



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, January 27, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for MICHAEL KUHN 8H
47-103-03362-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name.

James A. Martin
Chief

Operator's Well Number: MICHAEL KUHN 8H
Farm Name: RACHEL ELIZABETH WYATT
U.S. WELL NUMBER: 47-103-03362-00-00
Horizontal 6A New Drill
Date Issued: 1/27/2021

PERMIT CONDITIONS

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

CONDITIONS

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

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.

WW-6B
(04/15)

4710303362

API NO. 47- _____
OPERATOR WELL NO. 8H
Well Pad Name: Michael Kuhn

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

1) Well Operator: EQT Production Company 306686 Wetzel Center Big Run
Operator ID County District Quadrangle

2) Operator's Well Number: 8H Well Pad Name: Michael Kuhn

3) Farm Name/Surface Owner: Rachel Elizabeth Wyatt & Sheldon R Norris Public Road Access: CR 19/3

4) Elevation, current ground: 1509' (built) Elevation, proposed post-construction: 1509' (built)

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No Yes

DWH 9/16/20

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,751', 51', 2,620 psi

8) Proposed Total Vertical Depth: 7,069' *When lateral added Ja*

9) Formation at Total Vertical Depth: Elk

10) Proposed Total Measured Depth: 7,079'

11) Proposed Horizontal Leg Length: 0'

12) Approximate Fresh Water Strata Depths: 75'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-103-01884 & 47-103-01813

14) Approximate Saltwater Depths: 2,027', 2,100', 2,295', 2,369'

15) Approximate Coal Seam Depths: 1,163'-1,166', 1,260'-1,266'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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4710303362

WW-6B
(04/15)

API NO. 47- _____ - _____
 OPERATOR WELL NO. 8H
 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							
Intermediate	9 5/8	New	J-55	36	2774	2774	1100 ft ³ / CTS
Production	5 1/2	New	P-110	20	7079	7079	500' above intermediate casing
Tubing							
Liners							

DMAH 9/16/20

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill well to the Elk Formation. Drill the vertical, kick off and partially drill curve. This operation will be completed to accommodate future Marcellus well drilling.

DMH 9/16/20

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.

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*Note: Attach additional sheets as needed.

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4710303362



EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

September 4, 2020

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 8H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,316' KB, 50' below the deepest workable coal seam and 1,241' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,774' 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,

A handwritten signature in blue ink, appearing to read 'John Zavatchan', is written over a light blue circular stamp.

John Zavatchan
Project Specialist - Permitting

Enc.

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WEST VIRGINIA GEOLOGICAL PROGNOSIS

BIG467H8

Horizontal Well
Pad Name: MICHAEL KUHN 8H
BIG467H8

Drilling Objectives:

Marcellus
LITTLETON
Wetzel

Quad:

County:

Elevation:

Recommended Azimuth

1536 KB
Degrees

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	75		FW from offsets @ 75, , , , , ,
Sewickley Coal	1163	1166	Coal	
Pittsburgh Coal	1260	1266	Coal	SW @ 2027,2100,2295,2369
Big Injun	2623	2724	Sandstone	Hydrocarbon prod/show in offset @ 2395,2679,3320,3432,3569, , ,
Int. csg pt	2774			50 ft below Big Injun
Berea	2891	3151	Sandstone	RED ROCK SHOWS NOT LISTED IN OFFSETS
Gantz	3256	3324	Silty sand	
Fifty foot	3324	3412	Silty sand	Outside of Storage Boundary
Thirty foot	3412	3609	Silty sand	
Bayard	3609	3683	Sandstone	
Upper Speecheley	4014	4067	Silty sand	
Speecheley	4067	4150	Silty sand	
Balltown	4150	4514	Silty sand	
Bradford	4514	5629	Silty sand	
Benson	5629	6037	Silty sand	
Alexander	6037	6468	Silty sand	
Elk	6468	7272	Silty sand	
Sonyea	7272	7441	Gray shale	
Middlesex	7441	7485	Black Shale	
Genesee	7485	7572	Gray shale interbedded	
Genesee	7572	7599	Black Shale	Top RR Base RR
Tully	7599	7622	Limestone	
Hamilton	7622	7725	Gray shale with some	
Marcellus	7725	7776	Black Shale	
-Purcell	7742	7744	Limestone	
-Cherry Valley	7754	7756	Limestone	
-Lateral Zone	7751			
Onondaga	7776		Limestone	

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 POINTS

	CSG OD		CSG DEPTH	Planned Depth
Conductor:	24"		40	
Freshwater / Coal:	13 3/8"		1316	50' below Pittsburgh
Intermediate 1:	9 5/8"		2774	50' below big injun
Production:	5 1/2"		@ TD	

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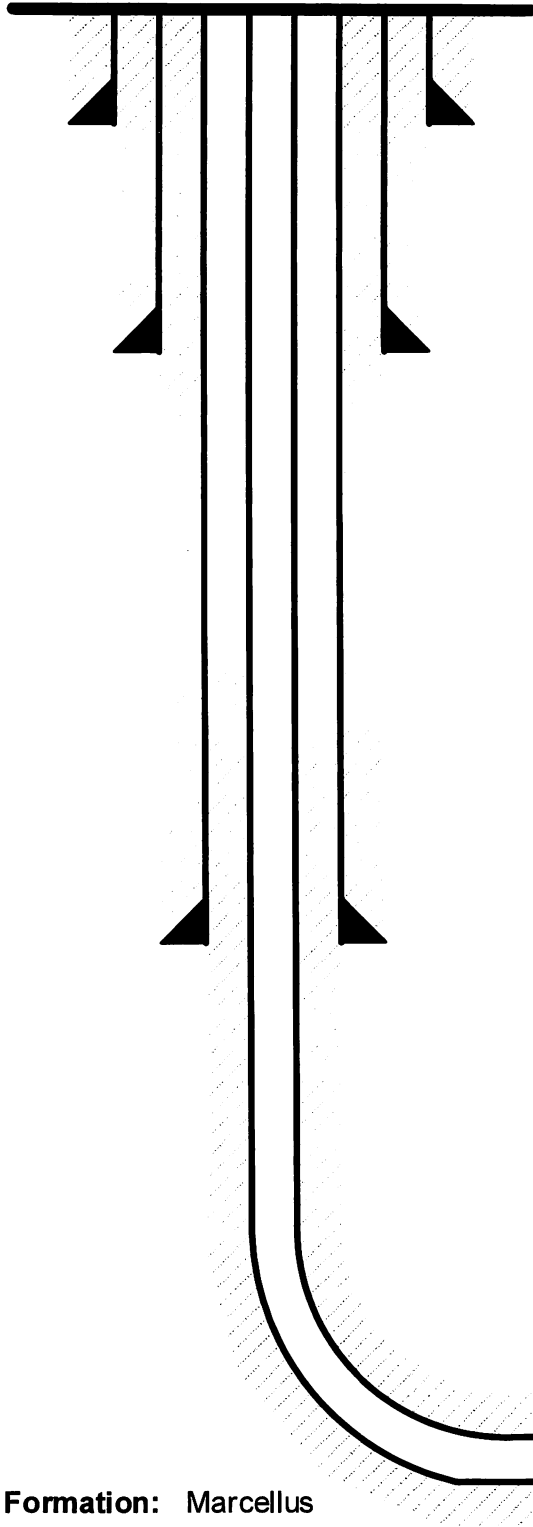
4710303362

EQT Production

Wellbore Diagram

Well: Michael Kuhn 8H
Pad: Michael Kuhn
Elevation: 1523' GL 1536' KB

County: Wetzel
State: West Virginia



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 @ 2,774'

9-5/8", 36#, J-55, cement to surface w/ Class A/Type I

Production @ 7,079' MD / 7,069' TVD

5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

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DMH 9/16/20

Formation: Marcellus

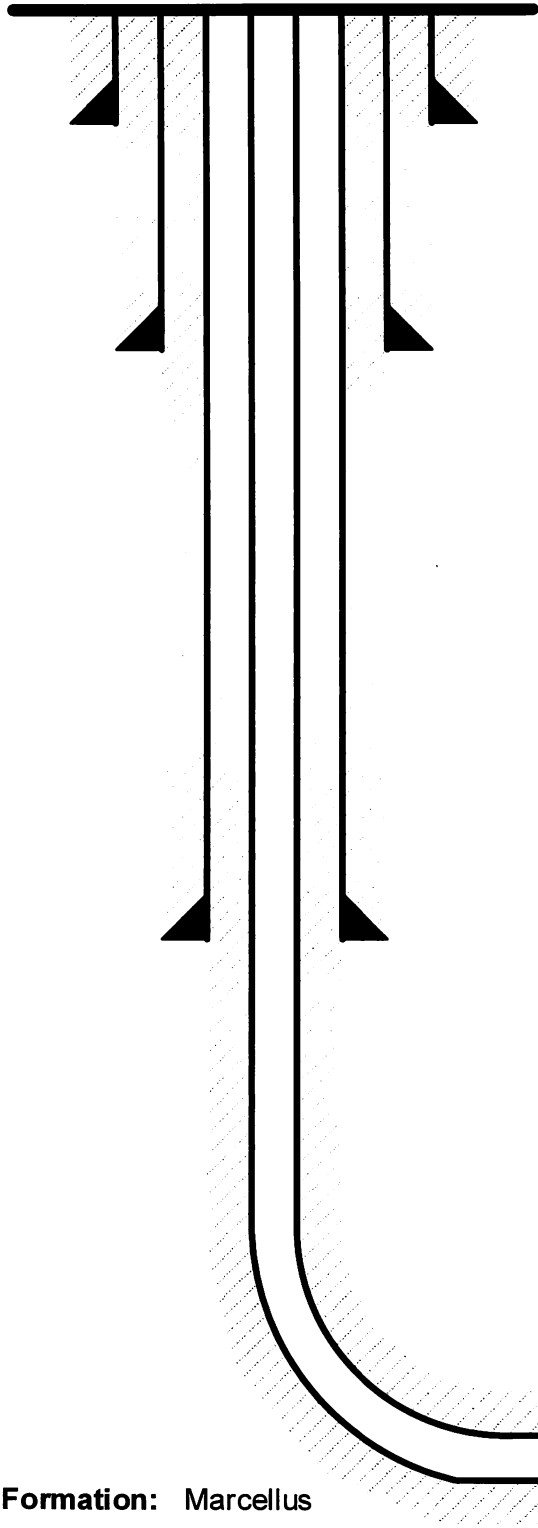
NOT TO SCALE

EQT Production

Wellbore Diagram 303362

Well: Michael Kuhn 8H
Pad: Michael Kuhn
Elevation: 1523' GL 1536' KB

County: Wetzel
State: West Virginia



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 @ 2,774'

9-5/8", 36#, J-55, cement to surface w/ Class A/Type I

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Production @ 7,079' MD / 7,069' TVD

5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

Formation: Marcellus

NOT TO SCALE

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Michael Kuhn (BIG467)
County: Wetzel

July 22, 2020

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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 (BIG467) pad: 4H, 6H, 8H, 10H, 12H, 14H and 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 pre-frac 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

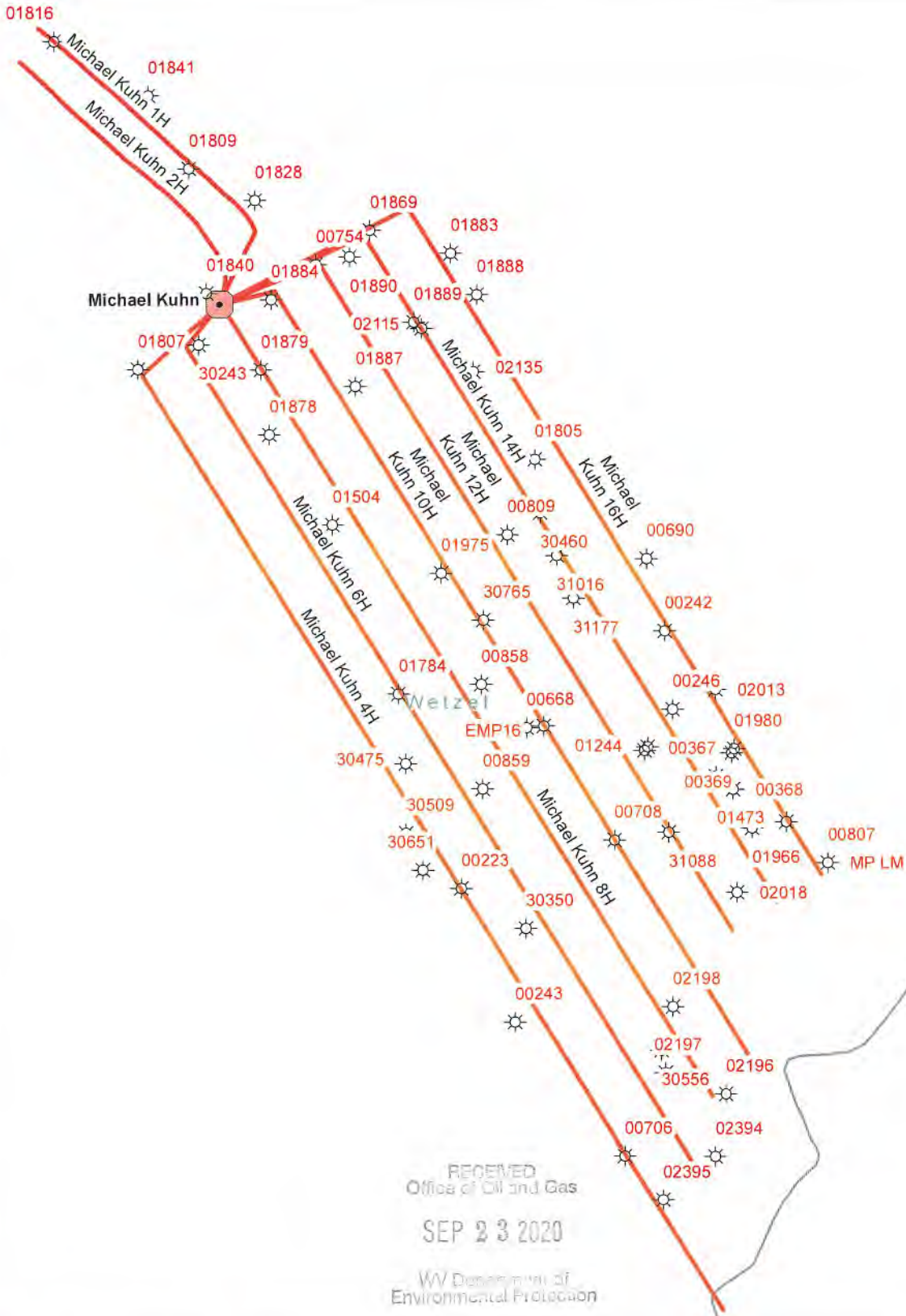
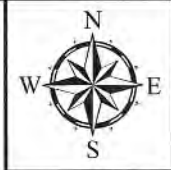
2. Reporting

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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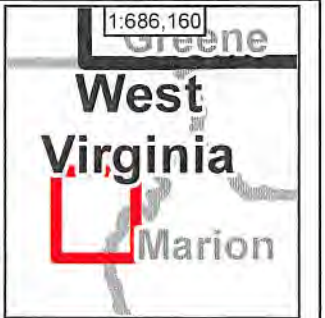
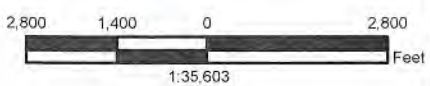


EQT
 EQT Corporation
 625 Liberty Avenue
 Pittsburgh, PA 15222

Michael Kuhn
 Vertical Offsets and
 Foreign Laterals
 within 500'

Legend
 ☀ Foreign Well Offset
 ● Well Pad Sites
Well Lateral_FM Formation
 — Geneseo
 — Marcellus
 — Utica

Disclaimer:
 This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



— Access Road

□ Well Pad

□ Limit of Disturbance

PAD NAME

Great Tiger



0 250 500 Feet

103-03362

Topo Quad: Big Run Scale: 1" = 1000'

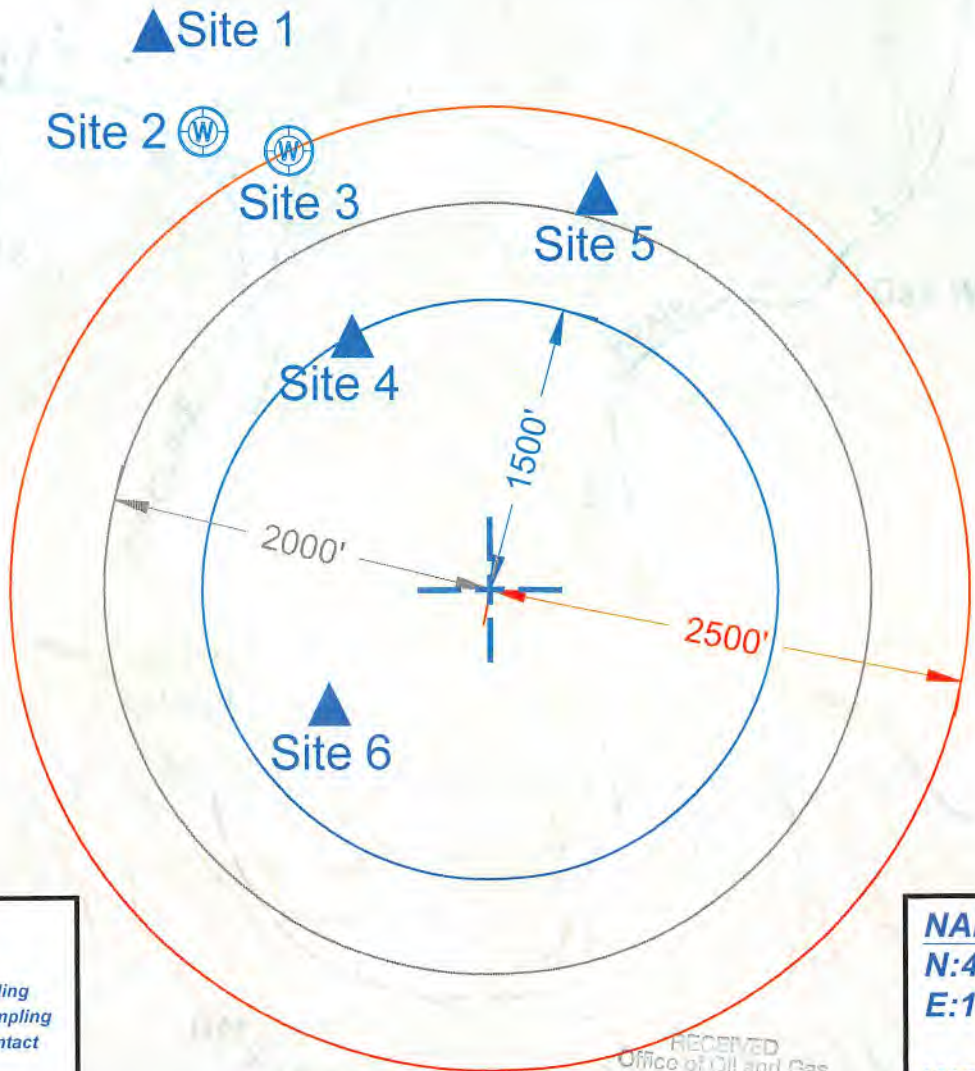
County: Wetzell Date: August 19, 2020

District: Center Project No: 49-34-C-20

Water

Michael Kuhn Well Pad

4 Potential Water Sources within 2500'



LEGEND

Red Symbol - Declined Sampling
 Blue Symbol - Requested Sampling
 / Unable to Contact

- Well
- Spring
- Pond
- Building

NAD 27, North Zone
N:407833.78
E:1709459.12

WGS 84
LAT:39.615245
LONG:-80.531142
ELEV:1509'

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SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company

400 Woodcliff Drive
 Canonsburg, PA 15317

4710303862

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Michael Kuhn 8H

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 Quadrangle Big Run

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 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 drill cuttings are then prepared for transportation to an off-site disposal facility.

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

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

Additives to be used in drilling medium? See Attached

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

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

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]
Company Official (Typed Name) John Zavarichan
Company Official Title Project Specialist - Permitting

Subscribed and sworn before me this 22nd day of September, 2020

[Signature] Notary Public

My commission expires March 9, 2024

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

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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EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed No additional disturbance Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 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	Alsike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Derek M. Haught

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.

Title: Oil & Gas Inspector

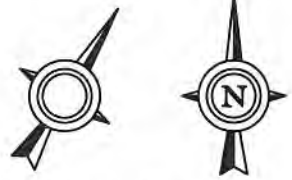
Date: 9/16/20

Field Reviewed? Yes No

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PREVAILING WIND

SCALE: 1:200 PLOTTED: 8/24/2020 2:36 PM FILE: X:\OIL AND GAS\EQT\2020\20070-005 - MICHAEL KUHN\CAD\K (DRIVE) - PATTO CLIENT\DWG\MICHAEL KUHN_WW-9 EXHIBIT.DWG

RIV ROBERT E & LINDA E
53-01-30-0027-0000-0000

KUHN MICHAEL G
53-01-30-0027-0000-0000

KUHN MICHAEL G
53-01-30-0032-0000-0000

KUHN MICHAEL G
53-01-30-0032-0000-0000



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Office of Oil and Gas

SEP 23 2020

WV Department of
Environmental Protection

WW-9 EXHIBIT
made for
EQT PRODUCTION COMPANY
MICHAEL KUHN WELL SITE
WETZEL COUNTY, WEST VIRGINIA
prepared by
DIEFFENBAUCH & HRITZ, LLC
1095 Chaplin Rd Suite 200, Morgantown, WV 26501
Phone: 304-985-5555 Fax: 304-985-5557

SCALE : 0 200 ft.

EQT Production Water Plan

Offsite Disposals for Unconventional Wells

Facility Name	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391		Williamstown	WV	26187	740-516-3586	Noble	OH	3390
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	OH	43215	740-516-5381	Washington	OH	8462
LAD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	WV	USEPA WV 0014
Triad Energy	PO Box 430		Reno	OH	45773	740-516-6021 740-374-2940	Noble	OH	4037
Tri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178 724-499-5647	Greene	PA	TC-1009
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101		Lawrence	PA	PAR000029132
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	WV	16330	304-326-6027	Harrison	WV	SWF-1032-98 Approval #100785WV
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	WV	26104	304-428-0602	Wood	WV	SWF-1025 WV-0109400
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	OH	43903	740-543-4389	Jefferson	OH	06-08438
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419
Westmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
Austin Master Services	801 North 1st Street		Martins Ferry	OH	43935	740-609-3800	Belmont	OH	2014-541
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	OH	43907	740-942-1739	Harrison	OH	2015-511
Diversified Resources	3111 Braun Rd.		Belpre	OH	45714	740-401-0413	Washington	OH	
Buckeye Brine	23986 Airport Road		Coshocton	OH	43812	740-610-1512 724-591-4393	Coshocton	OH	34-031-27177 34-031-27178 34-031-27241
Central Environmental Services	28333 West Belpre Pike		Coolville	OH	45723	304-488-0701	Athens	OH	
Nuverra - Nichols	10555 Veto Road		Belpre	OH	45714	330-232-5041	Washington	OH	34-119-2-8776
Nuverra - Goff	9350 East Pike Road		Norwich	OH	43767	330-232-5041	Muskingum	OH	34-167-2-3862
Nuverra - Wolf	5480 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-1893
Nuverra - Pander	5310 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-3795
Nuverra - AnnaRock D-1	3549 Warner Road		Fowler	OH	44418	330-232-5041	Trumbull	OH	34-155-2-2403

WV Department of Environmental Protection
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 DIVISION OF PERMITS
 9 27 11

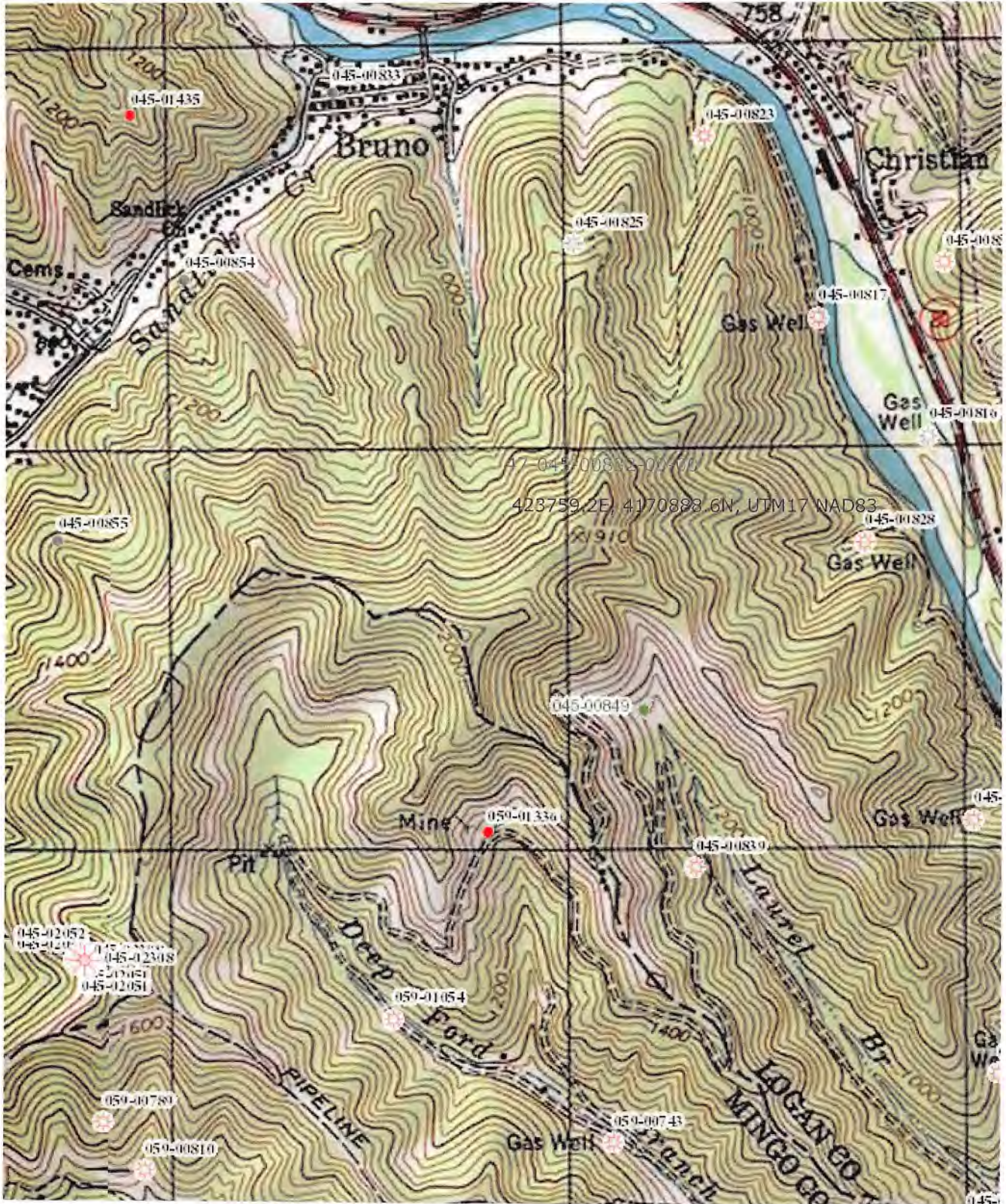
4710303362

FQ Helen	199 Bowersock Road		Reno	OH	45773	740-374-2940 412-443-4397 740-236-2135	Washington	OH	34-167-2-9577
FQ Dexter	38505 Marietta Rd.		Dexter City	OH	45727	740-374-2940 412-443-4397 740-236-2135	Noble	OH	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	OH	45770	740-374-2940 412-443-4397 740-236-2135	Meigs	OH	34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street		Cambridge	OH	43725	614-477-1368	Guernsey	OH	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.		Tridelpia	WV	26059	740-255-5727	Ohio	WV	
Deep Rock Disposal	2341 OH-821		Marietta	OH	45750	304-629-0176	Washington	OH	34-167-2-9766

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 SEP 23 2020
 WV Department of
 Environmental Protection

4710303862

47 03 33 62



4710303362

ORIGIN ID:PITA (412) 278-2100
MARISSA BRINZER
KEYSTONE CONSULTANTS LLC
32 E MAIN ST

CARNEGIE, PA 15106
UNITED STATES US

SHIP DATE: 02NOV20
ACTWGT: 1.00 LB
CAD: 113226966/INET4280

BILL SENDER

TO **ROBERT & LINDA RIX**

2053 KODOL RD

LITTLETON WV 26581

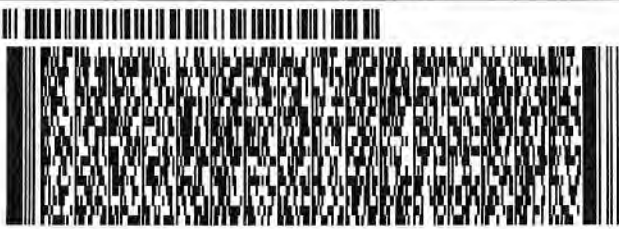
(000) 000-0000

REF: MICHAEL KUHN NOTIFICATIONS

INV:
PO:

DEPT:

56B,051D916766



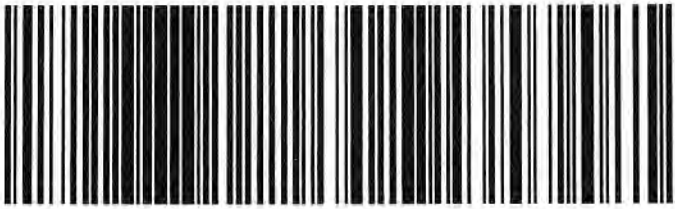
282820071481UP

TRK# 7719 6785 6880
0201

TUE - 03 NOV 4:30P
PRIORITY OVERNIGHT

65 MGWA

26581
WV-US **PIT**



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID:PITA (412) 278-2100
MARISSA BRINZER
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CARNEGIE, PA 15106
UNITED STATES US

BILL SENDER

TO **ROBERT & LINDA RIX**

2053 KODOL RD

LITTLETON WV 26581

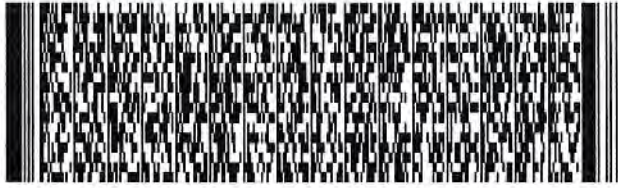
(000) 000-0000

REF: MICHAEL KUHN NOTIFICATIONS

INV:
PO

DEPT:

56B.635108/8766

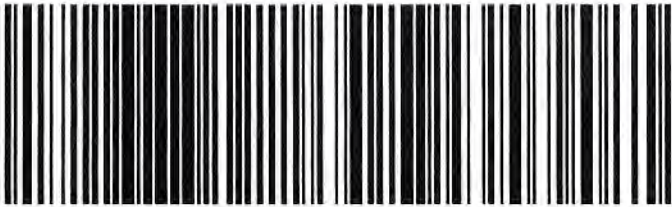


TUE - 03 NOV 4:30P
PRIORITY OVERNIGHT

TRK# 7719 6785 6880
0201

65 MGWA

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



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

A blue ink signature of John Zavatchan, written in a cursive style.

John Zavatchan
Project Specialist
EQT Production Company

A blue ink signature of Derek M. Haught, written in a cursive style.

Derek Haught
Oil and Gas Specialist
West Virginia DEP

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SEP 23 2020

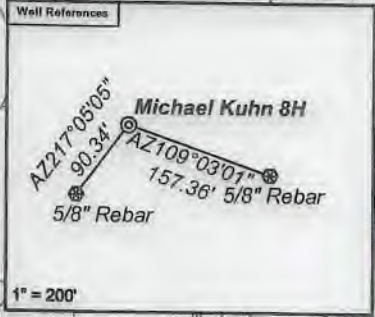
WV Department
Environmental Protection

TH: 8807' LAT: 39-37-30

BH: 8960' LAT: 39-37-30

Michael Kuhn 8H
Michael Kuhn
EQT Production Company

Tract I.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	20	35	Wetzel	Center	John & Margaret A. Kuhn	54.00
3	20	31	Wetzel	Center	John & Margaret A. Kuhn	40.00
4	20	27	Wetzel	Center	Robert E. & Linda E. Rix	48.75
5	20	18	Wetzel	Center	Robert E. & Linda E. Rix	60.10
6	13	8	Wetzel	Church	William B. Francik Jr.	48.44
7	17	1	Wetzel	Church	Buck Buster Hunt Club of WV Inc.	100.00
8	20	36	Wetzel	Center	John & Margaret A. Kuhn	45.00



GRID NORTH

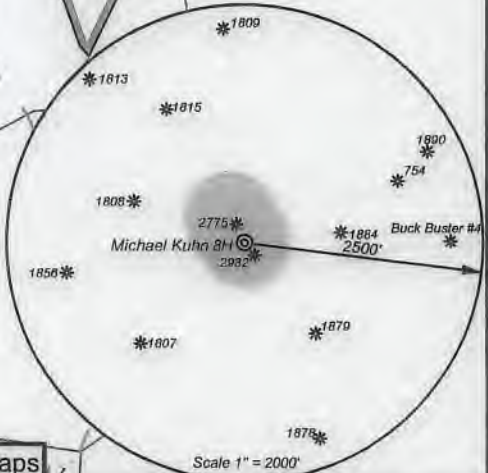
BH: 3330' LON: 80-30-00

TH: 3578' LON: 80-30-00

Notes:
 Michael Kuhn 8H coordinates are
 NAD 27 N: 407,839.33 E: 1,709,479.01
 NAD 27 Lat: 39.615177 Long: -80.531263
 NAD 83 UTM N: 4,385,161.37 E: 540,251.44
 Michael Kuhn 8H Bottom Hole coordinates are
 NAD 27 N: 408,089.75 E: 1,709,329.08
 NAD 27 Lat: 39.615860 Long: -80.531805
 NAD 83 UTM N: 4,385,236.90 E: 540,204.49
 West Virginia Coordinate system of 1927 (North Zone)
 based upon Differential GPS Measurements.
 Plat orientation, corner and well ties are based upon
 the grid north meridian.
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.

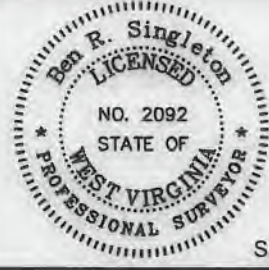
- ⊙ Proposed Gas Well
- ⊙ Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⊙ WV County Route
- ⊙ WV State Route

(⊙) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
 P.S. 2092



SEAL

FILE NO: 49-20
 DRAWING NO: Michael Kuhn 8H
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: September 21 20 20
 OPERATOR'S WELL NO.: Michael Kuhn 8H
 API WELL NO: H6A
 47 - 103 - 03362
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1509' WATERSHED: Knob Fork of West Virginia Fork Fishing Creek QUADRANGLE: Big Run
 DISTRICT: Center COUNTY: Wetzel
 SURFACE OWNER: Rachel Elizabeth Wyatt & Sheldon R. Norris ACREAGE: 36.40
 ROYALTY OWNER: Margaret Ann Kuhn and John J. Kuhn, et al. LEASE NO: 870238 ACREAGE: 36.40
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,069'
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
870238	Michael G Kuhn, single man	Drilling Appalachian Corporation	at least 1/8th per WV Code 22-6-8	OG77A/56
	Drilling Appalachian Corporation	Grenadier Energy Partners, LLC	at least 1/8th per WV Code 22-6-8	OG 118A/108 & 136A/538
	Grenadier Energy Partners, LLC	Statoil USA Onshore Properties Inc.	at least 1/8th per WV Code 22-6-8	OG 138A/1
	Drilling Appalachian Corporation	Statoil USA Onshore Properties Inc.	at least 1/8th per WV Code 22-6-8	OG 138A/54
	Statoil USA Onshore Properties Inc.	EQT Production Company	at least 1/8th per WV Code 22-6-8	OG 175A/707

**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

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Office of Oil and Gas

SEP 23 2020

WV Department of
Environmental Protection



September 21, 2020

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

Re: Michael Kuhn 8H Gas Well
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,

A handwritten signature in blue ink, appearing to read 'John Zavatchan', written over a light blue circular stamp.

John Zavatchan
Project Specialist - Permitting

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Office of Oil and Gas
SEP 23 2020
WV Department of Environmental Protection

WW-6AC
(1/12)

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

Date of Notice Certification: 09/22/2020

API No. 47- 103 - 03362

Operator's Well No. 8H

Well Pad Name: Michael Kuhn

Notice has been given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>540251.437</u>
County:	<u>Wetzel</u>		Northing:	<u>4385161.373</u>
District:	<u>Center</u>	Public Road Access:	<u>CR 19/3</u>	
Quadrangle:	<u>Big Run</u>	Generally used farm name:	<u>Rachel Elizabeth Wyatt & Sheldon R Norris</u>	
Watershed:	<u>Knob Fork of West Virginia Fork Fish Creek</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>		<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

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

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Office of Oil and Gas

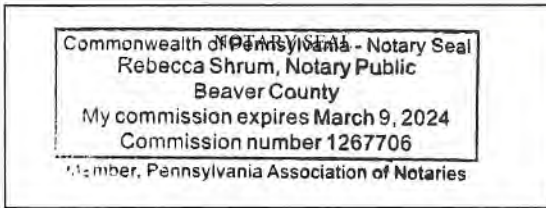
SEP 23 2020

West Virginia Department of
Environmental Protection

Certification of Notice is hereby given:

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

Well Operator:	<u>EQT Production Company</u>	Address:	<u>400 Woodcliff Drive</u>
By:	<u>John Zavatchan</u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Project Specialist - Permitting</u>	Facsimile:	<u>412-395-2974</u>
Telephone:	<u>724-746-9073</u>	Email:	<u>jzavatchan@eqt.com</u>



Subscribed and sworn before me this 22nd day of September, 2020
Rebecca Shrum Notary Public
 My Commission Expires March 9, 2024

Oil and Gas Privacy Notice:

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

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 Office of Oil and Gas
 SEP 23 2020
 WV Department of Environmental Protection

4710303362

WW-6A
(9-13)

API NO. 47- _____
OPERATOR WELL NO. 8H
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: 9/22/2020 **Date Permit Application Filed:** 9/22/2020

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: See Attached List
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: See Attached List
Address: _____

 COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached List
Address: _____

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attached List
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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4710303362

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

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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. 8H
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

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

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(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. 8H _____
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.

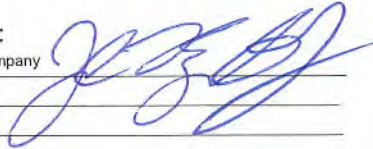
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(8-13)

API NO. 47- 4710303362
OPERATOR WELL NO. 8H
Well Pad Name: Michael Kuhn

Notice is hereby given by:

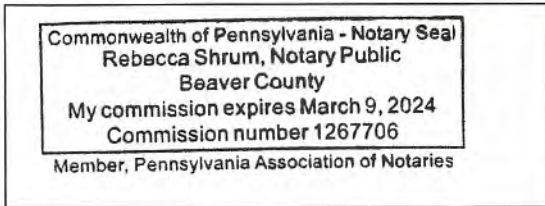
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com



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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 22nd day of September, 2020

Rebecca Shrum Notary Public

My Commission Expires March 9, 2024

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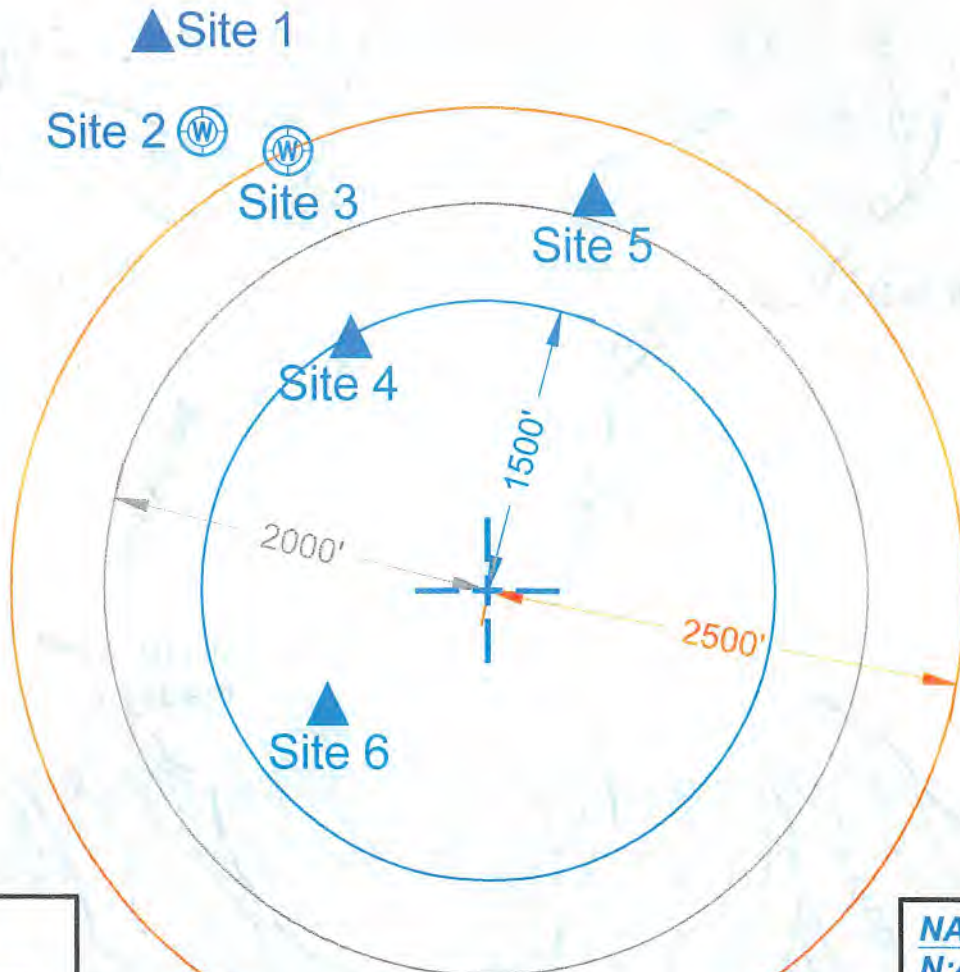
WV Department of
Environmental Protection

Topo Quad: Big Run 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'



LEGEND

Red Symbol - Declined Sampling
 Blue Symbol - Requested Sampling / Unable to Contact

- Well
- Spring
- Pond
- Building

NAD 27, North Zone
N:407833.78
E:1709459.12

WGS 84
LAT:39.615245
LONG:-80.531142
ELEV:1509'

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SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 400 Woodcliff Drive
 Canonsburg, PA 15317



Table 1 – Water Source Identification

EQT Well Pad Name: Michael Kuhn (BIG 467)

Submittal Date: August 19, 2020

EQT Well Number: _____

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: _____

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: POND - Located about 200 ft. from road. Certifieds mailed 7/21/2020. Field visit 07/22/2020. Spoke to Mr. Rix who indicated he has two water wells and three 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: _____

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: WATER WELL - Well casing located by old home site. Certifieds mailed 7/21/2020. Field visit 07/22/2020.

Site Number: 3 Distance from Gas Well (feet): 2500 ±

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: _____

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: WATER WELL - Currently being used in home. Certifieds mailed 7/21/2020. Field visit 07/22/2020.

(Insert additional pages as needed)

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Site Number: 4 Distance from Gas Well (feet): 1471 ±

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: **39.618749, -80.533719** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **07/21/2020** 2nd: _____ Door Hanger Left: _____

Comments: **POND - Certified mailed 7/21/2020. Field visit 07/22/2020.**

- | |
|---|
| <input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact
<small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

Site Number: 5 Distance from Gas Well (feet): 2077 ±

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: **39.620800, -80.529246** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **07/21/2020** 2nd: _____ Door Hanger Left: _____

Comments: **POND - Certified mailed 7/21/2020. Field visit 07/22/2020.**

- | |
|---|
| <input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact
<small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

Site Number: 6 Distance from Gas Well (feet): 951 ±

Surface Owner / Occupant: **Rachel Elizabeth Wyatt & Sheldon R. Norris**

Address: **1132 Kodol Rd. Wileyville WV 26581** Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): **No**

Coordinates: **39.613548, -80.534100** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **07/21/2020** 2nd: _____ Door Hanger Left: _____

Comments: **POND – Located with aerial imagery. Certified mailed 7/21/2020. No response or any further contact.**

- | |
|---|
| <input type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input checked="" type="checkbox"/> Unable to Contact
<small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

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WW-6A4
(1/12)

Operator Well No. Michael Kuhn 8H

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

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

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

Date of Notice: 07/17/2020 **Date Permit Application Filed:** 09/22/2020

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

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

Name: Rachel Elizabeth Wyatt & Sheldon R Norris
Address: 1132 Kodol Rd
Wileyville, WV 26581

Name: _____
Address: _____

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>540251.437</u>
County:	<u>Wetzel</u>		Northing:	<u>4385161.373</u>
District:	<u>Center</u>	Public Road Access:		<u>CR 19/3</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:		<u>Michael Kuhn (Rachel Elizabeth Wyatt & Sheldon R Norris)</u>
Watershed:	<u>Knob Fork of West Virginia Fork Fish Creek</u>			

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 724-746-9073
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

Authorized Representative: John Zavatchan
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 724-746-9073
Email: jzavatchan@eqt.com
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.

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WW-6A5
(1/12)

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

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

Date of Notice: 09/22/2020 Date Permit Application Filed: 09/22/2020

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice):

Name: Rachel Elizabeth Wyatt & Sheldon R Norris Name:
Address: 1132 Kodol Rd Address:
Wileyville, WV 26581

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 540251.437
County: Wetzel Northing: 4385161.373
District: Center Public Road Access: CR 19/3
Quadrangle: Big Run Generally used farm name: Michael Kuhn (Rachel Elizabeth Wyatt & Sheldon R Norris)
Watershed: Knob Fork of West Virginia Fork Fish Creek

This Notice Shall Include:

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

Well Operator: EQT Production Company Address: 400 Woodcliff Drive
Telephone: 724-746-9073 Canonsburg, PA 15317
Email: jzavatchan@eqt.com 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.

RECEIVED
Office of Oil and Gas
SEP 23 2020
WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

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

July 27, 2020 ✓

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 8H 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 MP 2.34 SLS.

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.

Very Truly Yours,

Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office O&G Coordinator

Cc: John Zavatchan
 EQT Production Company
 CH, OM, D-6
 File

RECEIVED
 Office of Oil and Gas

SEP 23 2020

WV Department of
 Environmental Protection

Anticipated Frac Additives ✓
Chemical Names and CAS numbers ✓

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

RECEIVED
Office of Oil and Gas

SEP 23 2020

WV Department of
Environmental Protection

MICHAEL KUHN WELL LOCATIONS										
ASSIGNED WELL ID	API #	LAT(NAD83)	LONG(NAD83)	NORTHING(NAD83)	EASTING(NAD83)	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD 83 UTM METERS)	EASTING(NAD 83 UTM METERS)	
1H	47 10302775	39° 36' 54.98656	80° 31' 52.04943	407881.9520	1678025.847	407844.348	1709463.982	4385162.826	540246.834	
2H	47 10302932	39° 36' 54.84561	80° 31' 51.48261	407867.1830	1678070.036	407829.578	1709508.171	4385158.551	540260.372	
4H		39° 36' 55.07731	80° 31' 52.41440	407891.4617	1677997.394	407853.858	1709435.510	4385165.576	540238.118	
6H		39° 36' 55.03193	80° 31' 52.23192	407886.7068	1678011.621	407849.103	1709449.756	4385164.202	540242.476	
8H		39° 36' 54.93862	80° 31' 51.85671	407876.9303	1678040.872	407839.326	1709479.007	4385161.373	540251.437	
10H		39° 36' 54.89325	80° 31' 51.67422	407872.1755	1678055.098	407834.571	1709493.233	4385159.096	540255.796	
12H		39° 36' 54.79796	80° 31' 51.29100	407862.1904	1678064.974	407824.585	1709523.109	4385157.106	540264.949	
14H		39° 36' 54.75258	80° 31' 51.10852	407857.4356	1678099.200	407819.830	1709537.335	4385155.730	540269.307	
16H		39° 36' 54.70720	80° 31' 50.92604	407852.6807	1678113.427	407815.075	1709551.561	4385154.354	540273.665	

EROSION & SEDIMENTATION

MICHAEL KUHN

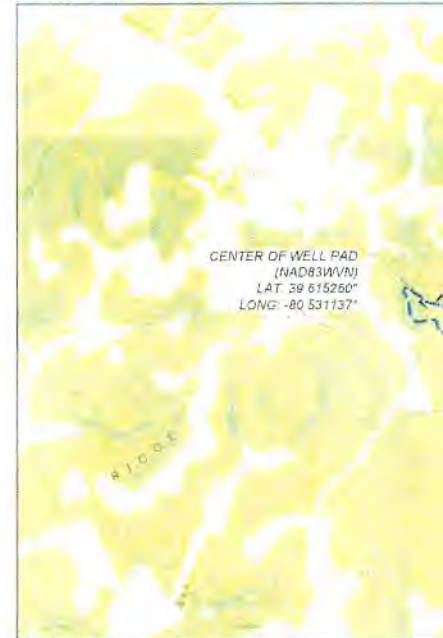
WETZEL COUNTY

FOR

EQT PRODUCT

DISTURBANCE BREAKDOWN				
STOCKPILES	COUNTY ROUTE	WELL PAD ACCESS	WELL PAD EXPANSION	TOTAL DISTURBANCE
5.30 AC	1.33 AC	0.48 AC	5.14 AC	12.25 AC

LANDOWNER DISTURBANCE BREAKDOWN					
LANDOWNER	DISTURBANCE FROM STOCKPILES	DISTURBANCE FROM COUNTY ROUTE	DISTURBANCE FROM ACCESS ROAD	DISTURBANCE FROM WELL PAD EXPANSION	TOTAL DISTURBANCE
KUHN MICHAEL G 52 01 20 0031 0000 0000	0.21 AC	N/A	N/A	N/A	0.21 AC
KUHN MICHAEL G 52 01 20 0032 0000 0000	3.92 AC	0.67 AC	0.01 AC	4.63 AC	9.21 AC
KUHN MICHAEL G 52 01 20 0036 0000 0000	1.31 AC	0.65 AC	0.47 AC	0.57 AC	3.00 AC



REFERENCES: UNITED STATES GEOLOGICAL SURVEY - BIG RUN



PROJECT NO
AUGUST

DIEFFENBAUCH



Know what's below.
Call before you dig.



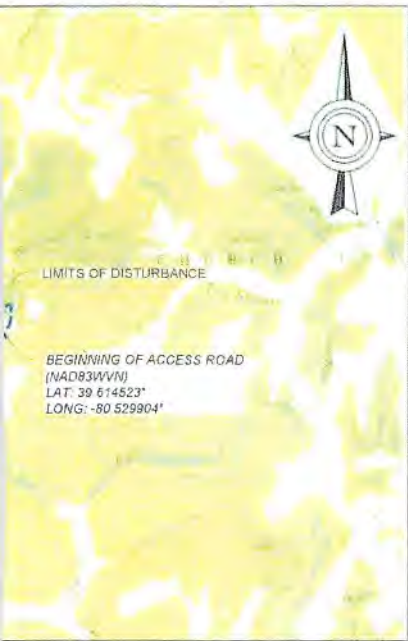
ENVIRONMENTAL CONTROL PLAN

FOR AN OIL WELL SITE

MORGAN COUNTY, WV

FOR EOT PRODUCTION COMPANY

NO.	DATE	REVISION
TMR DRAWN		
BLB CHECKED		
RCL APPROVED		
AUG 2020 DATE		
20070-005 PROJECT NO.		
DIEFFENBAUCH & HRITZ, LLC 109 Chapman Road, Suite 100 Morgantown, WV 26501 www.dandh.com P. 304.985.5555 F. 304.985.5557		
CLIENT	EOT PRODUCTION COMPANY	
PROJECT	MICHAEL KUHN WELL SITE WETZEL COUNTY, WV	
TITLE	TITLE SHEET	
	1	



INDEX	
DRAWING NO	TITLE
1	TITLE SHEET
2	AS-BUILT SITE PLAN
3	PROPOSED SITE PLAN
4	PROPOSED RESTORATION PLAN
5	COUNTY ROUTE AND ACCESS ROAD PROFILES
6-7	COUNTY ROUTE CROSS SECTIONS
8	ACCESS ROAD CROSS SECTIONS
9-11	E&S TYPICAL SECTIONS
12-13	E&S DETAILS

NO. LITTLETON QUADRANGLES, WV, 7.5 MINUTE SERIES

1000' 2000'

20070-005

AUG 2020

DIEFFENBAUCH & HRITZ, LLC

DMH 9/16/20

RECEIVED
Office of Oil and Gas
SEP 23 2020
WV Department of
Environmental Protection

EARTHWORK QUANTITIES (CY)

	CUT	FILL	
WELL PAD EXPANSION & METER PAD	29,026	318	
RELOCATED ROAD	360	33	
OVERALL CUT/FILL BALANCE	29,386	351	29,035

SOIL STOCKPILE ¹			29,035
GRAVEL			1,088

1. EXCESS MATERIAL STOCKPILES DESIGNED ASSUMING AT LEAST A 10% SWELL FACTOR IN ADDITION TO THE QUANTITIES LISTED ABOVE
2. EARTHWORK QUANTITIES REFLECT SUBGRADE ELEVATIONS IN AREAS PLANNED TO BE STONED

NOTES:

1. SURVEY AND STAKE OUT ARE ASSUMED TO BE COMPLETE.
2. AREAS THAT ARE NOT TO BE DISTURBED DURING CONSTRUCTION ARE TO BE CLEARLY MARKED BEFORE BEGINNING WORK ON-SITE.
3. MAKE ONE CALL TO MARK UTILITIES. CONTRACTORS SHALL BE RESPONSIBLE FOR ANY PRIVATE UTILITY LINES ON-SITE THAT HAVE NOT BEEN MARKED BY THE UTILITY COMPANIES.
4. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES AND SHALL CONSIST OF MATERIAL HAVING A PARTICLE SIZE NO LARGER THAN 6 INCHES. FILL MATERIAL CONSISTING OF ROCK SHALL BE PLACED IN LIFTS NOT TO EXCEED 36 INCHES. FILL MATERIAL SHALL BE FREE OF WET, FROZEN FOREIGN AND/OR OBJECTIONAL MATERIAL WHEN PLACED AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D-698)
5. THERE WILL BE NO DISCHARGE FROM THE WELL PAD DURING DRILLING ACTIVITIES.

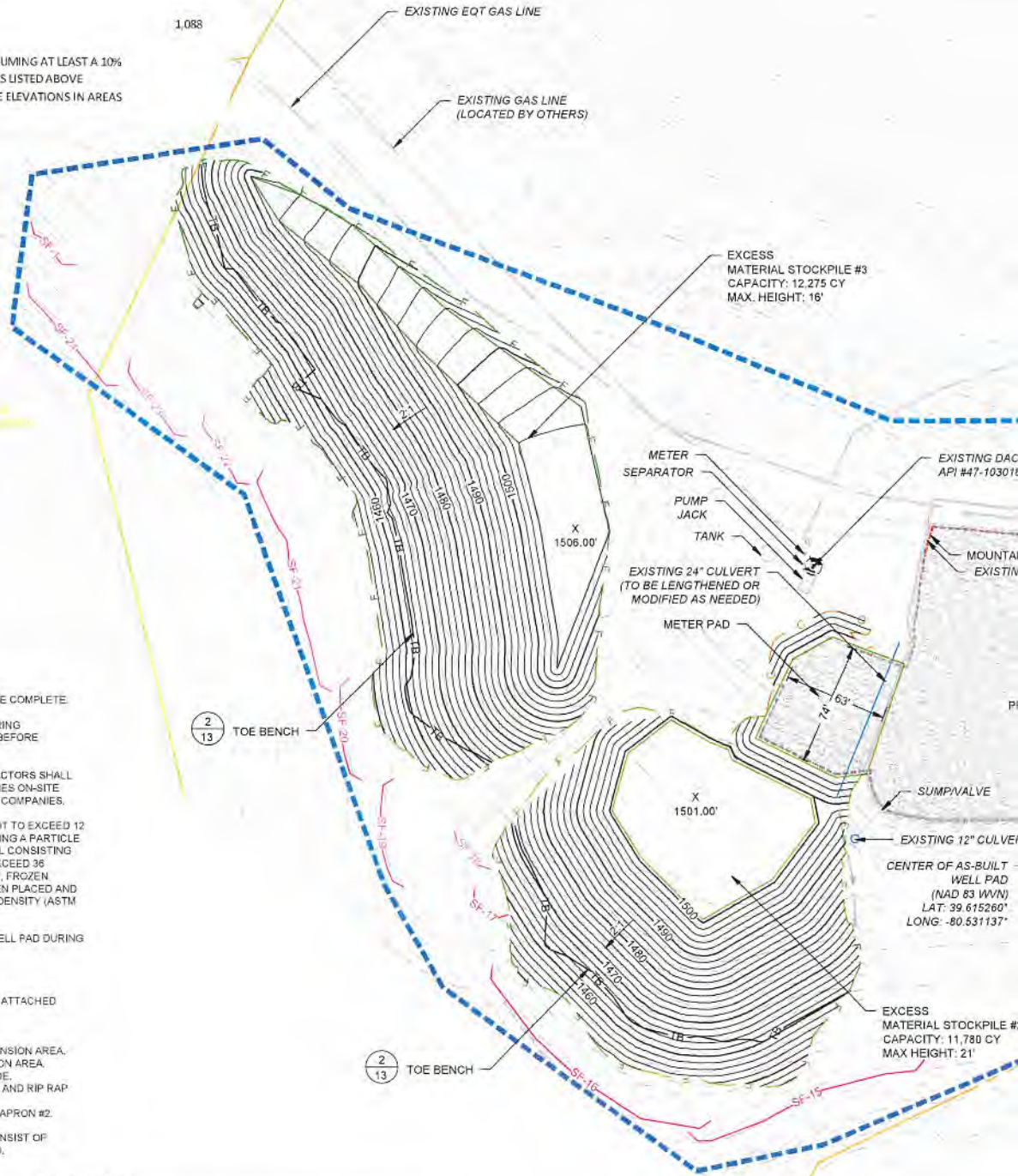
CONSTRUCTION SEQUENCE:

1. SILT FENCES ARE TO BE INSTALLED PER THE ATTACHED PLAN SET.
2. WELL PAD EXPANSION:
 - A. BEGIN CUT AND FILL PROCESS ON PAD EXPANSION AREA.
 - B. PLACE FABRIC AND STONE ON PAD EXPANSION AREA.
 - C. STONE WILL BE USED TO ACHIEVE PAD GRADE.
 - D. INSTALL COLLECTION DITCH #1, CULVERT #1, AND RIP RAP APRON #1.
 - E. INSTALL COLLECTION DITCH #2 AND RIP RAP APRON #2.
3. COUNTY RE-ROUTE CONSTRUCTION WILL CONSIST OF
 - A. BEGIN CUT AND FILL PROCESS ON THE ROAD.
 - B. PLACE FABRIC AND STONE ON THE ROAD.

LEGEND

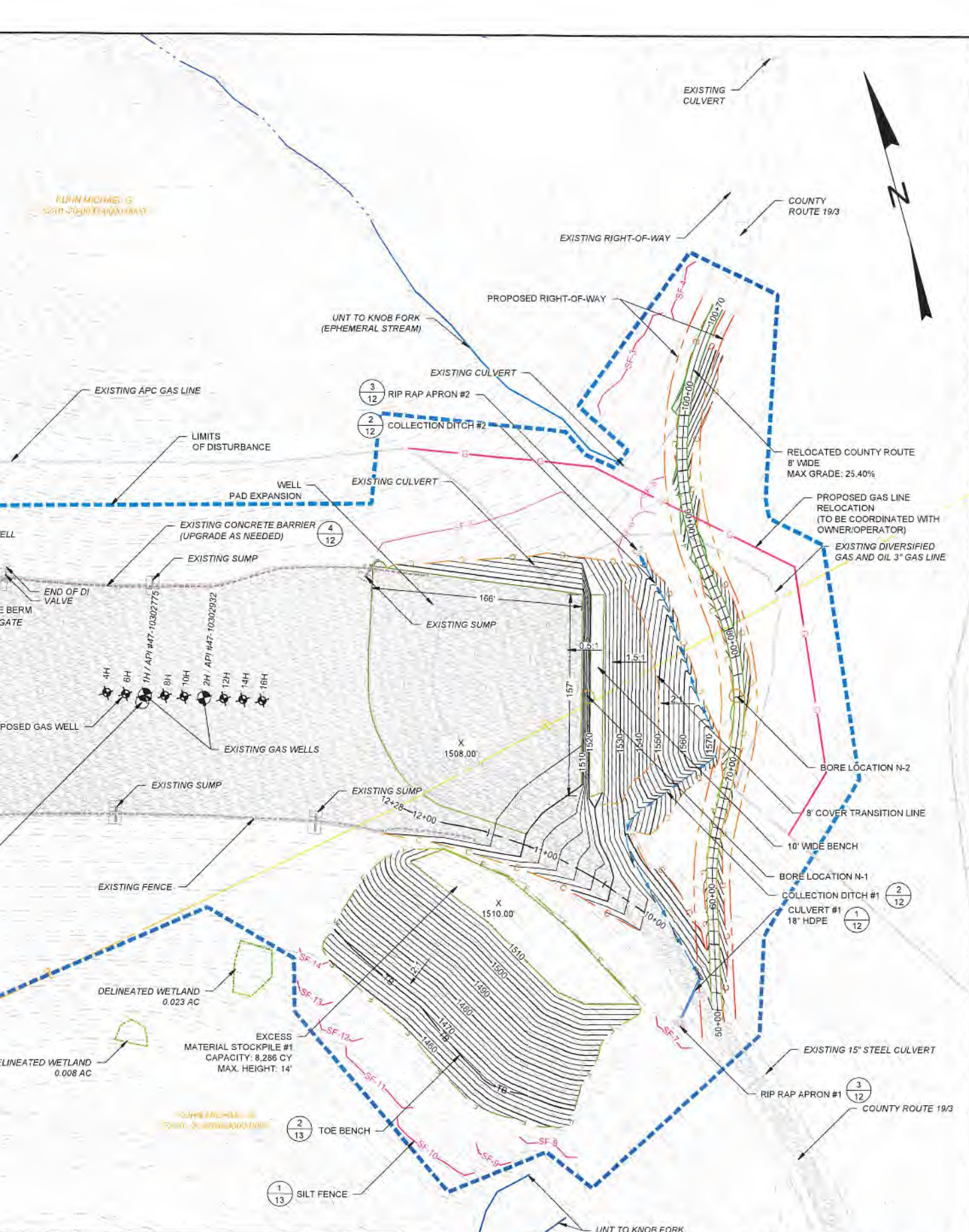
	EXISTING TREE LINE		EXISTING INDEX CONTOUR LINE (10')
	EXISTING ROAD		EXISTING INTERMEDIATE CONTOUR LINE
	EXISTING RIGHT-OF-WAY		PROPOSED INDEX CONTOUR LINE (10')
	PROPOSED RIGHT-OF-WAY		PROPOSED INTERMEDIATE CONTOUR LINE
	PROPERTY LINE		CHANNEL FLOW DIRECTION
	MUNICIPAL BOUNDARY		STREAM
	PROPOSED FENCE		DELINEATED STREAM
	EXISTING ELECTRIC LINE		DELINEATED WETLAND BOUNDARY
	EXISTING GAS LINE		FLOODWAY BOUNDARY
	PROPOSED GAS LINE		RIPARIAN BUFFER
	PROPOSED WATER LINE		SILT FENCE (SF)
	FILL LIMITS		TRIPLE CFS STACK / CFS SEDIMENT TRAP
	CUT LIMITS		EXISTING SPOT ELEVATION
	TOE BENCH WITH DRAIN		PROPOSED SPOT ELEVATION
	ROADWAY CENTERLINE		EXISTING STRUCTURE
	SAFETY BERM		PERMANENT PAVED
	LIMITS OF DISTURBANCE		TEMPORARY GRAVEL
	EXISTING UTILITY POLE		PERMANENT GRAVEL

SCALE: 0 50 FT.



ASSIGNED WELL ID	API #	LAT(NAD83)	LONG(NAD83)	NORTHING(NAD83)	EASTING(NAD83)
1H	47-10302775	39° 36' 54.98656"	80° 31' 52.04943"	407881.9520	1678025.
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16H		39° 36' 54.70720"	80° 31' 50.92604"	407852.6807	1678113.

SCALE: 1:100 PLOTTED 9/8/2020 10:27 AM FILE: X:SOIL AND GAS/EQT/2020/0070-006 - MICHAEL KUHN/CADD (K DRIVE) - PAIPLANS/E&SD03_PROPOSED SITE PLAN.DWG



WELL LOCATIONS

WELL NO.	NORTHING [NAD 27]	EASTING [NAD 27]	NORTHING [NAD 83 UTM METERS]	EASTING [NAD 83 UTM METERS]
3	407844.348	1709463.982	4385162.826	540246.834
4	407829.578	1709508.171	4385158.551	540260.372
5	407853.858	1709435.530	4385165.578	540238.118
6	407849.103	1709449.756	4385164.202	540242.476
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10	407819.830	1709537.335	4385155.730	540269.307
11	407815.075	1709551.561	4385154.354	540273.665

DMAH 9/16/20

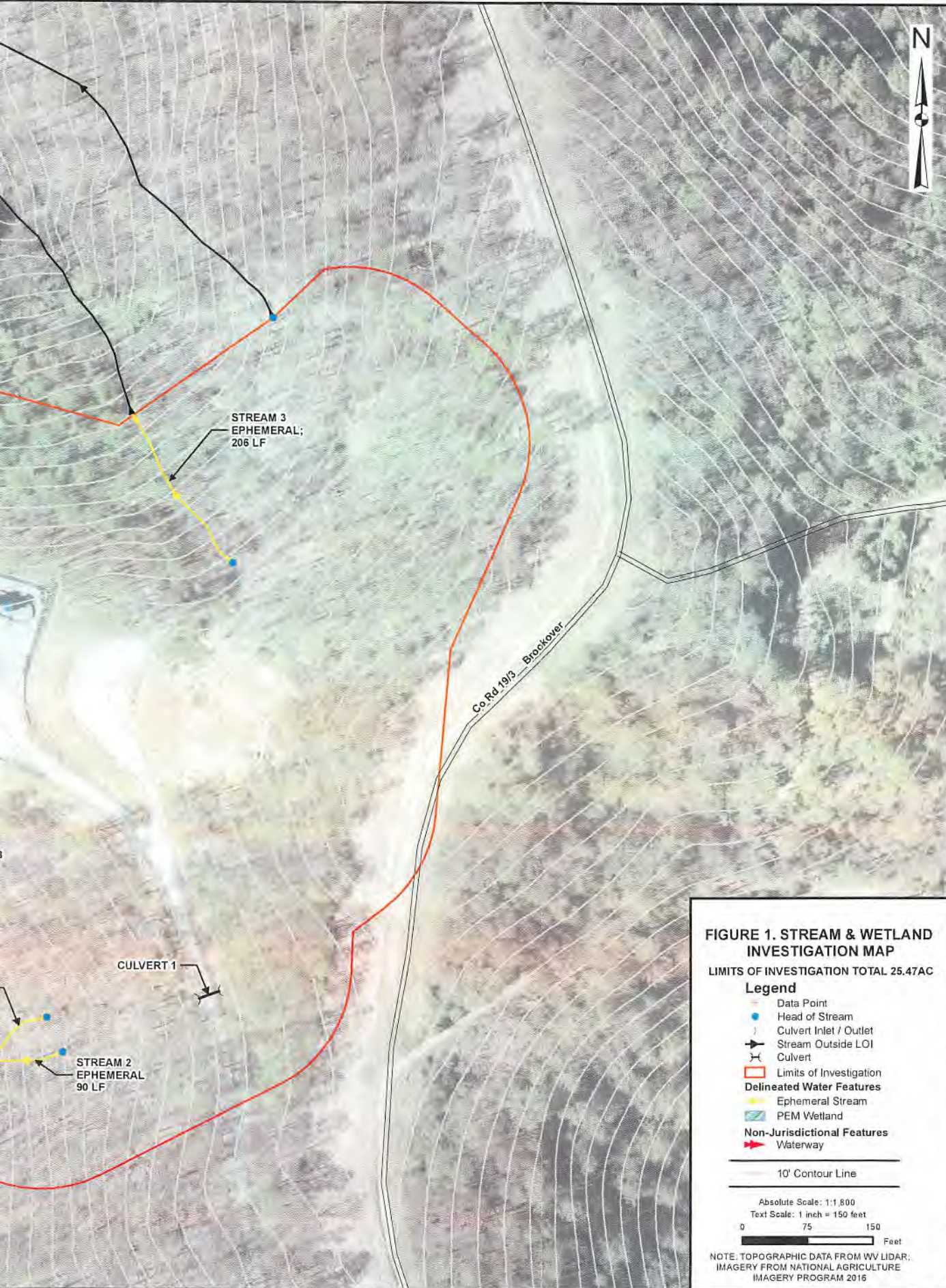


Know what's below.
Call before you dig.



REVISION	DATE	NO.	TMR DRAWN
			BLB CHECKED
			RCL APPROVED
			AUG 2020 DATE
			20070-005 PROJECT NO.
CLIENT EQT PRODUCTION COMPANY MICHAEL KUHN WELL SITE WETZEL COUNTY, WV			
PROJECT PROPOSED SITE PLAN			
TITLE 3			
DIEFFENBAUGH & HRTZ, LLC 1095 Chaplin Road, Suite 200 Morgantown, WV 26501 www.dandhengineers.com P: 304.985.5555 F: 304.985.5557			





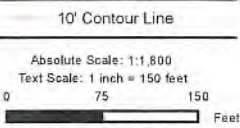
Revision	
No.	Date
MWW	Drawn
ZTF	Checked
CC	Approved
4/13/2020	Date
20070-005	Project No.
DIEFFENBAUCH & HRITZ 1035 Chapin Road, Suite 200 Morgantown, WV 26501 www.dieffenbauchengineers.com P. 304.363.5555 F. 304.563.5557	
EQT PRODUCTION COMPANY	
MICHAEL KUHN WELL SITE Wetzel County, West Virginia	
Client	Project
Page	
1 of 1	

FIGURE 1. STREAM & WETLAND INVESTIGATION MAP

LIMITS OF INVESTIGATION TOTAL 25.47AC

Legend

- Data Point
- Head of Stream
- Culvert Inlet / Outlet
- Stream Outside LOI
- Culvert
- Limits of Investigation
- Delineated Water Features**
- Ephemeral Stream
- PEM Wetland
- Non-Jurisdictional Features**
- Waterway



NOTE: TOPOGRAPHIC DATA FROM WV LIDAR; IMAGERY FROM NATIONAL AGRICULTURE IMAGERY PROGRAM 2016

EARTHWORK QUANTITIES (CY)

	CUT	FILL	
WELL PAD EXPANSION	28,866	0	
RELOCATED ROAD	360	33	
OVERALL CUT/FILL BALANCE	29,226	33	29,193
SOIL STOCKPILE ¹			29,193
GRAVEL			930

1. EXCESS MATERIAL STOCKPILES DESIGNED ASSUMING AT LEAST A 10% SWELL FACTOR IN ADDITION TO THE QUANTITIES LISTED ABOVE
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LEGEND

	EXISTING TREE LINE		EXISTING INDEX CONTOUR LINE (10')
	EXISTING ROAD		EXISTING INTERMEDIATE CONTOUR LINE
	EXISTING RIGHT-OF-WAY		PROPOSED INDEX CONTOUR LINE (10')
	PROPOSED RIGHT-OF-WAY		PROPOSED INTERMEDIATE CONTOUR LINE
	PROPERTY LINE		CHANNEL FLOW DIRECTION
	MUNICIPAL BOUNDARY		STREAM
	PROPOSED FENCE		DELINEATED STREAM
	EXISTING FENCE		DELINEATED WETLAND BOUNDARY
	EXISTING ELECTRIC LINE		FLOODWAY BOUNDARY
	EXISTING GAS LINE		RIPIARIAN BUFFER
	PROPOSED GAS LINE		SILT FENCE (SF)
	PROPOSED WATER LINE		TRIPLE CFS STACK / CFS SEDIMENT TRAP
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	CUT LIMITS		PROPOSED SPOT ELEVATION
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	ROADWAY CENTERLINE		PERMANENT PAVED
	SAFETY BERM		TEMPORARY GRAVEL
	LIMITS OF DISTURBANCE		PERMANENT GRAVEL
	EXISTING UTILITY POLE		

SCALE: 0 50 FT.

TAX ROBERT E & LINDA F
2000-2000-2000

EXISTING EQT GAS LINE

EXISTING GAS LINE
(LOCATED BY OTHERS)

EXCESS MATERIAL STOCKPILE #3
CAPACITY: 13,234 CY
MAX. HEIGHT: 16'

EXISTING DAC
API #47-103018

TOE BENCH

TOE BENCH

CENTER OF AS-BUILT
WELL PAD
(NAD 83 WVN)
LAT: 39 615260"
LONG: -80 531137"

EXCESS MATERIAL STOCKPILE #2
CAPACITY: 10,867 CY
MAX. HEIGHT: 20'

RECEIVED
Office of Oil and Gas

SEP 23 2020

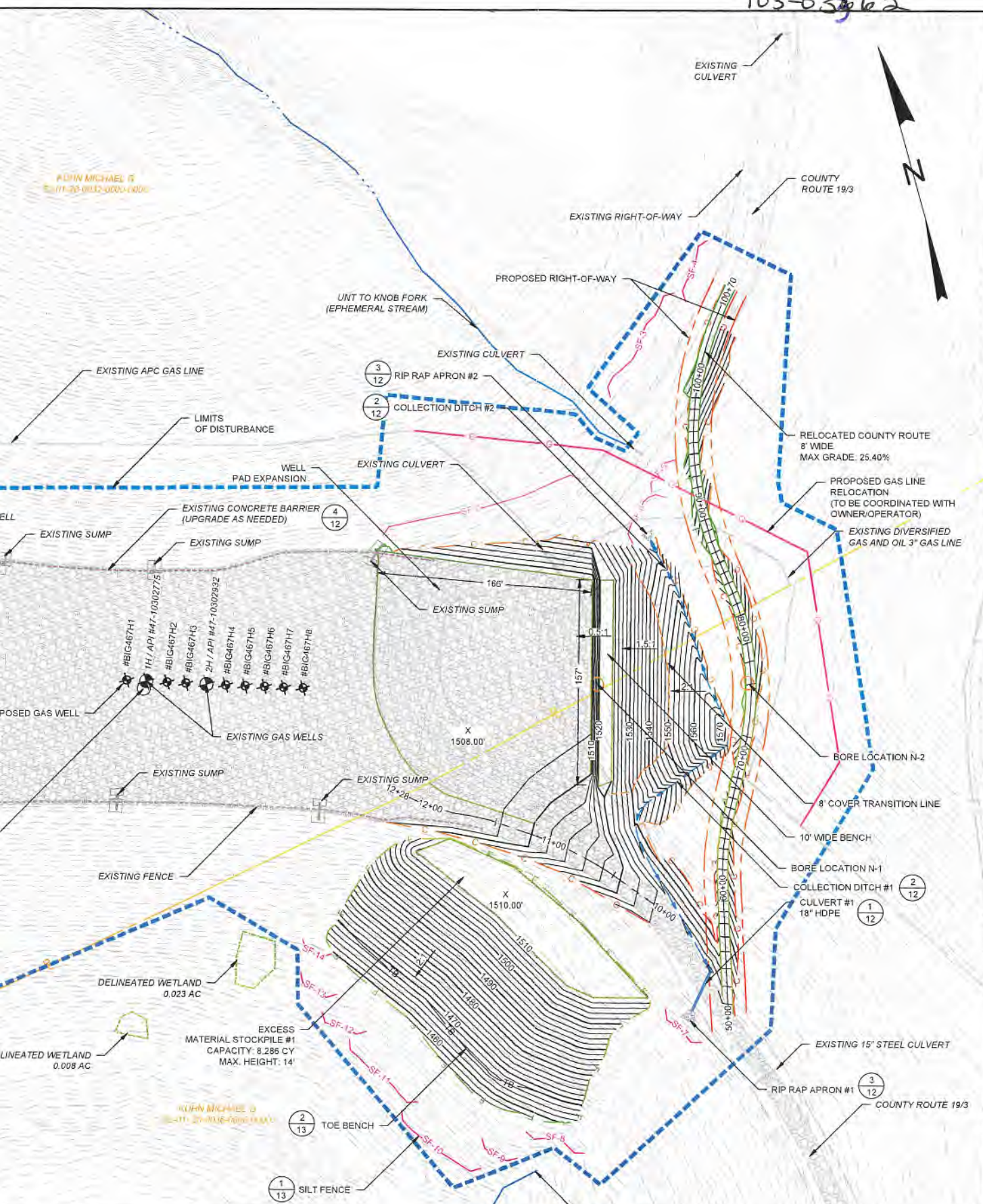
WV Department of
Environmental Protection

MICHAEL KUHN

ASSIGNED WELL ID	API #	LAT(NAD83)	LONG(NAD83)	NORTHING(NAD83)	EASTING(N)
1H	47-10302775	39° 36' 54.97200"	80° 31' 52.03201"	407880.454	1678027.
2H	47-10302932	39° 36' 54.85400"	80° 31' 52.03200"	407869.537	1678027.
BIG467H1		39° 36' 55.03147"	80° 31' 52.23218"	407886.660	1678011.
BIG467H2		39° 36' 54.93865"	80° 31' 51.85456"	407876.930	1678041.
BIG467H3		39° 36' 54.89345"	80° 31' 51.67753"	407872.200	1678054.
BIG467H4		39° 36' 54.80233"	80° 31' 51.29942"	407862.640	1678084.
BIG467H5		39° 36' 54.75908"	80° 31' 51.11528"	407858.100	1678098.
BIG467H6		39° 36' 54.71583"	80° 31' 50.93314"	407853.550	1678112.
BIG467H7		39° 36' 54.67259"	80° 31' 50.75002"	407849.020	1678127.
BIG467H8		39° 36' 54.62933"	80° 31' 50.56688"	407844.480	1678141.

SCALE: 1:100 PLOTTED: 4/23/2020 11:01 AM FILE: X:\OIL AND GAS\EQT\2020\0070-005 - MICHAEL KUHN\CADD (K DRIVE) - PA\PLANS\EQS\S\003_PROPOSED SITE PLAN.DWG

103-03962



WELL LOCATIONS

WELL NO.	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD 83 UTM METERS)	EASTING(NAD 83 UTM METERS)
1	407842.860	1709465.329	4385162.380	540247.252
2	407831.933	1709465.205	4385159.050	540247.270
3	407849.056	1709448.735	4385164.188	540242.470
4	407839.326	1709479.175	4385161.373	540251.489
5	407834.595	1709492.975	4385160.002	540255.717
6	407825.035	1709522.455	4385157.240	540264.747
7	407820.494	1709536.735	4385155.929	540269.121
8	407815.954	1709551.015	4385154.619	540273.494
9	407811.414	1709565.294	4385153.308	540277.868
10	407806.873	1709579.574	4385151.998	540282.242



REVISION:	DATE:	NO.:
TMR DRAWN		
BLB CHECKED		
RCL APPROVED		
APR 2020 DATE		
20070-005 PROJECT NO.		
DIFFENBAUCH & HRITZ, LLC 1055 Chaplin Road Martinsburg, WV 26040 www.dandhengineers.com P. 304.985.5555 F. 304.985.5557		
EQT PRODUCTION COMPANY		
MICHAEL KUHN WELL SITE WETZEL COUNTY, WV		
PROPOSED SITE PLAN		
3		
DRAWING NO.		