

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

Wednesday, November 5, 2025 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 2200 ENERGY DRIVE

CANONSBURG, PA 15317

Re: Per

Permit Modification Approval for BIG 177 114H

47-103-03730-00-00

Extended Lateral

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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

Operator's Well Number: BIG 177 114H

Farm Name: COASTAL FOREST RESOURCES COMPANY

U.S. WELL NUMBER: 47-103-03730-00-00

Horizontal 6A New Drill

Date Modification Issued: 11/5/2025

Promoting a healthy environment.

API NO. 47-103 -	03730
OPERATOR WELL	. NO. 114H
Well Pad Name:	BIG177

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

1) Well Operator	EQT Produc	ction Company	306686	Wetzel	Grant	Big Run
•			Operator ID	County	District	Quadrangle
2) Operator's We	ll Number: 114	4H	Well Pad	Name: BIG17	77	
3) Farm Name/Su	ırface Owner:	Coastal Forest Resou	ces Co. Public Roa	d Access: Rt 1	9	
4) Elevation, curr	ent ground:	811' E	evation, proposed	post-construction	on: 811'	
•	a) Gas X	Oil		- erground Storag		-
(Other	"				
(b)If Gas Sha	llow X	Deep			
	Hor	izontal X				
6) Existing Pad:	Yes or No Yes	.		-		
, 1	get Formation(s) 49', 51', 2,620 PS		cipated Thickness a	and Expected Pi	ressure(s):	
8) Proposed Total	l Vertical Deptl	h: 6,849'				
9) Formation at 7			S			
10) Proposed To	tal Measured De	epth: 15,376'				
11) Proposed Ho	rizontal Leg Le	ngth: 7,441'				
12) Approximate	Fresh Water S	trata Depths:	147', 173', 283',	483', 633'		
13) Method to D	etermine Fresh	Water Depths:	Offset wells			
•			30', 1,401', 1,453'			
15) Approximate	Coal Seam De	pths: 103', 156	, 434', 498'			
16) Approximate	Depth to Possi	ible Void (coal m	ine, karst, other):	none anticipat	ted	
17) Does Propos directly overlyin			ıms Yes	No	, x	
			- **			
(a) If Yes, prov	ide Mine info:					
		Depth:				
97 #609	903	Seam: Owner:	=1			
1 /	125	Owner.				
. 00 \$	5,000. O	Offic	RECEIVED ce Of Oil and Gas			
		1	OCT 20 2025		Stephe	
		W Envi	V Department of ronmental Protection		Mccoy	Date: 2025.10.09 07:57:5 -04'00'

WW-6B	
(04/15)	

API NO. 47- 103 - 03730

OPERATOR WELL NO. 114H
Well Pad Name: BIG177

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	A252	85.6	93	93	95 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	768 /	768	725 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2011	2011	750 ft^3 / CTS
Production	5 1/2	New	P-110	20	15376	15376	500' above intermediate casing
Tubing							
Liners							

ТҮРЕ	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/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8 - 12 1/4	0.352	3520	2816	Class A/H/L	1.04 - 1.20
Production	5 1/2	8 3/4 - 8 1/2	0.361	14360	11488	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

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Office Of Oil and Gas

OCT 20 2025

WV Department of Environmental Protection Page 2 of all y signed by Stephen Mccoy Date: 2025.10.09 07.57.44

API NO. 47- 103 - 03730	
OPERATOR WELL NO.	114H
Well Pad Name: BIG17	7

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers- One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.
- 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:

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

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.

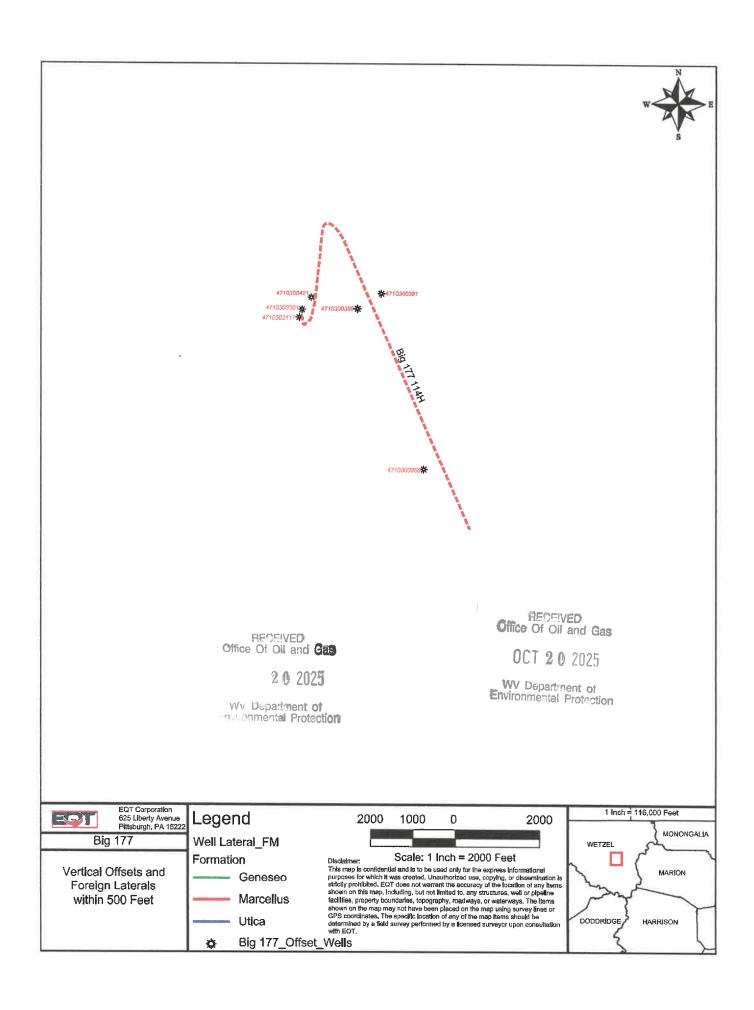
Office Of Oil and Gas

OCT 20 2025

WV Department of Environmental Protection

Page 3 of 3 Stephen Mccoy Digitally signed by Stephen Mccoy Date: 2025.10.09 07:57:35-04:00*

EQT Production Wellbore Diagram BIG177 114H County: Wetzel Well: Pad: State: West Virginia **BIG177** Elevation: 811' GL 824' KB 93' / Conductor @ 26", 85.6#, A252, cement to surface w/ Class A/L Surface @ 768' 13-3/8", 54.5#, J-55, cement to surface w/ Class A/L Office Of Oil and Gas RECEIVED
Office Of Oil and Gas OCT 20 21 OCT 2 0 2025 wv Department of Environmental Protection WV Department of Environmental Protection 2,011'/ Intermediate @ 9-5/8", 36#, J-55, cement to surface w/ Class A/H/L 15,376' MD / 6,849' TVD 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L Formation: Marcellus NOT TO SCALE



	BIG177 114H Area of Review										
API	STATUS	CURRENT OPERATOR	FINAL CLASS	LATITUDE	LONGITUDE	SPUD_DATE	ELEVATION	TOT_DEPTH			
103-03117	Withdrawn	EQT Prod									
103-03001	Withdrawn	EQT Prod									
103-00421	NA	PEMCO GAS	DEVELOPMENT WELL-UNSUCCESSFUL	39.583900	-80.583334	10/29/1955	823	521			
103-00399	NA	JCR Petroleum	DEVELOPMENT WELL-METHANE	39.583183	-80.579427	5/26/1954	812	507			
103-00381	NA	JCR Petroleum	DEVELOPMENT WELL-METHANE	39.584190	-80.577460	6/8/1952	818	515			
103-00868	NA	DIVERSIFIED	NA	39.572821	-80.573702	NA	NA	NA			

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OCT 2 () 2025

WV Department of Environmental Protection

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

Office Of Oil and Gas

OCT 20 2025

WV Department of Environmental Protection

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

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

Ву:

Branden Weimer

lts:

Regional Manager - Permitting

Page 1 of 4

WW-6A1 attachment

Operator's Well No.

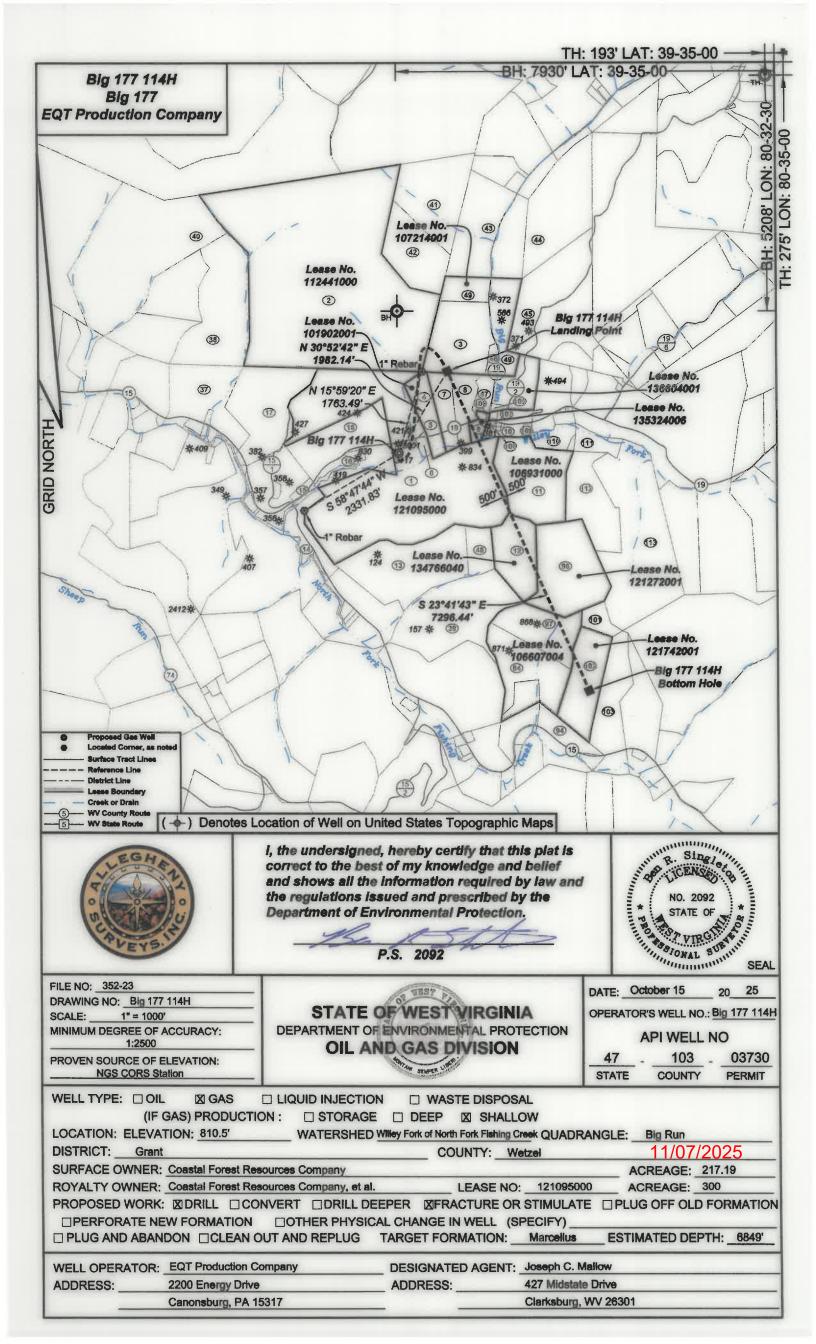
BIG177 114H

ase No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page	_
				"at least 1/8th per		
	Coastal Forest Resources Company, et al.			WV Code 22-6-8"		
<u>121095000</u>	James V. Higgins	300 ac	The Philadelphia Company of West Virginia		DB 60/414	
	The Philadelphia Company of West Virginia		Pittsburgh and West Virginia Gas Company		OG 22A/352	
	Pittsburgh and West Virginia Gas Company		Equitable Gas Company		DB 187/321	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc.		Equitable Gas Company LLC		Corp. Book 13/213	
	Equitable Gas Company, LLC, et al.		Equitrans, L.P.		Misc 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	(sub
	John D. Parks, et al.			"at least 1/8th per		
404000004	Julia Willey, widow, and Hursel Willey	10	Fundable Oct October	WV Code 22-6-8"	00.404.47	
101902001		16 ac	Equitable Gas Company		OG 48A/147	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc.		Equitable Gas Company LLC		Corp. Book 13/213	
	Equitable Gas Company, LLC, et al.		Equitrans, L.P.		Misc 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	(subi
	EQT Production Company			"at least 1/8th per WV Code 22-6-8"		
112441000	J.B. Hicks	300 ac	The Philadelphia Company of Wort Virginia	VV Code 22-0-0	DB 47/441	
112441000		300 ac	The Philadelphia Company of West Virginia			
	The Philadelphia Company of West Virginia		Pittsburgh and West Virginia Gas Company		OG 22A/352	
	Pittsburgh and West Virginia Gas Company		Equitable Gas Company		DB 187/321	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc.		Equitable Gas Company LLC		Corp. Book 13/213	
	Equitable Gas Company, LLC, et al.		Equitrans, L.P.		Misc 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	(subl
	Acropolis Inc., et al.			"at least 1/8th per		
	A C Hispinbalkon and Jamia Hispinbalkons his wife			WV Code 22-6-8"		
107214001	A. C. nigginbotham and Jessie Higginbotham, his wife, etc.	il. 80 ac ≶ O	Pittsburgh and West Virginia Gas Company		OG 39A/236	
	Hittsburgh and West Virginia Gas Company	≷ 0 ≶	Equitable Gas Company		DB 187/321	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc.	2 Q	Equitable Gas Company LLC		Corp. Book 13/213	
	Equitable Gas Company, LLC, et al.	6 5∰	Equitrans, L.P.		Misc 105/908	
	Equitrans, L.P.	Hitce Of Oil and Gu	EQT Production Company		OG 131A/81	(suble
	A. C. Higginbotham and Jessie Higginbotham, his wife, Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitans, Inc. Equitable Gas Company, LLC, et al. Equitans, L.P.	Office Of Oil and Gas		"at least 1/8th per		
	Stone Hill Minerals Holdings, LLC, et al.			WV Code 22-6-8"		

							6
Lease No.	Grantor, Lessor, etc.		Acres	Grantee, Lessee, etc.	Royalty	Book/Page	
136604001	A.C. Higginbotham and Jessie Higinbotham, his wife and Higginbotham and Irene Higgenbotham, his wife Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC, et al. Equitrans, L.P.	d L.J.	60 ac	Pittsburgh & West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, L.P. EQT Production Company		OG39A/233 DB 187/321 OG 71A/453 Corp. Book 13/213 Misc 105/908 OG 131A/81	(sublease)
135324006	Connie R. Brown, et al. Connie R. Brown	Office	3.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 353A/922	
<u>106931000</u>	Shiben Estates, Inc. et al. Esther Peters, et al.		52 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 52A/181 OG 71A/453 Corp. Book 13/213 Misc 105/908 OG 131A/81	(sublease)
<u>134766040</u>	Billie S. Johnson, et al Beryl Stewart, et al. Equitable Gas Company Equitans, Inc. Equitable Gas Company, LLC, et al. Equitans, L.P.		28 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 52A/297 OG 71A/453 Corp. Book 13/213 Misc 105/908 OG 131A/81	(sublease)
<u>121272001</u>	David E. Bowyer, et al. Rose Knisley, et al. Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC, et al. Equitrans, L.P.	Office Of Oil and Que	55 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 52A/302 OG 71A/453 Corp. Book 13/213 Misc 105/908 OG 131A/81	(sublease)
106607004	Three Rivers Royalty II, LLC., et al. Three Rivers Royalty II, LLC.		76.50 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 235A/149	
	MBD Holdings, LP, et al.				"at least 1/8th per WV Code 22-6-8"		

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page	
121742001	Joseph M. Ballouz, et al.	56 ac	Equitable Gas Company		OG 52A/302	
12.172.001	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc.		Equitable Gas Company LLC		Corp. Book 13/2'	13
	Equitable Gas Company, LLC, et al.		Equitrans, L.P.		Misc 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	(sublease





Big 177 114H Big 177 EQT Production Company

Surface Tract Owner	District	County	Parcel No.	Tax Map No.	Tract I.D.
Coastal Forest Resources Com	Grant	Wetzel	6	13	1
Coastal Forest Resources Com	Grant	Watzel	18	8	2
James L. Dulaney	Grant	Wetzel	23.2	8	3
John D. Parks	Grant	Wetzel	35	8	4
EQM Gathering OPCO LLC	Grant	Wetzel	66	8	5
Ikey be & Tina M. Willey	Grant	Wetzel	65	8	6
James L. & Karen Dulane,	Grant	Watzel	36	8	7
James L. & Karen Dulaney	Grant	Wetzet	37	8	8
Judy K Utt	Grant	Wetzel	43	8	9
Dale K Dulaney	Grant	Wetzel	45	8	10
Mansel Lee McDiffitt, et al	Grant	Wetzel	7	13	11
Robert Scott & Alfred Bryan C	Grant	Wetzel	15	13	12
Linda L. Dunn	Grant	Wetzel	13	13	13
Leslie Lydick & Susan Mirad	Grant	Watzel	12	13	14
Jeffrey L & Beth Willey	Grant	Wetzel	4.3	13	15
Coastal Forest Resources Com	Grant	Wetzel	6.1	13	16
Hallie M. & Paul E Hardbarg	Grant	Watzel	34	8	17
Kenneth E. Wildman Life Est	Grant	Wetzel	34	7	37
Kenneth E. Wildman Life Est	Grant	Wetzel	17	В	38
Kenneth Morris	Grant	Wetzel	24	13	39
Coastal Forest Resources Com	Grant	Wetzel	10	7	40
Mark W. Minor, et al.	Grant	Wetzel	10	8	41
Phillip Brent & Kimberly Shr	Grant	Wetzel	19	8	42
Bonnie M. Henthorne	Grant	Watzel	11	8	43
Patsy Rose Barr, et al.	Grant	Wetzel	14	8	44
ikey be Willey	Grant	Watzal	21	8	45
James L. Dulaney	Grant	Watzel	23.1	8	46
Dale K & Sherry L Dulane	Grant	Wetzel	38	8	47
Linda L. Dunn	Grant	Wetzei	14	13	48
Dale K Dulaney	Grant	Wetzel	23	8	49
William Morrison, et al.	Grant	Wetzel	32	13	84
Charles W. & Serra R Lem	Grant	Wetzel	42	13	94
William Morrison, et al.	Grant	Watzel	16	13	96
William Morrison, et al.	Grant	Watzal	25	13	97
Charles W. & Serra R. Lem	Grant	Wetzel	26	13	101
Charles W. & Serra R. Lem	Grant	Wetzel	34	13	102
David Willey Life Estate	Grant	Watzel	43	13	103
Dale K & Sherry L Dulane	Grant	Wetzel	44	8	105
Dawn N. Dulanev	Grant	Wetzel	46	8	106
Dawn N. Dulaney	Grant	Watzal	47	8	107
Dawn N. Dulanev	Grant	Watzel	45.1	8	108
			49.1	8	
Dale K Dulaney	Grant	Wetzel			109
Mansel Lee McDiffitt, et a	Grant	Wetzel	55	8	110
H. Dorn Higginbotham, et	Grant	Wetzel	53	8	111
Robert Scott & Alfred Bryan	Grant	Wetzei	8	13	112
Merry D. Higginbotham	Grant	Wetzel	17	13	113

Well References

Big 177 114H

5/8" Rebar AZ267°01'45"

337

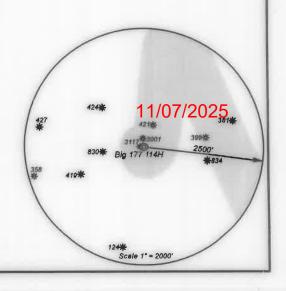
43.19
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2.15
1" = 300'
14.1

3.25 9.828 51.8 27.75 67.5 15.02 3.35

55.06 54.01 44.6 67 70.3 120 48.1 46.45 55.5 176.27 3.19 28.82 12.5 40.19 40 30.89 55 30.7 7.87 7.87 7.87 1.6 0.075 0.003 0.172

9.25 196.21 36 112

Lease No.	Owner	Acres
121095000	Coastal Forest Resources Company, et al.	300
101902001	John D. Parks, et al.	16
112441000	EQT Production Company	300
107214001	Acropolis Inc., et al.	80
136604001	Stone Hill Minerals Holdings, LLC, et al.	60
135324006	Connie R. Brown, et al.	3.25
106931000	Shiben Estates, Inc. et al.	52
134766040	Billie S. Johnson, et al.	28
121272001	David E. Bowyer, et al.	55
106607004	Three Rivers Royalty II, LLC., et al.	76.50
121742001	MBD Holdings, LP, et al.	56





October 16, 2025

Via FedEx Overnight

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304

RE:

Horizontal Well Work Expedited Permit Modification Request

BIG177 112H (103-03729) and BIG177 114H (103-03730)

Grant District, Wetzel County, WV

WVDEP Recipient,

Please consider this our formal request for expedited modifications to the wells referenced above. Included with each permit application is a modification permit fee (\$2,500) and an expedited fee (\$5,000). The modification request to these wells are for lateral extensions.

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

Best Regards,

Kristen Brooks Permitting Specialist

Knisten Brooks

kristen.brooks@eqt.com

Office Of Oil and Gas

OCT 20 2025

WV Department of Environmental Protection