

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 5H

47-103-03433-00-00

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.

James A. Martin

Operator's Well Number: BIG464 5H

Farm Name: EQT PRODUCTION COMPAN

U.S. WELL NUMBER: 47-103-03433-00-00

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

API Number:	
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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 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 - 03433	
OPERATOR WELL NO. 5H	
Well Pad Name: BIG464	

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

1) Well Opera	tor: EQT F	Production C	ompaný	306686	Wetzel C	Grant <	Big Run
		/		Operator ID	County	District	Quadrangle
2) Operator's '	Well Numbe	er: 5H		Well P	ad Name: BIG4	164	
3) Farm Name	/Surface Ow	ner: EQT Pro	duction Co	mpany Public Ro	oad Access: CR	1	
4) Elevation, c	urrent grour	nd: 1246.8°	(built) El	levation, propose	d post-construct	ion: 1246.	8' (built)
5) Well Type	(a) Gas Other	X	Oil _	Un	derground Stora	ge	
	(b)If Gas	Shallow	X	Deep			
		Horizontal	X				
6) Existing Pa	d: Yes or No	Yes			-		
	arget Forma ',399', 51', 2,		(s), Antic	ipated Thickness	and Expected I	ressure(s):	!
8) Proposed To	otal Vertical	Depth: 739	9' (
9) Formation a			Marcellus	51			
10) Proposed	Гotal Measu	red Depth:	9390' /				
11) Proposed I	Horizontal L	eg Length:	1412'				
12) Approxim	ate Fresh W	ater Strata De	pths:	109', 184', 432	11		
13) Method to	Determine l	Fresh Water I	Depths:	Offset Wells - 47	-103-30593, 47	-103-30910	
14) Approxim	ate Saltwate	r Depths: 17	24', 1848	Y-			RECEIVED
15) Approxim	ate Coal Sea	m Depths: 5	56'-559',	795'-797', 897'-	899', 912'-919'	-	Office of Oil and
16) Approxim	ate Depth to	Possible Voi	d (coal m	ine, karst, other):	N/A		JUL 0 8 202
17) Does Prop	anad wall la	antinu aantaiv	r acal ass				Environmental Prote
directly overly				Yes	No	X	
(a) If Yes, pr	ovide Mine	Info: Name	:				
		Depth	:				
		Seam:					
		Owne	r:				

API NO. 47- 103 - 03433

OPERATOR WELL NO. 5H 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	9390	9390	500' above intermediate casing
Tubing							
Liners							

Buja 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							

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PACKERS

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

WW-6B	
(10/14)	

API NO. 47- 103 - 03433 OPERATOR WELL NO. 5H 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,

Anti-Settling/Suspension Agent

<u>IIII. 0.8 202</u>1

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25) Proposed borehole conditioning procedures:

WV Department of

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at

Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

^{*}Note: Attach additional sheets as needed.



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 1 (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.

Come

Environmental Resources Specialist / Permitting

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Promoting a healthy environment.



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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

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 casing 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.

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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

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> > JUL 0 8 2021

WV Department of Environmental Protection

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Herizontal Well BIG464 S-000124

Drilling Objectives: County:

Quad:

Elevation:

Big Injun

Benson

Alexander

Marcellus Wetzel

Wetzel Big Run

1259 KB

2322

1246 GL

TVD: 7399

Recommended LP to TD: #N/A

IN/A

Recommended Azimuth

#N/A Degrees

Proposed Logging Suite: Pilot Logging Not needed

ESTIMATED FORMATION TOPS From pilots on BIG57 and BIG182 Top RR Base RR Formation Fresh Water Zone Top (TVD) Base (TVD) Lithology Comments FW @ 109,184,432 432 Waynesburg Coal 556 559 Coal 76 80 795 797 Coal No known past/present/and or future mining within the area 96 114 Coal Sewickley Coal 897 899 Coal 125 132 Base of Red Pittsburgh Coal 912 919 Coal SW @ 1724,1848. 1792 1971 Sandstone Maxton 2234 2310 Limestone Big Lime

Int. ese pt 2441 Weir 2520 2670 Sandstone 2735 Top Devonian 2735 Gantz 2771 Silty Sand Fifty foot 2876 2932 Silty Sand Storage is NOT of concern Thirty foot 2971 2998 Silty Sand

5286 Silty Sand

5718 Silty Sand

2391 Sandstone

3027 3072 Silty Sand Gordon Forth Sand 3097 3110 Silty Sand Fifth Sand 3169 3188 Silty Sand 3222 3240 Silty Sand Bayard Warren 3645 3669 Silty Sand Speechley 3765 3813 Silty Sand Balltown A 4123 4138 Silty Sand Riley 4608 4650 Silty Sand

 Elks
 5718
 6917 Gray Shales and Silts

 Sonyea
 6917
 7080 Gray shale

 Middlesex
 7080
 7136 Shale

 Genesee
 7136
 7223 Gray shale interbedded

 Geneseo
 7223
 7255 Black Shale

 Tolly
 7255
 7280 Limestone

5237

5651

7429

 Tully
 7255
 7280
 Limestone

 Hamilton
 7280
 7378
 Gray shale with some

 Marcellus
 7378
 7429
 Black Shale

 Pureell
 7393
 736
 Limestone

 Jatieral Zone
 7399
 7413
 Limestone

 Cherry Valley
 7409
 7413
 Limestone

7378 Gray shale with some
7429 Black Shale
7396 Limestone
7413 Limestone
Limestone
Timestone
Tim

Base of Offset Well Perforations at 3129' TVD

Target Thickness 51 feet
Max Anticipated Rock Pressure 2620 PSI

WV Department of Environmental Protection

Comments:

Onondaga

Intermediate casing point is recommended beneath the Big Injun to 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 wellbore.

Mapview - TD: DO NOT EXTEND beyond recommended wellbore to avoid leaseline.

RECOMMENDED CASING POINTS

Fresh Water/Coal CSG OD 13 3/8 CSG DEPTH 1019 Beneath Pittsburgh Coal Intermediate 1: CSG OD 9 5/8 CSG DEPTH 2441 Beneath the Big Injun formation 5 1/2 9390' Production: CSGOD CSG DEPTH m TD



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 5H

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.

Office of Oil and Gas

JUL 08 2021

W Department of Environmental Protection

Wellbore Diagram EQT Production County: Wetzel **BIG 464 5H** Well: State: Pad: **BIG 464** 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 Intermediate 2,441' 9-5/8", 36#, J-55, cement to surface w/ Class A/Type I RECEIVED Office of Oil and Gas JUL 08 2021 WV Department of Environmental Protection 9,390' MD / 7,399' TVD / **Production** @ 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H Formation: Marcellus

08/03/2025CALE

API Number 47 -	103	-	03433
Operator's	Well No.	В	IG464 5H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 16) Wiley Fork Do you articipate using more than 5.000 bible of water to complete the proposed well work? Yes No Will a pit be used? Yes No If so, please describe anticipated pit wase: N/A Will a synthetic liner be used in the pit? Yes No If so, please describe anticipated pit wase: Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037 Reuse (at API Number vances Other (Explain) Other (Explain) Will closed loop system be used? If so, describe: Yes no graped for temperature to a dialogy, how the dialogy have the dialogy from the	Operator Name EQT Production Company	OP Code 306686	
Do you articipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No		Ouadrangle Big Run	
Will a pit be used? Yes No V If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A Proposed Disposal Method For Treated Pit Wastes: Land Application Underground injection (UIC Permit Number 0014-8462-4037) Reuse (at API Number Yeses) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain) Will closed loop system be used? If so, describe: Yes The closed loop system be used? If so, describe: Yes The closed loop system be used? If so, describe: Yes The closed loop system be used? If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe: Yes The closed loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, describe so the loop system be used. If so, de			✓ No
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 Underground injection (UIC Permit Number 0014, 8462, 4037 Reuse (at API Number Viness Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Visit closed loop system be used? If so, describe: Yes, The closed loop system will remove dell cattery, from the defling that. The dell catterys are being the manufacture of the property of the provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information is businessed and the permit are enforceable by law. Violations of any term or condition of the general permit and/or applicable law or regulation form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information. Company Official Signature UND Described and sworn before me this. Authority Public Company Public Base	Will a pit be used? Yes No ✓		
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 0014, 8462, 4637 Reuse (at API Number vanues Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Will closed loop system be used? If so, describe: "ren prepared for transportation to an aff-aire disposal facility." Prilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached If oil based, what type? Synthetic, petroleum, etc. Synthesic Maul Additives to be used in drilling medium? See Attached Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill If left in pit and plan to solidify what medium will be used? (cement, lime, sawdast) N/A Landfill or offsite name/permit number? See Attached List Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and flat, based on my inquiry of those individuals immediately responsible for obtaining the information, is their enformation, is time, accurate, and complete. I am aware that there ago, similaring the penaltylands in th	If so, please describe anticipated pit waste: N/A		
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Underground Injection (UIC Permit Number 0014.8462,4037 Reuse (at APP Number younge) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain) Yes, the closed loop system be used? If so, describe: "two prepared for trumporation to an affecte disposal facility." Jorilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud Additives to be used in drilling medium? See Attached Jrill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? See Attached List Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments therefore 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 obtained and penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Tyted Name John Zayachan Company Official Tyted Name John Zayachan Compa	Proposed Disposal Method For Treated Pit Wastes:		
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Subscribed and sworn before me this Hh day of June , 20 ZI Notary Public Commonwealth of Pennsylvania - Notary Sea Rebecca Shrum, Notary Public Beaver County My commission expires Mand 9, 2029 My commission expires Mand 9, 2029 My commission number 1267706	on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally eapplication form and all attachments thereto and that, based obtaining the information, I believe that the information is true penalties for submitting false information including the possibility.	ginia Department of Environmental P any term or condition of the general examined and am familiar with the on my inquiry of those individual te, accurate, and complete. I am a	information submitted on this immediately responsible for ware that there are significant.
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My commission expires Mana 9, 2029 Notary Public Commonwealth of Pennsylvania - Notary Sea Rebacca Shrum, Notary Public Beaver County My commission expires Mana 9, 2024 My commission number 1267706			Environnessant
My commission expires Marcl 9, 2029 My commission expires My commission property burch 9, 2024 Commission number 1267706	Subscribed and sworn before me this Hh day of	Tune , 20 21	
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Commission admission	My commission expires Mara 9, 2024		Beaver County
THE OTHER PROPERTY OF THE PARTY			Commission number 1267706

		EQT Production Water Plan Offsite Disposals for Unconventional Wells								
acility Name	Address	Address 2	City	State	Zin	Phone	County	State	Permit Number	
	P.O. Box 391	7,00,035 2	Williamstown	WV	26187	740-516-3586		ОН	3390	
.ws Hucking Inc.	P.O. BOX 391		vviiiaiiistowii	100	20107	740-310-3380	Hobie	1011	3330	
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740-516-5381	Washingotn	он	8462	
The state of the s				1						
AD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	wv	USEPA WV 0014	
•										
riad Energy	PO Box 430	-	Reno	он	45773	740-516-6021	Noble	ОН	4037	
						740-374-2940				
ri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009	
- <u>-</u>				<u> </u>		724-499-5647				
				ļ.,				<u> </u>		
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101		Lawrence	PA	PAR000029132	
	10. 2.0. 60.0.		9-11	<u> </u>	16333	304 335 5055	1100000	lun.	SWE 1033 RP	
Naste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	wv	16330	304-326-6027	Harrison	wv	SWF-1032-98	
		 		┼	-			<u> </u>	Approval #100785WV	
Marta Managament Marthurston Landell	E13 E Dry Board		Darkershuss	wv	26104	304-428-0602	Wood	wv	SWF-1025 WV-0109400	
Naste Management - Northwestern Landfill	512 E. Dry Road	 	Parkersburg	44.4	20104	304-428-0002	*******	-	2441-1052 44 A-0102400	
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	он	43903	740-543-4389	lefferson	ОН	06-08438	
TEX Landing	TI County Nozu 75	110 80% 37	Amsterdam	10	13303	740 343 4303	Jenerson -	0		
Advanced Disposal - Chestnut Valley Landfill	1184 McCleliandtown Road		McClellandtown	PA	15458	724-437-7336	Favette	PA	100419	
ordinate valley and valley				1	-					
Westmoreland Sanitary Landfill	901 Tyrol Boulevard	-	Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277	
	,									
Austin Master Services	801 North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Belmont	ОН	2014-541	
				1						
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511	
Diversified Resources	3111 Braun Rd.		Belpre	Он	45714	740-401-0413	Washington	ОН		
				<u> </u>						
				!		740-610-1512			34-031-27177	
			Coshocton	ОН	43812	724-591-4393	l	ОН	34-031-27178	
Buckeye Brine	23986 Airport Road	ļ		 	 		Coshocton		34-031-27241	
	-	<u> </u>		 				011		
Central Environmental Services	28333 West Belpre Pike	_	Coolville	ОН	45723	304-488-0701	Atnens	он	 	
Numara Allahala	10555 Vote Bend	<u> </u>	Roince	lou.	AE714	220.222 5041	Washington	ОН	34-119-2-8776	
Nuverra - Nichols	10555 Veto Road		Belpre	ОН	45714	330-232-5041	AA921111BEOU	Un	34-113-7-01/0	
Nuvarra - Goff	9350 East Pike Road		Norwich	он	43767	330-232-5041	Muskingum	ОН	34-167-2-3862	
Nuverra - Goff	3330 East FIRE RODO	 	NO WICH	1011	73/0/	330-232-3041	in i	 	3. 20, 2 3002	
Nuverra - Wolf	5480 State Route 5	 	Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893	
104CH 8 - 44OH	Jaco State Route S			1	1	333 232 3042			1	
Nuverra - Pander	5310 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-3795	
			1	T	t	1		<u> </u>	7	
Nuverra - AnnaRock D-1	3549 Warner Road	1	Fowler	ОН	44418	330-232-5041	Trumbull	ОН	34-155-2-2403 O ZOZI	
			1					T	"mental Protection	

					740-374-2940	<u> </u>		T
		Reno	ОН	45773	412-443-4397		он	
FQ Helen	199 Bowersock Road				740-236-2135	Washington		34-167-2-9577
				<u> </u>				
				1	740-374-2940	j		
		Dexter City	ОН	45727	412-443-4397		он	34-121-24037
FQ Dexter	38505 Marietta Rd.				740-236-2135	Noble		34-121-24086
				<u> </u>	ļ			
				1	740-374-2940			
		Ellenboro	wv	26346	412-443-4397		wv	
FQ Ritchie	122 Lonesome Pine Rd			 	740-236-2135	Ritchie	ļ	47-085-09721
_				<u> </u>			-	24.405.2.2040
				i	740-374-2940		l.	34-105-2-3619
		Portland	ОН	45770	412-443-4397		ОН	34-105-2-3652
TO 5 4"	52540 70 0 1 705				740-236-2135			34-105-2-3637 34-105-2-3651
FQ Mills	53610 TS Rd 706			 		Meigs		34-103-2-3031
			+	 	 		+	
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	wv	
					1			
Deep Rock Disposal	2341 OH-821	Marietta	ОН	45750	304-629-0176	Washington	ОН	34-167-2-9766



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.

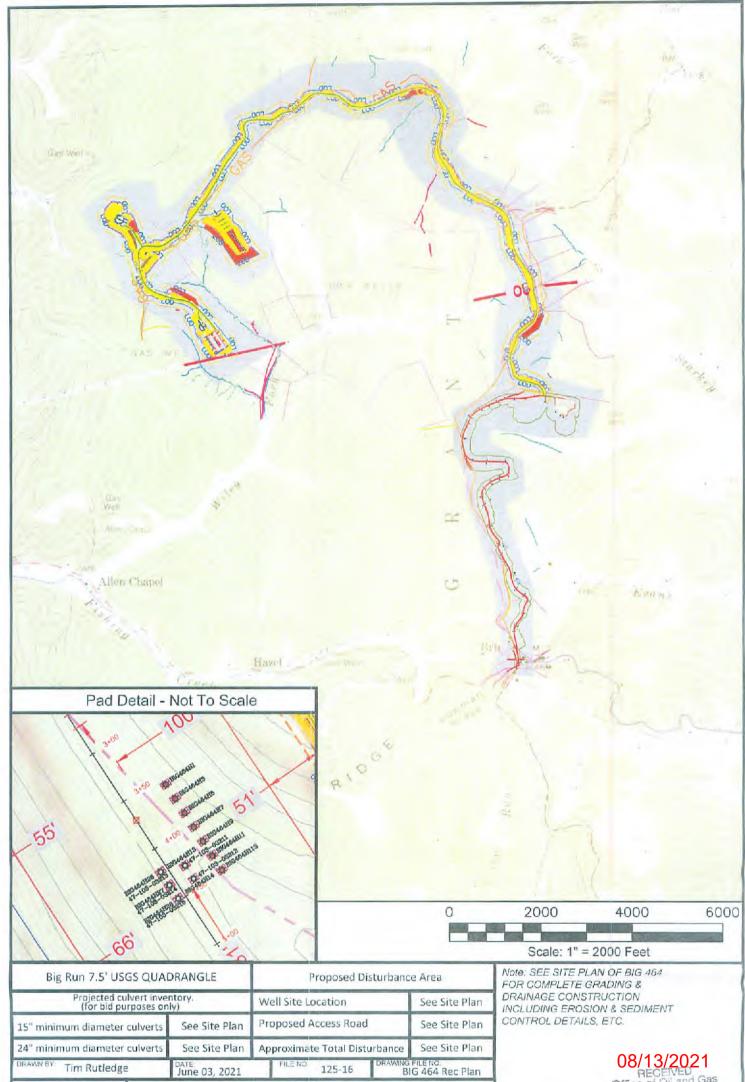
RECEIVED
Office of Oil and Gas

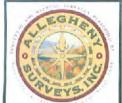
JUL 08 2021

WV Department of Environmental Protection Form WW-9

rom ww-9		Operator's W	ell No. BIG464 5H
EQT Production Co	ompany		
Proposed Revegetation Trea	tment: Acres Disturbed	Prevegetation pl	
Lime 3	Tons/acre or to correct to	_{pH} 6.5	
Fertilizer type Gra	anular 10-20-20	_	
Fertilizer amount_	500	_lbs/acre	
Mulch2	Tor	ns/acre	
	<u>s</u>	eed Mixtures	
T	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		
	lved 7.5' topographic sheet.		
Plan Approved by:	ya Hun		
		areas as soon as reason	
per regulation. U	pgrade E&S as nece	essary per WV DEP E&S	Manual.
			RECEIVED Office of Oil and G
			un / Donardment
			Environmental Prote
Title: Inspecto) K	Date: 6-//-21	
•) Yes (∕) No	
Field Reviewed?		∕) No	

PAGE 1 OF 1





Tim Rutledge

SURVEYING AND MAPPING SERVICES PERFORMED BY:

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

125-16

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

June 03, 2021

237 Birch River Road P.O. Box 438 Birch River, WV 26610

08/13/2021 RECEIVED Office of Oil and Gas

JUL 08 2021

WV Para at 1

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG464

County: Wetzel

June 14, 2021

Office of Oil and Gas

JUL 08 2021

WV Department of Environmental Protection

Page 1 of 2

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:

- 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
- Inspect or install master valves or other necessary equipment for wellhead integrity capable 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

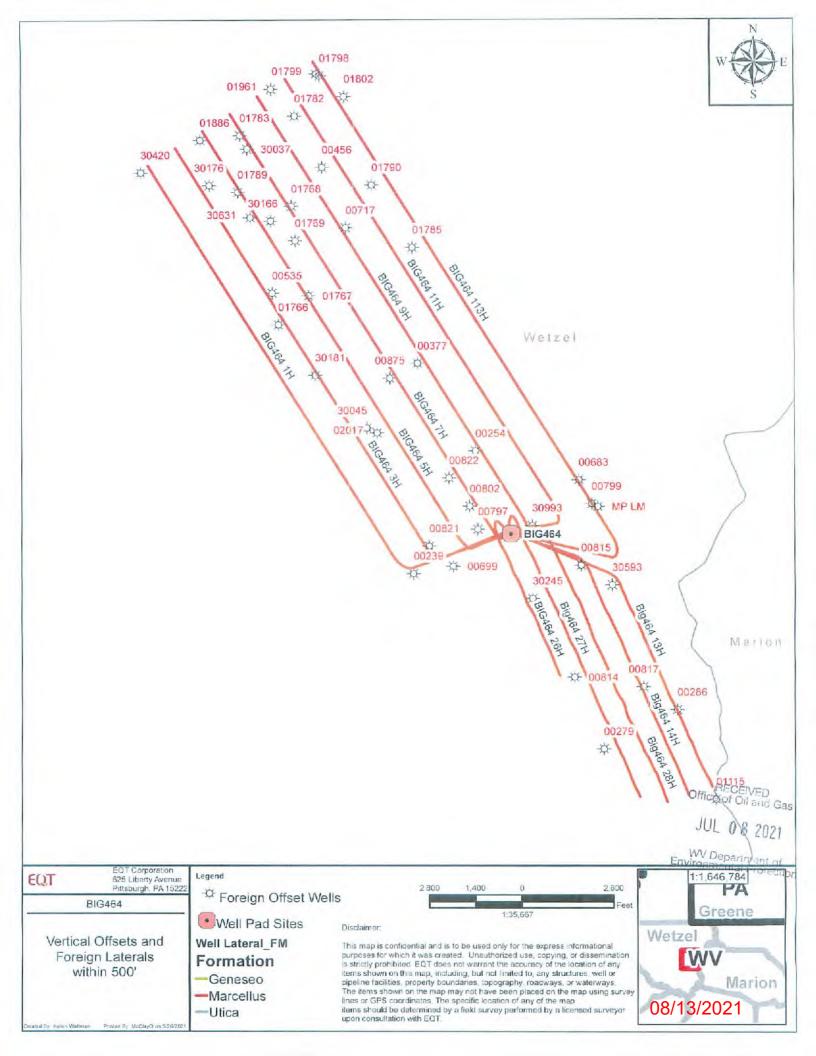
2. Reporting

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.

Office of Oil article Gas

JUL 08 2021

Page Wof 2 Dadment of Profession



WeltiD	WellStatus	date	FmatTD	Permit	Operator	Longitude Latitude	Targetí m			Total Depth
4710300239	GAS	9/19/1940		00239	EPC	-80.5270	39.5641	1410.0000	-2016.0000	3426.0000
4710300254	GAS	9/27/1941		00254	EPC	-80.5202	39.5744	1464.0000	-1985.0000	3449.0000
4710300279	GAS-P	7/21/1942		00279	EPC	-80.5066	39.5492	1100.0000	-964.0000	2064 0000
4710300286	GAS-P	3/25/1943		00286	CARNEGIE NAT GAS	-80.4986	39.5525	1170.0000	-1896.0000	3066,0000
4710300377	DSA			00377	EAGON & ROBINSON	-80.5264	39.5818	1035 0000	-2162.0000	3197.0000
4710300456	GAS	3/30/1958		00456	W D BROOKOVER	-80.5366	39.5984	1295.0000	-1211.0000	2505.0000
4710300535	STORAGE	1/2/1963		00535	EPC	-80.5421	39.5878	1008.0000	-2049.0000	3057.0000
4710300683	GAS-P	9/2/1929		00683	CNG	-80.5091	39.5719	1015.0000	-1936.0000	2951.0000
4710300699	GAS	8/9/1922		00699	EPC	-80.5227	39.5647	0.0000	-3154.0000	3154.0000 1926.0000
4710300717	GAS	10/2/1919		00717	EPC	-80.5341	39.5933	0.0000	-1925.0000 -99999.0000	99999.0000
4710300797	GAS-P			00797	EPC	-80.5200	39.5678	0.000	-2987.0000	2987.0000
4710300799	GAS	12/19/1910		00799	EPC	-80.5077	39.5699	0.000	-2343.0000	2343.0000
4710300802	GAS			00802	EPC EPC	-80.5208	39.5697 39.5553	1340,0000	-1851.0000	3191.0000
4710300814 4710300815	GAS GAS			00314	EPC EPC	-80.5097 -80,5039	39.5647	0.0000	-3118.0000	3118.0000
4710300817	GAS-P			00815 00817	EPC	-80.5022	39.5544	1520,0000	-2053.0000	3573.0000
4710300317	GAS-P			00821	EPC EPC	-80.5253	39.5664	0.0000	-1883.0000	1883,0000
4710300322	GAS	8/30/1929		00822	EPC .	-80.5231	39.5721	0.000	-1954.0000	1954.0000
4710300375	GAS	12/15/1922		00875	EPC EPC	-80.5294	39.5806	0.0000	-99999.0000	99999.0000
4710301115	Oil	4/29/1899		01115	PENNZOIL	-80.4945	39.5449	1500,0000	·1132.0000	2632,0000
4710301766	GAS	11/6/1998		01766	DAC	-80.5415	39.5851	871.0000	-1431.0000	2302,0000
4710301767	GAS	10/30/1998		01767	DAC	-80.5882	39.5876	2000.868	-2396,0000	3264.000Q
4710301768	GAS	10/25/1998		01768	DAC	-80.5400	39.5951	1285.0000	-2394.0000	3679.0000
4710301769	GAS	10/19/1998		01769	DAC	-80,5396	39.5922	1326 0000	-2366,0000	3692,0000
4710301782	GAS	8/19/1999		01782	DAC	-80.5395	39.6027	1424,0000	-2399.0000	3823.0000
4710301783	GAS	8/26/1999		01783	DAC	-80.5455	39.6011	1376,0000	-7179.0000	3555.0000
4710301785	GAS	8/13/1999		01785	DAC	-80.5269	39.5916	1186.0000	-2368.0000	3554 0000
4710301789	GAS	9/2/1999		01789	DAC	-80.5457	39.5964	1420 0000	-2164.0000	3584.0000
4710301790	GAS	9/17/1999		01790	DAC	-80.5312	39.5969	904,0000	-2222.0000	3125.0000
4710301798	P&A	12/12/1999		01798	DAC	-80.5368	39.6061	1525.0000	-798.0000	2323.0000
4710301799	GAS	12/23/1999		01799	DAC	-80.5372	39.6063	1525.0000	-2092.0000	3617,0000
4710301802	GAS	6/12/2000		01802	DAC	-80.5342	39.6043	1401 0000	-2193.0000	3594.0000
4710301886	GAS	10/3/2002		01886	EXCEL ENERGY	-80.5498	39.6007	981.0000	-2329.0000	3310.0000
4710301961	0&6	9/21/2003		01961	EXCEL ENERGY	-80.5421	39.6050	1380.0000	-2316.0000	3696.0000
4710302017	CSM	4/28/2004		02017	DYNATEC ENERGY	-80.5309	39.5760	948,0000	237.0000	711.0000
4710330037	GAS	5/22/1920		30037	PGH & WV GAS	-80.5447	39.6000	269.0000	-1097.0000	1966.0000
4710330045	GAS			30045	HOPE NAT GAS	-80.5319	39.5764	1725.0000	-421.0000	2145.0000
4710330166	GAS			30166	HOPE NAT GAS	-80.5422	39.5939	1012.0000	-1203.0000	2215.0000
4710330176	GAS	8/18/1922		30176	PGH & WV GAS	-80.5489	39.5969	1078.0000	-2057.0000	3135.0000
4710330181	GAS	9/29/1923		30181	PGH & WV GAS	-80.5375	39.5803	906,0000	-2030.0000	2936.0000
4710330245	GAS	3/24/1903		30745	CARNEGIE NAT GAS	-80.5142	39.5619	1040.0000	-1868.0000	2903.0000
4710330420	OIL		LOWER HURON SHALE	30420	OPER IN MIN.OWN	-80.5564	39.5981	1310.0000	-1916 0000	3226.0000
4710330593	GA5	2/16/1921		30593	CARNEGIE NAT GAS	-80.5055	39.5631	1527.0000	-360.0000	1887.0000
4710330631	GAS	4/27/1916		30631	HOPE NAT GAS	-80.5444	39.5942	1356.0000	-1938.0000	3294.0000
4710330993	GAS	7/19/1911		30993	CARNEGIE NAT GAS	-80.5142	39.5680	1131.0000	-1873.0000	3004.0000
650531 TEMP LM	TEMP			MPLM		-80.5071	39.5696	0.0000	+99999.0000	99999.0000

Office of Oil and Gas

JUL 08 2021

WV Department of Environmental Protection



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

1" = 1000 Topo Quad: Big Run 7.5' Scale: County: Wetzel June 2, 2021 Date: Project No: 125-34-G-16 District: Grant Water **BIG 464** 3 Potential Water Sources within 2500' Site 1 CO RD 15/4 Site 2 JUL 08 202 NAD 27, North Zone LEGEND N: 390,461.51 Red Symbol - Declined Sampling E: 1,713,355.50 Blue Symbol - Requested Sampling / Unable to Contact WGS 84 Well Site 5 Spring LAT: 39.567675 Site 4 Pand Allen LONG: -80.516616 Building ELEV: 1264.00 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: **EQT Production Company** ALLEGHENY SURVEYS, INC. 1-800-482-8606 237 Birch River Road 400 Woodcliff Drive Canonsburg, PA 15317 08/13/2021 Birch River, WV 26610 PH: (304) 649-8606

FAX: (304) 649-8608



Table 1 - Water Source Identification

EQT Well Number: Survey / Engineering Company: Allegheny Surveys, Inc. Site Number: 1 Distance from Gas Well (feet): 2,335 ± Surface Owner / Occupant: Donald D'Lusky Address: PO Box 495 Farmington, WV 26571 Phone #: 304-777-9220 cell Field Located Date: 12/16/2016 Owner home during survey (yes/no): Coordinates: 39.569123, -80.508546 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 5/27/2021 2std;	☐ Landowner Requested Sampling		
Site Number: 1 Distance from Gas Well (feet): 2,335 ± Surface Owner / Occupant: Donald D'Lusky Address: PO Box 495 Farmington, WV 26571 Phone #: 304-777-9220 cell Field Located Date: 12/16/2016 Owner home during survey (yes/no): Coordinates: 39.569123, -80.508546 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 5/27/2021 2nd: Door Hanger Left: Comments: Certified letter sent May 27, 2021. Info from previous report in 2016. Po Site Number: 2 Distance from Gas Well (feet): 2,367 ± Surface Owner / Occupant: Donald D'Lusky Address: PO Box 495 Farmington, WV 26571 Phone #: 304-777-9220 cell Field Located Date: 12/16/2016 Owner home during survey (yes/no): Coordinates: 39.568746, -80.508332 (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 b made by EQT's third party pre-drill sampling lab) nd. Landowner Requested Sampling		
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Comments: Certified letter sent May 27, 2021. Info from previous report in 2016. Po Site Number: 2 Distance from Gas Well (feet): 2,367 ± Surface Owner / Occupant: Donald D'Lusky Address: PO Box 495 Farmington, WV 26571 Phone #: 304-777-9220 cell Field Located Date: 12/16/2016 Owner home during survey (yes/no): Coordinates: 39.568746, -80.508332 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 5/27/2021 2nd: Door Hanger Left:	nd. □ Landowner Requested Sampling		
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Coordinates: 39.568746, -80.508332 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 5/27/2021 2nd: Door Hanger Left:	Sampling Landowner Decline		
Contact Attempts (Date): 1st: 5/27/2021 2nd: Door Hanger Left:	Sampling Unable to Contact		
	(Further contact attempts to b made by EQT's third party		
Comments: Certified letter sent May 27, 2021, Info from previous report in 2016, Wa	pre-drill sampling lab)		
onlinents. Certifica letter sent may 21, 2021. Into from previous report in 2010.	ater well.		
Site Number: 3 Distance from Gas Well (feet): 2,060 ±			
Surface Owner / Occupant: Marlene Barr - Beverly Lynn Barr L/E	☐ Landowner Requested		
Address: 2124 Barr Rd Smithfield, WV 26437 Phone #:	Sampling Landowner Decline		
Field Located Date: 12/16/2016 Owner home during survey (yes/no):	Sampling Unable to Contact		
Coordinates: 39.563023, -80.512462 (decimal degrees - NAD 83)	(Further contact attempts to be made by EQT's third party		
Contact Attempts (Date): 1st: 5/27/2021 2nd: Door Hanger Left: Comments: Certified letter sent May 27, 2021. Previous Certified signed for by Mart 10/10/2018. Info from report in 2016.	pre-drill sampling lab)		

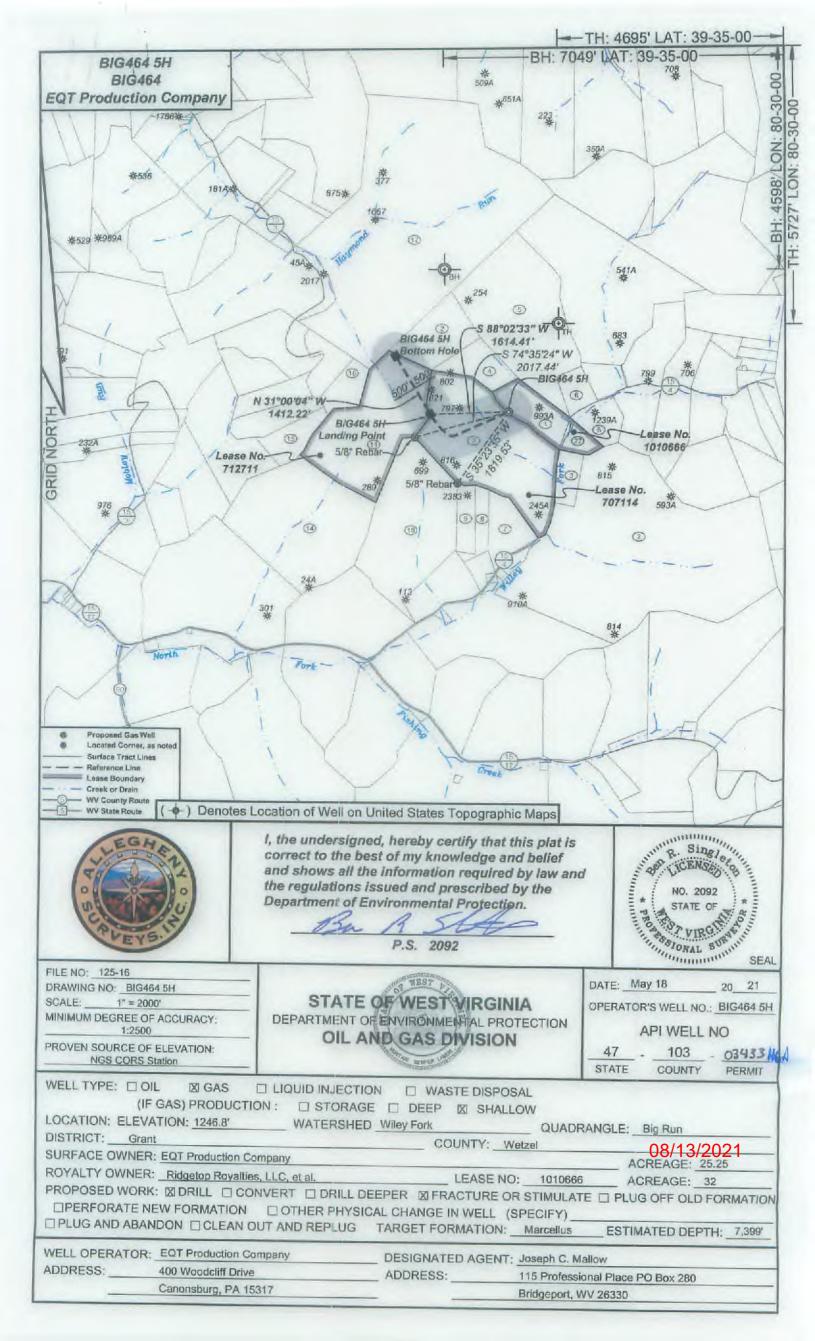
(Insert additional pages as needed)

WV Department of Environmental Protection

Site Number: 4 Distance from Gas VVeil (feet): 3044 ±	
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): Yes Coordinates: 39.559321, -80.516238 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 5/27/2021 2nd: Door Hanger Left:	□ Landowner Requested 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	loosted in 2019
Site Number: 5 Distance from Gas Well (feet): 2958 ±	
Surface Owner / Occupant: Mabel Barr	☐ Landowner Requested
Address: 722 Barr Rd. Smithfield WV 26437 Phone #: 304-386-9650	Sampling Landowner Decline
Field Located Date: 10/15/2018 Owner home during survey (yes/no):	Sampling ☐ Unable to Contact
Coordinates: 39.559605, -80.515444 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st; 5/27/2021 2nd; Door Hanger Left;	pre-drill sampling lab)

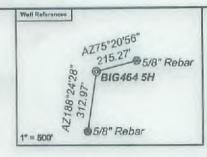
Comments: Certified letter sent May 27, 2021. Water well by Ms. Barr's son's mobile home located in 2018.





BIG464 5H BIG464 **EQT Production Company**

Trest I.O.	THE MAP NO.	Farcel No.	County	District	Surface Tract Owner	-Acres
1	-58	34	Wetzel	Grani	EOT Preduction Company	25.25
2	26	1	Wetzel	Grani	Coastal Ferest Resources Company	520.00
3	15	27	Weizel	Grant	Beverly Lynn Barr Life Eslate	10.00
4	7.4	27	Westerl	Grant.	EQT Production Company	22.00
- 15	1/1	20	Wintzel	Grant	EQT Preduction Company	126,60
18	15	in-	Wetzel	Grant	Doneld J. D'Eusky	25.00
7	14	45	Wetzel	Grant	Coastal Forest Resources Company	11.00
-X-1	16	44	Wester	Grant	Mabal F. Barr	11.00
- 10	16	45	Weter	Grant	Matiel F Barr	11.01
10	14	12	Wetzel	Grant	Donald J. D'Luaky	111.00
-11	14	33	Wetne	Grant	Affect H. & Hilds B. Cohowsy	108.00
14	14	40.	. Webs:	Grant	Donald J. D'Luxxy, Jr.	137.00
16	fai	31	Wetzel	Grant	Donald J. D'Lusky, Jr.	19,00
16	10	32	Wetzel	Grant	Mary Jane Byard	13.30
17	16	6	Wetre	Grant	Constal Forum Resources Company	332.90
27			Websi	Grant.	No Tax Map & Percel Information	



Notes:
BIG464 5H coordinates are
NAD 27 N: 390,468.48 E: 1,713,397.98
NAD 27 Lat: 39.567612 Long: -80,516655
NAD 83 UTM N: 4,379,889.08 E: 541,533.55
BIG464 5H Landing Point coordinates are
NAD 27 N: 390,413,34 E: 1,711,784.51
NAD 27 Lat: 39.567410 Long: -80,522376
NAD 83 UTM N: 4,379,864.06 E: 541,042.26
BIG464 5H Bottom Hole coordinates are
NAD 27 N: 391,623.83 E: 1,711.057.14
NAD 27 Lat: 39.570710 Long: -80,522005
NAD 83 UTM N: 4,380,229.15 E: 540,814.51
Virginia Coordinate system of 1927 (North Zone)

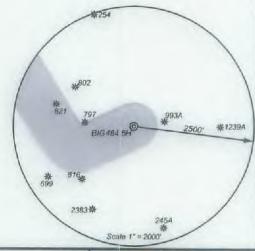
NAU 83 UTM N: 4,380,229.15 E: 590,614.51
West Virginia Coordinate system of 1927 (North Zone based upon Differential GPS Measurements.
Plat orientation, corner and well bies are based upon the grid north meridian.
Well location references are based upon the grid north

meridian. UTM coordinates are NAD83, Zone 17, Meters



Owner Ridgetop Royalties, LLC, et al Barbara Lynne Metheny, et al.

Acres 78





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

NO. 2092 NO. STATE OF VIRGINIA STATE OF VIRGINIAL SUB-SEAL

FILE NO: 125-16	AD THE PARTY OF TH
DRAWING NO: BIG464 5H	OF WEST
SCALE:1" = 2000"	STATE OF WEST VIRGINIA
MINIMUM DEGREE OF ACCURACY: 1:2500	DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION
PROVEN SOURCE OF ELEVATION: NGS CORS Station	CIL AIRD GAS DIVISION

Canonsburg, PA 15317

DATE: May 18 OPERATOR'S WELL NO .: BIG464 5H

API WELL NO 103 - 03433 47

Bridgeport, WV 26330

	-020	SIMIE	COUNT	PERMIT
WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID IN (IF GAS) PRODUCTION: ☐ ST	Control of the second s			
		JADRANGLE:	Big Run	
DISTRICT: Grant	COUNTY: Wetzel			24
SURFACE OWNER: EQT Production Company		А	08/13/202 ACREAGE: 25.2	5
ROYALTY OWNER: Ridgetop Royalties, LLC, et al.	LEASE NO: 101	Contract of the Contract of th	CREAGE: 32	
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ D ☐ PERFORATE NEW FORMATION ☐ OTHER	DRILL DEEPER STRACTURE OR STIM		JG OFF OLD FO	RMATION
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REP	PLUG TARGET FORMATION: Marce	ellus ESTI	MATED DEPTH:	7,399
WELL OPERATOR: EQT Production Company	DESIGNATED AGENT: Joseph	C. Mallow		
ADDRESS: 400 Woodcliff Drive	ADDRESS: 115 Pro	ofessional Place	PO Boy 280	

W	W.	6.A	
(5)	13)	

Operator's Well No.	BIG464 5H
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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:

21 1	0		D I	D 1/D
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

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

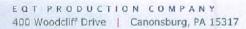
Well Operator: EQT Production Company

By: John Zavatchan

Its: Project Specialist - Permitting

Page 1 of 2

WW-6A1 attachment		achment Operator's Well No.		Big464 5H	
Lease 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>1010666</u>	Ridgetop Royalties, LLC	32 ac	EQT Production Company		OG 166A/638
	Ridgetop Royalties, LLC, et al.			"at least 1/8th per WV Code 22-6-8"	
707114	W. S. Furbee and Mary Furbee, his wife	78 ac	Carnegie Natural Gas Company	177 Oddb 22-0-0	OG 2A/182
	Carnegie Natural Gas Company		Carnegie Production Company		OG 78A/513
	Carnegie Production Company		EQT Production Company		WV SOS
	Darkara Luras Mathani, at al			*at least 1/8th per	
712711	Barbara Lynne Metheny, et al. Lee Glover and Bertha Glover, his wife	108 ac	Carnegie Natural Gas Company	WV Code 22-6-8"	OG 20A/493
	Carnegie Natural Gas Company	.00 00	Carnegie Production Company		OG 78A/513
	Carnegie Production Company		EQT Production Company		WV SOS





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: BIG4645H

Grant District, Wetzel County, WV

Dear Mr. Brewer,

EOT 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

JUL 08 2021

Environmental Protection

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

	e Certification: 4 15 7021		API No. 47-	103 - 0	3433
			Operator's	Well No. 5H	
			Well Pad Na	ime: BIG464	
Notice has					
	e provisions in West Virginia Code	§ 22-6A, the Operator has pro-	vided the requ	iired parties w	ith the Notice Forms listed
below for the State:	tract of land as follows: West Virginia		Faction	541533.546	
County:	Wetzel	UTM NAD 83		4379889.076	
District:	Grant	Public Road Acc		CR1	
Quadrangle:	Big Run	Generally used fa		EQT Production (Company
Watershed:	Wiley Fork				
prescribed by it has provid information r of giving the requirements Virginia Cod	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface description of the surface description of the surface owner notice of entry to surface owner notice of subsection (b), section sixteen on each 22-6A-11(b), the applicant shall that the been completed by the applicant shall the surface of the surface o	shall contain the following info bed in subdivisions (1), (2) a ection sixteen of this article; (i urvey pursuant to subsection of this article were waived in tender proof of and certify to t	ormation: (14) and (4), subset i) that the req (a), section to writing by the	A certification (b), security was uirement was en of this article surface ow	on from the operator that (i) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice oner; and Pursuant to West
	West Virginia Code § 22-6A, the Operator has properly served the require		his Notice Ce	rtification	Total traction
that the Ope			his Notice Ce	rtification	OOG OFFICE USE ONLY
that the Ope	rator has properly served the require	ed parties with the following:	RED BECAU	SE NO	
*PLEASE CH	rator has properly served the require	ed parties with the following: NOTICE NOT REQUISESSMIC ACTIVITY WAS	RED BECAU CONDUCT	SE NO ED	ONLY RECEIVED/
that the Ope	Trator has properly served the require ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	Ed parties with the following: NOTICE NOT REQUISESSMIC ACTIVITY WAS VEY or NO PLAT SURV	RED BECAU S CONDUCT EY WAS CO RED BECAU	SE NO ED NDUCTED SE	ONLY RECEIVED/ NOT REQUIRED
that the Ope	TATE OF ENTRY FOR PLAT SURV	Ed parties with the following: NOTICE NOT REQUISESSMIC ACTIVITY WAS VEY or NO PLAT SURV NOTICE NOT REQUISENOTICE OF ENTRY FOR	RED BECAU S CONDUCT EY WAS CO RED BECAU PLAT SURV BY SURFAC	SE NO ED NDUCTED SE EY	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
that the Ope *PLEASE CH 1. NO 2. NO 3. NO	TATE OF ENTRY FOR PLAT SURV	Ed parties with the following: NOTICE NOT REQUISESSMIC ACTIVITY WAS VEY OF NO PLAT SURV NOTICE NOT REQUISENOTICE OF ENTRY FOR WAS CONDUCTED OF	RED BECAU S CONDUCT EY WAS CO RED BECAU PLAT SURV BY SURFAC	SE NO ED NDUCTED SE EY	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
that the Ope *PLEASE CH 1. NO 2. NO 3. NO	TATES TO THE PROPERTY OF THE PROPERTY OF SEISMIC ACTIVITY OF THE OF ENTRY FOR PLAT SURVICE OF INTENT TO DRILL OF	Ed parties with the following: NOTICE NOT REQUISESSMIC ACTIVITY WAS VEY OF NO PLAT SURV NOTICE NOT REQUISENOTICE OF ENTRY FOR WAS CONDUCTED OF	RED BECAU S CONDUCT EY WAS CO RED BECAU PLAT SURV BY SURFAC	SE NO ED NDUCTED SE EY	ONLY RECEIVED/ NOT REQUIRED RECEIVED/ RECEIVED/ NOT REQUIRED

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-II(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.

JUL 08 2021

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 Zavatchan 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

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 15

Notary Public

My Commission Expires March 9, 2024

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and 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.

Office of Oil and Gas

JUL 08 2021

WV Department of Environmental Protection WW-6A (9-13) API NO. 47- /03 - 03433 OPERATOR WELL NO. 5H Well Pad Name: BIG464

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 1015 12021 Date Permit Application Filed: 7/10/2021 Notice of: CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A PERSONAL RECEIPT OR SIGNATURE CONFIRMATION SERVICE Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE M SURFACE OWNER(s) Name: See AttachedList Name: See Attached List Address: Address: COAL OPERATOR Name: Address: Name: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Altached List IN SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Address: Name: Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: RECEIVED Office of Cil and Gas Name: Address: Address: JUL 08 2021 *Please attach additional forms if necessary

> WV Department of Environmental Protection

WW-6A (8-13)

API NO. 47-103 -03433 OPERATOR WELL NO. 5H Well Pad Name: BIG464

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oik/U 0 8 202 WV Department of

Well Location Restrictions

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

WW-6A (8-13) API NO. 47-103 - 03433

OPERATOR WELL NO. 5H

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 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

RECEIVED
Office of Oil and Gas

JUL 08 2021

WV Department of 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.**

WW-6A (8-13) API NO. 47- 103 - 03433 OPERATOR WELL NO. 5H 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

WV December of Protection

API NO. 47- 103 - 03433 OPERATOR WELL NO. 5H Well Pad Name: BIG464

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 Holday of June . ZOZI

Notary Public

My Commission Expires March 9, 7024

Office of Oil and Gas

JUL 08 2021

WV Department of Environmental Protection

Topo Quad: Big Run 7.5 1" = 1000" Scale: Wetzel County: June 2, 2021 Date: District: Grant Project No: 125-34-G-16 Water **BIG 464** 3 Potential Water Sources within 2500' Site 1 CORUTAL Sité 2 JUL 08 202 NAD 27 North Zone LEGEND N: 390,461.51 Red Symbol - Declined Sampling E: 1,713,355.50 Blue Symbol - Requested Sampling / Unable to Contact WGS 84 Well Site 5 (5) Spring LAT: 39.567675 Site 4 Pond Allen LONG: -80.516616 Building ELEV: 1264.00 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 237 Birch River Road 400 Woodcliff Drive Birch River, WV 26610 Canonsburg, PA 15317 PH: (304) 649-8606 FAX: (304) 649-8608 08/13/2021

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 28582
- 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 Intervive's 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

Office of Oil and Gas

JUL 08 2021

WV Department of Environmental Protection

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at lee: 05/25/2021 Date Pern		permit application.
Delivery met	hod pursuant to West Virginia Code § 22	2-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		IESTED	
receipt reques drilling a hor of this subsec subsection ma	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: Provided. That notice given ption as of the date the notice was provided by be waived in writing by the surface own le, facsimile number and electronic mail ad	er notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided, hower</i> . The notice, if required, shall incl	the surface owner's land for the purpose of en of this article satisfies the requirements rever. That the notice requirements of this ude the name, address, telephone number,
Notice is he	reby provided to the SURFACE OW	NER(s):	
Name: See Atta		Name: See Attached	
1 14		Address:	
	reby given; Vest Virginia Code § 22-6A-16(b), notice in wner's land for the purpose of drilling a hor West Virginia	izontal well on the tract of land as fo Easting:	
Notice is he Pursuant to V the surface ov	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hor	izontal well on the tract of land as fo	ollows:
Notice is he Pursuant to V the surface ov State:	Vest Virginia Code § 22-6A-16(b), notice in wher's land for the purpose of drilling a hor West Virginia	izontal well on the tract of land as fo Easting:	bllows: 541533.546
Notice is he Pursuant to V the surface ov State: County:	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hor West Virginia Wetzel	izontal well on the tract of land as fo Easting: Northing:	bllows: 541533.546 4379889.076
Notice is he Pursuant to V the surface ov State: County: District:	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hor West Virginia Wetzel Grant	izontal well on the tract of land as fo — UTM NAD 83 Easting: Northing: Public Road Access:	bllows: 541533.546 4379889.076 CR1
Notice is he Pursuant to V the surface ov	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hor West Virginia Wetzel	izontal well on the tract of land as fo Easting: Northing:	bllows: 541533.546 4379889.076
Notice is he Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	Vest Virginia Code § 22-6A-16(b), notice in when's land for the purpose of drilling a hor West Virginia Wetzel Grant Hig Run	izontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addressator and the operator's authorize Secretary, at the WV Department of	ollows: 541533.546 4379889.076 CR1 EQT Production Company ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters.
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 60	Vest Virginia Code § 22-6A-16(b), notice is when's land for the purpose of drilling a hor West Virginia Wetzel Grant Big Run Wiley Fork Shall Include: West Virginia Code § 22-6A-16(b), this is more and electronic mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3)	izontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addressator and the operator's authorize Secretary, at the WV Department of	ollows: 541533.546 4379889.076 CR1 EQT Production Company ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters.
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Notice is he Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 60 Notice is he Well Operato	Vest Virginia Code § 22-6A-16(b), notice in when's land for the purpose of drilling a hor West Virginia Wetzel Grant Big Run Wiley Fork Shall Include: West Virginia Code § 22-6A-16(b), this is in the more and electronic mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3) reby given by:	izontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addresserator and the operator's authorize Secretary, at the WV Department of 04-926-0450) or by visiting www.de	ollows: 541533.546 4379889.076 CR1 EQT Production Company ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 60 Notice is he Well Operato	Vest Virginia Code § 22-6A-16(b), notice in wher's land for the purpose of drilling a hor West Virginia Wetzel Grant Hig Run Wiley Fork Shall Include: West Virginia Code § 22-6A-16(b), this is in the beautiful different mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3 reby given by: EQT Production Company	izontal well on the tract of land as for Easting: DITM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addressertor and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.de	ollows: 541533.546 4379889.076 CR1 EQT Production Company ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. John Zavatchan
Notice is he Pursuant to V the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 60° Notice is he Well Operato Address:	Vest Virginia Code § 22-6A-16(b), notice in wher's land for the purpose of drilling a hor West Virginia Wetzel Grant Hig Run Wiley Fork Shall Include: West Virginia Code § 22-6A-16(b), this is inher and electronic mail address of the orizontal drilling may be obtained from the 157 th Street, SE, Charleston, WV 25304 (3 reby given by: EQT Production Company 400 Woodelift Drive	izontal well on the tract of land as for Easting: DITM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addressertor and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.de	ollows: 541533.546 4379889.076 CR1 EQT Production Company ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. John Zavatchan 400 Woodcliff Drive
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 60	Vest Virginia Code § 22-6A-16(b), notice in when's land for the purpose of drilling a hor West Virginia Wetzel Grant Hig Run Wiley Fork Shall Include: West Virginia Code § 22-6A-16(b), this is in the more and electronic mail address of the orizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3 reby given by: "EQT Production Company 400 Woodeliff Drive: Canonsburg, PA 15317	izontal well on the tract of land as for Easting: — UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, address authorized Representative: Authorized Representative: Address:	ollows: 541533.546 4379889.076 CR1 EQT Production Company ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. John Zavatchan 400 Woodcliff Drive Canonsburg, PA 15317

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. Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW Department of Environmental Protection

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 08 2021

WV Department of Environmental Protection

WW-6A5 (1/12)



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

		mit Application Filed:	7/Leg 2021	
Delivery met	hod pursuant to West Virginia C	Code § 22-6A-16(c)		
E CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice. Notice is her-	requested or hand delivery, give the operation. The notice required by provided by subsection (b), section norizontal well; and (3) A proposed section and gas of the surface affected by oil and gas of the section shall be supported by this section shall be supported by the SURFACE Comparison.	ne surface owner whose lar this subsection shall incl on ten of this article to a sur- ed surface use and comper perations to the extent the or given to the surface owner	d will be used for ide: (1) A copy face owner whose isation agreement lamages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addres Name: EQT Pro	s listed in the records of the sheriff	at the time of notice): Name		
Address: 400 V		Addre		
Canonsburg, PA		Addic	55.	
operation on	the surface owner's land for the pu			well operator has developed a planned
County:	West Virginia Wetzel	UTM NAD	83 Easting: Northing:	541533:545 4379889.076
District:	Weizel Grani	Public Road	83 Easting: Northing: Access:	541533.546 4379889.076 CR1
County:	Welzel	Public Road	83 Easting: Northing:	541533:545 4379889.076
County: District: Quadrangle: Watershed: This Notice & Pursuant to V to be provide horizontal we surface affect information r	Wetzel Grant Big Run Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE.	Public Road Generally u this notice shall include: () to a surface owner who and compensation agreem to extent the damages are be obtained from the Secr	83 Easting: Northing: Access: sed farm name: I)A copy of this se land will be ent containing autompensable underly, at the WV	541533.546 4379889.076 CR1 EGT Production Company code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
County: District: Quadrangle: Watershed: This Notice & Pursuant to V to be provide horizontal we surface affect information r headquarters, gas/pages/def	Wetzel Grant Big Run Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b); and (3) A proposed surface use ted by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE. ault.aspx.	Public Road Generally u this notice shall include: () to a surface owner who and compensation agreem to extent the damages are be obtained from the Secr	83 Easting: Northing: Access: sed farm name: I)A copy of this se land will be ent containing autompensable underly, at the WV	541533.546 4379889.076 CR1 EGT Production Company code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the
County: District: Quadrangle: Watershed: This Notice & Pursuant to V to be provide horizontal we surface affect information r headquarters,	Wetzel Grant Big Run Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b); and (3) A proposed surface use ted by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE. ault.aspx.	this notice shall include: () to a surface owner who and compensation agreem the extent the damages are be obtained from the Secr Charleston, WV 25304	83 Easting: Northing: Access: sed farm name: I)A copy of this se land will be ent containing au compensable und etary, at the WV (304-926-0450)	541533.546 4379889.076 CR1 EGT Production Company code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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.

Office of Oil and Gas

WV Department ; Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East · Building Five · Room 110

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

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 5H Well Site -

Dear Mr. Martin.

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

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Central Office O&G Coordinator

Tany & Clayton

Becky Shrum

EQT Production Company

CH, OM, D-6

File

Office of Oil and Gas

JUL 08 2021

W Dopa - er of Environmental Protection

08/13/2021

Anticipated Frac Additives Chemical Names and CAS Numbers

<u>Material</u>	<u>Ingredient</u>	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

RECEIVED
Office of Oil and Gas

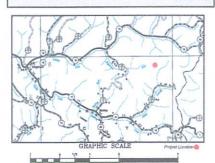
JUL 08 2021

WV Department of Environmental Protection

BIG 464 WELL PAD FINAL SITE DESIGN

AS-BUILT COVER SHEET/LOCATION MAPS

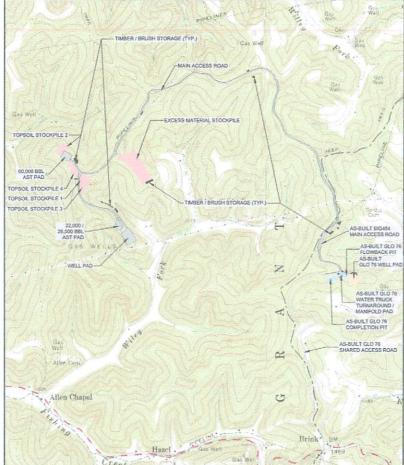




	David - 1 mms		
FLOODPLAIN	V CONE	DITIONS	3
DO SITE CONSTRUCTON ACTIVITIE	S TAKE PLACE IN	FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FL	OODPLAIN COOF	RDPIATOR:	NO
HEC-RAS STUDY COMPLETED:			NO
FLOODPLAIN SHOWN ON DRAWINGS:		NO	
FIRM MAP NUMBER(S) FOR SITE:	54049C0065D	- 54103C0250C - 5	4103C0225C
ACREAGES 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 MATERIAL 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	-80.524345			
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	-60.622526			
Dis : 0+00-22,000/26,000 AST Access	39.509724	-80.518191			

	DESIGN GRADING VOLUMES			AS-BUILT GRADING VOLUMES		
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	Doulgrad Ry: TRC	
5/20/2021	UPDATED TOP HOLES	File No.	OFFICE ASSESSED.
		Tuge	of 21









THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

UILT COVER SHEET/LOCATION MAP BIG 464 WELL PAD SITE

