

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

Tuesday, August 10, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for BIG464 11H

47-103-03436-00-00

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.

Operator's Well Number: BIG464 11H

Farm Name: EQT PRODUCTION COMPAN

ames A. Martin

U.S. WELL NUMBER: 47-103-03436-00-00

Horizontal 6A New Drill Date Issued: 8/10/2021

API	Number:	
-----	---------	--

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

- 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.
- 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. 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.

API Number:	

PERMIT CONDITIONS

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.

API NO. 47- 103 -	03436
OPERATOR WEL	
Well Pad Name	· BIG464

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

1) Well Operator: EQT Production Comp	any 306686	Wetzel	Grant / Big Run /
	Operator ID	County	District Quadrangle
2) Operator's Well Number: 11H	Well	Pad Name: BIG4	64
3) Farm Name/Surface Owner: EQT Producti	on Company Public	Road Access: CR	1
4) Elevation, current ground: 1246.8' (bui	t) Elevation, propo	sed post-construct	ion: 1246.8' (built)
5) Well Type (a) Gas X Other	vil T	Inderground Stora	ge
(b)If Gas Shallow X	Deep		
Horizontal X	1		
6) Existing Pad: Yes or No Yes	-11		
 Proposed Target Formation(s), Depth(s), Marcellus, 7,399', 51', 2,620 PSI 	Anticipated Thickne	ess and Expected P	ressure(s):
8) Proposed Total Vertical Depth: 7399'			
9) Formation at Total Vertical Depth: Mar	cellus		
10) Proposed Total Measured Depth: 109	85'		
11) Proposed Horizontal Leg Length: 291	9'		
12) Approximate Fresh Water Strata Depths	109', 184', 4	32'	
13) Method to Determine Fresh Water Dept	hs: Offset Wells -	47-103-30593, 47	-103-30910
14) Approximate Saltwater Depths: 1724',	1848'		
15) Approximate Coal Seam Depths: 556'-	559', 795'-797', 89	7'-899', 912'-919'	
16) Approximate Depth to Possible Void (c	oal mine, karst, othe	er): N/A	
17) Does Proposed well location contain codirectly overlying or adjacent to an active m		No	x X
(a) If Yes, provide Mine Info: Name:			RECEIVED
Depth:			Office of Oil and Ga
Seam:			JUL 0 8 2021
Owner:			WV Department of

API NO. 47-103 - 03436

OPERATOR WELL NO. 11H
Well Pad Name: BIG464

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	A-500	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1019	1019	1000 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2441	2441	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	10985	10985	500' above intermediate casing
Tubing							
Liners							

Buyen Haring 6-11-21

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	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:	
Sizes:	
Depths Set:	Office of Ou and G
	JUL 0 8 202

WW-6B	
(10/14)	

API NO. 47- 103 - 0343

OPERATOR WELL NO. 11H Well Pad Name: BIG464

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): N/A Site Built
- 22) Area to be disturbed for well pad only, less access road (acres): N/A 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 joint from production casing shoe to KOP.

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.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, RECEIVED Office of Oil and Gas

Anti-Settling/Suspension Agent

JUL 08 2021

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminishatinal Protection 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.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam.

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type I (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

RECEIVED Office of Oil and Gas

JUL 08 2021



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (504) 926-0450 (304) 926-0452 fax

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

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

IN THE MATTER OF A VARIANCE FROM)	ORDER NO.	2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)		
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)		
THE OPERATIONAL)		
REGULATIONS OF CEMENTING OIL)		
AND GAS WELLS)		

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection easing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - · 2% Calcium Chloride (Accelerator)
 - · 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

Promoting a healthy environment.

RECEIVED Office of Oil and Gas

JUL 08 2021

CONCLUSIONS OF LAW

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

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

Office of Oil and Gas

JUL 08 2021



June 14, 2021

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

Re: Casing on BIG464 11H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,019' KB, 100' below the deepest workable coal seam and 587' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,441' KB, 50' below the base of the Big Injun formation.

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

RECEIVED Office of Oil and Gas

JUL 08 2021

4710303436

EQT Production Wellbore Diagram Well: BIG 464 11H County: Wetzel Pad: **BIG 464** State: West Virginia Elevation: 1246' GL 1259' KB Conductor @ 40' 26", 85.6#, A-500, cement to surface w/ Class A Surface @ 1,019' 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I 2,441' Intermediate @ 9-5/8", 36#, J-55, cement to surface w/ Class A/Type I 10,985' MD / 7,399' TVD **Production** @ 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H RECEIVED Office of Oil and Gas JUL 08 2021 Formation: Marcellus

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well BIG464 S-000124

Drilling Objectives: County:

Quad:

Elevation:

Big Lime

Big Injun

Marcellus

Wetzel Big Run

1259 KR

#N/A Degrees

2234

2322

2441

1246 GL

Base of Offset Well Perforations at 3129' TVD

TVD: 7399

Recommended LP to TD: #N/A

Recommended Azimuth Proposed Logging Suite:

Pilot Logging Not needed

ESTIMATED FORMATION TOPS	F	rom pilots on BIG57 and	d BIG182			
Fermation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	432		FW @ 109.184.432,	69	73
Waynesburg Coal	556	559 Coal			76	5 80
Coal	795	797 Coal		No known past/present/and or future mining within the area	90	5 114
Sewickley Coal	897	899 Coal			125	5 132 Base of Rec
Pittsburgh Coal	912	919 Coal				
Maxton	1792	1971 Saudst	one	SW @ 1724 1848,		
the state of the s					1	

ini. vsg pr	7441		
Weir	2520	2670 Sandstone	
Top Devonian	2735		
Gantz	2735	2771 Silty Sand	
Fifty foot	2876	2932 Silty Sand	Storage is NOT of concert
Thirty foot	2971	2998 Silly Sand	

2310 Limestone

2391 Sandstone

3027 3072 Silty Sand Gordon Forth Sand 3097 3110 Silty Sand Fifth Sand 3169 3188 Silty Sand Bayard 3222 3240 Silty Sand Warren 3645 3669 Silty Sand Speechley 3765 3813 Silty Sand Balltown A 4123 4138 Silty Sand Riley 4508 4650 Silty Sand 5037 Benson 5286 Silty Sand

5651 Alexander 5718 Silty Sand 5718 6917 Gray Shales and Silts Files 6917 Sonyea 7080 Gray shale Middlesex 7080 7136 Shale Genesee 7136 7223 Gray shale interbedded 7223 7255 Black Shale Geneseo

7255 7280 Limestone Hamilton 7280 7378 Gray shale with some Marcellus 7378 7429 Black Shale Purcell 7396 Limestone 7399 -Lateral Zone Cherry Valley 7409 7413 Limestone

Onondaga 7429 Target Thickness 51 feet Max Anticipated Rock Pressure 2620 PSI

Tully

intermediate casing point is recommended beneath the Big Injunito shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

LATERAL DRILLING TOLERANCES

Mapview - Lateral: Deviate as little as possible to the left or right of the planned wellhore, Mapview - TD: DO NOT EXTEND beyond recommended wellbore to avoid leaseline

RECOMMENDED CASING POINTS

CSG OD 13 3/8 CSG DEPTH: Fresh Water/Coal 1019 CSG OD 9 5/8 CSG DEPTH 2441 Intermediate 1: Production: CSG OD 5 1/2 CSG DEPTH:

Limestone

Beneath Pittsburgh Coal Beneath the Big Injun formation RECEIVED Office of Oil and Gas

JUL 08 2021

API Number 47 -	103	-	03436	
Operator's	Well No	Di	CAGATILI	

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	Quadrangle Big Run
Do you anticipate using more than 5,000 bbls of water to co. Will a pit be used? Yes No No	mplete the proposed well work? 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.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	0014 8462 4027
Underground Injection (UIC Per Reuse (at API Number Various	mit Number 5014, 5402, 4037
Off Site Disposal (Supply form V	WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes, The ck	osed loop system will remove drill cultings from the drilling fluid. The drill cultings are ed for transportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horiz	ontal)? 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, remove	/ed 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 Attac	ched List
	d Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have persona application form and all attachments thereto and that, be obtaining the information, I believe that the information penalties for submitting false information, including the possible Company Official Signature	and conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for is true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
Company Official (Typed Name) John Zavarchan	200)
Company Official Title Project Specialist - Permitting	JUL 0 8 2021
11 1	Tune 2021 , 20 Commonwealth of Pennsylvania - Notary Sea
My commission expires March 9, 2024	Notary Public Rebecca Shrum, Notary Public Beaver County My commission expires March 9, 2024 Commission number 1267706 Member, Perhal 24, 24, 24, 24, 24, 24, 24, 24, 24, 24,

acility Name WS Trucking Inc.		Offsite Dispo	sals for Unconvention						
WS Trucking Inc.	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number
	P.O. Box 391		Williamstown	wv	26187	740-516-3586	Noble	OH	3390
						<u></u>		ļ	
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740-516-5381	Washingotn	ОН	8462
			-	4	45554	724 250 270	Ot.	1407	115504 147/ 0014
AD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Onio	wv	USEPA WV 0014
Fried Enormy	PO Box 430		Reno	ОН	45773	740-516-6021	Noble	ОН	4037
Triad Energy	10 802 430		Reno		13773	740-374-2940	1400.0		
		-		-	 	1			
ri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009
		<u> </u>				724-499-5647			
Ging Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101		Lawrence	PA	PAR000029132
						<u> </u>			
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	wv	16330	304-326-6027	Harrison	wv	SWF-1032-98
					ļ			ļ	Approval #100785WV
			<u> </u>	1	100455	200 400 200	1014	1404	CIVIE 403E 1484 0400 100
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	wv	26104	304-428-0502		wv	SWF-1025 WV-0109400
ADOVA IOU	14.5	90 Pau 57	Ametordam	- lou	43003	740-543-4389	lofforcon	ОН	06-08438
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	ОН	43903	/40-543-4389	Jefferson	Un	00-06436
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road	 	McClellandtown	PA	15458	724-437-7336	Favette	PA	100419
Advanced Disposar - Chestriat Valley Cariditi	1184 Wiccienandtown Road		- INCCICIONI CONTI	1	125450	1724 437 7330		 	
Westmoreland Sanitary Landfill	901 Tyrol Boulevard	<u> </u>	Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
		-				1			
Austin Master Services	801 North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Belmont	ОН	2014-541
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511
					<u> </u>			<u> </u>	
Diversified Resources	3111 Braun Rd.		Belpre	ОН	45714	740-401-0413	Washington	ОН	
			-		ļ	ļ	 		24 021 27177
			6	ا	42012	740-610-1512	ľ	он	34-031-27177 34-031-27178
	3300C Almont Dood	1	Coshocton	ОН	43812	724-591-4393	Coshocton	ОП	34-031-27241
Buckeye Brine	23986 Airport Road	-	+	+-	 		Cosnocton	 	34-031-27241
Central Environmental Services	28333 West Belpre Pike		Coolville	ОН	45723	304-488-0701	Athens	ОН	
Central Environmental Services	28333 West Beipre Fike		COOLAINE	10	13723	304 400 0701	Addicio	 	
	10555 Veto Road	_	Belpre	ОН	45714	330-232-5041	Washington	ОН	34-119-2-8776
Nuverra - Nichols					1				
Nuverra - Nichols		i i				+	+	14	
Nuverra - Nichols Nuverra - Goff	9350 East Pike Road	1	Norwich	ОН	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
	9350 East Pike Road		Norwich	ОН	43767				
	9350 East Pike Road 5480 State Route 5		Norwich Newton Falls	ОН	43767 44444	330-232-5041 330-232-5041		ОН	34-167-2-3862 34-155-2-1893
Nuverra - Goff Nuverra - Wolf	5480 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893
Nuverra - Goff					44444		Trumbull		34-155-2-1893
Nuverra - Goff Nuverra - Wolf	5480 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull Trumbull	ОН	34-155-2-1893

					740-374-2940			
		Reno	ОН	45773	412-443-4397		ОН	
FQ Helen	199 Bowersock Road				740-236-2135	Washington		34-167-2-9577
		l			740-374-2940			
		Dexter City	ОН	45727	412-443-4397		ОН	34-121-24037
FQ Dexter	38505 Marietta Rd.				740-236-2135	Noble		34-121-24086
 					740 374 3040			
		Ettanhana	l	20240	740-374-2940			
		Ellenboro	wv	26346	412-443-4397		wv	47.005.00734
FQ Ritchie	122 Lonesome Pine Rd			+	740-236-2135	Kitchie	<u> </u>	47-085-09721
			+					34-105-2-3619
		ŀ	- 1		740-374-2940			34-105-2-3652
		Portland	ОН	45770	412-443-4397		ОН	34-105-2-3637
FQ Mills	53610 TS Rd 706		- 1		740-236-2135	Meigs		34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street	Cambridge	он	43725	614-477-1368	Guernsey	он	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.	Tridelphia	wv	26059	740-255-5727	Ohio	<u> wv</u>	
Deep Rock Disposal	2341 OH-821	Marietta	ОН	45750	304-629-0176	Washington	ОН	34-167-2-9766

Office of Cil and Gas

JUL 08 2021

WW Department of Environmental Protection

WW-9 Attachment

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

 Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or synthetic mud.

Additives to be used in drilling medium?

- Air biodegradable oil lubricant, detergent, defoaming, water.
- Water based mud Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

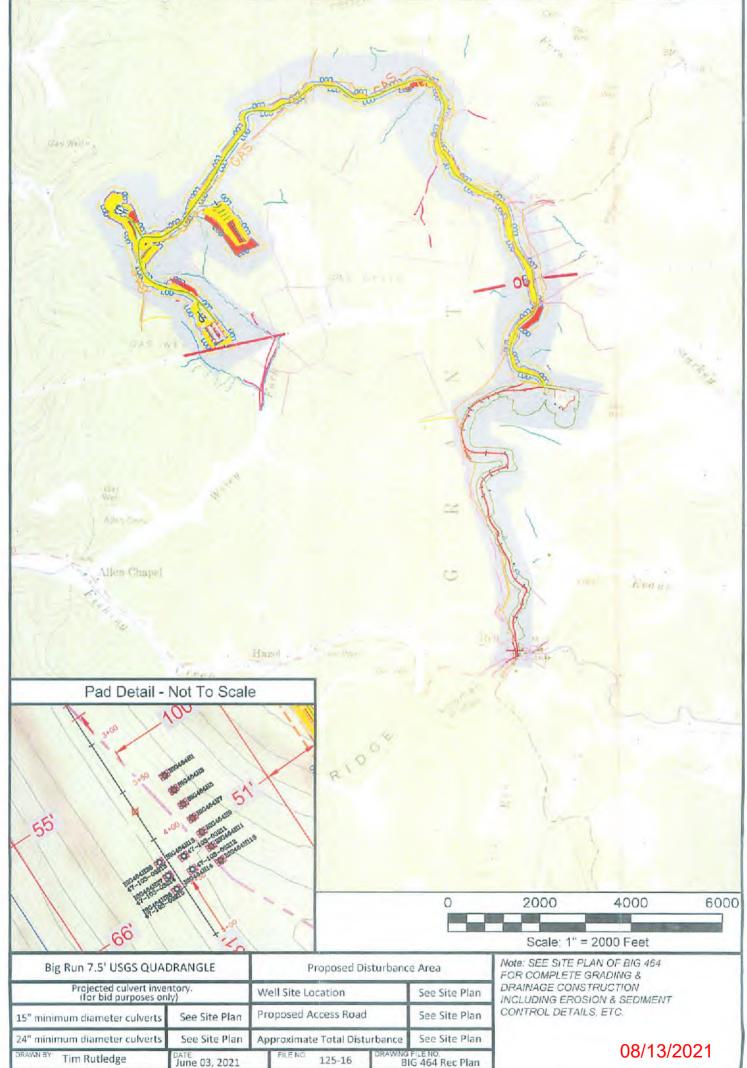
RECEIVED
Office of Oil and Gas

JUL 08 2021

Operator's Well No. BIG464 11H

Proposed Revegetation Trea	tment: Acres Disturbed	Prevegetation pH	I
Lime 3	Tons/acre or to correct	ct to pH 6.5	
Fertilizer type Gra	anular 10-20-20		
Fertilizer amount_	500	lbs/acre	
Mulch2	.	_Tons/acre	
		Seed Mixtures	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicat	pit will be land applied, incion area	d application (unless engineered plans included limensions (L x W x D) of the pit, and	
provided). If water from the acreage, of the land applicate Photocopied section of invol	pit will be land applied, incion area lved 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), a
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	pit will be land applied, incion area lved 7.5' topographic sheet. /mulch all disturbe	clude dimensions (L x W x D) of the pit, and	ably possible,
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	pit will be land applied, incion area lved 7.5' topographic sheet. /mulch all disturbe	elude dimensions (L x W x D) of the pit, and	ably possible,
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	pit will be land applied, incion area lved 7.5' topographic sheet. /mulch all disturbe	elude dimensions (L x W x D) of the pit, and	ably possible, Manual.
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	pit will be land applied, incion area lved 7.5' topographic sheet. /mulch all disturbe	elude dimensions (L x W x D) of the pit, and	ably possible, Manual.
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	pit will be land applied, incion area lved 7.5' topographic sheet. /mulch all disturbe	elude dimensions (L x W x D) of the pit, and	ably possible, Manual.

PAGE 1 OF 1





SURVEYING AND MAPPING SERVICES PERFORMED BY:

LEGHENY SURVEYS, INC. 1-800-482-8606

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608

237 Birch River Road P.O. Box 438 Birch River, WV 26610 08/13/2021

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG464

County: Wetzel

June 14, 2021

Office of Oil and Gas

JUL 0 8 2021

WV Department of Environmental Protection

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the BIG464 well pad: 1H, 3H, 5H, 7H, 9H, 11H, 113H

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. **Communications with Well Operators**

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in Attachment A.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

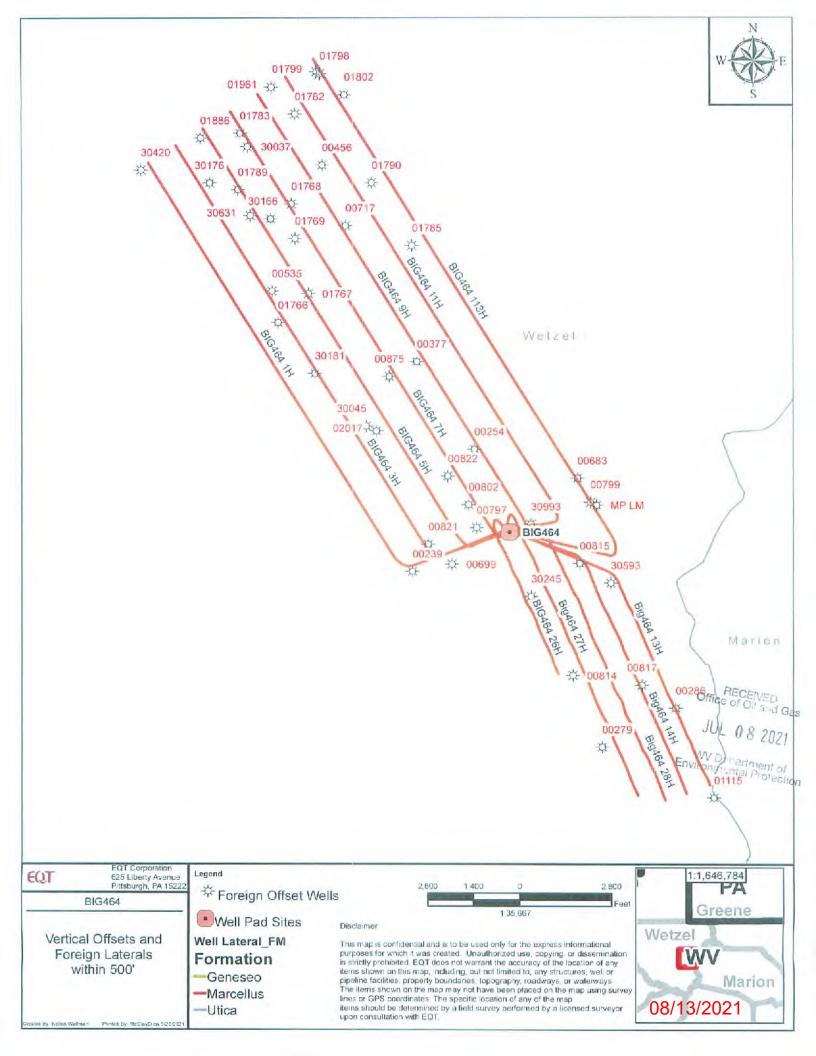
- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves or other necessary equipment for wellhead integrity capable RECEIVED
 Office of Oil and Gas of a pressure recommended by EQT
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

JUL 08 2021

Wy Department of



```
1441.0000
1441.0000
1441.0000
1564.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.00000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
1565.0000
Latitude
                               0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.05.77

0.0
           Longstude
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C
D A C

       Permit 00234 00224 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227 00227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOWER HURON SHALE
       fmatTD
           9,19/1940
9/27/1941
7/21/1941
3/25/1943
3/30/1958
1/2/1963
8/9/1922
10/2/1919
       Verification

Verification

Coccio

Co
       91000019
91000019
91000019
91000019
91000019
91000019
91000019
91000019
91000019
91000019
91000019
91000019
91000019
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
91000199
```





Buyer Han

SITE SAFETY AND ENVIRONMENTAL PLAN

BIG464 Pad

Mannington Wetzel County, WV

Wells: 1H, 3H, 5H, 7H, 9H, 11H, 13H (103-03211), 14H (103-03212), 26H (103-03213), 27H (103-03214), 28H (103-03215), 113H

Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 29-Jan-20

John Zavatehan

Project Specialist

EQT Production Company

Bryan Harris

Oil and Gas Inspector

West Virginia DEP

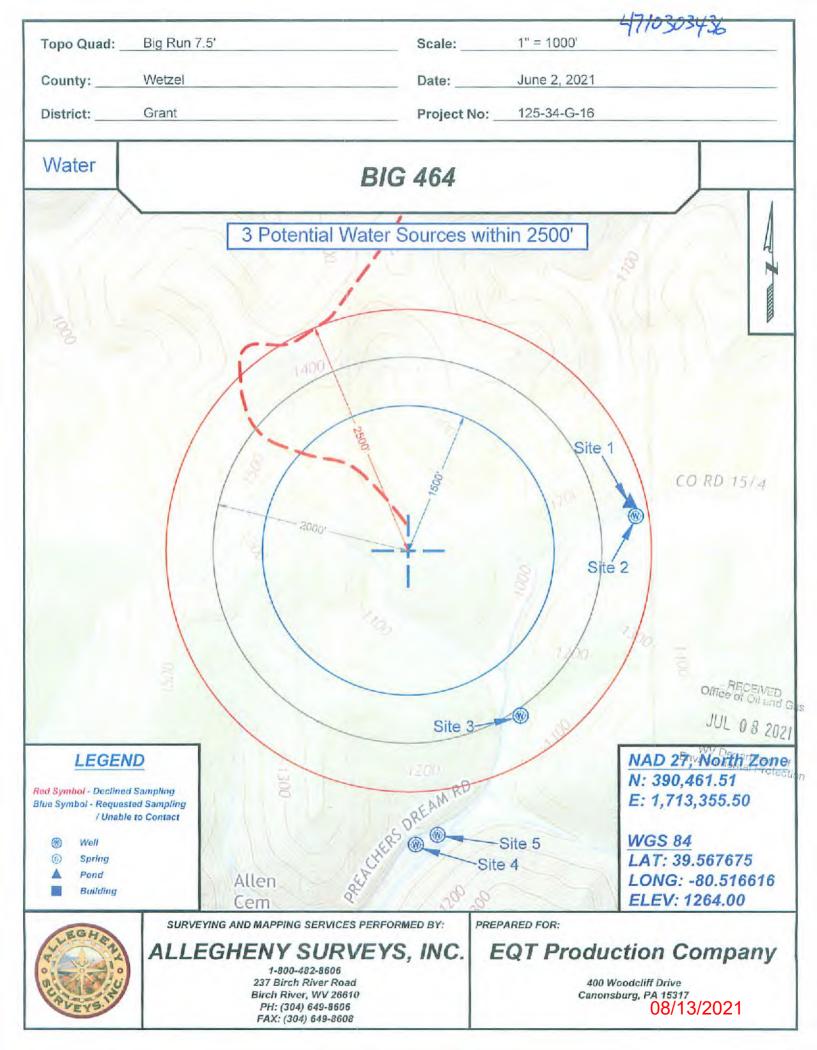




Table 1 - Water Source Identification

□ Landowner Requested Sampling □ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) 16. Pond.
□ Landowner Requested Sampling □ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) 16. Water well.
□ Landowner Requested Sampling □ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EOT's third party) pre-drill samplied lab (1.27)

· ·	
Surface Owner / Occupant: Mabel Barr	☐ Landowner Requested
Address: 722 Barr Rd. Smithfield WV 26437 Phone #: 304-386-9650 Field Located Date: 10/15/2018 Owner home during survey (yes/no): Yes Coordinates: 39.559321, -80.516238 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 5/27/2021 2nd: Door Hanger Left:	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Comments: Certified letter sent May 27, 2021. Water well by Ms. Barr's home lo	ocated in 2018.
Site Number: 5 Distance from Gas Well (feet): 2958 ±	
Site Number: 5 Distance from Gas Well (feet): 2958 ± Surface Owner / Occupant: Mabel Barr	☐ Landowner Requested
, ,	☐ Landowner Requested Sampling ☐ Landowner Decline
Surface Owner / Occupant: Mabel Barr	Sampling
Surface Owner / Occupant: Mabel Barr Address: 722 Barr Rd. Smithfield WV 26437 Phone #: 304-386-9650	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party
Surface Owner / Occupant: Mabel Barr Address: 722 Barr Rd. Smithfield WV 26437 Phone #: 304-386-9650 Field Located Date: 10/15/2018 Owner home during survey (yes/no):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

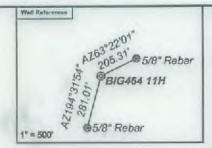
Comments: Certified letter sent May 27, 2021. Water well by Ms. Barr's son's mobile home located in 2018.

RECEIVED
Office of Oil and Gas

JUL 08 2021

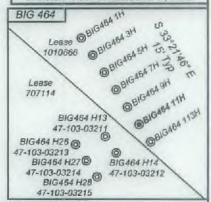
BIG464 11H **BIG464 EQT Production Company**

Tract LD.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	34	Wetzel	Grant	EQT Preduction Company	25.25
2	20	10	Wetzui	Grant	Coastal Forest Resources Company	520.00
3	15	27	Wetzni	Grant	Bayery Lynn Bay Life Estate	10.00
.4	14	27	Wetzel	Grant	EQT Production Company	22.00
5	14	20	Wetzel	Unint	EQT Production Company	120.86
0	19	18	Wetzel	Drant	Clorated J. 171 ustry	25.00
17	14	b.	Wetzel	Cirent	Coastal Forest Resources Company	232.00
1.8	15	18	Weizst	Orant	Donald J. DT unky	.19 50
19:	15	12	Wetzel	Grant	William Bowers & Donald J. D'Lanky	147.50
27	-		Wetzel	Grant	No Tex Map & Parcel Information	

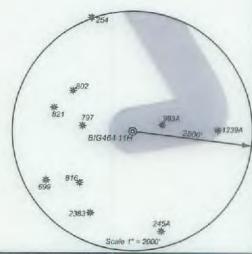


Notes:
BIG464 11H coordinates are
NAD 27 N: 390,430.90 E: 1,713,422.72
NAD 27 Lat: 39,567509 Long: -80,516566
NAD 83 UTM N: 4,379,877.75 E: 541,541.28
BIG464 11H Landing Point coordinates are
NAD 27 N: 391,350.06 E: 1,714,721.42
NAD 27 Lat: 39,570073 Long: -80,511996
NAD 83 UTM N: 4,380,764.40 E: 541,932.28
BIG464 11H Bottom Hote coordinates are NAD 83 UTM N: 4,380,164.40 E: 541,932.28
BIG464 11H Bottom Hole coordinates are
NAD 27 N: 993,852.26 E: 1,743,217.87
NAD 27 Lat: 39.576896 Long: -80.517430
NAD 83 UTM N: 4,380,919.07 E: 541,461.51
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, corner and well lies are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.

meridian. UTM coordinates are NAD83, Zone 17, Meters



Lease No.	Owner	Acres
707114	Ridgetop Royalties, LLC, et al.	78
712204	Janice E. Nolan, et al.	120
1010668	Ridgetop Royalties, LLC, et al.	25





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.

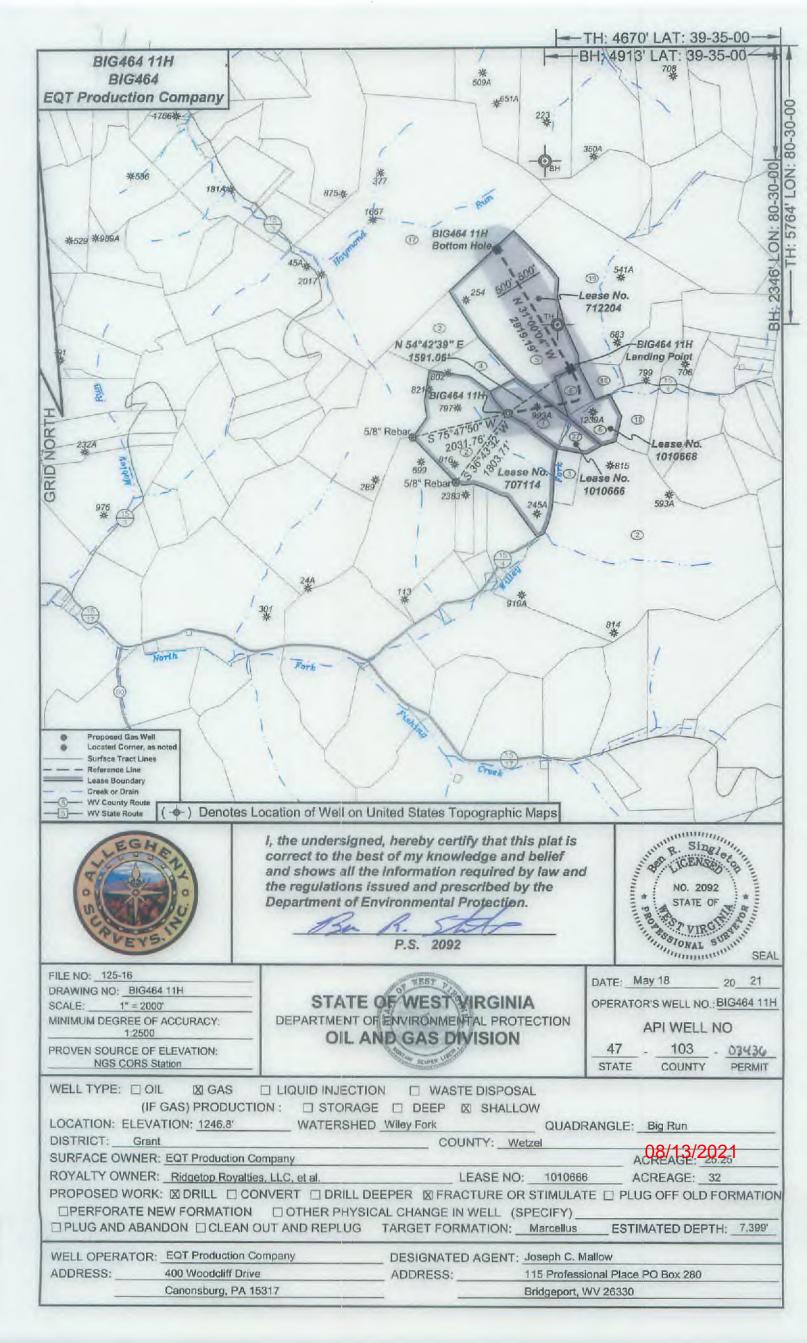
P.S. 2092

or = 2000 R. Single of the CENSON OF THE PARTY OF THE PAR NO. 2092 STATE OF VIRGINIA SOUNAL SOUNA SOUNA SOUNA SOUNA SOUNA SOUNA SO

FILE NO: 125-16 WEST P DRAWING NO: BIG464 11H STATE OF WEST VIRGINIA SCALE: 1" = 2000' DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: 1:2500 OIL AND GAS DIVISION PROVEN SOURCE OF ELEVATION:

DATE: May 18 OPERATOR'S WELL NO .: BIG464 11H API WELL NO 103 - 03436 47

1400 00110 01	auori		STATE OF THE PARTY			STATE	COUNTY	PERMIT
WELL TYPE: OIL (IF LOCATION: ELEVA	GAS) PRODUCTIO		E DEEP	E DISPOSA	W	ANGLE:	Big Run	
DISTRICT: Grant				JNTY: Wet				
SURFACE OWNER:	EQT Production Cor	npany			San Sol	4	08/13/20	21
ROYALTY OWNER:	Ridgetop Royalties	LLC, et al.	1	EASE NO:	1010666		CREAGE: 3	
PROPOSED WORKS	: DRILL CON	VERT DRILL D						
☐ PLUG AND ABAN	DON CLEAN OL	JT AND REPLUG	TARGET FOR	MATION: _	Marcellus	ESTI	MATED DEPT	H: 7,399'
WELL OPERATOR:	EQT Production Cor	npany	DESIGNATE	D AGENT:	Joseph C. M.	allow		
ADDRESS:	400 Woodcliff Drive		ADDRESS:	1	115 Professio	onal Place	PO Box 280	
	Canonsburg, PA 153	17			Bridgeport V	N/ 26330		



WW-6A1 (5/13)

Operator's	Well	No.	BIG464 11H	

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				S. Connection of
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Attachment

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

Office of Oil and Gas

JUL 08 2021

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, bit Department of 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: John Zavatchan

Its: Project Specialist - Permitting

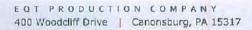
Page 1 of 2

ease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page	
	Ridgetop Royalties, LLC, et al.			"at least 1/8th per WV Code 22-6-8"		
<u>707114</u>	W. S. Furbee and Mary Furbee, his wife	78 ac	Carnegie Natural Gas Company		OG 2A/182	
	Carnegie Natural Gas Company		Carnegie Production Company		OG 78A/513	
	Carnegie Production Company		EQT Production Company		WV SOS	
	Ridgetop Royalties, LLC, et al.			"at least 1/8th per WV Code 22-6-8"		
1010666	Ridgetop Royalties, LLC	32 ac	EQT Production Company		OG 166A/638	
	Janice E. Nolan, et al.			"at least 1/8th per WV Code 22-6-8"		
<u>712204</u>	T. J. Glover, single, and Daniel Glover, single	120 ac	Carnegie Natural Gas Company		OG 19A/380	
	Carnegie Natural Gas Company		Carnegie Production Company		OG 78A/513	
	Carnegie Production Company		EQT Production Company		WV SOS	
	Ridgetop Royalties, LLC et al.			at least 1/8th per WV Code 22-6-8		
<u>1010668</u>	Ridgetop Royalties, LLC	25 ac	EQT Production Company		OG 248A/272	
	Janice E. Nolan, et al.			"at least 1/8th per WV Code 22-6-8"		REPE/
<u>712204</u>	T. J. Glover, single, and Daniel Glover, single	120 ac	Carnegie Natural Gas Company		OG 19A/380	
	Carnegie Natural Gas Company		Carnegie Production Company		OG 78A/513	
	Carnegie Production Company		EQT Production Company		WV SOS	

Office of Oil and Gas

JUL 0 8 2021

WV Deportment of Environmental Protection





June 14, 2021

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

Re:

BIG464 11H

Grant District, Wetzel County, WV

Dear Mr. Brewer,

EQT Production Company is applying for a new 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,

John Zavatchan

Project Specialist - Permitting

Office of Oil and Gas

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

Date of Notice Certification: 6157204		Operator's	API No. 47- 103 - 6 3436 Operator's Well No. 11H Well Pad Name: BIG464		
Pursuant to th		22-6A, the Operator has provided the req		Notice Forms listed	
	tract of land as follows:	Fastings	541541.276		
State: County:	Wetzel (UTM NAD 83 Easting: Northing:	4379877.751		
District:	Grant	Public Road Access:	CR1		
)uadrangle:	Big Run	Generally used farm name:	EQT Production Company		
Vatershed:	Wiley Fork	Selecting used fairing manner.			
of giving the equirements /irginia Cod of this article Pursuant to that the Ope	surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t have been completed by the applican	erator has attached proof to this Notice C	en of this article six- the surface owner; a that the notice require	-a; or (iii) the notice nd Pursuant to West	
				ONLI	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT		RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or <a> NO PLAT SURVEY WAS CO	ONDUCTED F	RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		RECEIVED/ NOT REQUIRED	
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION		□ F	RECEIVED	
■ 5. PUI	BLIC NOTICE		□ F	RECEIVED RECEIVED and G	
	TICE OF APPLICATION			JUL 0.8 202	
■ 6. NO	TICE OF AFFEICATION		i	RECEIVED WV Department	

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.

Certification of Notice is hereby given:

THEREFORE, I John Zavatchan , 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: John Zavatchag Its:

Project Specialist - Permitting Telephone:

724-746-9073

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

Email: jzavatchan@eqt.com

NOTARY SEAL

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

Wember, Pennsylvania Association of Notaries

Subscribed and sworn before methis 157

My Commission Expires

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.

JUL 08 2021

API NO. 47- 103 - 03436 OPERATOR WELL NO. 11H Well Pad Name: BIG464

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

Not	ice Time Requirement: notice shall be prov	ed no later than the filing o	late of permit application.	
	e of Notice: [6][5][702] Date Permit Applica	on Filed: 7/10/2021		
V		CATE OF APPROVAL FOU		
Del	ivery method pursuant to West Virginia C	de § 22-6A-10(b)		
	PERSONAL REGISTERED	✓ METHOD OF DEL	IVERY THAT REQUIRES A	
	SERVICE MAIL	RECEIPT OR SIGN	NATURE CONFIRMATION	
cert regii sedii the oil a descope mon wel imp hav propro sub reco	suant to W. Va. Code § 22-6A-10(b) no later the ifficate of approval for the construction of an important of the properties of the tract on which the well is or is propertied in the erosion and sediment control plan rator or lessee, in the event the tract of land on recoal seams; (4) The owners of record of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface tract is to be used for the properties of the surface of the surface of the place. (c)(1) section (b) of this section hold interests in the lands of the sheriff required to be maintained pure vision of this article to the contrary, notice to a let R. § 35-8-5.7.a requires, in part, that the ope of the purveyor or surface owner subject to notice a properties of the surface owner subject to notice and the surface of the surface owner subject to notice and the surface of the surface of the surface owner subject to notice and the surface owner subject to notice and the surface owner subject to notice and the surface of the surface owner subject to notice and the surface of the surface owner subject to notice and the surface of the surface owner subject to notice and the surface of the surface owner subject to notice and the surface of the surface of the surface of the surface of the s	oundment or pit as required uires a receipt or signature cois article, and the well plat to bosed to be located; (2) The dead well work, if the surface to abmitted pursuant to subsect thich the well proposed to be face tract or tracts overlying acement, construction, enlarging article; (5) Any surface of the within one thousand five it animals; and (6) The oper more than three tenants in eds, the applicant may serve than to section eight, article on holder is not notice to a latter shall also provide the Western to see the server of the section of the section of the section of the western and to section of the section of the western and the section of the section of the section of the western and the section of the s	by this article shall deliver, by personal profirmation, copies of the application, a each of the following persons: (1) To ewners of record of the surface tract of ract is to be used for roads or other lartion (c), section seven of this article; (3 drilled is located [sic] is known to be the oil and gas leasehold being development, alteration, repair, removal or a wner or water purveyor who is known to hundred feet of the center of the well attor of any natural gas storage field wommon or other co-owners of interest the documents required upon the persone, chapter eleven-a of this code. (2) Indowner, unless the lien holder is the sell Site Safety Plan ("WSSP") to the s	al service or by the erosion and he owners of record of or tracts overlying the and disturbance as b) The coal owner, underlain by one or oped by the proposed abandonment of any to the applicant to I pad which is used to ithin which the is described in on described in the Notwithstanding any landowner, W. Va.
	Application Notice ☑ WSSP Notice ☑ Ed			
_	URFACE OWNER(s) nc; See Attached List	☑ COAL O Name: See	WNER OR LESSEE AttachedList	
	fress:	Address:		
Nar	ne:	□ COAL O	PERATOR	
Add	lress:	Name:		_
MS.	URFACE OWNER(s) (Road and/or Other D	turbance) Address: _		Office of Oil and Gas
Nai	ne: See Attached List	□SURFAC	E OWNER OF WATER WELL	
Add	dress:	AND/OR V	WATER PURVEYOR(s)	JUL 08 2021
		Name:		MAY Down allows
Ade	ne:lress;	ridarcas.		Environmental Protection
	URFACE OWNER(s) (Impoundments or Pitne: lress:	OPERAT	FOR OF ANY NATURAL GAS ST	
Add	lress:	*Please att	ach additional forms if necessary	

API NO. 47-103 - 03436 OPERATOR WELL NO. 11H Well Pad Name: 81G464

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 <a href="https://www.dep.wv.geminior.com/www.geminior.com/www.gemini

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from a control of the contro water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six roles long 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

API NO. 47- 103 - 03436
OPERATOR WELL NO. 11H
Well Pad Name: BIG464

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 RECEIVED 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

WV Depairment or Environmental Protection

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.

API NO. 47-103 - 034/36

OPERATOR WELL NO. 11H

Well Pad Name: BIG464

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.

Office of Oil and Gas

JUL 0 8 2021

Environmental Procession

API NO. 47- 103 - 03436 OPERATOR WELL NO. 11H Well Pad Name: BIG454

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 724-746-9073 Email: jzavatchan@eqt.com Address: 400 Woodcliff Drive

Canonsburg, PA 15317 Facsimile: 412-395-2974

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 Rebecca Shrum, Notary Public Beaver County My commission expires March 9, 2024 Commission number 1267706

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 14th day of June, 2021.

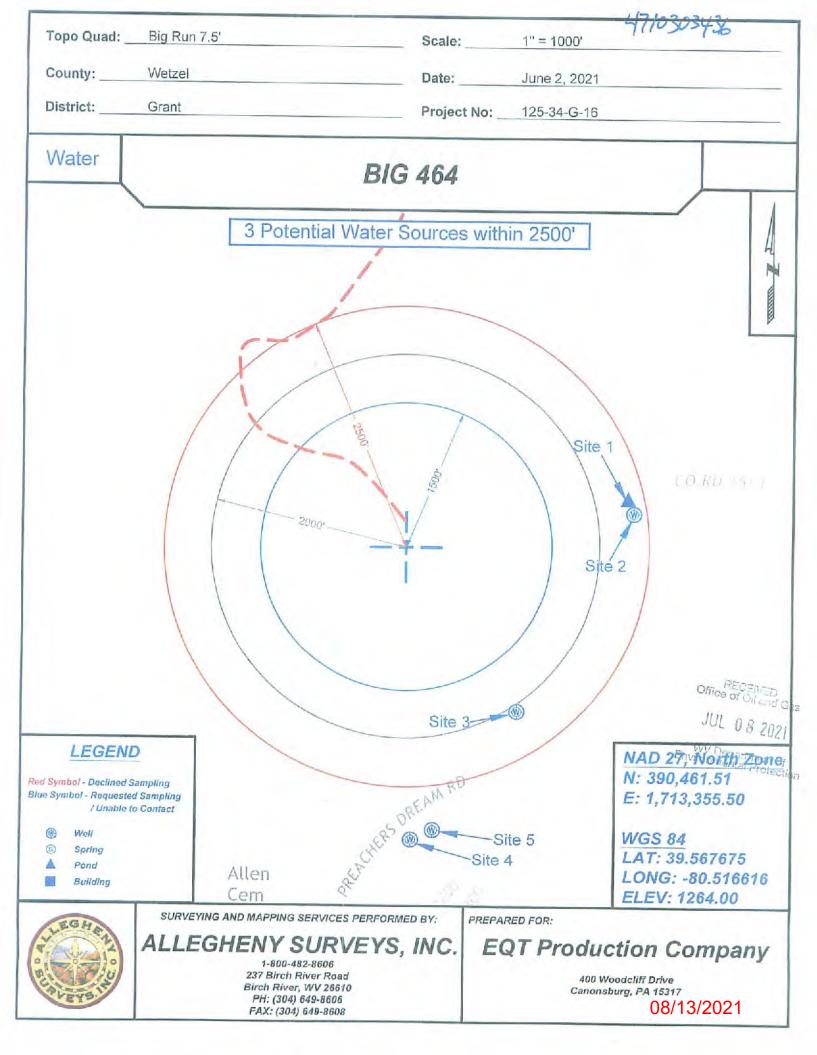
Notary Public

My Commission Expires Harch 9, 2024

Office of Oil and Gas

JUL 08 2021

WV December of Environmental Protection



Well Pad / AST Pad / Access Road / Stockpile

- EQT Production Company 400 Woodcliff Drive, CANONSBURG, PA 15317
- Coastal Forest Resources Co.
 PO BOX 709, BUCKHANNON, WV 26201

Access Road

- Robert and Maxine Tonkery
 33 TONKERY DR., FAIRMONT, WV 26554
- Paul Able Trustee ETAL
 400 DELTA RD. APT 1, AMHERST, NY 14226
- William Jack & Beverly Barr (Marlene Barr LE)
 2124 BARR RD., SMITHFIELD, WV 26437
- Donald W. & Diana L. White
 5017 HUSKY HWY., MANNINGTON, WV 26582
- Coastal Forest Resources Co.
 PO BOX 709, BUCKHANNON, WV 26201
- Rich Rager
 4620 SIMPSON RD., GRAFTON, WV 26354
- Timothy E. Titus
 7335 WILLEY FORK RD., BURTON, WV 26562
- Timothy E. Titus ETAL
 7335 WILLEY FORK RD., BURTON, WV 26562
- Billy J. & Frances J. Higgins Irrevocable Intervivos Trust /
 531 FRANKLIN TERRANCE, WASHINGTON, PA 15301

Coal Owners

- Consol RCPC LLC
 1000 Consol Energy Drive, Canonsburg, PA 15370
- SKB Mineral Interests, LLC
 3606 Pruetts Chapel Road, Paragould, AK 72450
- Newton S Beaty Families Trust
 107 High Street, PO Box 108, Mannington, WV 26582

Coal Lessee

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

WW-6A4 (1/12)

47/0303436 Operator Well No. BIG464 11H

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.

Date of Notic	Requirement: e: 05/25/2021		Date Permit	101		
Delivery met	hod pursuant	o West Virgin	nia Code § 22-6/	A-16(b)		
☐ HAND	п	CERTIFIED	MAIL			
DELIVE			CEIPT REQUE	STED		
receipt reques drilling a hor of this subsec subsection ma	ted or hand del zontal well: P tion as of the d by be waived in	ivery, give the rovided. That in the the notice was writing by the	surface owner notice given purs was provided to t surface owner,	for to filing a permit application of its intent to enter upon suant to subsection (a), section he surface owner: <i>Provided, he</i> The notice, if required, shall in section the operator and the operator.	the surface owner's land ten of this article satisfie owever. That the notice re- clude the name, address,	for the purpose of s the requirements equirements of this telephone number,
Notice is he	reby provide	l to the SUR	FACE OWNE	R(s):		
Name: See Atta	ched		100	Name: See Attached		_
Address:				Address:		_
Pursuant to V the surface ov	est Virginia C			ereby given that the undersigne ntal well on the tract of land as Easting:		ntent to enter upon
Pursuant to V the surface ov State:	est Virginia C vner's land for West Virginia			ntal well on the tract of land as LITM NAD 83 Easting:	follows: 541541.276	ntent to enter upon
Pursuant to V the surface ov State: County:	est Virginia C vner's land for			ntal well on the tract of land as	follows: 541541.276	ntent to enter upon
Pursuant to V the surface ov State: County: District: Quadrangle:	Vest Virginia Covner's land for West Virginia West Virginia Wetzel Grant Big Run			ntal well on the tract of land as UTM NAD 83 Easting: Northing:	follows: 541541.276 4379877.751	
Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	Vest Virginia Covner's land for West Virginia Wetzel Grant Big Run Wiley Fork Shall Include West Virginia Inber and electrizontal drilling	e: Code § 22-6A onic mail add may be obtain	-16(b), this notiress of the open	utal well on the tract of land as UTM NAD 83 Basting: Northing: Public Road Access:	follows: 541541.276 4379877.751 CR1 EQT Production Company dress, telephone number ized representative. Addit of Environmental Protect	, and if available, itional information etion headquarters,
the surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to be facsimile nurrelated to how located at 60000. Notice is he	Vest Virginia Covner's land for West Virginia Wetzel Grant Big Run Wiley Fork Shall Include Vest Virginia ober and electrizontal drilling 57th Street, SE	the purpose of :: Code § 22-6A onic mail add may be obtain Charleston, V	-16(b), this notiress of the open	ntal well on the tract of land as UTM NAD 83 Public Road Access: Generally used farm name: ce shall include the name, ad ator and the operator's authoric retary, at the WV Department 926-0450) or by visiting www.	follows: 541541.276 4379877.751 CR1 EQT Production Company dress, telephone number ized representative. Addit of Environmental Protection dep.wv.gov/oil-and-gas/p	, and if available, itional information etion headquarters,
Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	Vest Virginia Covner's land for West Virginia Wetzel Grant Big Run Wiley Fork Shall Include West Virginia Inber and electrizontal drilling 57th Street, SE	the purpose of :: Code § 22-6A onic mail add may be obtain Charleston, V	-16(b), this notiress of the open	ntal well on the tract of land as UTM NAD 83 Public Road Access: Generally used farm name: ce shall include the name, ad ator and the operator's authorizetary, at the WV Department 926-0450) or by visiting www.	follows: 541541.276 4379877.751 CR1 EQT Production Company dress, telephone number ized representative. Addit of Environmental Protection dep.wv.gov/oil-and-gas/p	, and if available, itional information etion headquarters,
Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	Vest Virginia Covner's land for West Virginia Wetzel Grant Big Run Wiley Fork Shall Include Vest Virginia Inber and electrizontal drilling 57th Street, SE reby given by EGT Production 400 Woodcliff I	e: Code § 22-6A onic mail add may be obtain, Charleston, V : Company	-16(b), this notiress of the open	ntal well on the tract of land as UTM NAD 83 Public Road Access: Generally used farm name: ce shall include the name, ad ator and the operator's authoric retary, at the WV Department 926-0450) or by visiting www.	follows: 541541.276 4379877.751 CR1 EQT Production Company dress, telephone number ized representative. Addit of Environmental Protection dep.wv.gov/oil-and-gas/p	, and if available, itional information etion headquarters,
Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address:	Vest Virginia Covner's land for West Virginia Wetzel Grant Big Run Wiley Fork Shall Include Vest Virginia Inber and electrizontal drilling 57th Street, SE reby given by F: EQT Production	e: Code § 22-6A onic mail add may be obtain, Charleston, V : Company	-16(b), this notiress of the open	ntal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: ce shall include the name, ad ator and the operator's authoricetary, at the WV Department 926-0450) or by visiting www. Authorized Representativ Address:	follows: 541541,276 4379877.751 CR1 EQT Production Company dress, telephone number ized representative. Addit of Environmental Protection Company et John Zavatchan	, and if available, itional information etion headquarters, pages/default.aspx.
Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to v facsimile nur related to hor located at 600 Notice is he Well Operato Address: Telephone:	Vest Virginia Covner's land for West Virginia Wetzel Grant Big Run Wiley Fork Shall Include Vest Virginia Inber and electrizontal drilling 57th Street, SE reby given by EGT Production 400 Woodcliff I	e: Code § 22-6A onic mail add may be obtain, Charleston, V : Company	-16(b), this notiress of the open	ntal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: ce shall include the name, adator and the operator's authorizetary, at the WV Department 926-0450) or by visiting www. Authorized Representativ Address: Telephone:	follows: 541541.276 4379877.751 CR1 EQT Production Company dress, telephone number ized representative. Addit of Environmental Protection Company e: John Zavatchan 400 Woodcliff Drive	, and if available, itional information etion headquarters, pages/default.aspx.
Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to v facsimile nur related to hoo located at 600 Notice is he	Vest Virginia Covner's land for West Virginia Wetzel Grant Big Run Wiley Fork Shall Include Vest Virginia Inber and electrizontal drilling 57th Street, SE reby given by T: EQT Production 400 Woodcliff I Canonsburg, P.	e: Code § 22-6A onic mail add may be obtain Charleston, V : Company	-16(b), this notiress of the open	ntal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: ce shall include the name, ad ator and the operator's authoricetary, at the WV Department 926-0450) or by visiting www. Authorized Representativ Address:	follows: 541541.276 4379877.751 CR1 EQT Production Company dress, telephone number ized representative. Addit of Environmental Protection Company et al., and the company of the company o	, and if available, itional information etion headquarters, hages/default.aspx.

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.

BIG464 WW-6A4 Attachment

Well Pad / AST Pad / Access Road / Stockpile

- EQT Production Company
 400 Woodcliff Drive, CANONSBURG, PA 15317
- Coastal Forest Resources Co.
 PO BOX 709, BUCKHANNON, WV 26201

Access Road

- Robert and Maxine Tonkery
 33 TONKERY DR., FAIRMONT, WV 26554
- Paul Able Trustee ETAL
 400 DELTA RD. APT 1, AMHERST, NY 14226
- William Jack & Beverly Barr (Marlene Barr LE) /
 2124 BARR RD., SMITHFIELD, WV 26437
- Donald W. & Diana L. White
 5017 HUSKY HWY., MANNINGTON, WV 26582
- Coastal Forest Resources Co.
 PO BOX 709, BUCKHANNON, WV 26201
- Rich Rager
 4620 SIMPSON RD., GRAFTON, WV 26354
- Timothy E. Titus
 7335 WILLEY FORK RD., BURTON, WV 26562
- Timothy E. Titus ETAL
 7335 WILLEY FORK RD., BURTON, WV 26562
- Billy J. & Frances J. Higgins Irrevocable Intervivos Trust
 531 FRANKLIN TERRANCE, WASHINGTON, PA 15301

Office of Oil and Gas

JUL 0 8 2021

WW-6A5 (1/12).

Operator Well No. BIG464 11H

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

	Requirement: notice shall be provide e: 6/15/2021 Date Permi	ed no later than the filing da	te of permit:	application.	
Delivery met	hod pursuant to West Virginia Code	e § 22-6A-16(c)	4		
CERTIF	FIED MAIL	☐ HAND			
	RN RECEIPT REQUESTED	DELIVERY			
return receipt the planned o required to be drilling of a h damages to the	V. Va. Code § 22-6A-16(c), no later requested or hand delivery, give the superation. The notice required by this provided by subsection (b), section to norizontal well; and (3) A proposed set surface affected by oil and gas operates required by this section shall be given	surface owner whose land w is subsection shall include: en of this article to a surface surface use and compensati ations to the extent the dama	vill be used fo (1) A copy cowner whose on agreement ages are comp	or the drilling of of this code se e land will be u t containing an pensable under a	a horizontal well notice of ction; (2) The information sed in conjunction with the offer of compensation for article six-b of this chapter.
Notice is here	eby provided to the SURFACE OW	NER(s)			
(at the address	s listed in the records of the sheriff at				
Marria FOT Por	duction Company	Name:			
		Address:			
Address: 400 V		Address.			
Address: 400 V Canonsburg, PA 1	eby given:				
Address: 400 V Canonsburg, PA 1 Notice is here Pursuant to W operation on State:	15317	ice is hereby given that the			
Address: 400 W Canonsburg, PA 1 Notice is here Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia	ice is hereby given that the ose of drilling a horizontal w	vell on the tra- Easting: Northing:	ct of land as fol 541541.276	
Address: 400 V Canonsburg, PA 1 Notice is here Pursuant to W operation on State: County: District: Quadrangle:	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Wetzel	ice is hereby given that the ose of drilling a horizontal w	vell on the trac Easting: Northing: cess:	ct of land as fol 541541.276 4379877.751	lows:
Address: 400 W Canonsburg, PA 1 Notice is here Pursuant to W	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Wetzel Grant	ice is hereby given that the ose of drilling a horizontal w UTM NAD 83 Public Road Ac	vell on the trac Easting: Northing: cess:	ct of land as fol 541541.276 4379877.751 CR1	lows:
Address: 400 W Canonsburg, PA 1 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Wetzel Grant Big Rum Wiley Fork Shall Include: /est Virginia Code § 22-6A-16(c), this d by W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use and ed by oil and gas operations to the eleted to horizontal drilling may be located at 601 57th Street, SE, Co	ice is hereby given that the ose of drilling a horizontal was UTM NAD 83 Public Road Ac Generally used a surface owner whose lad compensation agreement extent the damages are comobtained from the Secretary	vell on the trace Easting: Northing: Northing: cess: farm name: copy of this cand will be underentable und y, at the WV	ct of land as fol 541541.276 4379877.751 CR1 EQT Production Co code section; (2 used in conjunct offer of competer article six-b Department of	The information required ation with the drilling of a ensation for damages to the of this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-
Address: 400 W Canonsburg, PA 1 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters, gas/pages/defi	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Wetzel Grant Big Rum Wiley Fork Shall Include: /est Virginia Code § 22-6A-16(c), this ed by W. Va. Code § 22-6A-10(b) to ed by oil and gas operations to the elated to horizontal drilling may be clocated at 601 57th Street, SE, Coault.aspx.	UTM NAD 83 Public Road Ac Generally used s notice shall include: (1)A a surface owner whose lad compensation agreement extent the damages are compobtained from the Secretary Charleston, WV 25304 (30)	vell on the trace Easting: Northing: Northing: cess: farm name: copy of this cand will be und will be und	ct of land as fol 541541.276 4379877.751 CR1 EQT Production Co code section; (2 used in conjunct offer of competer article six-b Department of	The information required ation with the drilling of a constitution for damages to the of this chapter. Additional and Environmental Protection www.dep.wv.gov/oil-and-
Address: 400 W Canonsburg, PA 1 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters, gas/pages/defi	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Wetzel Grant Big Rum Wiley Fork Shall Include: /est Virginia Code § 22-6A-16(c), thir ed by W. Va. Code § 22-6A-10(b) to edit; and (3) A proposed surface use and ed by oil and gas operations to the e elated to horizontal drilling may be elated at 601 57th Street, SE, Co ault.aspx. r: EQT Production Company	ice is hereby given that the ose of drilling a horizontal water and the ose of drilling a horizontal water and the ose of drilling a horizontal water and the ose of	vell on the tran Easting: Northing: Northing: cess: farm name: copy of this cand will be underested und y, at the WV 04-926-0450)	ct of land as fol 541541.276 4379877.751 CR1 EQT Production Co code section; (2 used in conjunct offer of competer article six-b Department of or by visiting	The information required ation with the drilling of a ensation for damages to the of this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-
Address: 400 W Canonsburg, PA 1 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters, gas/pages/defi	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpo West Virginia Wetzel Grant Big Rum Wiley Fork Shall Include: /est Virginia Code § 22-6A-16(c), this ed by W. Va. Code § 22-6A-10(b) to ed by oil and gas operations to the elated to horizontal drilling may be clocated at 601 57th Street, SE, Coault.aspx.	ice is hereby given that the ose of drilling a horizontal water and the ose of drilling a horizontal water and the ose of drilling a horizontal water and the ose of	vell on the tran Easting: Northing: Northing: cess: farm name: copy of this of and will be of containing an appensable und y, at the WV 04-926-0450) Woodcliff Drive anonsburg, PA 153	ct of land as fol 541541.276 4379877.751 CR1 EQT Production Co code section; (2 used in conjunct offer of competer article six-b Department of or by visiting	The information required ation with the drilling of a constitution for damages to the of this chapter. Additional and Environmental Protection www.dep.wv.gov/oil-and-

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

June 2, 2021

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 464 Pad, Wetzel County BIG 464 11H Well Site

Dear Mr. Martin,

Byrd E. White, III

Secretary of Transportation/

Commissioner of Highways

This well site will be accessed from a DOH permit #06-2018-0403 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 15/4 SLS at MP 1.13.

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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Becky Shrum

EQT Production Company

CH, OM, D-6

File

Environmental Protestion

Anticipated Frac Additives Chemical Names and CAS Numbers

<u>Material</u>	Ingredient	CAS Number
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	Citric Acid	77-92-9
Corrosion Inhibitor	Methanol	67-56-1
	pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2
	Nonoxynol-9	127087-87-0
	2-ethyl-1-hexanol	104-76-7
	4-nonylphenyl, ethoxylated	26027-38-3



BIG 464 WELL PAD FINAL SITE DESIGN

AS-BUILT COVER SHEET/LOCATION MAPS

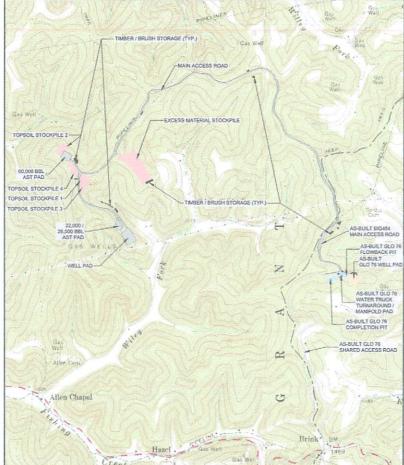




	David - 1 mms		
FLOODPLAIN	V CONE	DITIONS	3
DO SITE CONSTRUCTON ACTIVITIE	S TAKE PLACE IN	FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FL	OODPLAIN COOF	RDPIATOR:	NO
HEC-RAS STUDY COMPLETED:			NO
FLOODPLAIN SHOWN ON DRAWING	S:		NO
FIRM MAP NUMBER(S) FOR SITE:	54049C0065D	- 54103C0250C - 5	4103C0225C
ACREAGES OF CONSTRUCTION IN	FLOODPLAIN:	N.A.	

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!







West Virginia Coordinate System of 1983 State Plane Grid North Elevations NAVD88 Established By Survey Grade GPS



AS-BUILT WELL LEGEND 4 1H- LAT: 39.567764 / LONG: -80.516525 BIG464 1H-BIG464 3H-LAT: 39.567730 / LONG: -80.516495 RIG464 5H-LAT: 39 567695 / LONG: -80 516466 LAT: 39.567661 / LONG: -80.516436 BIG464 9H-LAT: 39.567627 / LONG: +80.516406 LAT: 39.567593 / LONG: -80.516376 BIG464 11H-BIG464 113H- LAT: 39.567559 / LONG: -80.516347 47-103-03211- LAT: 39.567588 / LONG: -80.516462 47-103-03212- LAT: 39.567536 / LONG: -80.516434 47-103-03213- LAT: 39.567552 / LONG: -80.516537 47-103-03214- LAT: 39.567520 / LONG: -80.516510 47-103-03215- LAT: 39.567488 / LONG: -80.516482

SHEET INDEX

COVER SHEET / LOCATION MAP AS-BUILT SITE PLAN_____ ACCESS ROAD PROFILES___

ASBUILT MA	ATERIAL QUANTITIES		
ITEM DESCRIPTION	DESIGN QTY	UNIT	ASBUILT QTY
Clearing and Grubbing	125.43	AC.	125.79
12" Silt Sox	0	LF	2,584
Z4" Sift Sox	19,821	LF	25,470
12" Dia. HDPE Culvert/ Pipe	0	U	73
15" Dta. HDPE Culvert/ Pipe	643	1,5	1,075
16" Dta. HDPE Culvert/ Pipe	342	1,F	560
24" Dia. HDPE Culvert/ Pipe	912	U	1,216
30° Dia. HDPE Culvert/ Pipe	315	LF	334
35" Dia. HDPE Culvert/ Pipe	0	LF	175
Erosion Control Matting	139,442	SY	0
Straw Wattle	21,816	LF	19,177
Sift Fence	0	LF	790
Super Silt Fence	358	LF	522
Toe Key Drain Pipe	24,479	LF	25,782
Toe Key Outlet Pipe	7,320	LF	13,275



BIG 464 SITE NAD		
	LATITUDE	LONGITUDE
Center of Weil Ped	39.567675	-60.516616
Center of 60,000 BBL AST Paul	39,575120	-90.524345
enter of 22,000/26,000 BBL AST Pad	39.566599	-80.517732
Sta 0+00 Main Access	39.564622	-80.491230
Sta. 0+00 60,000 AST Access	39.573440	-60.522526
Dis : 0+00-22,000/26,000 AST Access	39.509724	-80.518191

	DESIGN GRADING VOLUMES			AS-BUILT GRADING VOLUM		LUMES
DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)	CUT (CY)	FILL (CY)	NET (CY
MAIN ACCESS ROAD	56,384	213,381	-156,997	140,359	249,482	-109,12
WELL PAD	258,756	12,463	246,293	236,590	10,906	225,684
50,000 BBL ABOVEGROUND STORAGE TANK (AST) PAD	14,230	21,301	-7,071	13,460	21,332	-7,872
22,000/26,000 BBL ABOVEGROUND STORAGE TANK (AST) PAD	54,516	2,133	52,383	54,755	2,602	52,153
22,000/26,000 BBL. AST ACCESS ROAD	11,788	133	11,655	9,490	19	9,471
60,000 BBL AST ACCESS ROAD	0	2,594	-2,594	0	2,976	-2,976
EXCESS MATERIAL STOCKPILE	0	143,669	-143,669	0	201,335	-201,335
TOPSOIL STOCKPILES	62,915	0	62,915	62,939	0	62,939
TOTAL	458,589	395,674	62,915	517,593	488,652	28,941

As-Built Certification

These drawings have been prepared high density 3D scan data provided by Allegheny Surveys, Inc, on 6.6.18 and reflect the locations and as-built conditions known to exist following constituction of this alto, to the best of my knowledge.

DATE	REVISIONS	Date: 06/14/2018 Scale: N.A.	
10/2/2018	ADDED AS-BUILT WELL API NUMBERS		
5/11/2021	CHANGED AS-BUILT AST SIZE	Doolgrad By: TRC	
5/20/2021	UPDATED TOP HOLES	File No. 1960	POLICE TOLING
		Page 1 of	127









THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

UILT COVER SHEET/LOCATION MAP BIG 464 WELL PAD SITE

