

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Wednesday, June 16, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for 14H 47-103-03416-00-00

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

Chief

Operator's Well Number: 14H

Farm Name: MICHAEL KUHN

U.S. WELL NUMBER: 47-103-03416-00-00

Horizontal 6A New Drill Date Issued: 6/17/2021

API Number:	
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PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47- 103 - 03416 OPERATOR WELL NO. 14H Well Pad Name: Michael Kuhn

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

1) Well Opera	tor: EQT Produ	ction Company	306686	Wetzel	Center	Big Run
A. Strategie L.	- N. 3-		Operator ID	County	District	Quadrangle
2) Operator's	Well Number: 14	H	Well Pa	d Name: Mic	chael Kuhn	
3) Farm Name	e/Surface Owner:	Rachel Elizabeth Wyatt & Sheld	on R Norfis Public Ro	ad Access: C	R 19/3	
4) Elevation, c	current ground:	1509' (built) E	levation, proposed	l post-constru	ction: 1509'	(built)
5) Well Type	(a) Gas X	Oil	Und	lerground Sto	rage	
		ıllow X	Deep			
	7.	rizontal X	Беер	+		
6) Existing Pa	d: Yes or No Yes	a Square of participation				
The state of the s	arget Formation(s 7,751', 51', 2,620 P		ipated Thickness	and Expected	Pressure(s):	
8) Proposed T	otal Vertical Dept	h: 7751'				
9) Formation a	at Total Vertical D	Depth: Marcellus	3			
10) Proposed	Total Measured D	epth: 23,661'				
11) Proposed I	Horizontal Leg Le	ength: 14,589'				
12) Approxim	ate Fresh Water S	trata Depths:	75', 361'			
13) Method to	Determine Fresh	Water Depths:	Offset Wells - 47	-103-01884 8	& 43-103-01	813
14) Approxim	ate Saltwater Dep	ths: 2027', 2100	', 2295', 2369'			
15) Approxim	ate Coal Seam De	pths: 1163'-116	6', 1260'-1266'			
16) Approxim	ate Depth to Possi	ible Void (coal m	ine, karst, other):	N/A		
	osed well location ing or adjacent to		ms Yes	1	No X	
(a) If Yes, pr	ovide Mine Info:	Name:				
		Depth:				
		Seam:				RECEIVED
		Owner:				MAY 7 =
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WV Department or Environmental Protection

API NO. 47-103 - 034/6 OPERATOR WELL NO. 14H

Well Pad Name: Michael Kuhn

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	1316	1316	1210 ft^3 / CTS
Coal							Day Fitter
Intermediate	9 5/8	New	J-55	36	2823	2823	1100 ft^3 / CTS
Production	5 1/2	New	P-110	20	23661	23661	500' above intermediate casing
Tubing	191						
Liners	T-a	-31	CE-				

Bryan Harris 5/13/21

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	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					7,000		
Liners							

PACKERS

Kind:	
Sizes:	
Depths Set:	
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API NO. 47- 103 - 03416

OPERATOR WELL NO. 14H
Well Pad Name: Michael Kuhn

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): 12.25 acres (2.87 acres previously disturbed)
- 22) Area to be disturbed for well pad only, less access road (acres): 5.17 acres (2.72 acres existing)
- 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

25) Proposed borehole conditioning procedures:

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

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

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

Office of Oil and Gas.

*Note: Attach additional sheets as needed.

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west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 2530-4 (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.

Sincerely

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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WV Department of Environmental Protection 06/25/2021



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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 "I" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

Promoting a healthy environment.

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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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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Pad Name

Horizontal Well MICHAEL KUHN BIG467

Drilling Objectives:
Quad:
County:
Elevation:
Recommended Azimuth

Marcellus Littleten Big Run Wetzel

1523 GL Recommended total wellbore length:

Proposed Logging Suite:

-No Pilot Hole Needed

Coal requirements:

Run a directional survey from the surface through the deepest coal seam

ESTIMATED FORMATION TOPS	Derived from well		4710302775			
Formation	Top (TVD)	Base (TVD)	Lithology	Comments		
Fresh Water Zone	1	361		FW from offsets @ 75,361,		
Sewickley Coal	1163	1166 Ca	oal			
Pittsburgh Coal	1260	1266 Cc	oal	SW @ 2027,2100,2295,2369		
Big Injun	2623	2773 Sz	indstone	Hydrocarbon prod/show in offset @2395,2679,3320,3432,3569		
Int csg pt	2823			50 ft below Big Injun	11.0	
Berea	2891	3151 Sa	indstone	RED ROCK SHOWS NOT LISTED IN OFFSETS		
Gantz	3256	3324 Si	lty sand	THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY.		
Fifty foot	3324	3412 Si		Outside of Storage Boundary		
Thirty foot	3412	3609 Si	ltv sand			
Bayard	3609	3683 Sa	indstone			
Upper Speechley	4014	4067 Si				
Speechley	4067	4150 Si				
Balltown	4150	4514 Si				
Bradford	4514	5629 Si				
Benson	5629	6037 Si				
Alexander	6037	6468 Si				
Elk	6468	7272 Si				
Sonyea	7272		ray shale			
Middlesex	7441		ack Shale			
Genesee	7485	7572 G	ray shale interbedded			
Geneseo	7572		ack Shale		Top RR	Base Ri
Tully	7599	7622 Li	mestone		199.103	Division 1 Co
Hamilton	7622	7725 G	ray shale with some			
Marcellus	7725		ack Shale			
-Purcell	7742	7744 Li	mestone			
-Cherry Valley	7754		mestone			
-Lateral Zone	775	1				
Onondaga	7776	Li	mestone			

Comments:
Note that this is a TVD prog for a horizontal well (azimuth of degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

RECOMMENDED CASING POI	NTS			Planned Depth	
Conductor:	CSG OD	24"	CSG DEPTH	40	
Freshwater / Coal:	CSG OD	13 3/8"	CSG DEPTH	1316	50' below Pittsburgh
Intermediate 1:	CSG OD	9 5/8"	CSG DEPTH	2823	50' below big injun
Production:	CSG OD	5 1/2"	CSG DEPTH	@ TD	

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BIG467

NOTAPE

EQT Production Wellbore Diagram Well: Michael Kuhn 14H County: Wetzel Pad: Michael Kuhn State: West Virginia Elevation: 1523' GL 1536' KB Conductor @ 40' 26", 85.6#, A-500, cement to surface w/ Class A Surface 1,316' @ 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I Intermediate 2,823' @ 9-5/8", 36#, J-55, cement to surface w/ Class A/Type I 23,661' MD / 7,751' TVD 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H RECEIVED Office of Oil and Gas Formation: Marcellus MAY 17 2021 WV Department of Environmental Protection



May 10, 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 Michael Kuhn 14H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,316' KB, 50' below the deepest workable coal seam and 955' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,823' 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.

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API Number 47 - 103 - 03416 Operator's Well No. Michael Kuhn 14H

Member, Pennsylvania Association of Notaries

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686	
Watershed (HUC 10) Knob Fork of WV Fork of Little Fishing Creek Quadrangle Big Run	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes V	
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes No 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 Various)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The then prepared for transportation to an off-site disposal facility.	drill cuttings are
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud	
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See Attached List	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated wast West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shawhere it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the informatio application form and all attachments thereto and that, based on my inquiry of those individuals immediate obtaining the information, I believe that the information is true, accurate, and complete. I am aware that the penalties for submitting false information, including the possibility of fine or imprisonment.	I understand that the d/or other applicable on submitted on this tely responsible for
Company Official Signature	
Company Official (Typed Name) John Zavatchan	
Company Official Title Project Specialist - Permitting	RECEIVED
	Office of Oll and Ga.
Subscribed and sworn before me this 14th day of May , 2021	MAY 1 7 2021
, Notary Public	WV Department of
Olivia Olivia	alth of Pennsylvania - Notary S Pishioneri, Notary Public Allegheny County sion expt: 6/2/5/2022

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.

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Form WW-9 Operator's Well No. Michael Kuhn 14H **EQT Production Company** 12.25 Proposed Revegetation Treatment: Acres Disturbed Prevegetation pH _ Tons/acre or to correct to pH 6.5 Fertilizer type Granular 10-20-20 Fertilizer amount 500 lbs/acre Mulch 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre KY-31 40 **Orchard Grass** 15 Alsike Clover 5 5 Alsike Clover Annual Rye 15 Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area Photocopied section of involved 7.5' topographic sheet. Bryan Harris Plan Approved by: Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible, per regulation. Upgrade E&S as necessary per WV DEP E&S Manual. 5/134/21 Date: Inspector

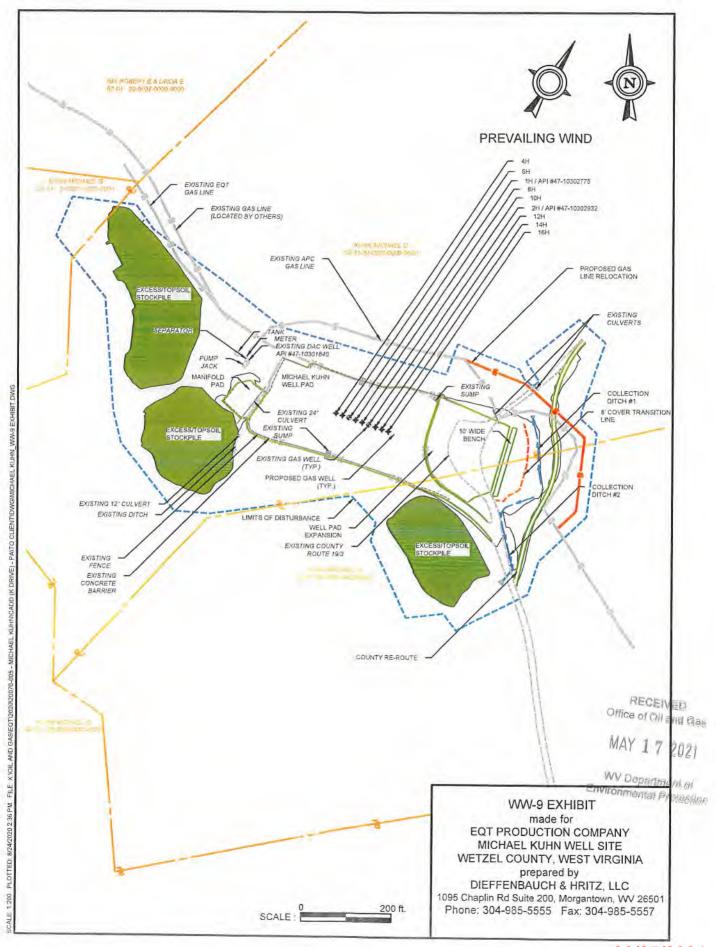
Field Reviewed?

X) Yes

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CWS Trucking Inc. P.O. Broad Street Energy LLC 37 V LAD Liquid Assets Disposal Inc. 226 Triad Energy PO E Tri County Waste Water Management, Inc. 1483 King Excavating Co. Advance Waste Services 101 Waste Management - Meadowfill Landfill Rt. 2 Waste Management - Northwestern Landfill 512	West Broad Street Rankin Road Box 430 7 Toms Run Road River Park Drive	Address 2 Suite 1100	City Williamstown Columbus Washington Reno Holbrook	OH PA PA	26187 43215 15301 45773	Phone 740-516-3586 740-516-5381 724-350-2760 740-516-6021 740-374-2940	Ohio	OH OH WV	8462 USEPA WV 0014
AD Liquid Assets Disposal Inc. 226 Friad Energy PO E Fri County Waste Water Management, Inc. 1483 King Excavating Co. Advance Waste Services 101 Waste Management - Meadowfill Landfill Rt. 2 Vaste Management - Northwestern Landfill 512	West Broad Street Rankin Road Box 430 7 Toms Run Road River Park Drive	Suite 1100	Columbus Washington Reno	OH PA OH	43215 15301	740-516-5381 724-350-2760 740-516-6021	Washingotn Ohio	OH WV	8462 USEPA WV 0014
AD Liquid Assets Disposal Inc. 226 Triad Energy PO E Tri County Waste Water Management, Inc. 1483 ing Excavating Co. Advance Waste Services 101 Vaste Management - Meadowfill Landfill Rt. 2 Vaste Management - Northwestern Landfill 512	Rankin Road Box 430 7 Toms Run Road River Park Drive	Suite 1100	Washington Reno	PA OH	15301	724-350-2760 740-516-6021	Ohio	wv	USEPA WV 0014
AD Liquid Assets Disposal Inc. 226 Triad Energy PO E Tri County Waste Water Management, Inc. 148: Sing Excavating Co. Advance Waste Services 101 Vaste Management - Meadowfill Landfill Rt. 2 Vaste Management - Northwestern Landfill 512	Rankin Road Box 430 7 Toms Run Road River Park Drive	Suite 1100	Washington Reno	PA OH	15301	724-350-2760 740-516-6021	Ohio	wv	USEPA WV 0014
Friad Energy PO E Fri County Waste Water Management, Inc. 148: King Excavating Co. Advance Waste Services 101 Waste Management - Meadowfill Landfill Rt. 2 Waste Management - Northwestern Landfill 512	Box 430 7 Toms Run Road River Park Drive		Reno	ОН		740-516-6021			
Friad Energy PO E Fri County Waste Water Management, Inc. 148: King Excavating Co. Advance Waste Services 101 Waste Management - Meadowfill Landfill Rt. 2 Waste Management - Northwestern Landfill 512	Box 430 7 Toms Run Road River Park Drive		Reno	ОН		740-516-6021			
Fri County Waste Water Management, Inc. 1483 King Excavating Co. Advance Waste Services 101 Waste Management - Meadowfill Landfill Rt. 2 Waste Management - Northwestern Landfill 512	7 Toms Run Road River Park Drive				45773		Noble	ОН	
Tri County Waste Water Management, Inc. 148: King Excavating Co. Advance Waste Services 101 Waste Management - Meadowfill Landfill Rt. 2 Waste Management - Northwestern Landfill 512	7 Toms Run Road River Park Drive				45//3		Noble	OH	
Vaste Management - Northwestern Landfill 512	River Park Drive		Holbrook	DA] <i>/40-3/4-2940</i>		1	4037
King Excavating Co. Advance Waste Services 101 Waste Management - Meadowfill Landfill Rt. 2 Waste Management - Northwestern Landfill 512	River Park Drive		Holbrook	DA				 	
Vaste Management - Northwestern Landfill 512	River Park Drive		HOISTOOK		15341	724-627-7178	Greene	PA	TC-1009
Naste Management - Meadowfill Landfill Rt. 2 Naste Management - Northwestern Landfill 512				 '^-	13341	724-499-5647	Greene	IFA .	110-1009
Vaste Management - Meadowfill Landfill Rt. 2 Vaste Management - Northwestern Landfill 512						724-433-3047		-	-
Vaste Management - Meadowfill Landfill Rt. 2 Vaste Management - Northwestern Landfill 512		 	New Castle	PA	16101		Lawrence	PA	PAR000029132
Vaste Management - Northwestern Landfill 512	2, Box 68 Dawson Drive		INCW COSTIC	 '``	10101	 	Lawience	I'A	FAR000023132
Vaste Management - Northwestern Landfill 512			Bridgeport	lwv -	16330	304-326-6027	Harrison	wv	SWF-1032-98
			- Indeposit	1	10000	304 320 0027	Humbon	***	Approval #100785W\
				 					- Approval W20070544
	E. Dry Road		Parkersburg	wv	26104	304-428-0602	Wood	wv	SWF-1025 WV-01094
DEV L - JEN				 					
APEX Landfill 11 C	County Road 78	PO Box 57	Amsterdam	ОН	43903	740-543-4389	Jefferson	ОН	06-08438
Advanced Disposal - Chestnut Valley Landfill 1184	4 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Favette	PA	100419
									1
Nestmoreland Sanitary Landfill 901	Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
									
Austin Master Services 801 I	North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Belmont	он	2014-541
Jelmont Solids Control 7750	05 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511
Diversified Resources 3111	l Braun Rd.		Belpre	ОН	45714	740-401-0413	Washington	ОН	
						740-610-1512			34-031-27177
		1	Coshocton	ОН	43812	724-591-4393		он	34-031-27178
uckeye Brine 2398	86 Airport Road					724-331-4333	Coshocton		34-031-27241
entral Environmental Services 2833	33 West Belpre Pike		Coolville	ОН	45723	304-488-0701	Athens	ОН	
Luciana Allahala									
uverra - Nichols 1055	55 Veto Road		Belpre	ОН	45714	330-232-5041	Washington	ОН	34-119-2-8776
uverra - Goff 9350	5-4-848						 		
9350	East Pike Road		Norwich	ОН	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
uverra - Wolf 5480	State Route 5		AL	 					
3480	State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893
uverra - Pander 5310	State Route 5		Newton Falls	ОН	44444	330-232-5041	T	011	24 455 2 2705
	State Route 3		NEWION FAILS	Un	44444	330-232-5041	Irumbuli	ОН	34-155-2-3795
uverra - AnnaRock D-1 3549 Office of Oil and Gas	Warner Road	<u> </u>	Fowler	ОН	11/118	330-232-5041	Trumbull	CH	24 155 2 2402
MAY 1 7 2021	Trainer Houd		Towiei	011	44418	330-232-3041	;	ОН	34-155-2-2403

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

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EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Michael Kuhn

County: Wetzel

May 14, 2021

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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 Michael Kuhn well pad: 4H, 6H, 8H, 10H, 12H, 14H, 16H

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

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

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves or other necessary equipment for wellhead integrity capable 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

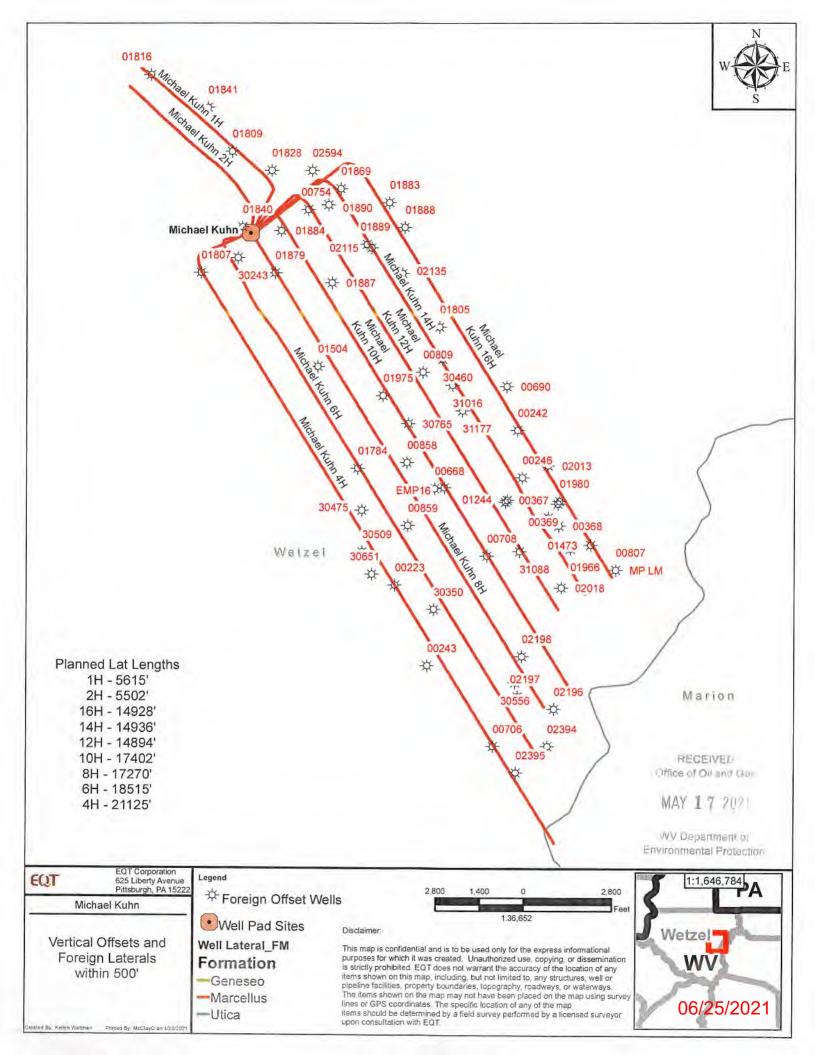
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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	8000.00	3230,00	908'00	1018.00	845.00	641.00	100969.00	641.00	00:1/87	1820.00	3086.00	2448.00	2052.00	2769.00	2265.00	2292.00	8010.00	101204.00	100959.00	3307.00	3673.00	3351.00	101433.00	3684.00	3759.00	3670.00	3553.00	3778.00	3625.00	3658.00	3628.00	1886.00	3673.00	3289.00	3264.00	3506.00	3135.00	3212.00	3750.00	3520.00	3503.00	3282.00	3262.00	580.00	3013.00	2573.00	3457.00	3102.00	3473.00	3297.00	1611.00	1680.00	3423.00	101348.00	00'6666
TotalDepth-SS Total Depth	-7027.0000	-2082.0000	336.0000	254.0000	332.0000	327.0000	-99999.0000	345.0000	1951.0000	-1820,000	-3163 0000	-2448.0000	-2052.0000	-2769.0000	-1044.0000	-1047.0000	-7027.0000	-99999.0000	-99999.0000	-2370.0000	2159 0000	-2169.0000	0000'66666-	-2396.0000	-2240.0000	-2270,0000	-2295.0000	-2233.0000	-2450.0000	-2234.0000	-2247.0000	-641.0000	-2271.0000	-2260.0000	0000,525-	-2221.0000	-1836.0000	-1970.0000	-2176.0000	-3520.0000	-3503.0000	-2173.0000	-2198.0000	636,0000	-1789.0000	-1146.0000	-1995.0000	1920,000	-2108.0000	-1896.0000	-446.0000	-457.0000	-2095.0000	0000 0000	99999,0000
	973.0000	1148.0000	1244.0000	1272.0000	1177.0000	968,000	970,000	986.0000	970,000	0.000	00000	00000	00000	00000	1221.0000	1245.0000	983.0000	1205.0000	960.000	937,000	1514 0000	1182 0000	1434.0000	1288.0000	1519,000	1400,000	1258,0000	1545.0000	1175,0000	1576,0000	1381.000	1245.0000	1402.0000	1029.0000	1384,000	1285.0000	1299.000	1242.0000	1574.0000	0.0000	00000	0000:011	1064,000	1216.0000	1224.0000	1427.0000	1462.0000	1183 0000	1365.0000	1401.0000	1165.0000	1223.0000	1328.0000	1349,0000	00000
TargetFm	39.5919	5846	39.5980	5776	39.5939	39,5904	39,5897	5916	39.5930	8018	39.5706	5177	8282	6031	2982	39,5898	5918	5880	929	5947	39,507.0	6222	6290	9206	6157	6261	6190	6117	6178	PC108	39.6156	6142	9176	5877	5011	5949	5843	6138	6116	5738	5/49	5706	5683	9029	6131	5825	39,6042	5875	39.5761	39.5856	39.5986	39.6019	5875	39,5997	39.3931
Latitude								-80.4968 39.			-80 5048 30						-80.5027 39.		-80.5238 39.												-80.5139 39.		-80.5225 39.												-80,5328 39.				-80.5017 39.					-80,5075 39,	
Operator	HADDAD & BROOKS	EPC	CNG	CNG	CNG	W S HINERMAN	W S HINERMAN	W S HINERMAN		2 10	S C C C C C C C C C C C C C C C C C C C	MANUFACTURERSTIGHT	EPC	EPC	EQUITRANS	EQUITRANS	HADDAD&BROOKS	CNG TRANSMISSION	SHELDON & ASSOCIATES	DAG	746	240	DAC		DAC	DAC	DAC	DAC	DAC	240		DAC		DAC		DAC	DAC	DAC	DAC	DAC	2 4 6	2 4 0	DAC	CONSOL GAS	PGH & WV GAS	HOPE NAT GAS	MANUFACT LIGHT	NINN MAR OR S	DUNN-MAR O & G	PGH & WV GAS	MANUFACT LIGHT	MANUFACT LIGHT	OPER IN MIN.OWN	HOPE NAT GAS	
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Permit	01244	00223	00242	00243	00246	00367	00368	900369	8900	06900	80708	90754	00800	60800	00858	65800	01244	01473	01504	01/84	01803	01809	01816	01828	01840	01841	01869	01879	01883	01887	01888	01889	01890	01966	01973	02013	02018	02115	02135	02196	02197	02394	02395	02594	30243	30350	30475	30509	30556	30651	30765	31016	31088	31177	EMILIE
FmatTD																																															LOWER HURON SHALE						LOWER HURON SHALE		
date	4/8/1982	81677771	9/20/1940	10/21/1940	12/19/1940	11/18/1950	11/2/1950	11/2/1950	2/38/3015	6/1917	10/27/1952	10/2/1903	2/18/1915		3/10/1916	11/29/1916	4/15/1982	1/19/1914	5/18/1992	9/2/1299	8/23/2000	10/20/2000		7/30/2001	8/30/2001	8/21/2001	12/18/2001	6/17/2002	8/1/2002	8/22/2002	9/14/2002	9/6/2002	8/29/2002	8/26/2003	12/5/2003	12/13/2003	4/1/2004	9/16/2005	11/1/2005	9/20/2008	10/1/2008	9/6/2008	10/12/2008	2/9/2011	10/27/1905	9/21/1916	9/8/1916	6/20/1928	10/17/1912	8/14/1919	5/4/1916	7/10/1915	12/22/1908		
WellStatus	3	1	GAS-P	DRV	DRA	UNK	ONK	UNX	See See	S	SAS	GAS	P&A	GAS-P	P&A	P&A	GAS	GAS-P	980	3 8	S S	gys	GAS	GAS	GAS	UNK	GAS	GAS	GAS	SAS	GAS	GAS-P	GAS	245	SAS	GAS	UNK	UNK	ÜNK	GAS O	GAS	GAS	GAS	CBM	GAS	GAS	GAS	GAS	UNX	GAS	GAS	GAS	GAS	UNK	TEMB
Wellin	4710101244	6770000175	4/10300242	4/10300243	4/10300246	4710300367	4710300368	4710300569	4710300690	4710300706	4710300708	4710300754	4710300807	4710300809	4710300858	4710300859	4710301244	4/103014/3	4710301304	4710301784	4710301807	4710301809	4710301816	4710301828	4710301840	4710301841	4710301869	4710301879	4710301883	4710301887	4710301888	4710301889	4710301890	4710301988	4710301980	4710302013	4710302018	4710302115	4710302135	4710302198	4710302198	4710302394	4710302395	4710302594	4710330243	4710330450	4710330475	4710330509	4710330556	4710330651	4710330765	4710331016	4710331088	4710331177 471031EMP16	651391 TFMP IM

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Topo Quad: Big Run Scale: ___ 1" = 1000' Wetzel County: Date: August 19, 2020 Center District: Project No: 49-34-C-20 Water Michael Kuhn Well Pad 4 Potential Water Sources within 2500' ▲Site 1 Site 2 ® Site 3 Site 4 2500 Site 6 LEGEND NAD 27, North Zone N:407833.78 Red Symbol - Declined Sampling E:1709459.12 Blue Symbol - Requested Sampling / Unable to Contact Well **WGS 84** Spring (\$) LAT:39.615245 Pond LONG:-80.531142 Building ELEV:1509' SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 Office of Oil and Gar 237 Birch River Road 400 Woodcliff Drive Birch River, WV 26610 Canonsburg, PA 15317 PH: (304) 649-8606

FAX: (304) 649-8608

WV Department of Environmental Protection



(Insert additional pages as needed)

Table 1 - Water Source Identification

EQT Well Pad Name: Michael Kuhn (BIG 467) Submittal Date: EQT Well Number:	August 19, 2020
Survey / Engineering Company: Allegheny Surveys, Inc.	
Site Number: 1 Distance from Gas Well (feet): 3336 ±	
Surface Owner / Occupant: Robert & Linda Rix Address: 2053 Kodol Rd. Littleton WV 26581 Phone #: 304-775-2425 Field Located Date: 07/22/2020 Owner home during survey (yes/no): Yes Coordinates: 39.623072, -80.537462 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 07/21/2020 2nd: Door Hanger Left: Comments: POND - Located about 200 ft. from road. Certifieds mailed 7/21/207/22/2020. Spoke to Mr. Rix who indicated he has two water wells and three	□ Landowner Requested Sampling □ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) 020. Field visit e ponds.
Site Number: 2 Distance from Gas Well (feet): 2801 ± Surface Owner / Occupant: Robert & Linda Rix Address: 2053 Kodol Rd. Littleton WV 26581 Phone #: 304-775-2425 Field Located Date: 07/22/2020 Owner home during survey (yes/no): Yes Coordinates: 39.621728, -80.536503 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 07/21/2020 2nd: Door Hanger Left: Comments: WATER WELL - Well casing located by old home site. Certifieds visit 07/22/2020. Site Number: 3 Distance from Gas Well (feet): 2500 ±	■ Landowner Requested Sampling ■ Landowner Decline Sampling ■ Unable to Contact (Further contact attempts to b made by EQT's third party pre-drill sampling lab) mailed 7/21/2020. Field
Surface Owner / Occupant: Robert & Linda Rix Address: 2053 Kodol Rd. Littleton WV 26581 Phone #: 304-775-2425 Field Located Date: 07/22/2020 Owner home during survey (yes/no): Yes Coordinates: 39.621464, -80.534911 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 07/21/2020 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)

WV Department of Solvironmental Protection 06/25/2021

MAY 17 2021

Site Number: 4 Distance from Gas Well (feet): 1471 ±								
Surface Owner / Occupant: Robert & Linda Rix	□ Landowner Requested							
Address: 2053 Kodol Rd. Littleton WV 26581 Phone #: 304-775-2425	Sampling Landowner Decline							
Field Located Date: 07/22/2020 Owner home during survey (yes/no): Yes	Sampling ☐ Unable to Contact							
Coordinates: 39.618749 , -80.533719 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)							
Contact Attempts (Date): 1st: 07/21/2020 2nd: Door Hanger Left:	pro dim daniping (as)							
Comments: POND - Certifieds mailed 7/21/2020. Field visit 07/22/2020.								
Site Number: 5 Distance from Gas Well (feet): 2077 ±								
Surface Owner / Occupant: Robert & Linda Rix	□ Landowner Requested							
Address: 2053 Kodol Rd. Littleton WV 26581 Phone #: 304-775-2425	Sampling Landowner Decline							
Field Located Date: 07/22/2020 Owner home during survey (yes/no): Yes	Sampling ☐ Unable to Contact							
Coordinates: 39.620800, -80.529246 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)							
Contact Attempts (Date): 1st: 07/21/2020 2nd: Door Hanger Left:	pre-unii samping lab)							
Comments: POND - Certifieds mailed 7/21/2020. Field visit 07/22/2020.								
Site Number: 6 Distance from Gas Well (feet): 951 ±								
Surface Owner / Occupant: Rachel Elizabeth Wyatt & Sheldon R. Norris	☐ Landowner Requested							
Address: 1132 Kodol Rd. Wileyville WV 26581 Phone #:	Sampling Landowner Decline							
Field Located Date: Owner home during survey (yes/no): No	Sampling ⊠ Unable to Contact							
Coordinates: 39.613548, -80.534100 (decimal degrees – NAD 83) (Further contact attempts to be made by EQT's third party								
Contact Attempts (Date): 1st: 07/21/2020 2nd: Door Hanger Left:	pre-drill sampling lab)							
Comments: POND – Located with aerial imagery. Certifieds mailed 7/21/2020. No	response or any							

sponse or any further contact.

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SITE SAFETY AND ENVIRONMENTAL PLAN

Michael Kuhn (BIG467) Well Site

Center District
Wetzel County, WV
Well Numbers 1H, 2H, 4H, 6H, 8H, 10H, 12H,14H, 16H

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

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 29-Jan-20

John Zavatchan

Project Specialist

EQT Production Company

Derek Haught

Oil and Gas Specialist

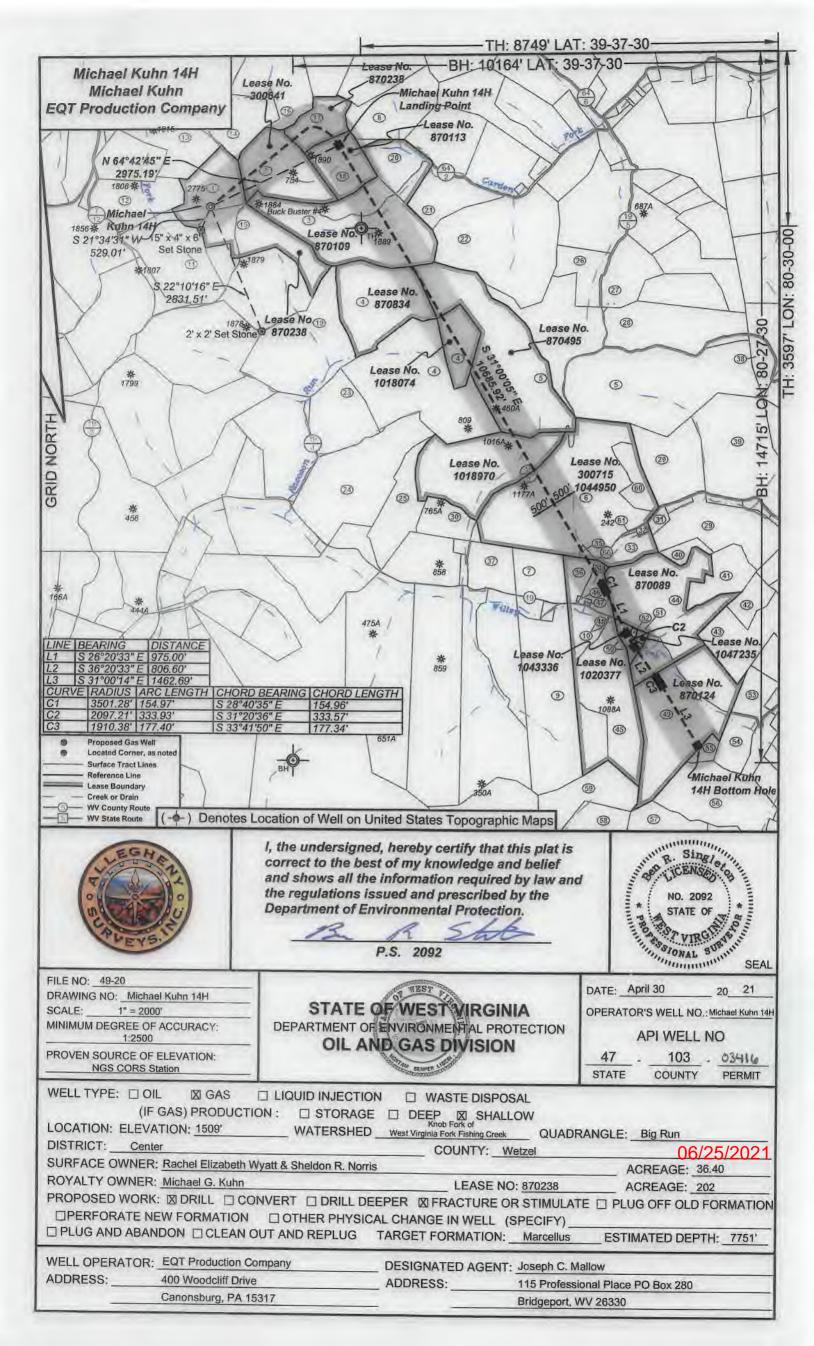
Derek M. Haught

West Virginia DEP

Big Run Topo Quad: Scale: ____ 1" = 1000' County: Wetzel Date: August 19, 2020 District: Center Project No: 49-34-C-20 Water Michael Kuhn Well Pad 4 Potential Water Sources within 2500' ▲Site 1 Site 2 ® Site 3 Site 4 REPE Office 2500 MAY 17 W WV Department of Site 6 Environmental Protection NAD 27, North Zone LEGEND N:407833.78 Red Symbol - Declined Sampling E:1709459.12 Blue Symbol - Requested Sampling / Unable to Contact Well WGS 84 Spring LAT:39.615245 Pond LONG:-80.531142 Building ELEV:1509' 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

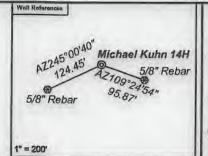
FAX: (304) 649-8608

06/25/2021



Michael Kuhn 14H Michael Kuhn **EQT Production Company**

Tract (.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	20	32	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	36.40
2	13	8	Wetzel	Church	William B. Francik Jr.	48,44
3	17	1	Wetzel	Church	Buck Baster Hunt Club of WV Inc.	100.0
4	4	12-	Wetzel	Grant	Robert L. McCann Jr. & Andrew S. McGenn	190,7
.5	5 5 1 1		Wetzel	Grant	Raccoon Run Properties LLC	370.0
Ð	10	2,1	Wetzel	Grant	Richard L. Ebright	139.1
7	10	21	Wetzel	Grant	John Gump Jr. & Mary Jo. Gump	25.00
R	13	7	Wetzel	Church	Daniel T & Kristle D; Park	36.00
g	10	38	Wetzel	Grant	Tammy Di- Chambers	89.67
10	10	31.2	Wotzel	Grant	Zachary W. Adams	13.01
11	20	35	Wetzer	Center	Rachel Elizabeth Wyatt & Sheldon R. Norric	54.00
12	20	31	Wetzni	Center	Rochel Bizabeth Wyelt & Sheldon R. Norris	40.00
13	20	27	Wetzel	Conter	Robert E. & Linda E. Rix	48.75
14	20	18	Wetzel	Center	Robert E. & Linda E. Rix	80.10
15	20	36	Wetzel	Conter	Rachel Elizabeth Wyatt & Sheldon R. Nome	45.00
16	20	5	Wetzel	Center	Robert F. & Linda Rix	107.00
17	13	8	Watzel	Church	William B. & Pameta S. Francik	26,50
18	13	0	Wetzel	Churen	William B. Francik Jr.	28.00
ia.	4	11	Wetzel	Grant	Liberty Holding Company	89.05
20.	13	10	Wetzel	Church	Buck Britter Hunt Club of WV Inc.	27.50
21	18	1	Wetzel	Church	Andrew Pintus	31.80
22	18	2	Wetzel	Church	David Brickenstein, et al.	1,000,000
23	9	5	Wetzel	Grant	John E. Sewell	98,50
24	p	12	Wetzel	Grant		30.50
25	0	.64		The second second	Buri Barr	80.28
26	115	-	Weizel	Grant	Galvin N. Barr, et al.	32.92
27		10	Wetzel	Calurch	Steven W. & Carolyn L. Blair	19.00
	18	11	Wetzel	Church	Thomas E, Kahl	29.00
28	18	17	Wetzel	Church	Cecil Summers	57.30
29	10	ă.	Wetzel	Grant	Gery R. Taylor	86.08
30	10	9	Wetzel	Grant	Gregory A. Burdine	22.50
31	10	11	Wetzel	Grant	Earney J. Stanoking	3.52
32	10	2.2	Wetzal	Grant	Earney J. & Romana L. Stoneking	0.09
33	10	2	Wetzel	Grant	Joseph W. Judge	12.75
34	10	31.1	Wetzel	Grant	Norman & Stacy Adams	0,92
35	10	10	Wetzei	Grant	Leray & Hazel Kirkpatrick	1.07
:36	10	31	Watza	Grant:	John Gump Jr, & Mary Jo, Gump	16.33
37	10	20	Wetzel	.Grant	(Sitty J. & Frances J. Higgins Irrevocable Trust	21.06
38	18	19	Watzel	Church	Harold Richmond	45.12
.39	10	5	Wetzel	Grant	Ervin Paul Park	99.94
-10	10	12	Wetzel	Grant	Gary R. Taylor	6.25
41	10	25	Wetzel	Grant	Gary R. Taylor	20.00
42	10	28	Watze	Grant	Susan Harper, et al.	13,00
43	10	35	Wetzel	Grant	EQT Galhering, LLC	24.00
44	10	23	Wotzei	Grant	James L. Greathouse	97.70
45	10	32	Wetzel	Grant	Richard E. A. Jay A. Griffith	60,00
vi6	10	22	Wetzel	Grant	Joseph B. Gump, et al	0.75
47	10	22	Wetzel	Grant	Joseph B, Gump, et al.	0.25
48	10	31.3	Wetzel	Grant	Zechery W. Adems	1.24
49	10	40	Watzni	Grant	Raneld Gump	94.50
50	10	33	Wetzel	Grant	Brady Grafe	5,56
51	10	33,1	Watzel	Grant	Bobby L. Gump, et al.	1.52
52	10	33,2	Watzel	Grant	Michael Stx	0.44
,53	10	41/	Wetzel	Grant	Joshue R. Gamp	18.53
54	10	45.1	Watzel	Grant	Bruce W. & Crystel F. Bredley	16.00
55	10	44	Westzei	Grant	Fignald Keith & Deloris P. Gump.	4.10
58	15.	2	Wetzel	Grant	Gonstat Forest Resources Company	61.00
57	15	8	Watzel	Grant	Constat Forest Resources Company Social Forest Resources Company	
58	15	7	Watzel	Grant	Temothy E. Titus	
50	15	1	Wetnel	Grant		
.60	10	3	Wetzel	Grant	William & Lina Stoneking	43.20
61	10	2.4	Ascrete	Guint	Joseph W, Judge	17.30

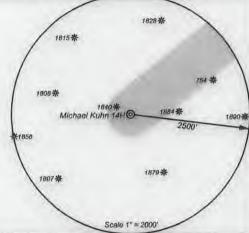


Michael Kuhn 14H coordinates are
NAD 27 N: 407,819,83 E: 1,709,537.34
NAD 27 Lat: 39.615126 Long: -80.531055
NAD 83 UTM N: 4,385,155,73 E: 540,269.31
Michael Kuhn 14H Landing Point coordinates are
NAD 27 Lat: 39.618699 Long: -80.521558
NAD 83 UTM N: 4,385,566.63 E: 541,082.44
Michael Kuhn 14H Bottom Hole coordinates are
NAD 27 N: 396,585.68 E: 1,719,741.64
NAD 27 Lat: 39.584600 Long: -80.494394
NAD 83 UTM N: 4,381,785.06 E: 543,435.21
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, comer and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.

meridian. UTM coordinates are NAD83, Zone 17, Meters



Lease No.	Owner	Acres
300641	Beulah Deloris Ballard	47
870238	Miriam K. Knowles, a/k/a Miriam M. Knowles and Philip G. Knowles, et al.	26.5
870113	Beulah Deloris Ballard, et al.	28
870109	Buckbusters Hunting Club of WVA, LLC	127.5
870834	Shiben Estates, Inc., et al.	60.75
870495	Shiben Estates, Inc.	129
1018074	John R. Papik and Tamara Lea Papik, et al.	23.106
1018970	Three Rivers Royalty, LLC, et al.	75
1044950	Patrick Harold Hasenbuhler, et al.	139.18
300715	Patrick Harold Hasenbuhler, et al.	100.00
1020377	Patrick Harold Hasenbuhler, et al.	110
870089	Ervin Park, et al.	97.7
1043336	John J. Gump and Mary Jo Gump, et al.	5.2485
1047235	Russell C. Blackburn, et al.	1.525
870124	Ronald Keith Gump, II and Deloris Paula Gump, et al.	94.5





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



FILE NO: 49-20 DRAWING NO: Michael Kuhn 14H 1" = 2000' SCALE: MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION:

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

DATE: April 30 OPERATOR'S WELL NO .: Michael Kuhn 14H

API WELL NO

103 . 03416 47

NGS CORS Station	n	REPERTURE		STATE	COUNTY	PERMIT
WELL TYPE: □ OIL	☑ GAS ☐ LIQUID INJECTIO	N WASTE DISPO	SAL		-	
(IF GA	S) PRODUCTION: STORAGE	DEEP SHALL	LOW			
LOCATION: ELEVATIO	ON: 1509' WATERSHED	Knob Fork of West Virginia Fork Fishing Creek		NGLE: Big	Run	
DISTRICT: Center		COUNTY: W	Vetzel		06/2	5/2021
SURFACE OWNER: RE	achel Elizabeth Wyatt & Sheldon R. Norr	is		ACRE	AGE: 36	
ROYALTY OWNER: MI	ichael G. Kuhn	LEASE NO	D: 870238	ACRE	AGE: 20	2
PROPOSED WORK: 12	DRILL CONVERT DRILL DE	EEPER IN FRACTURE O	R STIMULATE	☐ PLUG C	FF OLD F	ORMATION
□PERFORATE NEW	FORMATION OTHER PHYSIC	CAL CHANGE IN WELL (SPECIFY)			
☐ PLUG AND ABANDO	ON CLEAN OUT AND REPLUG	TARGET FORMATION:	Marcellus	ESTIMAT	ED DEPT	H: _7751'
WELL OPERATOR: EC	QT Production Company	DESIGNATED AGENT	: Joseph C. Mall	low		
ADDRESS: 40	00 Woodcliff Drive	ADDRESS:	115 Profession	al Place PO	Box 280	
Ca	anonsburg, PA 15317		Bridgeport, WV	/ 26330		

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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or	Country Translation		No.	B 16

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

Office of Oil and Gar

MAY 1 7 2021 Page 1 of 4

Lease No.	Grantor, Lessor, etc.		Acres	Grantee, Lessee, etc.	Royalty	Book/Page
					"at least 1/8th per	
√ 870238	Michael G. Kuhn				WV Code 22-6-8"	
	Michael G. Kuhn, a single man		202 ac	Drilling Appalachian Corporation		OG 77A/56
	Drilling Appalachian Corporation			Grenadier Energy Partners, LLC		OG 118A/108 & 136A/5
	Grenadier Energy Partners, LLC			Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation			Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.			EQT Production Company		OG 175A/707
/					"at least 1/8th per	
<u>300641</u>	Beulah Deloris Ballard				WV Code 22-6-8"	
	David Ballard and Malinda Ballard, his wife		47 ac	The Carter Oil Company		DB 58/165
	The Carter Oil Company			The Hope Natural Gas Company		DB 91/1
	Hope Natural Gas Company			Consolidation Gas Supply Corporation		DB 233/387
	Consolidation Gas Supply Corporation			Consolidated Gas Transmission Corpora	tion	OG 66A/69
	Consolidated Gas Transmission Corporation			CNG Transmission Corporation		Corp. Book 13/151
	CNG Transmission Corporation			Eastern States Oil & Gas, Inc.		OG 76A/232
	Eastern States Oil & Gas, Inc.			Blazer Energy Corp.		Corp. Book 12/253
	Blazer Energy Corp.			Eastern States Oil & Gas, Inc.		Corp. Book 12/259
	Eastern States Oil & Gas, Inc., Blazer Energy Corp	., et al.		EQT Production Company		Corp. Book 13/14
,	Miriam K. Knowles, a/k/a Miriam M. Knowles and	d Philip G.			"at least 1/8th per	
✓ <u>870238</u>	Knowles, et al.				WV Code 22-6-8"	
	Miriam K. Knowles, a/k/a Miriam M. Knowles and P	hilip G. Knowles,				
	her husband		26.5 ac	EQT Production Company		OG 193A/249
	B 44 B 4 4 B 9 4 4 4				"at least 1/8th per	
<u>870113</u>	Beulah Deloris Ballard, et al.				WV Code 22-6-8"	
•	Doyle P. Ballard and Beulah D. Ballard, husband an	nd wife	28 ac	Drilling Appalachian Corporation		OG 79A/480
	Drilling Appalachian Corporation			Grenadier Energy Partners, LLC		OG 118A/108 & 136A/53
	Grenadier Energy Partners, LLC			Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation			Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.			EQT Production Company		OG 175A/707
/					"at least 1/8th per	
√ <u>870109</u>	Buckbusters Hunting Club of WVA, LLC				WV Code 22-6-8"	
	Buck Buster Hunting Club of WV Inc.		127.5 ac	Drilling Appalachian Corporation		OG 80A/244
	Drilling Appalachian Corporation			Grenadier Energy Partners, LLC		OG 118A/108 & 136A/538
	Grenadier Energy Partners, LLC			Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation			Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.			EQT Production Company		OG 175A/707
/	Shiben Estates, Inc., et al. Shiben Estates, Inc. Grenadier Energy Partners, LLC Grenadier Energy Partners, LLC	Office of Oil and Gas MAY 1 7 2021			"at least 1/8th per	
<u> 870834</u>	Shiben Estates, Inc., et al.	Ay ice			WV Code 22-6-8"	
	Shiben Estates, Inc.	of U	60.75 ac	Grenadier Energy Partners, LLC		OG 123A/790
	Grenadier Energy Partners, LLC	2 SE		Drilling Appalachian Corporation		OG 125A/319
	Grenadier Energy Partners, LLC	N N		Statoil USA Onshore Properties Inc.		OG 138A/1
	2000年	0 2 2 2 2 2 2 2 2				
	CHC CHC CHC	<u> </u>				
	39	92 2				

	Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.		Statoil USA Onshore Properties Inc. EQT Production Company		OG 138A/54 OG 175A/707
			• •		
870495 ~	Shiben Estates, Inc.			"at least 1/8th per	
6/0495	Jennie Potts and W. F. Potts, her husband	100	The Miles is a National Confession	WV Code 22-6-8"	00.04.00
	The Wheeling Natural Gas Company	129 ac	The Wheeling Natural Gas Company		OG 2A/86
	The Manufacturers Light & Heat Company		The Manufacturers Light & Heat Company	у	OG 9A/138
	Union Gasoline & Oil Corporation		Union Gasoline & Oil Corporation		OG 24A/215
	The Preston Oil Company		The Preston Oil Company		OG 39A/387
	The Manufacturers Light & Heat Company		The Manufacturers Light & Heat Company	у	RB 31/302
	John Lavelle		John Lavelle		OG 48A/359 OG 76A/714
	Mark Chisler dba or trading as M-Trading Company		Mark Chisler trading as M-Trading Compa	arry	OG 77A/216
	Drilling Appalachian Corporation		Drilling Appalachian Corporation		OG 77A/216 OG 118A/108 & 136A/538
	Grenadier Energy Partners, LLC		Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707
			Eq. (Toddollon Company		00 1107/101
/				"at least 1/8th per	
<u>/1018074</u>	John R. Papik and Tamara Lea Papik, et al.			WV Code 22-6-8"	
	John R. Papik and Tamara Lea Papik, his wife	23.1063 ac	EQT Production Company		OG 184A/292
,				"at lacat 1/0th nor	
1018970	Three Rivers Royalty, LLC, et al.			"at least 1/8th per WV Code 22-6-8"	
	Three Rivers Royalty, LLC	75 ac	EQT Production Company	0000 22 0 0	OG 179A/57
	,,,,	70 40	Eq. (roddollon company		00 170/107
				"at least 1/8th per	
<u>1044950</u>	Patrick Harold Hasenbuhler, et al.			WV Code 22-6-8"	
	Patrick Harold Hasenbuhler, a married man dealing in his sole and separate property	139.18 ac	FOT Braduation Company		00.0404/000
	ooparato property	139.10 ac	EQT Production Company		OG 246A/888
/				"at least 1/8th per	
√ 300715	Patrick Harold Hasenbuhler, et al.			WV Code 22-6-8"	
	E. E. Glover, Vernie Morris and N. G. Morris, her husband, Annie				
	Halbert and Paul Halbert, her husband, and H. M. Ice and Emma Ice, his wife	100.00 ac	E. D. Ice		00.44400
	E. D. Ice	100.00 ac			OG 1A/482
	Hope Natural Gas Company		Hope Natural Gas Company		OG 2A/300 DB 233/387
	Consolidation Gas Supply Corporation		Consolidation Gas Supply Corporation Consolidated Gas Transmission Corporati	ion	OG 66A/69
	Consolidated Gas Transmission Corporation		CNG Transmission Corporation	IUII	Corp. Book 13/151
	CNG Transmission Corporation		Eastern States Oil & Gas, Inc.		OG 76A/232
	Eastern States Oil & Gas, Inc.		Blazer Energy Corp.		Corp. Book 12/253
	Blazer Energy Corp.		Eastern States Oil & Gas, Inc.		Corp. Book 12/259
	Eastern States Oil & Gas, Inc., Blazer Energy Corp., et al.		EQT Production Company		Corp. Book 13/14
	3, 1,		,		50.p. 200 10.11
/				"at least 1/8th per	
1020377	Patrick Harold Hasenbuhler, et al.			WV Code 22-6-8"	
	Lester L. Ice and Gertrude C. Ice, his wife	110 ac	Hope Natural Gas Company		OG 48A/299
	Hope Natural Gas Company) H	Consolidation Gas Supply Corporation		DB 233/387
	Consolidation Gas Supply Corporation Consolidated Gas Transmission Corporation	g z	Consolidated Gas Transmission Corporati	ion	OG 66A/69
	Consolidated Gas Transmission Corporation	S E	CNG Transmission Corporation		Corp. Book 13/151
		別項			
	Hope Natural Gas Company Consolidation Gas Supply Corporation Consolidated Gas Transmission Corporation WV Department of Protection 7 202	RECEIVED e of Oil and			
	Lester L. Ice and Gertrude C. Ice, his wife Hope Natural Gas Company Consolidation Gas Supply Corporation Consolidated Gas Transmission Corporation WW Departmental Protection Consolidated Gas Transmission Corporation	RECEIVED Office of Oil and Gas			
	9n				

	CNG Transmission Corporation Invitation Energy, Inc. Joe O'Ferrell Standard Oil Company, Inc.		Invitation Energy, Inc. Joe O'Ferrell Standard Oil Company, Inc. EQT Production Company		OG 74A/538 OG 125A/982 & 136A/861 OG 125A/984 & 136A/863 OG 186A/286 & 188A/31
√ <u>870089</u>	Ervin Park, et al. Ervin Park and Janet Park Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	97.7 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 82A/509 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
1043336	John J. Gump and Mary Jo Gump, et al. John J. Gump and Mary Jo Gump, JTROS Antero Resources Corporation	5.2485 ac	Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 211A/691 OG 231A/59
<u>1047235</u>	Russell C. Blackburn, et al. Russell C. Blackburn, a married man dealing in his sole and separate property	1.525 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 253A/711
√ <u>870124</u>	Ronald Keith Gump, II and Deloris Paula Gump, et al. Ronald Keith Gump and Paula Gump, sign as Ronald K. Gump, II and Deloris P. Gump Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	94.5 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 81A/383 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas



May 6, 2021

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

Re:

Michael Kuhn 14H

Center District, Wetzel County, WV

Dear Mr. Brewer,

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

RECEIVEL Office of Oil and Gas

MAY 17 2021

WV Denartment of Environmental Houseyon -6AC 2)

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

of Notice	e Certification: 5/14/21		(In ar	OTOP'S	Well No. 14H	
			Well	Pad N	ame: Michael Kulli	
	peen given: e provisions in West Virginia Code				inad parties with	the Notice Forms listed
ce has b	oeen given:	\$ 2	2-6A, the Operator has provided	the rec	luired parties www	
ant to th	tract of land as follows:		East	ino:	540269.31	
	West Virginia			thing:	4385155.73	
: ity:	Wetzel		Public Road Access:		CR 19/3	P #15300
ict:	Center		Generally used farm n	ame:	Rachel Elizabeth Wy	att & Sheldon R Norris
drangle:	Big Run		Generally used to a			
ershed:	Knob Fork of West Virginia Fork Fishing Created West Virginia Code § 22-6A-7(b	ek			1.0 mg = 12 -800	a form as may
ginia Co	required by subsections (b) and (c) e surface owner notice of entry to s of subsection (b), section sixtee de § 22-6A-11(b), the applicant shall be have been completed by the applicant of the subsection of the	icant				
marcont to	o West Virginia Code § 22-6A, the	Ope	rator has attached proof to this	Notice	Certification	and the same of th
at the Op	perator has properly served the req	Ope uired	rator has attached proof to this parties with the following:	Notice	Certification	OOG OFFICE USE ONLY
at the Op	perator has properly served the req					ONLY
at the O	perator has properly served the req			D BEC	AUSE NO	ONLY RECEIVED/
nat the OppleASE C	Perator has properly served the requirement of the property of	or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS C	D BEC	AUSE NO JCTED	ONLY RECEIVED/ NOT REQUIRED RECEIVED
nat the Opplease Co. N.	perator has properly served the req	or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS C	D BEC CONDU WAS	AUSE NO UCTED CONDUCTED CAUSE	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
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at the Operate Control of the Contro	PRESENTED THE PROPERTY SERVED THE FOR PLAT SHOTICE OF ENTRY FOR PLAT SHOTICE OF INTENT TO DRILL	or UR\ or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CONTROLLED OF ENTRY FOR PLEASE ATTACH)	D BECCONDU WAS D BEC AT SU	AUSE NO JCTED CONDUCTED CAUSE JRVEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
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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. Certification of Notice to the person may be made by affidavit of personal service, Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, RECEIVED the return receipt card or other postal receipt for certified mailing.

06/25/2021

Certification of Notice is hereby given:

	6A. I certify that as required under West Virgi above, to the required parties through personal signature confirmation. I certify under penalty	have read and understand the notice requirements within West Virginia Code § 22-6h, I have served the attached copies of the Notice Forms, identified I service, by registered mail or by any method of delivery that requires a receipt or of law that I have personally examined and am familiar with the information submitted ints, and that based on my inquiry of those individuals immediately responsible for formation is true, accurate and complete. I am aware that there are significant penalties possibility of fine and imprisonment.
--	---	---

Well Operator: EQT Production Company

NOTARY SEAL Commonwealth of Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public Allegheny County My commission expires October 25, 2023

Commission number 1359968 Member, Pennsylvania Association of Notaries

John Zavatchan By: Project Specialist Permitting

724-746-9073 Telephone:

400 Woodcliff Drive Address:

Canonsburg, PA 15317

412-395-2974 Facsimile: jzavatchan@eqt.com Email:

Subscribed and sworn before me this

My Commission Expires

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

WW-6A (9-13)

API NO. 47-103 - 03416
OPERATOR WELL NO. 14H
Well Pad Name: Michael Kuhn

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: 5/14/2021 Date Permit Application Filed: 5/14/2021 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) COAL OWNER OR LESSEE Name: See Attached List Name: See Attached List Address: Address: Name: COAL OPERATOR Address: Name: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached List ☑ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: See Attached List Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD. ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: _____Address: _____ Office of Oil and Gas Address: MAY 17 2021 *Please attach additional forms if necessary

WV Department of Environment of Services

Michael Kuhn Well Site

Surface Owners (All Disturbance):

Rachel Elizabeth Wyatt and Sheldon R Norris 1132 Kodol Rd Wileyville, WV 26581

Coal Owners

New Gauley Coal Corp 5260 Irwin Road Huntington, WV 25705

Margaret Kuhn 1045 N Sabal Palm Way Inverness, FL 34453

John Kuhn 1045 N Sabal Palm Way Inverness, FL 34453

Water Supply Owners Within 1,500'

Robert & Linda Rix 2053 Kodol Rd Littleton, WV 26581

/ Rachel Elizabeth Wyatt & Sheldon R Norris 1132 Kodol Rd Wileyville, WV 26581

RECEIVED
Office of Oil and Gas

MAY 17 2021

WV Department of Environmental Description

WW-6A (8-13) API NO. 47-103 - 03416
OPERATOR WELL NO. 14H
Well Pad Name; Michael Kuhn

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as water intake of a public water supply. 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/s 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 and a secretary considers necessary. in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit of Protection 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

06/25/2021

API NO. 47- 103 - 034/6 OPERATOR WELL NO. 14H

Well Pad Name: Michael Kuhn

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

MAY 17 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 - 034/6
OPERATOR WELL NO. 14H
Well Pad Name: Michael Kuhn

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.

MAY 1.7 2021

WV Department of Environmental Protection WW-6A (8-13)

API NO. 47- 103 - 034/6

OPERATOR WELL NO. 14H

Well Pad Name: Michael Kuhn

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 Olivia Pishioneri, Notary Public Allegheny County

My commission expires October 25, 2023 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

F

Notary Public

My Commission Expires

RECEIVED
Office of Oil and Gas

MAY 1 7 2021

WV Department of Environmental Protection

Topo Quad: Big Run 1" = 1000" Scale: Wetzel County: Date: August 19, 2020 District: Center Project No: 49-34-C-20 Water Michael Kuhn Well Pad 4 Potential Water Sources within 2500' ▲Site 1 Kodni Site 2 ® Site 3 Site 4 2500 RECEIVE Office of Oil and Gas MAY 1 7 2021 Site 6 WV Department of Environmental Projection LEGEND NAD 27, North Zone N:407833.78 Red Symbol - Declined Sampling Blue Symbol - Requested Sampling E:1709459.12 / Unable to Contact Well WGS 84 (\$) Spring LAT:39.615245 Pond LONG:-80.531142 Building ELEV:1509' 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

06/25/2021

WW-6A4 (1/12)

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 Noti	Requirement: Notice shall be provided at ce: 04/30/2021 Date Per	least TEN (10) days prior to filing a mit Application Filed:	permit application.	
Delivery me	thod pursuant to West Virginia Code § 2	2-6A-16(b)		
☐ HAND	■ CERTIFIED MAIL			
DELIV		UESTED		
receipt reque drilling a hor of this subse subsection m	W. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own rizontal well: <i>Provided</i> , That notice given ction as of the date the notice was provided asy be waived in writing by the surface own ble, facsimile number and electronic mail as	ner notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided, how</i> ner. The notice, if required, shall include.	ne surface owner's land f on of this article satisfies vever, That the notice requested the name, address, to	or the purpose of the requirements uirements of this lephone number,
	ereby provided to the SURFACE OW			
A THE RESERVE TO SERVE THE PARTY OF THE PART	Elizabeth Wyatt and Sheldon R. Norris	Name:		
Address: 113 Wileyville, WV 2	-	Address:		
the surface owner's land for the purpose of drilling a horstate: West Virginia County: Wetzel District: Center Quadrangle: Big Run Watershed: Knob Fork of West Virginia Fork Fishing Creek		UTM NAD 83 Public Road Access: Generally used farm name:	Hows: 540,269.31 4,385,155.73 CR 19/3 Michael Kuhn	
This Notice Pursuant to facsimile nu related to ho	e Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (3	pperator and the operator's authorized Secretary, at the WV Department of	ed representative. Additi of Environmental Protect	onal information on headquarters,
Notice is he	ereby given by: Dr: EQT Production Company	Authorized Representative:	John Zavatchan	RECEIVED Office of Oil and Gas
Address:	400 Woodcliff Drive	Address:	400 Woodcliff Drive	MANA
20-10-000	Canonsburg, PA 15317		Canonsburg, PA 15317	WAY 17 2021
Telephone:	724-746-9073	Telephone:	724-746-9073	WW 6
Email:	jzavatchan@eqt.com	Email:	jzavatchan@eqt.com	Environment of
Facsimile:	412-395-2974	Facsimile:	412-395-2974	Environmental Protection
Pacsimile: 412-395-2974 Pacsimile: 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 deprivacyofficer@wv.gov.

Operator Well No. Michael Kuhn 14H

WW-6A5 (1/12)

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

Dolivowy mos	hod pursuant to West Virginia Code §	22.64.16(a)	
Denvery mei	nod pursuant to west virginia Code 9	22-0A-10(C)	
CERTI	FIED MAIL	HAND	
RETUI	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a damages to th (d) The notic of notice. Notice is her	requested or hand delivery, give the surface peration. The notice required by this see provided by subsection (b), section ten of horizontal well; and (3) A proposed surface surface affected by oil and gas operation as required by this section shall be given to the surface affected by other section shall be given to the surface affected by the section shall be given to the surface affected by this section shall be given to the surface affected by the surface affected by the surface affected by this section shall be given to the surface affected by the	ace owner whose land will be use ubsection shall include: (1) A co if this article to a surface owner water use and compensation agreed institute to the extent the damages are contour to the surface owner at the address	plication, an operator shall, by certified mail d for the drilling of a horizontal well notice of py of this code section; (2) The information hose land will be used in conjunction with the nent containing an offer of compensation for ompensable under article six-b of this chapter. Is listed in the records of the sheriff at the time
	s listed in the records of the sheriff at the lizabeth Wyatt and Sheldon R. Norris	Additional to the state of the	
		Name:Address:	
Address 1132			
Notice is her Pursuant to Voperation on	eby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose of	is hereby given that the undersign of drilling a horizontal well on the	tract of land as follows:
Notice is her Pursuant to Woperation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose of West Virginia Welzel Center	is hereby given that the undersign of drilling a horizontal well on the UTM NAD 83 Rorthir Public Road Access:	tract of land as follows: 540269.31 g: 4385155.73 CR 19/3
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

March 18, 2021

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

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

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 Michael Kuhn Pad, Wetzel County
Michael Kuhn WTZ 14H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2012-0113 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 19/3 SLS MP 2.34.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

RECEIVED
Office of Oil and Gas

MAY 1 7 2021

WV Department of Environmental Protection

Gary K. Clayton, P.E.

Jan K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: John Zavatchan

EQT Production Company

CH, OM, D-6

File

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	Ingredient	CAS Number
Water		
Sand	Hydrotreated light petroleum distillate Tributyl tetradecyl phosphonium	14808-60-7
Friction Reducer	chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

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MAY 17 2021

WV Department of Environmental Protection

EROSION & SEDIMENT CONTROL PLAN MICHAEL KUHN WELL SITE

APPROVED WVDEP OOG

WETZEL COUNTY, WV FOR

EQT PRODUCTION COMPANY



		LANDOWNER DISTU	SPANCE BLEAKCOMAN		
JANDOWNER	DISTURBANCE FROM STOCKPILES	COUNTY BOUTE	DISTURBANCE FROM ACCESS AGAD	DISTURGANCE TROM WELL MATERIANSHIN	TOTAL SISTLABANCE
COLON MECHAGI G. 52-01-20- DOST-ORDO SONO	0.71 AC	N/A	N/A	14/6	0.21 AC
CUHN MICHAEL 5, 12-01-20 6632-0000-0000	3.92 AC	0.67.AC	DOLAC	461AC	9.21 AC
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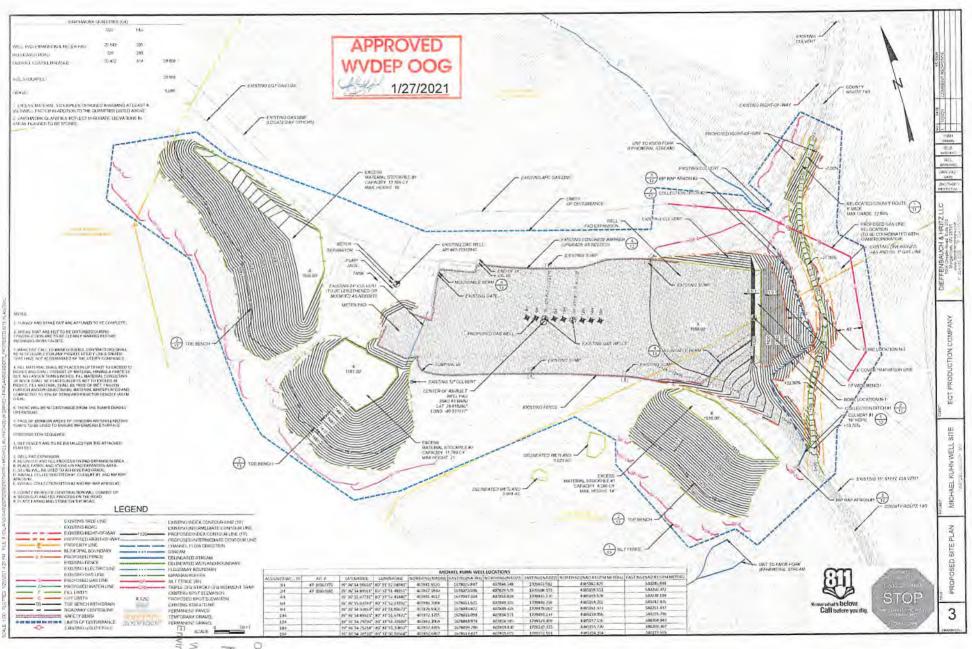
PROJECT NO. 20070-005
JANUARY 2021

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DIEFFENBAUCH & HRITZ, LLC

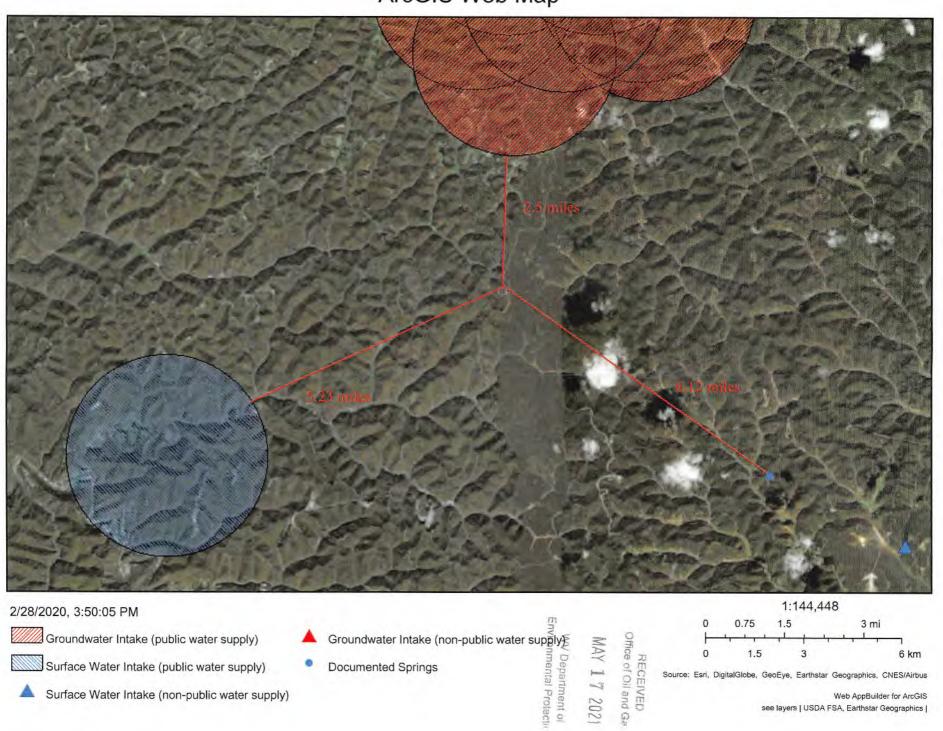
INDEX TITLE SHEET AS-BUILT SITE PLAN PROPOSED BESTORATION PLAN CUNTY ROUTE AND AGCESS RUAD PROFILES COUNTY ROUTE CROSS SECTIONS

EAS DETAILS



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WV Department of vironmental Protect

ArcGIS Web Map



Web AppBuilder for ArcGIS

see layers | USDA FSA, Earthstar Geographics |

Surface Water Intake (non-public water supply)