant	Teora L. & Sandra J. Dulaney	1.023
138	2	16	Wetzel	Grant	Teora L. & Sandra J. Dulaney	3.187
139	7	3.2	Wetzel	Grant	Coastal Forest Resources Company	156.98
140	8	1	Wetzel	Grant	Danny & Dustin Stockslager	170
141	8	12	Wetzel	Grant	Shirley A. Titus	41.9
142	3	24	Wetzel	Grant	Coastal Forest Resources Company	35.89
143	3	14	Wetzel	Grant	Owen E. & Saloma D. Schmucker	70.5
144	3	23	Wetzel	Grant	Coastal Forest Resources Company	167.75
145	3	13	Wetzel	Grant	Edward L. Dulaney	164.75
146	3	5	Wetzel	Grant	Coastal Forest Resources Company	179



As Drilled Well Information:
Big 177 H15 coordinates are
NAD 27 N: 396,134.06 E: 1,694,465.38
NAD 83 UTM N: 4,381,518.73 E: 535,736.68
Big 177 H15 Landing Point coordinates are
NAD 27 N: 398,624.64 E: 1,694,826.42
NAD 83 UTM N: 4,382,279.36 E: 535,834.04
Big 177 H15 Bottom Hole coordinates are
NAD 27 N: 405,299.73 E: 1,691,628.15
NAD 83 UTM N: 4,384,296.71 E: 534,825.77
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, corner and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.



Lease No.	Owner	Acres
121095000	Coastal Forest Resources Company, et al.	300
101902015	ET Blue Grass, LLC., et al.	16
112441000	EQT Production Company	300
106744000	Shiben Estates, Inc., et al.	1030



INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See attached list				

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company

By: Branden Weimer

Its: Regional Manager - Permitting

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>121095000</u>	<u>Coastal Forest Resources Company, et al.</u> James V. Higgins The Philadelphia Company of West Virginia Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC, et al. Equitrans, L.P.	300 ac	The Philadelphia Company of West Virginia Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, L.P. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 60/414 OG 22A/352 DB 187/321 OG 71A/453 Corp. Book 13/213 Misc 105/908 OG 131A/81
<u>101902015</u>	<u>ET Blue Grass, LLC., et al.</u> Julia Wiley, widow and Hursel Wiley Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC, et al. Equitrans, L.P.	16 ac	Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, L.P. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 48A/147 OG 71A/453 Corp. Book 13/213 Misc 105/908 OG 131A/81
<u>112441000</u>	<u>EQT Production Company</u> J.B. Hicks The Philadelphia Company of West Virginia Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC, et al. Equitrans, L.P. Equitable Production Company	300 ac	The Philadelphia Company of West Virginia Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, L.P. Equitable Production - Easter States, Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 47/441 OG 22A/352 DB 187/321 OG 71A/453 Corp. Book 13/213 Misc 105/908 OG 379A/106 Corp. Book 13/14
<u>106744000</u>	<u>Shiben Estates, Inc., et al.</u> Shiben Estates, Inc.	1030 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 182A/84

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EQT PRODUCTION COMPANY
2200 Energy Drive | Canonsburg, PA 15317

October 23, 2025

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

Re: BIG177 H15
Grant District, Wetzel County, WV

Dear Mr. Brewer,

EQT Production Company is applying for a well work permit for the well referenced above. Upon information and belief, the Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

A handwritten signature in black ink, appearing to read 'Branden Weimer'.

Branden Weimer
Regional Manager - Permitting

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Office of Oil and Gas

NOV 03 2025

WV Department of
Environmental Protection

12/05/2025

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Wetzel Chronicle

Public Notice Date: 10/15/25 & 10/22/25

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads **or** utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: EQT Production Company **Well Number:** BIG177 H2, H7, and H15

Address: 2200 Energy Drive, Canonsburg, PA 15317

Business Conducted: Natural gas production.

Location –

State: West Virginia

County: Wetzel

District: Grant

Quadrangle: Big Run

UTM Coordinate NAD83 Northing: H2 - 4381511.07; H7 - 4381509.38; H15 - 4381518.73

UTM coordinate NAD83 Easting: H2 - 535727.88; H7 - 535736.86; H15 - 535736.68

Watershed: Willey Fork of North Fork Fishing Creek

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

12/05/2025

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 10/31/25

API No. 47- 103 - 03191

Operator's Well No. H15

Well Pad Name: BIG177

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: West Virginia
County: Wetzel
District: Grant
Quadrangle: Big Run
Watershed: Willey Fork of North Fork Fishing Creek

UTM NAD 83 Easting: 535736.68
Northing: 4381518.73
Public Road Access: Rt 19/Willey Fork Rd.
Generally used farm name: BIG177

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (i) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- ☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- ☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☒ NO PLAT SURVEY WAS CONDUCTED
- ☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or
- ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- ☒ 4. NOTICE OF PLANNED OPERATION
- ☒ 5. PUBLIC NOTICE
- ☒ 6. NOTICE OF APPLICATION

OOG OFFICE USE ONLY

- ☐ RECEIVED/
NOT REQUIRED
- ☐ RECEIVED
- ☐ RECEIVED/
NOT REQUIRED
- ☐ RECEIVED
- ☐ RECEIVED
- ☐ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

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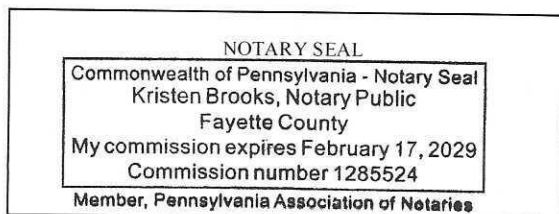
12/05/2025

Certification of Notice is hereby given:

THEREFORE, I Branden Weimer, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator: EQT Production Company
By: Branden Weimer *[Signature]*
Its: Regional Manager - Permitting
Telephone: 844-378-5263

Address: 2200 Energy Drive
Canonsburg, PA 15317
Facsimile: _____
Email: _____



Subscribed and sworn before me this 31st day of October, 2025

Kristen Brooks Notary Public

My Commission Expires February 17, 2029

Oil and Gas Privacy Notice:

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

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WV Department of
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**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 10/23/2025 **Date Permit Application Filed:** 11/3/25

Notice of:

- ☒ PERMIT FOR ANY WELL WORK ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- ☐ PERSONAL SERVICE ☐ REGISTERED MAIL ☒ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☒ Application Notice ☒ WSSP Notice ☒ E&S Plan Notice ☒ Well Plat Notice is hereby provided to:

☒ SURFACE OWNER(s)

Name: see attached

Address: _____

Name: _____

Address: _____

☒ SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: see attached

Address: _____

Name: _____

Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)

Name: _____

Address: _____

☒ COAL OWNER OR LESSEE

Name: see attached

Address: _____

☐ COAL OPERATOR

Name: _____

Address: _____

☒ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: see attached

Address: _____

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____

Address: _____

*Please attach additional forms if necessary

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Environmental Protection

12/05/2025

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

12/05/2025

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A
(8-13)

API NO. 47- 103 - 03191
OPERATOR WELL NO. H15
Well Pad Name: BIG177

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 844-378-5263

Email: branden.weimer@eqt.com



Address: 2200 Energy Drive

Canonsburg, PA 15317

Facsimile: _____

Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal
Kristen Brooks, Notary Public
Fayette County
My commission expires February 17, 2029
Commission number 1285524

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 31st day of October, 2025

Kristen Brooks

Notary Public

My Commission Expires February 17, 2029

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 10/23/2025

Date Permit Application Filed: 11/3/25

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

☐ HAND

DELIVERY

☒ CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Coastal Forest Resources Co.

Address: PO Box 1023

Havana, FL 32333

Name: _____

Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Wetzel
District: Grant
Quadrangle: Big Run
Watershed: Willey Fork of North Fork Fishing Creek

UTM NAD 83 Easting: 535736.68
Northing: 4381518.73
Public Road Access: Rt 19
Generally used farm name: BIG177

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company

Address: 2200 Energy Drive

Canonsburg, PA 15317

Telephone: 844-378-5263

Email: kristen.brooks@eqt.com

Facsimile: _____

Authorized Representative: Branden Weimer

Address: 2200 Energy Drive

Canonsburg, PA 15317

Telephone: 844-378-5263

Email: branden.weimer@eqt.com

Facsimile: _____

NOV 03 2025

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

12/05/2025

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 10/23/2025

Date Permit Application Filed: 11/3/25

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

☒ **CERTIFIED MAIL**
RETURN RECEIPT REQUESTED

☐ **HAND**
DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Coastal Forest Resources Co.

Name: _____

Address: PO Box 1023

Address: _____

Havana, FL 32333

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Wetzel
District: Grant
Quadrangle: Big Run
Watershed: Willey Fork of North Fork Fishing Creek

UTM NAD 83 Easting: 535736.68
Northing: 4381518.73
Public Road Access: Rt 19/Willey Fork Rd
Generally used farm name: BIG177

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: EQT Production Company

Address: 2200 Energy Drive

Telephone: 844-378-5263

Canonsburg, PA 15317

Email: kristen.brooks@eqt.com

Facsimile: _____

RECEIVED
Office of Oil and Gas

NOV 03 2025

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

12/05/2025

WW-6RW
(1-12)

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Office of Oil and Gas

MAY 30 2017

WV Department of
Environmental Protection

EQT PRODUCTION COMPANY

PO BOX 280

BRIDGEPORT, WV 26330-0280

API NO. 47-

OPERATOR WELL NO. H15-513844

Well Pad Name: BIG 177

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, EQT Production Company is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.

WAIVER

I, _____, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia
County: Wetzel
District: Grant
Quadrangle: Big Run 7.5"
Watershed: Willay Fork

UTM NAD 83 Easting: _____
UTM NAD 83 Northing: _____
Public Road Access: _____
Generally used farm name: _____

CR 19 / Willey Fork Road

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WV Department of
Environmental Protection

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- ☐ EXISTING WATER WELLS
☐ DEVELOPED SPRINGS
☒ DWELLINGS
☐ AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

Signature: [Signature]
Print Name: Ikey Joe Willey

Date: 7-31-2013

FOR EXECUTION BY A CORPORATION

Company: _____

By: _____

Its: _____

Signature: _____

Date: _____

Well Operator: EQT Production Company

By: John W. Damato

Its: Attorney-in-Fact

Signature: [Signature]

Telephone: _____

OFFICIAL SEAL
COMMISSIONER FOR WEST VIRGINIA
Bryson J. Karp
Weston, WV
My Commission Expires January 1, 2021

Subscribed and sworn before me this 31 day of July 2013

[Signature] Notary Public

My Commission Expires Jan 1 2021

Oil and Gas Privacy Notice:

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

12/05/2025

WW-6RW
(1-12)

RECEIVED
Office of Oil and Gas

MAY 30 2017

EQT PRODUCTION COMPANY

PO BOX 280

BRIDGEPORT, WV 26330-0280

API NO. 47-

OPERATOR WELL NO. H15-513844

Well Pad Name: BIG 177

WV Department of
Environmental Protection

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County: Wetzel
District: Grant
Quadrangle: Big Run 7.5"
Watershed: Willey Fork

UTM NAD 83 Easting: _____
UTM NAD 83 Northing: _____
Public Road Access: _____
Generally used farm name: _____

CR 19 / Willey Fork Road

NOV 05 2013
WV Department of
Environmental Protection

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- ☐ EXISTING WATER WELLS
☐ DEVELOPED SPRINGS
☒ DWELLINGS
☐ AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

Signature: Tina M. Willey
Print Name: Tina M. Willey
Date: 7-31-2013

FOR EXECUTION BY A CORPORATION

Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

DOCUMENT TYPE: 1
Pages Recorded: 1
Book: 105-480
Recording Fee: \$2.00
Additional Fee: \$6.00

CAROL S. HAUGHT
WETZEL COUNTY 02:31:17 PM
Instrument No 154555
Date Recorded 12/03/2013

Well Operator: EQT Production Company

By: John W. Damato

Its: Attorney-In-Fact

Signature: _____

Telephone: _____

OFFICIAL SEAL
COMMISSIONER FOR WEST VIRGINIA
Bryson J. Karp
Weston, WV
My Commission Expires January 1, 2021

Subscribed and sworn before me this 31 day of July 2013

Notary Public

My Commission Expires Jan 1 2021

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12/05/2025



**WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION**

1900 Kanawha Boulevard East • Building Five • Room 109
Charleston, West Virginia 25305-0440 • (304) 558-0444

Michael J. DeMers
Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E.
Secretary of Transportation
Commissioner of Highways

August 11, 2025

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the BIG 177 Well Pad, Wetzel County
BIG 177 H2 Well Site BIG 177 H7 Well Site BIG 177 H15 Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0292 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 19 SLS MP 0.44.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt
Central Office O&G Coordinator

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NOV 03 2025

WV Department of
Environmental Protection

Cc: Kristen Brooks
EQT Production Company
OM, D-6
File

Anticipated Frac Additives **Chemical Names and CAS Numbers**

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	Proprietary
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH4)Cl)	12125-02-9
Biocide	Glutaraldehyde	111-30-8
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
Scale Control	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid))(BHMT)	34690-00-1
	Non-hazardous substances	Proprietary
Acid Chelating Agent	Ferriplex 66	
	Citric Acid	77-92-9
	Acetic Acid	64-19-7
Corrosion Inhibitor	PLEXHIB 166	
	Methanol	67-56-1
	Alcohols, C14-15, ethoxylated	68951-67-7

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WV Department of
Environmental Protection

12/05/2025

OPERATOR: EQT Production Company

WELL NO: H15

PAD NAME: BIG177

REVIEWED BY: Branden Weimer

SIGNATURE: 

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

- ☒ At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
☐ DEP Waiver and Permit Conditions
- ☒ At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
☐ DEP Waiver and Permit Conditions
- ☒ At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
☐ DEP Waiver and Permit Conditions
- ☒ At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
☐ Surface Owner Waiver and Recorded with County Clerk, OR
☐ DEP Variance and Permit Conditions
- ☐ At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
☒ Surface Owner Waiver and Recorded with County Clerk, OR
☐ DEP Variance and Permit Conditions
- ☒ At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
☐ Surface Owner Waiver and Recorded with County Clerk, OR
☐ DEP Variance and Permit Conditions

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NOV 03 2025
WV Department of
Environmental Protection

12/05/2025

WEST VIRGINIA 811

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-242-1776
WV ONE CALL #2528288210

OWNER



EQT PRODUCTION COMPANY
2200 ENERGY DRIVE
CANONSBURG, PA 15317

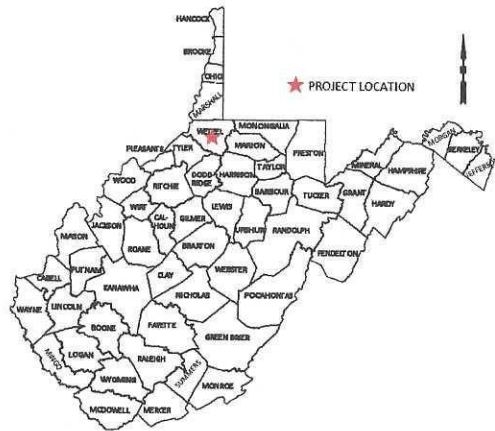
BIG 177 PAD MAJOR MODIFICATION BURTON DISTRICT, WETZEL COUNTY, WV OCTOBER 2025

- SHEET INDEX**
1. TITLE SHEET
2. E&S CONTROL LAYOUT
3. E&S CONTROL AND SITE PLAN
4. CROSS-SECTIONS
5-7. DETAILS
8. RECLAMATION PLAN

TOTAL DISTURBED AREA: 7.26 AC.

PERMITTED PROJECT BOUNDARY : 6.89 ACRES
ADDITIONAL PROJECT BOUNDARY: 0.37 ACRES
TOTAL: 7.26 ACRES

PROPERTY OWNER DISTURBANCE : 7.26 ACRES
COASTAL FOREST RESOURCES CO
(TAX MAP AND PARCEL NUMBER 4-13-6.1) 3.49 ACRES
COASTAL FOREST RESOURCES CO
(TAX MAP AND PARCEL NUMBER 4-13-6) 3.44 ACRES
EQT GATHERING
(TAX MAP AND PARCEL NUMBER 4-8-66) 0.33 ACRES



IN ACCORDANCE WITH WV 35 CSR 8
THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN
DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES
ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND
SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION
SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS &
SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT
PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.

NO.	DATE	REVISIONS	
		DESCRIPTION	

TITLE SHEET
BIG 177 PAD
MAJOR MODIFICATION
BURTON DISTRICT, WETZEL COUNTY, WV

SHEET
1
OF
8

RECEIVED
Office of Oil and Gas
NOV 03 2025
WV Department of
Environmental Protection

PLANS PREPARED BY:

BOORD BENCHEK & ASSOC., INC.
ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

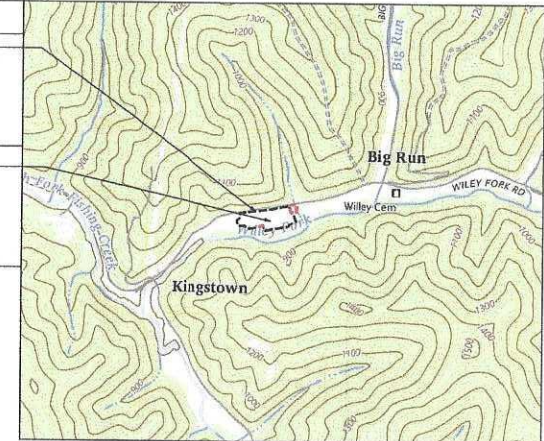


ANDREW BENCHEK
P.E.

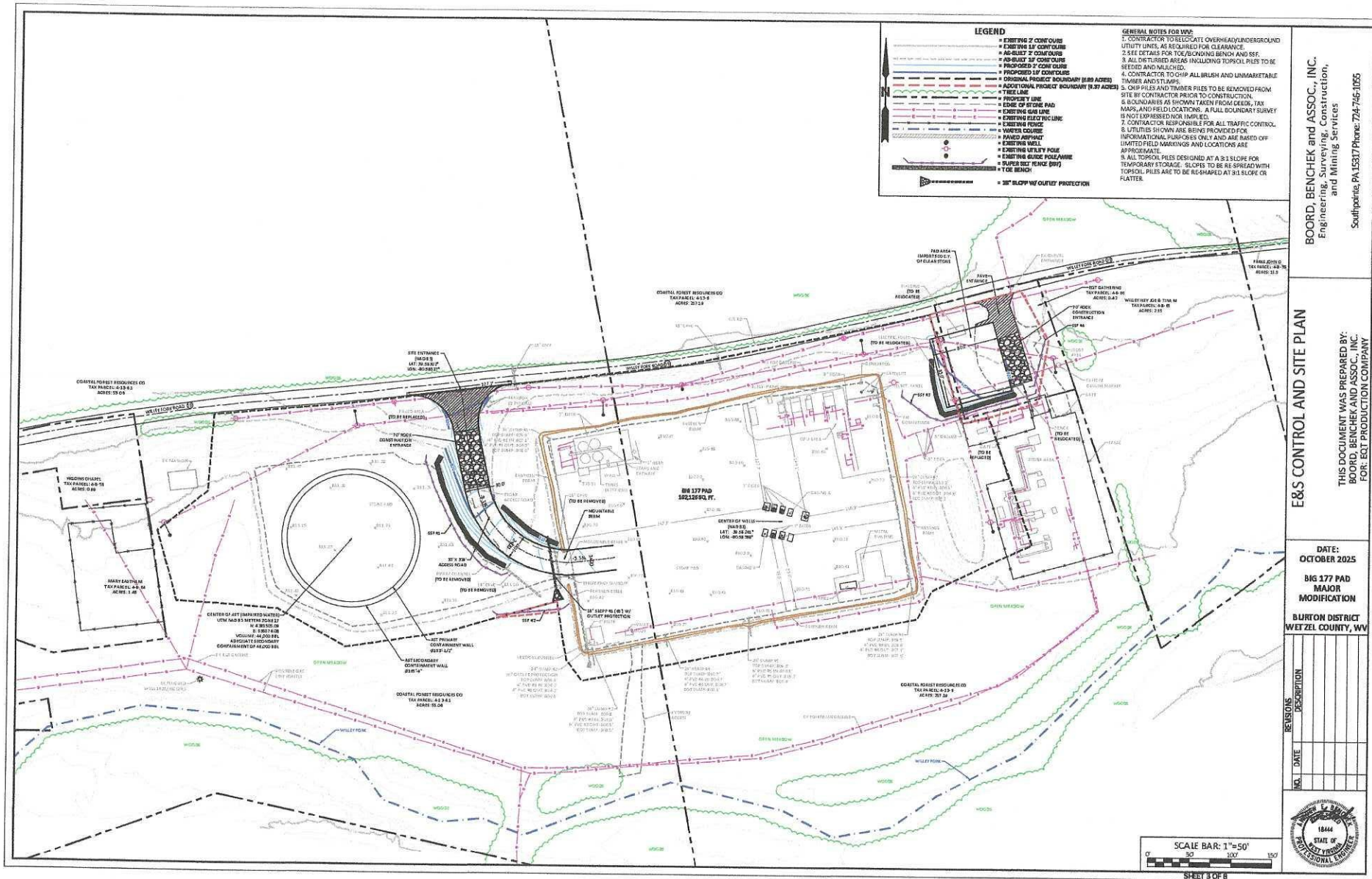
COORDINATES

SITE ENTRANCE
(NAD 83)
LAT: 39° 34' 58.87"
LON: -80° 35' 06.97"
LAT: 39.58302°
LON: -80.58527°

CENTER OF WELLS
(NAD 83)
LAT: 39° 34' 57.40"
LON: -80° 35' 02.04"
LAT: 39.58261°
LON: -80.58389°



1" = 1,000'
0 1,000' 2,000' 3,000'



LEGEND

- EXISTING 2' CONTOUR
- EXISTING 1' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 1' CONTOUR
- ORIGINAL PROJECT BOUNDARY (8.37 ACRES)
- ADDITIONAL PROJECT BOUNDARY (8.37 ACRES)
- TRAIL LINE
- PROPERTY LINE
- EDGE OF SITE PAD
- EXISTING SUB LINE
- EXISTING ELECTRIC LINE
- EXISTING FENCE
- WATER COURSE
- PAVED DRIVEWAY
- EXISTING UTILITY POLE
- EXISTING GULCH POLE/PAVE
- EXISTING DIRT FENCE (DR)
- 1" FOR BENCH
- 30" SLOPPY ME GULCH PROTECTION

GENERAL NOTES FOR 100%

- CONTRACTOR TO RELOCATE OVERHEAD/UNDERGROUND UTILITY LINES AS REQUIRED FOR CLEARANCE.
- SEE DETAILS FOR TOP/BLANKING BENCH AND REF.
- ALL DISTURBED AREAS INCLUDING TOPSOIL PILES TO BE SEEDED AND MULCHED.
- CONTRACTOR TO CHIP ALL BRUSH AND UNMARKETABLE TREES AND STUMPS.
- CHIP PILES AND TIMBER PILES TO BE REMOVED FROM SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
- BOUNDARIES AS SHOWN TAKEN FROM DEEDS, TAX MAPS, AND FIELD LOCATIONS. A FULL BOUNDARY SURVEY IS NOT EXPRESSED NOR IMPLIED.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL.
- UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED OFF LIMITED FIELD MARKINGS AND LOCATIONS ARE APPROXIMATE.
- ALL TOPSOIL PILES DESIGNED AT A 3:1 SLOPE FOR TEMPORARY STORAGE. SLOPES TO BE RE-SHAPED WITH TOPSOIL. PILES ARE TO BE RE-SHAPED AT 3:1 SLOPE OR FLATTER.

BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-745-1055

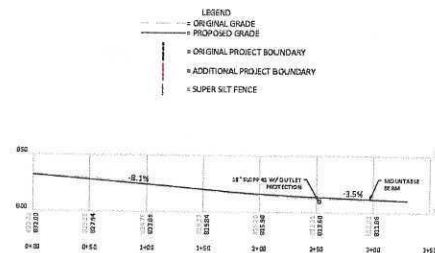
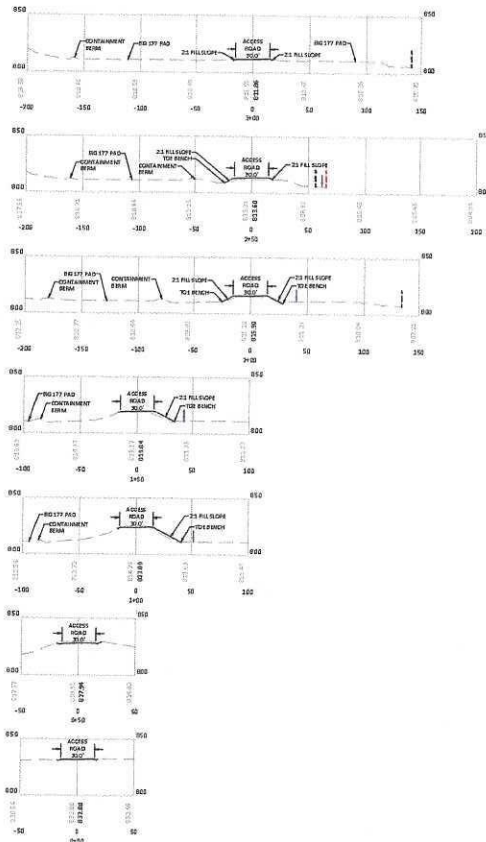
E&S CONTROL AND SITE PLAN

THIS DOCUMENT WAS PREPARED BY:
BOORD, BENCHEK AND ASSOC., INC.
FOR: BQT PRODUCTION COMPANY

DATE:
OCTOBER 2025
BIG 177 PAD
MAJOR
MODIFICATION
BURTON DISTRICT
WETZEL COUNTY, WV

NO.	DATE	REVISIONS	DESCRIPTION





NOTE:
NO GEOTECHNICAL ANALYSIS OR SLOPE STABILITY WAS PERFORMED FOR THIS SITE. THEREFORE
BOORD, BENCHER AND ASSOCIATES IS NOT RESPONSIBLE FOR ANY SLOPE FAILURES.
CONTRACTOR IS RESPONSIBLE TO CONSTRUCT PROPER TOE BENCH USING NORMAL
CONSTRUCTION PRACTICES BASED ON FIELD CONDITIONS.

DEPTH AND WIDTH OF TOE BENCHING BENCHES TO BE DETERMINED IN FIELD BY ON-SITE
INSPECTOR. SEE DETAIL SHEET FOR TOE BENCHING BENCH.

COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AND WITHIN 3 PERCENTAGE
POINTS OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR
(ASTM D-698). IN THE UPPER 2 FEET OF FILL, COMPACT TO A MINIMUM OF 98% OF THE
MAXIMUM DRY DENSITY AND WITHIN 2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE
CONTENT AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-698).

1) NOTHING LARGER THAN 6" WILL BE USED IN THE SOL LIFTS AND ROCK LIFTS SHALL BE NO
MORE THAN 36".
2) NO ORGANIC, FROZEN, OBJECTIONABLE OR MATERIAL THAT IS TOO WET TO BE PLACED IN FILL.

BOORD, BENCHER and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southampton, PA 15317 Phone: 724-746-3055

CROSS-SECTIONS

THIS DOCUMENT WAS PREPARED BY:
BOORD, BENCHER AND ASSOC., INC.
FOR: EQT PRODUCTION COMPANY

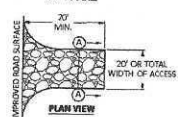
DATE:
OCTOBER 2025
BIG 177 PAD
MAJOR
MODIFICATION
BURTON DISTRICT
WETZEL COUNTY, WV

NO.	DATE	REVISIONS	DESCRIPTION



STANDARD CONSTRUCTION DETAIL ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



SECTION A-A'
ASPHALT #1 (1 1/2")
ROCK CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

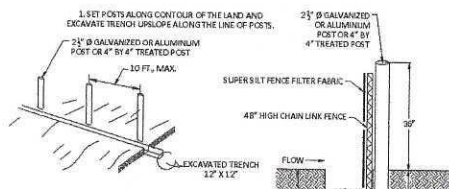
CONSTRUCTION SEQUENCE

1. INSTALL ROCK CONSTRUCTION ENTRANCES.
2. INSTALL SUPER SILT FENCE #1 - 48".
3. CLEAR/GRUB AND REMOVE GRAVEL AND PAVEMENT FROM EXISTING ACCESS AND NEW STONE PAD AREA.
4. CONSTRUCT NEW 30' WIDE ACCESS ROAD AND NEW STONE PAD AREA.
5. PLACE GEO-TEXTILE MATERIAL ON ACCESS AND NEW STONE PAD AREA.
6. PLACE CLEAN STONE ON ACCESS AND NEW STONE PAD AREA.
7. RE-SURFACE TOP OF ROCK OVERLAP ON ACCESS.
8. RE-PAVE ENTRANCE AND NEW ENTRANCE.
9. KEEP ALL EROSION AND SEDIMENTATION CONTROLS IN PLACE UNTIL THERE IS 20% GROWTH OVER ENTIRE SITE.

*CONTRACTOR MAY DEVIATE FROM THE CONSTRUCTION SEQUENCE IF THE DESIGN DEEMS IT APPROPRIATE AND ALL THE ERS CONTROLS HAVE BEEN INSTALLED THROUGHOUT THE ENTIRE SITE. (E.G. BORROW FROM WELL PAD TO FINISH CONSTRUCTING ACCESS ROAD.)

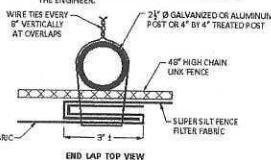
STANDARD CONSTRUCTION DETAIL SUPER SILT FENCE

NOT TO SCALE



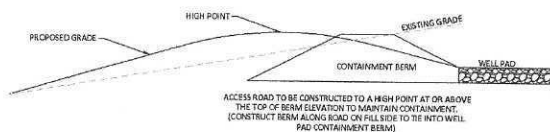
SUPER SILT FENCE NOTES:

1. CHAIN LINK FENCE SHALL BE CONSTRUCTED BY ACCORDANCE WITH SECTION 800 OF THE WISCONSIN SPECIFICATIONS. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE POSTS WITH WIRE TIES OR STAPLES.
2. POSTS NEED NOT BE SET IN CONCRETE.
3. THE FILTER FABRIC SHALL BE FASTENED TO THE CHAIN LINK FENCE WITH TIES EVERY 24" AT THE TOP AND MID SECTION.
4. FABRIC AND FENCE SHALL BE EMBEDDED 12", MINIMUM, INTO THE GROUND.
5. A 6" MINIMUM OVERLAP SHALL BE PROVIDED WHERE TWO SECTIONS OF FABRIC ADJOIN. THE OVERLAPPED FABRIC SHALL BE FOLDED TOGETHER AND ATTACHED TO THE CHAIN LINK FENCE.
6. 4" BY 4" PRESSURE TREATED POSTS MAY BE SUBSTITUTED FOR METAL FENCE POSTS WITH THE APPROVAL OF THE ENGINEER.
7. THE LENGTH OF SLOPE ABOVE THE FENCE SHALL NOT EXCEED 400 FEET IN STEEP TERRAIN. IN FLATTER AREAS THE LENGTH CAN BE EXTENDED WITH THE APPROVAL OF THE ENGINEER.



STANDARD CONSTRUCTION DETAIL MOUNTAIN BERM

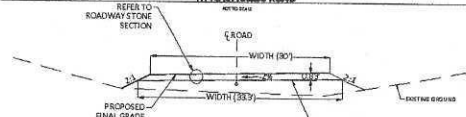
NOT TO SCALE



ACCESS ROAD TO BE CONSTRUCTED TO A HIGH POINT AT OR ABOVE THE TOP OF BERM ELEVATION TO MAINTAIN CONTAINMENT. (CONSTRUCT BERM ALONG ROAD ON FILL SIDE TO BE INTO WELL PAD CONTAINMENT BERM)

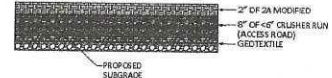
STANDARD CONSTRUCTION DETAIL TYPICAL ACCESS ROAD

NOT TO SCALE



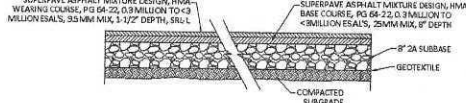
STANDARD CONSTRUCTION DETAIL ACCESS ROAD/WELL PAD TYPICAL STONE SECTION DETAIL

NOT TO SCALE



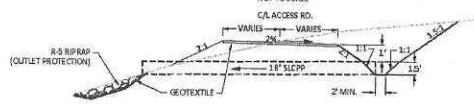
STANDARD CONSTRUCTION DETAIL ASPHALT PAVEMENT SECTION

NOT TO SCALE



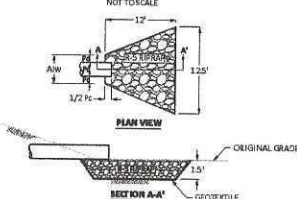
STANDARD CONSTRUCTION DETAIL ACCESS ROAD PIPE CROSSING (TYP SECTION)

NOT TO SCALE



STANDARD CONSTRUCTION DETAIL REPAIR APPROPRIATE PIPE OUTLET

NOT TO SCALE



BOARD, BENCHER AND ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-746-1055

DETAILS

THIS DOCUMENT WAS PREPARED BY:
BOARD, BENCHER AND ASSOC., INC.
FOR: EQT PRODUCTION COMPANY

DATE:
OCTOBER 2025
BIG 177 PAD
MAJOR
MODIFICATION
BURTON DISTRICT
WETZEL COUNTY, WV

NO.	DATE	DESCRIPTION



**STANDARD CONSTRUCTION DETAIL
TOE/BONDING BENCH TYPICAL**

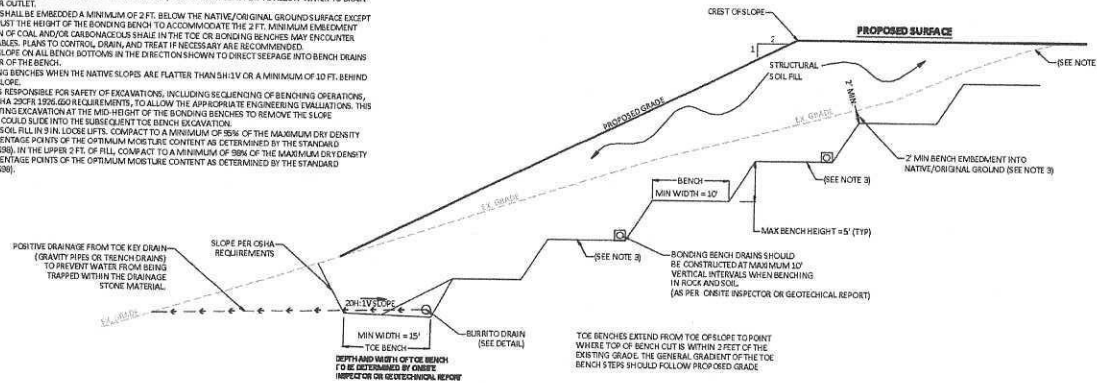
NOT TO SCALE

NOTE: GEOTECHNICAL TOE/BONDING BENCH REQUIREMENTS MAY CHANGE, SUBJECT TO FUTURE GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS.

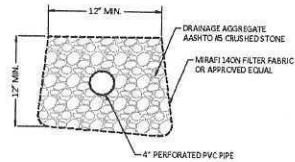
NOTE: NO GEOTECHNICAL ANALYSIS OR SLOPE STABILITY HAS BEEN PERFORMED FOR THIS SITE; THEREFORE, BOORD, BENCHEK AND ASSOCIATES IS NOT RESPONSIBLE FOR ANY SLOPE FAILURES. CONTRACTOR IS RESPONSIBLE TO CONSTRUCT PROPER TOE BENCH USING NORMAL CONSTRUCTION PRACTICES BASED ON FIELD CONDITIONS.

TOE / BONDING BENCH NOTES

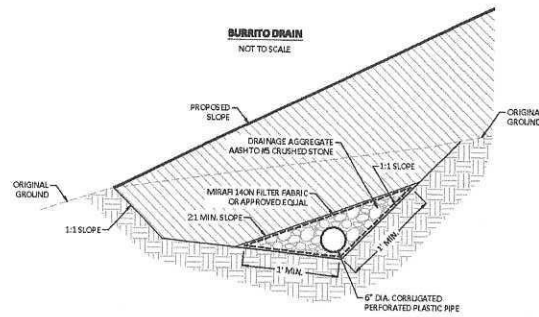
- 1) TOE BENCHES SHALL BE CONSTRUCTED IN COMPETENT ROCK TO THE MINIMUM DEPTH REQUIRED. ADDITIONAL DEPTHS MAY BE REQUIRED IN FIELD DEPENDING UPON THE STABILITY OF SUBGRADE MATERIAL. AT THE REQUEST OF THE FIELD ENGINEER, PERFORM TEST PITS AND PROPPINGS OF THE BENCH SUBGRADE TO EVALUATE THE SUBGRADE CONDITIONS. REMOVE UNSTABLE SOILS AND EXTEND THE DEPTH OF THE TOE BENCH AS REQUESTED BY THE ENGINEER. PROVIDE A HORIZONTAL (ALONG THE LENGTH OF THE TOE BENCH) GRADE OF AT LEAST 2% TO ALLOW WATER TO DRAIN TO LOW POINT TOILET.
- 2) BONDING BENCHES SHALL BE EMBEDDED A MINIMUM OF 2 FT. BELOW THE NATIVE/ORIGINAL GROUND SURFACE EXCEPT WHERE NOTED. ADJUST THE HEIGHT OF THE BONDING BENCH TO ACCOMMODATE THE 2 FT. MINIMUM EMBELEMMENT DEPTH. EXCAVATION OF COAL AND/OR CARBONACEOUS SHALE IN THE TOE OR BONDING BENCHES MAY ENCOUNTER PERCHED WATER TABLES. PLANS TO CONTROL, DRAIN, AND TREAT IF NECESSARY ARE RECOMMENDED.
- 3) PROVIDE A 2%+1% SLOPE ON ALL BENCH BOTTOMS IN THE DIRECTION SHOWN TO DIRECT SEEPAGE INTO BENCH DRAINS PLACED AT THE REAR OF THE BENCH.
- 4) TERMINATE BONDING BENCHES WHEN THE NATIVE SLOPES ARE FLATTER THAN 5H:1V OR A MINIMUM OF 10 FT. BEHIND THE CREST OF THE SLOPE.
- 5) THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF EXCAVATIONS, INCLUDING SEQUENCING OF BENCHING OPERATIONS, AND SLOPES PER OSHA 29CFR 1926.650 REQUIREMENTS, TO ALLOW THE APPROPRIATE ENGINEERING EVALUATIONS. THIS MAY REQUIRE STARTING EXCAVATION AT THE MID-HEIGHT OF THE BONDING BENCHES TO REMOVE THE SLOPE OVERBURDEN THAT COULD SLIDE INTO THE SUBSEQUENT TOE BENCH EXCAVATION.
- 6) PLACE STRUCTURAL SOIL FILL IN 3% LOOSE LIFTS. COMPACT TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AND WITHIN 8 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-1556). IN THE UPPER 2 FT. OF FILL, COMPACT TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AND WITHIN 2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-1556).



BONDING BENCH DRAIN
NOT TO SCALE



BURRITO DRAIN
NOT TO SCALE



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Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-745-1055

DETAILS

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BOORD, BENCHEK AND ASSOC., INC.
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DATE:
OCTOBER 2025
SIG 177 PAD
MAJOR
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BURTON DISTRICT
WETZEL COUNTY, WV

NO.	DATE	DESCRIPTION



TABLE 4. PERMANENT SEEDING MIXTURES SUITABLE FOR ESTABLISHMENT IN WV.

Species/Mixture	Seeding Rate (lb/acre)	Soil Drainage/Performance	pH Range
Crownvetch/ Tall Fescue	10 - 15 30	Well - Mod. Well	5.0 - 7.5
Crownvetch/ Perennial Ryegrass	10 - 15 20	Well - Mod. Well	5.0 - 7.5
Flatpea or Perennial Pea/ Tall Fescue	20 15	Well - Mod. Well	4.0 - 8.0
Ladino Clover/ Sericea Lespedeza/ Tall Fescue	30 25 2	Well - Mod. Well	4.5 - 7.5
Tall Fescue/ Ladino Clover/ Redtop	40 3 3	Well - Mod. Well	5.0 - 7.5
Crownvetch/ Tall Fescue/ Redtop	10 20 3	Well - Mod. Well	5.0 - 7.0
Tall Fescue/ Birdfoot Trefoil/ Redtop	40 10 3	Well - Mod. Well	5.0 - 7.5
Sericea Lespedeza/ Tall Fescue/ Redtop	25 30 3	Well - Mod. Well	4.5 - 7.5
Redtop/ Redtop	30 3	Well - Mod. Well	5.0 - 7.5
Tall Fescue/ Creeping Red	60 3	Well - Mod. Well	5.0 - 7.5
Perennial Ryegrass/ Tall Fescue/ Ladino Flatpea *	10 15 20	Well - Poorly	4.5 - 7.5 5.0 - 8.0

TABLE IV-4 TAKEN FROM NATURAL RESOURCES CONSERVATION SERVICE MANUAL, CRITICAL AREA PLANTING

TABLE 4b. MIXTURES IN THE TABLE BELOW ARE MORE WILDLIFE AND FARM FRIENDLY

Species/Mixture	Seeding Rate (lb/acre)	Soil Drainage/Performance	pH Range
KY Bluegrass/ Redtop	20 3	Well - Mod. Well	5.0 - 7.5
Ladino Clover or Birdfoot Trefoil	2-10	Well - Mod. Well	5.0 - 7.5
Timothy	5	Well - Mod. Well	5.0 - 8.0
Timothy/ Redtop Trefoil	8	Well - Poorly	5.5 - 7.5
Orchardgrass/ Ladino Clover	10 3	Well - Mod. Well	5.5 - 7.5
Orchardgrass/ Ladino Clover	10 3	Well - Mod. Well	5.5 - 7.5
Orchardgrass/ Perennial Ryegrass	20 10	Well - Mod. Well	5.5 - 7.5
Creeping Red Fescue/ Perennial Ryegrass	20 10	Well - Mod. Well	5.5 - 7.5
Orchardgrass or Kentucky Bluegrass	20	Well - Mod. Well	5.5 - 7.5
Orchardgrass/ Redtop	10 5	Well - Mod. Well	5.5 - 7.5
Orchardgrass/ Ladino Flat Pea	20 30	Well - Mod. Well	5.5 - 7.5
Ladino Flat Pea/ Orchardgrass	30 20	Well - Mod. Well	5.5 - 7.5

Seeding rates are based on seed weight and are intended for general guidance. These rates are suitable for use in most situations. For specific recommendations, consult the appropriate literature and consult with the appropriate agency for the specific site.

For information on seed quality and seedling establishment, consult the appropriate literature and consult with the appropriate agency for the specific site.

Table 4c. Lime and Fertilizer Application Table

Soil pH	Seeding Rate (lb/acre)	Fertilizer Rate (lb/acre)
Below 5.0	2	100
5.0 to 5.5	3	50
Above 5.5	4	50

The pH can be determined with a portable pH meter or by sending the soil sample to a professional laboratory. When a test of soil pH is not available, consult the appropriate literature and consult with the appropriate agency for the specific site.

Table 4d. Mulch Materials Rates and Uses

Mulch	Material	Rate (lb/acre)	Use
Hay or Straw	2 to 3 tons	Cover 75% to 80% of surface	For soil conservation
Wood Fiber	100 to 150 tons	Cover all	For soil conservation
Wood Chips	1000 to 1500 tons	Cover all	For soil conservation
Recycled Paper			

Table IV-1 Recommended seeding dates for permanent and temporary cover unless otherwise specified

Planting Dates	Suitability
March 1 - April 15 and August 1 - October 1	Best seeding periods
April 15 - August 1	HIGH RISK - moisture stress likely
October 1 - Dec. 1	HIGH RISK - Freeze damage to young seedlings
Dec. 1 - March 1	Good seeding period, Dormant seeding

Table 2. Acceptable fertilization recommendation in absence of a soil test.

Species	N (lb/acre)	P2O5 (lb/acre)	K2O (lb/acre)	Example Rec. (per acre)
Cool Season Grass	40	80	80	400 lbs. 10-20-20
CS Grass & Legume	30	60	60	300 lbs. 10-20-20
Temporary Cover	40	40	40	200 lbs. 10-10-10

Table 3. Temporary cover suitable for establishment in West Virginia.

Species	Seeding Rate (lb/acre)	Optimum Seeding Dates	Drainage	pH Range
Annual Ryegrass	40	3/1 - 6/15 or 8/15 - 9/15	Well - Poorly	5.5 - 7.5
Field Bromegrass	40	3/1 - 6/15 or 8/15 - 9/15	Well - Mod. Well	6.0 - 7.0
Spring Oats	90	3/1 - 6/15	Well - Poorly	5.5 - 7.0
Sudangrass	40	5/15 - 8/15	Well - Poorly	5.5 - 7.5
Winter Rye	165	8/15 - 10/15	Well - Poorly	5.5 - 7.5
Winter Wheat	180	8/15 - 11/15	Well - Mod. Well	5.5 - 7.0
Japanese Millet	30	6/15 - 8/15	Well	4.5 - 7.0
Redtop	5	3/1 - 6/15	Well	4.0 - 7.5
Annual Ryegrass	26	3/1 - 6/15	Well - Poorly	5.5 - 7.5
Spring Oats	64	3/1 - 6/15	Well - Poorly	5.5 - 7.5

NOTE: THESE RATES SHOULD BE INCREASED BY 50% IF PLANTED APRIL 15 - AUGUST 1 AND OCTOBER 1 - MARCH 1.

MULCHING

1. GENERAL ORGANIC MULCHES

THE APPLICATION OF STRAW, HAY OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE TO PREVENT EROSION, STABILIZE SOIL, AND IMPROVE SOIL QUALITY IS THE PREFERRED MULCH. THE USE OF HAY IS PERMISSIBLE BUT NOT ENCOURAGED DUE TO THE RISK OF SPREADING INVASIVE SPECIES. MULCH MUST BE APPLIED TO ALL TEMPORARY AND PERMANENT SEEDING ON ALL DISTURBED AREAS, DEPENDING ON SITE CONDITIONS IN CRITICAL AREAS SUCH AS WATERWAYS, OR STEEP SLOPES, ADDITIONAL OR SUBSTITUTE SOIL PROTECTIVE MEASURES MAY BE USED IF DEEMED NECESSARY. EXAMPLES INCLUDE JUTE MESH, AND SOIL STABILIZATION BLANKETS OR EROSION CONTROL MATTING.

AREAS THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDLESS SHOULD BE MULCHED IMMEDIATELY FOLLOWING SEEDING. MULCHES CONVEY DESIRABLE SOIL PROPERTIES, REDUCE SOIL MOISTURE LOSS, PREVENT CRUSTING AND SEALING OF THE SOIL SURFACE AND PROVIDE A SUITABLE MICROCLIMATE FOR SEED GERMINATION.

AREAS THAT CANNOT BE SEEDING BECAUSE OF THE SEASON SHOULD BE MULCHED TO PROVIDE SOME PROTECTION TO THE SOIL SURFACE. AN ORGANIC MULCH OF STRAW OR HAY, SHOULD BE USED AND THE AREA THEN SEED AS SOON AS WEATHER OR SEASONAL CONDITIONS PERMIT. DO NOT USE FIBER MULCH (CELLULOSE HONEYCOMB) ALONE FOR THIS PRACTICE. AT NORMAL APPLICATION RATES IT WILL NOT GIVE THE SOIL PROTECTION OF OTHER TYPES OF MULCH.

WOOD CELLULOSE FIBER MULCH, IS USED IN HYDROSEEDING OPERATIONS AND APPLIED AS PART OF THE MULCH. IT ORNATES THE BEST SEED SOIL CONTACT WHEN APPLIED OVER TOP OF (AS A SEPARATE OPERATION) NEWLY SEED AREAS. FIBER MULCH DOES NOT ALONE PROVIDE SUFFICIENT PROTECTION ON HIGHLY EROSION SOILS, OR DURING LESS THAN FAVORABLE GROWING CONDITIONS. FIBER MULCH SHOULD NOT BE USED ALONE DURING THE DRY SUMMER MONTHS OR WHEN USED FOR LATE FALL MULCH COVER. USE STRAW MULCH DURING THESE PERIODS, AND FIBER MULCH MAY BE USED TO TACK (ANCHOR) THE STRAW MULCH. FIBER MULCH IS WELL SUITED FOR STEEP SLOPES, CRITICAL AREAS, AND AREAS SUSCEPTIBLE TO WIND.

STANDARD CONSTRUCTION DETAIL FLEXTEERRA

INSTALLATION

STRICTLY COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. USE APPROVED HYDRO-SPRAYING MACHINES WITH FAN-TYPE NOZZLE (90-DEGREE TIP). TO ACHIEVE OPTIMUM FLEXTEERRA COVERAGE, APPLY HP-FGM FROM CIRCULAR DIRECTION TO TOP SURFACE. ROUGH SURFACES (ROCK, TERRAZZO, CAT TRAKS AND RIPPLED SOLID) MAY REQUIRE HIGHER APPLICATION RATES TO ACHIEVE 100% COVER. SLOPE INTERRUPTION DEVICES OR WATER DIVERSION TECHNIQUES ARE RECOMMENDED WHEN SLOPE LENGTHS EXCEED 100 FEET (30M). MAXIMUM SLOPE LENGTH IS FOR PRODUCT APPLICATION ON A 3:1 TO 1:1 SLOPE. FOR APPLICATION ON A FLATTER SLOPE, SLOPE INTERRUPTION LENGTHS MAY NEED TO BE DECREASED BASED ON ACTUAL SITE CONDITIONS. NOT RECOMMENDED FOR CHANNELS OR AREAS WITH CONCENTRATED WATER FLOW. NO CHEMICAL ADJUSTMENTS WITH THE EXCEPTION OF FERTILIZER, LIME AND BIOSTIMULANT MATERIALS SHOULD BE ADDED TO THIS PRODUCT. TO ENSURE PROPER APPLICATION RATES, MEASURE AND TACK AREA. FOR MAXIMUM PERFORMANCE, APPLY HP-FGM IN A TWO-STEP PROCESS AS FOLLOWS:

1. STEP ONE: APPLY FERTILIZER WITH SPREADING PRECISION AGRI-DRONE FORMULATIONS AND 50% OF SEED WITH A SMALL AMOUNT OF HP-FGM FOR VISUAL METERING.
2. STEP TWO: MIX BALANCE OF SEED AND APPLY HP-FGM AT A RATE OF 50 LB PER 125 GALLONS (2000/475 LITERS) OF WATER OVER A FRESHLY SEED SURFACE. CONFIRM LOADING RATES WITH EQUIPMENT MANUFACTURER. DO NOT LEAVE SEED SURFACES UNPROTECTED, ESPECIALLY IF PRECIPITATION IS IMMINENT.

APPLICATION RATES: THESE APPLICATION RATES ARE FOR STANDARD CONDITIONS. DESIGNERS MAY WISH TO REDUCE RATES TO ENCOURAGE FASTER VEGETATION ESTABLISHMENT OR MAY NEED TO INCREASE APPLICATION RATES ON ROUGH SURFACES. CONSULT APPLICATION AND LOADING CHARTS TO DETERMINE NUMBER OF BAGS TO BE ADDED FOR DESIRED AREA AND APPLICATION RATE.

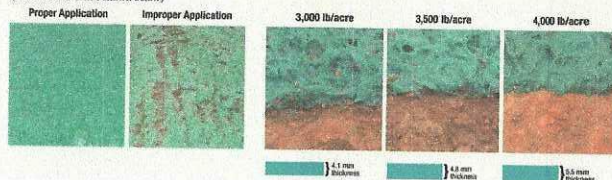
Loading Chart for Profile's SMMs, BFMs, HP-FGMs and ET-FGM											
Tank Size (gal)	# of 50-lb Bales	Displacement (Sq ft)	2,500 lb/acre		3,000 lb/acre		3,500 lb/acre		4,000 lb/acre		
			Sq ft	Acres	Sq ft	Acres	Sq ft	Acres	Sq ft	Acres	
250	2	100	280	1.742	0.043	1.452	0.033	1.069	0.025	909	0.024
500	4	200	560	3.485	0.086	2.904	0.067	2.138	0.050	1,818	0.044
750	6	300	840	5.227	0.129	4.356	0.101	3.254	0.080	2,675	0.066
1,000	8	400	1,120	6.970	0.172	5,808	0.133	4,318	0.106	3,972	0.098
1,250	10	500	1,400	8.713	0.215	7,440	0.166	5,518	0.133	5,000	0.123
1,500	12	600	1,680	10.456	0.258	8,072	0.189	6,114	0.154	5,196	0.130
2,000	16	800	2,240	13.939	0.343	11,008	0.254	8,229	0.172	7,204	0.178
2,500	20	1,000	2,800	17.424	0.428	14,000	0.319	10,440	0.236	9,168	0.222
3,000	24	1,200	3,360	20.909	0.513	17,024	0.404	12,640	0.280	11,016	0.272
3,500	28	1,400	3,920	24.394	0.598	20,096	0.489	15,240	0.326	13,560	0.326
4,000	32	1,600	4,480	27.879	0.683	23,120	0.574	17,424	0.400	15,456	0.375

Additional Notes:

- For hose applications, 35 lb/100 gal is recommended.
- Rough surfaces (rocky terrain, cat tracks, rippled soils, etc.) may require additional product to achieve 100% coverage.
- Be sure to allow for residue material in tank on subsequent applications.

Application Rates		Slope Interruption Limits*	
Slope Condition	English	SI	Product Category
< 4% to 10% and < 25 ft	2,500 lb/acre	2500 lb/acre	SMU
> 4% to 10% and < 25 ft	3,000 lb/acre	3000 lb/acre	SPU
> 10% to 15% and < 25 ft	3,500 lb/acre	3500 lb/acre	HP-FGM
> 15% to 20% and < 25 ft	4,000 lb/acre	4000 lb/acre	ET-FGM
> 20% to 25% and < 25 ft	4,500 lb/acre	4500 lb/acre	
> 25% to 30% and < 25 ft	5,000 lb/acre	5000 lb/acre	
> 30% to 35% and < 25 ft	5,500 lb/acre	5500 lb/acre	
> 35% to 40% and < 25 ft	6,000 lb/acre	6000 lb/acre	
> 40% to 45% and < 25 ft	6,500 lb/acre	6500 lb/acre	
> 45% to 50% and < 25 ft	7,000 lb/acre	7000 lb/acre	
> 50% to 55% and < 25 ft	7,500 lb/acre	7500 lb/acre	
> 55% to 60% and < 25 ft	8,000 lb/acre	8000 lb/acre	
> 60% to 65% and < 25 ft	8,500 lb/acre	8500 lb/acre	
> 65% to 70% and < 25 ft	9,000 lb/acre	9000 lb/acre	
> 70% to 75% and < 25 ft	9,500 lb/acre	9500 lb/acre	
> 75% to 80% and < 25 ft	10,000 lb/acre	10000 lb/acre	
> 80% to 85% and < 25 ft	10,500 lb/acre	10500 lb/acre	
> 85% to 90% and < 25 ft	11,000 lb/acre	11000 lb/acre	
> 90% to 95% and < 25 ft	11,500 lb/acre	11500 lb/acre	
> 95% to 100% and < 25 ft	12,000 lb/acre	12000 lb/acre	

Visual Key for Proper Application (Flexterra HP-FGM shown below)



FERTILIZER
1000, LB/ACRES NUTRIENTS (25 LB./1,000 SQ. FT.) 10-20-20

DETAILS

DATE:
OCTOBER 2025

815 177 PAD
MAJOR
MODIFICATION

BURTON DISTRICT
WETZEL COUNTY, WV

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