west virginia department of environmental protection

## Office of Oil and Gas

$60157^{\text {th }}$ Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

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

Monday, September 11, 2023
WELL WORK PERMIT
Horizontal 6A / New Drill

## EQT PRODUCTION COMPANY

625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222
Re: Permit approval for Radcliff 10 H

$$
47-049-02512-00-00
$$

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) 9260450.


Operator's Well Number:
Farm Name:
U.S. WELL NUMBER:

Horizontal 6A New Drill
Date Issued: 9/11/2023

## 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 $\S 22-6 \mathrm{~A}-8 \mathrm{~g}(6)(\mathrm{B})$ 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 rale 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. 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. Also, 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.
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.

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

1) Well Operator: EQT Production Company |  | 306686 | Marion | Mannington | Glover Gap |
| :--- | :--- | :--- | :--- | :--- |
|  | Operator ID | County | District Quadrangle |  |
2) Operator's Well Number: 10 H

Well Pad Name: Radcliff
3) Farm Name/Surface Owner: Jackie D. \& Sheila L. Radciff Public Road Access: CR 4/4
4) Elevation, current ground: 1,493' (built) Elevation, proposed post-construction: $\underline{1,493^{\prime}}$
5) Well Type
(a) Gas $\times$

Oil $\qquad$ Underground Storage $\qquad$
Other
(b)If Gas
Shallow $X$
Horizontal
$X$
6) Existing Pad: Yes or No Yes
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus, 7,916', 78', 2,593 psi
8) Proposed Total Vertical Depth: 7,916'
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: $19,442^{\prime}$
11) Proposed Horizontal Leg Length: $11,111^{\circ}$
12) Approximate Fresh Water Strata Depths: $\quad 460^{\prime}, 490^{\prime}, 621^{\prime}, 751^{\prime}$
13) Method to Determine Fresh Water Depths: Offset Weils - 049-02184, 049-00699, 049-00168, 049-30339, 049-30238
14) Approximate Saltwater Depths: $\underline{1,856 ', 2,127^{\prime}, 2,247^{\prime}}$
15) Approximate Coal Seam Depths: $1,200^{\prime}-1,206^{\prime}, 1,297^{\prime}-1,304^{\prime}$
16) Approximate Depth to Possible Void (coal mine. karst, other): N/A
17) Does Proposed well jocation contain coal seams directly overlying or adjacent to an active mine?

Yes $\qquad$ No $X$
(a) If Yes provide Mine Info: Name:

Depth:

Environmentarmentry of

WW-6B
(04/15)

API NO. 47- $\qquad$ $-$

OPERATOR WELL NO. 10 H
Well Pad Name: Roar
18)

CASING AND TUBING PROGRAM




## PACKERS

| Kind: |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Sizes: |  |  |  |  |
| Depths Set: |  |  |  |  |

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate: Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than $0.1 \%$ ) of chemicals (including 15\% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately $10,000 \mathrm{psi}$, 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.

2!) Total Area to be disturbed, including roads, stockpile area. pits, etc., (acres): 17.33 (built)
22) Area to be disturbed for well pad only, less access road (acres): 5.19 (built)
23) Describe centralizer placement for each casing string:

- Slriace: Bow spring centralizers - One centralizer at the shoe and one spaced every 500'.
- Inter mediate: Bow spring centralizers- One centralizer at the shoe and one spaced every 500'.
- Proci. ction: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.
$2+j)$ escrive all cement additives associated with each cement type:

$$
\begin{aligned}
& \text { Cone, stor: Class A no additives } \\
& \text { Surface: Calcium Chloride. Used to speed the setting of cement slurries } \\
& \text { Intermediate: Caichum Chlorice. Used to speed the setting of cement slurries. } \\
& \text { Production: Calcium Carbonate. Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, } \\
& \text { Anti-Setting/Suspension Agent. }
\end{aligned}
$$

25; ${ }^{2 r}$ opposed borehole conditioning procedures:
Surface: Circulate hole clean while rotating \& reciprocating the drill string until cuttingsidiminish at surface.
Intermediate: Circulate hole clean while rotating \& reciprocating the drill string undid cuttings diminish at surface.
Prociuction: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volu : :s of cuttings coring across the shakers every 15 minutes.
cmironmental Protection
*Note: Attach additional sheets as needed.



| EQT Production |  |  | Wellbore Diagram |
| :--- | :--- | :--- | :--- |
| Well: | Radcliff 10H | County: | Marion |
| Pad: | Radcliff | State: | West Virginia |
| Elevation: | 1493' GL | 1506' KB |  |

Conductor @ 40
26", 85.6, A252 GR3 Bare, cement to surface w/ Class A/L

Surface @ 1,354
13-3/8", 54.5\#, J-55, cement to surface w/ Class A/L

## Intermediate <br> @ 2,721'

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

Formation: Marcel!Ls
west virginia department of environmental protection

|  | west virginia department of environmental protection |
| :--- | ---: |
| Office of Oil and Gas | Earl Ray Tomblin, Govemot |
| $60157^{\text {th }}$ Street, SE |  |
| Charleston, WV 25304 |  |
| (304) 926 .-0450 Huffman, Cabinet Secretary |  |
| (304) $926-0452$ fax |  |
| dep.wv gov |  |

March 18, 2014

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

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

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

RECEIVED
If you have any questions regarding this matter feel free to contact me at 304-926-8ffig9, of Oil and Gas ext. 1653.

AUG 092023

west virginia department of environmental protection

Office of Oil and Gas
$60157^{\text {th }}$ Street, SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

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

BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA
IN THE MATTER OF A VARIANCE FROM )
REGULATION 35 CSR § 4-11.4/11.5/14.1 )
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE )
THE OPERATIONAL )
REGULATIONS OF CEMENTING OIL )
AND GAS WELLS

ORDER NO. 2014-17)
)

## REPORT OF THE OFFICE

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

## FINDINGS OF FACT

1.) Nabors Completion \& Production Services Co. proposes the following cement blend:

- $2 \%$ Calcium Chloride (Accelerator)
- 0.25 \% Super Flake (Lost Circulation)
- $94 \%$ Type "1" Cement
- $5.20 \%$ Water
2.) Laboratory testing results indicate that the blend listed in Fact No. 1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.



## 4704902512

## CONCLUSIONS OF LAW

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

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

## ORDER

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

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

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


James Martin, Chief Office of Oil and Gas

REfing i Oill and Gas
AUG 092023

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\begin{aligned}
& \text { WV Department of } \\
& \text { Environmental Protection }
\end{aligned}
$$

EOT PRODUCTION COMPANY 400 Woodeliff Drive | Canonsburg, PA 15317

July 27, 2023

## Mr. Taylor Brewer

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
Re: Casing on Radcliff 10 H
Dear Mr. Brewer,
The $13-3 / 8^{\prime \prime}$ surface casing will be set at $1,354^{\prime} \mathrm{KB}, 50^{\prime}$ below the deepest workable coal seam, 603' below the deepest fresh water.

The $9-5 / 8^{\prime \prime}$ intermediate string will be set at $2,721^{\prime} \mathrm{KB}, 50^{\prime}$ below the base of the Big Injun formation.

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

Sincerely,


John Zavatchan
Project Specialist - Permitting

Enc.

July 27, 2023

Mr. Taylor Brewer<br>West Virginia Department of Environmental Protection<br>Office of Oil and Gas<br>601 57th Street SE<br>Charleston, WV 25304<br>Re: Class L Cement Variance Request<br>Radcliff 10H Well<br>Mannington District, Marion County

Dear Mr. Brewer,
EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class $L$ cement, if necessary, in place of Class $A$ cement for its cement jobs.

The variance request from Legislative Rule 35CSR8, Section 9.2.h.8, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13,2022 . A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 724.746-9073.
office al ait and Gas
Sincerely,


John Zavatchan
Project Specialist - Permitting

Enc.

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

| IN THE MATTER OF A VARIANCE FROM | ) |
| :--- | :--- |
| LEGISLATIVE RULE 35CSR4 |  |
| SECTION 11.5 AND LEGISLATIVE RULE | ) |
| 35CSR8 SECTION 9.2.h.8., |  |
| RELATING TO THE CEMENTING |  |
| OF OIL AND GAS WELLS |  |

## REPORT OF THE OFFICE

RECEVED Office of Oil and Gas
AUG 092023
In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American/Rotedtegrif itstitute (API) Class L cement to be used in place of API Class A cement for wellenvistryefotin.

## FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.
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## 4704902512

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

## CONCLUSIONS OF LAW

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

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

## ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

## IN THE NAME OF THE STATE OF WEST VIRGINIA

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


## 4704902512

EQT Production<br>Hydraulic Fracturing Monitoring Plan<br>Pad ID: Radcliff<br>County: Marion

July 27, 2023


## Purpose

## 4704902512

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Radcliff pad: $4 \mathrm{H}, 6 \mathrm{H}, 8 \mathrm{H}, 10 \mathrm{H}, \mathbf{1 2 H}, 14 \mathrm{H}, 16 \mathrm{H}$ and $\mathbf{1 8 H}$.

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 $\mathbf{A}$.

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

EQT will recommend to these operators at a minimum to:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomaties 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 everg 8068 noted abnormalities.

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## API Number 47 -

$\qquad$ -
Operator's Well No. Radcliff 10 H

## 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) Bartholomew Fork
Quadrangle Glover Gap
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes $\qquad$ No $\square$ Will a pit be used? Yes $\square$ No $\boxed{\square}$

If so, please describe anticipated pit waste: N/A
Will a synthetic liner be used in the pit? Yes $\square$ No $\square$ If so, what ml ? $\mathrm{N} / \mathrm{A}$
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: $\begin{aligned} & \text { Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are } \\ & \text { then prepared for transportation to an offsite disposal facility. }\end{aligned}$ 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? $\qquad$ 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 informally application form and all attachments thereto and that, based on my inquiry of those individualfidmotequinterly 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.


Subscribed and sworn before me this $\qquad$ , 2023


## 4704902512

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.

EQT Production Company
Proposed Revegetation Treatment: Acres Disturbed $\qquad$ Prevegetation pH $\qquad$
Lime 3 $\qquad$ Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20
Fertilizer amount 500 lbs/acre

Mulch $\qquad$ 2 Tons/acre

Seed Mixtures

|  | Temporary |
| :--- | :---: |
| Seed Type | lbs/acre |
| KY-31 | 40 |
| Alsike Clover | 5 |
| Annual Rye | 15 |

Permanent

| Seed Type <br> Orchard Grass | lbs/acre |
| :--- | :--- |
| Alsike Clover | 5 |

$\qquad$

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 ( $\mathrm{L} \times \mathrm{W} \times \mathrm{D}$ ) of the pit, and dimensions ( $\mathrm{L} \times \mathrm{W}$ ), and area in acreage, of the land application area

Photocopied section of involved 7.5' topographic sheet.

Comments: $\qquad$ Pre-seed/mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade E\&S as necessary per WV DEP E\&S Manuel i in and
Plan Approved by:

$\qquad$
$\qquad$
$\qquad$
 Date: Ant. 2, 2023
Field Reviewed?
 Yes $\square$ No


|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Facility Name - Anderen |  |  |  |  |  |  |  |  |  |
| CWS Trucking inc. | Address | Address 2 | City | State | Zip | Phone | County | State | Permit Number |
|  | P. $0.80 \times 391$ |  | Williamstown | wv | 26187 | 740-516-3586 | Noble | OH | 3390 |
| Broad Street Energy LIC | 37 West Broad Street |  |  |  |  |  |  |  |  |
|  | 37 West Broad Street | Suite 1100 | Codumbus | OH | 43215 | 740-516-5381 | Washingotn | OH | 8462 |
| LAD Liquid Assets Disposal Inc. | 226 Rankin Road |  |  |  |  |  |  |  |  |
|  |  |  | Washington | PA | 15301 | 724-350-2760 | Ohio | wo | USEPA WV $\overline{0014}$ |
| Triad Energl | PO Box 430 |  |  |  |  |  |  |  |  |
|  |  |  | Reno | OH | 45773 | 740-516-6021 | Noble | OH | 4037 |
|  |  |  |  |  |  | 740-374-2940 |  |  |  |
| Tri County Waste Water Management, inc. | 1487 Toms Run Road |  |  |  |  |  |  |  |  |
|  |  |  | Hoibrook | PA | 15341 | 724-627-7178 | Greene | PA | TC-1009 |
|  |  |  |  |  |  | 724-499.5647 |  |  |  |
| King Excavating Co. Advance Waste Services | 101 River Park Drive |  | New Castle |  |  |  |  |  |  |
|  |  |  | New Castle | PA | 16101 |  | Lawrence | PA | PAROOOO29132 |
| Waste Management - Meadowfill Landifil | Rt. 2, Box 68 Dawson Drive |  | Bridgeport | wv | 16330 |  |  |  |  |
|  |  |  | - | W | 16330 | 304-326-6027 | Harison | w | SWF-1032-98 |
| Waste Management - Northwestern Landfill |  |  |  |  |  |  |  |  | Approval \#100785wV |
|  | 512 E. Dry Road |  | Parkersburg | w | 26104 |  |  |  |  |
|  |  |  |  |  | 26.04 | 304-428-0602 | Wood | wv | SWF-2025 WV-0109400 |
| APEX Landfill | 11 County Road 78 | POB0× 57 | Amsterdam | OH | 43903 | 740-543-4389 | jefferson | OH |  |
|  |  |  |  |  |  |  |  | OH | 06-08438 |
| Advanced Disposal - Chestruit Valley Landfill | 1184 McClelliandtown Road |  | McClellandown | PA | 15458 |  |  |  |  |
|  |  |  | Ma- |  | 15458 | 724-437.7336 | Fayette | PA | 100419 |
| Westmoreland Sanitary Landfili | 901 Trrol Boulevard |  | Belle vernon | PA | 15012 | 724-929-7694 | Westmoreland | PA |  |
| Austin Master Services |  |  |  |  |  |  |  | PA | 100277 |
|  | 801 North 1st Street |  | Martins Ferry | OH | 43935 | 740-609-3800 | Belmont | OH | 2014-541 |
| Beiment 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 |  |
| Suckeye Brine | 23986 Airport Road |  | Coshocton | OH | 43812 | $\begin{aligned} & 740-610-1512 \\ & 724-591-4393 \end{aligned}$ | Coshocton | OH | $\begin{aligned} & 34-031-27177 \\ & 34-031-27178 \\ & 34-031-27241 \end{aligned}$ |
| Central Environmental Services | 28333 West Belpre Pike |  | Cootville | OH |  |  |  |  |  |
|  |  |  |  | OH | 45723 | 304-488-0701 | Athens | OH |  |
| Nuverra - Nichols | 10555 Veto Road |  | Belpre | OH | 45714 | 330-232-5041 |  |  |  |
|  |  |  |  |  |  | 30-232-5041 | Washington | OH | 34-119-2-8776 |
| Nuverra - Goff $\sum \sum \geq-\frac{0}{0}$ | 9350 East Pike Road |  | Norwich | OH | 43767 | 330-232-5041 | Muskingum | OH | 34-167-2-3862 |
| Nuverra-Wolf 38 co | 5480 State Route 5 |  |  |  |  |  |  |  |  |
|  |  |  | Newton Falls | OH | 44444 | 330-232-5041. | Trumbuli | OH | 34-155-2-1893 |
|  | 5310 State Route 5 |  | Nemonfall | OH | 4444 | 330-232-5041 | rumbull | OH | 34-155-2-3795 |
|  | 3549 Warner Road |  | Fowler | OH | 44418 | 330-232-5041 | Trumbull |  |  |
|  |  |  |  |  |  |  |  | Or | 34-155-2-2403 |


| FQ Helen | 199 Bowersack foad | Reno | OH | 45773 | $\begin{aligned} & 740-374-2940 \\ & 412-443-4397 \\ & 740-236-2135 \\ & \hline \end{aligned}$ | Washington | OH | 34-167-2-9577 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FQ Dexter | 38505 Marietta Rd. | Dexter City | OH | 45727 | $\begin{aligned} & 740-374-2940 \\ & 412-443-4397 \\ & 740-236-2135 \\ & \hline \end{aligned}$ | Noble | OH | $\begin{array}{\|l\|} 34-121-24037 \\ 34-121-24086 \\ \hline \end{array}$ |
| FQ Ritchie | 222 Lonesome Pine Rd | Ellenboro | WV | 26346 | $\begin{aligned} & 740-374-2940 \\ & 412-443-4397 \\ & 740-236-2135 \end{aligned}$ | Ritchie | wv | 47-085-09721 |
| FQ Mills | 53610 TS Rd 706 | Portland | OH | 45770 | $\begin{aligned} & 740-374-2940 \\ & 412-443-4397 \\ & 740-236-2135 \end{aligned}$ | Meigs | OH | $\begin{aligned} & 34-105-2-3619 \\ & 34-105-2 \cdot 3652 \\ & 34-105-2 \cdot 3637 \\ & 34-105-2-3651 \end{aligned}$ |
| 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. | Tridelphia | w | 26059 | 740-255-5727 | Ohio | wi |  |
| Deep Rock Disposal | $23410 \mathrm{OH}-821$ | Marietta | OH | 45750 | 304-629-0176 | Washington | OH | 34-167-2-9766 |



## SITE SAFETY AND ENVIRONMENTAL PLAN

## Radcliff Well Site

## Mannington Marion County, WV

Wells: $1 \mathrm{H}-47-049-02281,2 \mathrm{H}-47-049-02282,4 \mathrm{H}, 6 \mathrm{H}, 8 \mathrm{H}, 10 \mathrm{H}$, $12 \mathrm{H}-47-049-02510,14 \mathrm{H}, 16 \mathrm{H}, 18 \mathrm{H}$

> Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC Approved By: Scott M. Held, Senior Safety Coordinator Created Date: $\underline{8-A p r-21}$


John Zavatchan
Project Specialist - Permitting EQT Production Company


Oil and Gas Inspector WVDEP Office of Oil and Gas





## 4704902512

## INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE

Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)
Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -
(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or
Number
Grantor, Lessor, etc.
Grantee, Lessee, etc.
Royalty
Book/Page

## See Attached

## 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. Amry 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 oaddfaes, replaces. or nullifies the need for other permits/approvals that may be necessary and further affirms that allemeded permits/approvals should be acquired from the appropriate authority before the affected activityppen intitact
Well Operator: $\frac{\text { EQT Production Company Gohn FGauatchas on }}{\text { Envon }}$

| By: | John Zavatchan |
| :--- | :--- |
| Its: | Project Specialist - Permitting |



# 4704902512 

June 27, 2023
Mr. Taylor Brewer
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Radcliff 10 H Gas Well
Mannington District, Marion County, WV

Dear Mr. Brewer,

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

Sincerely,


John Zavatchan
Project Specialist - Permitting

# STATE OF WEST VIRGINIA <br> DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION 

## Date of Notice Certification: <br> $\qquad$

## 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: | West Virginia | UT | Easting: | 548,256.818 |
| :---: | :---: | :---: | :---: | :---: |
| County: | Marion |  | Northing: | 4,382,161.564 |
| District: | Mannington | Public Road Ac | ss: | CR 4 |
| Quadrangle: | Glover Gap | Generally used | rm name: | Jackie D. Raddiff and Sheila L. Raddilf |

API No. 47--
Operator's Well No. 10 H
Well Pad Name: Radcliff

Watershed: Bartholomew Fork

Pursuant to West Virginia Code $\S 22-6 A-7(b)$, 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.

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:
*PLEASE CHECK ALL THAT APPLY

1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED


## Required Attachments:

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

## Certification of Notice is hereby given:

THEREFORE, I John Zavatchan

## 4704902512

 6 A. I certify that as required under West Virgin above, to the required parties through personal service, by registered mail or by attached copies of the Notice Forms, identified 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:
By:
Its:
Telephone:


| Address: |  |  |
| :--- | :--- | :---: |
|  | $\frac{400 \text { Woodcliff Drive }}{\text { Canonsburg, PA } 15317}$ |  |
| Facsimile: | $\frac{412-395-2974}{\text { jzavatchan@eqt.com }}$ |  |
| Email: |  |  |

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


## 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
> Otfice of Oil and Gas

$$
\text { AUG } 092023
$$

WV Department of
Environmental Protection Environmental Protection

# 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: ${ }^{7127 / 2023}$ Date Permit Application Filed: 8/8/2023

Notice of:

## (1) PERMIT FOR ANY <br> WELL WORK <br> CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

## $\square$ PERSONAL SERVICE <br> ( REGISTERED MAIL <br> $\square$ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION


#### Abstract

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.


$\square$ Application Notice $\square$ WSSP Notice $\quad$ E\&S Plan Notice $\square$ Well Plat Notice is hereby provided to:
$\square$ SURFACE OWNER(s)
Name: See Attached List
Address:
Name:
Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached List
Address:

## Name:

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


## -OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name:
Address:

[^2]
## Notice is hereby given:

Pursuant to West Virginia Code $\S 22-6 \mathrm{~A}-10$ (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.

RECEIVED
Additional information related to horizontal drilling may be obtained from the Segtretary, apthe and Gas partment of Environmental Protection headquarters, located at $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

## Well Location Restrictions

## w. Department of

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifffideraintateftigh 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
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 heatth 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:

## ECEIVED

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsectigi bid sectigiten of this article may file written comments with the secretary as to the location or construction of the applideffice proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code $809020(b)$ may file written comments as to the location or construction of the applicant's proposed well work to the Secretary Ald

Chief, Office of Oil and Gas
Department of Environmental Protection
$60157^{\text {th }} \mathrm{St}$. SE
Charleston, WV 25304
(304) 926-0450

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.

## 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 $\S 22-6 \mathrm{~A}-11(\mathrm{c})(2)$, 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 $\S 22-6 A-7(\mathrm{k})$, 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 $\S 22-6 \mathrm{~A}-10(\mathrm{~g})$, 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.
RECEIVF =as
Office of C
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Envirc

Notice is hereby given by:
Well Operator:EQT Production Company
Telephone: ${ }^{724-746-9073}$
Email: |zavatchan@eqtcom
Facsimile: ${ }^{412-395-2974}$

## Oil and Gas Privacy Notice:

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

```
Commonwealth of Pennsylvania - Notary Seal
    Rebecca Shrum, Notary Public
            Beaver County
My commission expires March 9, }202
    Commission number 1267706
Member, Pennsyivania Association of Notaries
```


$\qquad$ day of July, 2023 Notary Public

QECEIVED
of Oil and nos
AUG 09 20:3
WV Departme Environmental Proteciten

## Surface Owners:

Jackie D. Radcliff and Sheila L. Radcliff


161 Cabin Creek Rd.
Mannington, WV 26582

## Surface Owners (road, AST, or other disturbance):

Jason G. Stout
637 Upper Murray Rd.
Mannington, WV 26582
Heather R. Stout
546 Upper Murray Rd.
Mannington, WV 26582
Lula B. Knight
638 Upper Murray Rd.
Mannington, WV 26582
Clarence W. Sweeney, et. al.
PO Box 219
Fairmont, WV 26555

## Coal Owners:

Consol Mining Company
1000 Consol Energy Drive
Canonsburg, PA 15317
Douglas A. Gwinn
95 Sabraton Avenue
Fairmont, WV 26554
Rebecca Shuttesworth $\cdot \checkmark$
468 Katy Road
Fairmont, WV 26554
Cathie L. Ebert
506 Katy Road
Fairmont, WV 26554
Mike Ross, Inc. .
PO Box 219
Coalton, WV 26257
I.L. Morris

PO Box 397
Grenville, WV 26351
Cynthia Ann Gamer
314 Woodridge Drive
Locust Grove, GA 3024
Amy Renee Russell :
141 Lassie Lane
McDonough, GA 30253
j
Charles Stewart
181 East Chestnut Street
Blairsville, PA 15717

James R. Batson
3 Red Sky Dive
Morgantown, WV 26508
Sandra F. Hulsey
POBox 238
Worthington, WV 26591
Sharon D. Wight
209 Jefferson Street
Mannington, W 26582
Wiliam Willamson 21811 Aquasco Road
Aquasco, MD 20608
Water Supply Owners within $1,500^{\prime}$ :
Jason and Micheile Stout
637 Upper Murray Rd.
Mannington WW 26582
Jackie D. Radcliff and Sheiia L. Radcliff
161 Cabin Creek Rd.
Mannington, WV 26582
Shelly Nelson
325 Cabin Creek Rd.
Mannington WW 26582
$\qquad$
Scale: $\qquad$ 4704

Date: $\qquad$
District: $\qquad$ Mannington

Project No: $\qquad$ 113-18-M-21


## Table 1 - Water Source Identification

EQT Well Pad Name: Radcliff South
Submittal Date: 7/14/2023
EQT Well Number: $\qquad$
Survey / Engineering Company: Allegheny Surveys, Inc.

Site Number: 1 Distance from Gas Well (feet): $\mathbf{2 6 9 0 . 7 2}$
Surface Owner / Occupant: Richard Beaty (formerly Sweeney)
Address: 481 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-2878
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes
Coordinates: 39.345062, -80.262371 (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st }}: 9 / 26 / 2018 \quad 2^{\text {nd }}: 9 / 29 / 2021$ Door Hanger Left: $\qquad$

- Landowner Requested Sampling
Landowner Decline Sampling
$\square$ Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Comments: Water well located behind mobile home next to outbuilding. Very nice man.

Site Number: 2 Distance from Gas Well (feet): 2460.96
Surface Owner / Occupant: James and Jonella Boore
Address: 468 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1517
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes
Coordinates: 39.345410, -80.260514 (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st: }} 9 / 26 / 20182^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left: $\qquad$
© Landowner Requested Sampling
Landowner Decline Sampling
Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Comments: Water well located on NE side of house. Very friendly.
Site Number: 3 Distance from Gas Well (feet): $\mathbf{2 4 8 5 . 9 1}$
Surface Owner / Occupant: Heather Stout
Address: 546 Upper Murray Rd. Mannington WV 26582 Phone \#. 304-986-1577
Field Located Date: 9/27/2018 Owner home during survey (yes/no): No
Coordinates: 39.345487, -80.260221 (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st: }}$ 9/26/2018 $2^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left: Yes
 Comments: Spoke to friend there. Said she would ask and be in touch. Water well located wy Department of envenimg houserection (Insert additional pages as needed)

Site Number: 4 Distance from Gas Well (feet): 2376.91
Surface Owner / Occupant: Winford Knight
Address: 638 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1807
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes
Coordinates: $\mathbf{3 9 . 3 5 0 2 0 9}, \mathbf{- 8 0 . 2 5 5 3 0 3}$ (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st: }}$ 9/26/2018 2nd: 9/30/2021 Door Hanger Left:

- Landowner Requested Sampling
$\square$ Landowner Decline Sampling
$\square$ Unable to Contact (Further contact attempts to be made by EOT's third party pre-drill sampling lab)

Comments: Water well located beside aluminum wheelchair ramp. Unable to see water well. Nice elderly couple.

Site Number: 5 Distance from Gas Well (feet): $\mathbf{2 4 6 1 . 7 6}$
Surface Owner / Occupant: Winford Knight
Address: 638 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1807
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes
Coordinates: 39.350687, -80.254806 (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st: }}$ 9/26/2018 $2^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left:
Comments: Pond located.

Site Number: 6 Distance from Gas Well (feet): 1231.83

## Surface Owner / Occupant: Jason and Michelle Stout

Address: 637 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1087
Field Located Date: 10/08/2018 Owner home during survey (yes/no); Yes

区 Landowner Requested Sampling
$\square$ Landowner Decline Sampling
$\square$ Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Coordinates: 39.351716, -80.260111 (decimal degrees - NAD 83)
© Landowner Requested Sampling
$\square$ Landowner Decline Sampling

- Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Contact Attempts (Date): $1^{\text {st: }} 9 / 26 / 20182^{\text {nd: }}$ 9/30/2021 Door Hanger Left: Yes
Comments: Spoke to Michelle. Said she would ask and be in touch. Located water well on 10/08/2018.

Site Number: 7 Distance from Gas Well (feet): 1367.33
Surface Owner / Occupant: Jackie Radcliff
Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone \#: 304-986-3968
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes
Coordinates: 39.351716, -80.260111 (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st }}$ 9/26/2018 $2^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left: Yes
Comments: Water well located 9/27/2018 on upper end of house.

区 Landowner Requested Sampling
$\square$ Landowner Decline Sampling
$\square$ Unable te Contact (Plideeveract awapts to be Othire theddaiy eots shind party pre-drill sampling lab)
AUG 092023
WV Department of Environmental Protection

Site Number: 8 Distance from Gas Well (feet): 1318.14
Surface Owner / Occupant: Jackie Radcliff
Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone \#: 304-986-3968
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes
Coordinates: 39.350548, -80.262547 (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st }}: 9 / 26 / 20182^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left: $\qquad$

区 Landowner Requested Sampling
$\square$ Landowner Decline Sampling
$\square$ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Comments: Spring located next to road coming off hill.

Site Number: 9 Distance from Gas Well (feet): $\mathbf{1 4 1 6 . 8 4}$
Surface Owner / Occupant: Shelly Neison (Formerly Sandor Frecska)
Adidress: $\mathbf{3 2 5}$ Cabin Creek Rd. Mannington WV 26582 Phone \#: 304-986-1807
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes
Coordinates: 39.350687, -80.254806 (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st! }} 9 / \mathbf{9 6 / 2 0 1 8} 2^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left:

- Landowner Requested Sampling
$\square$ Landowner Decline Sampling
$\square$ Unable to Contact
(Further contact attempts to be made by EQT's third party pre-driil sampling lab)

Comments: Water well located next to driveway beside garage.

Site Number: $10 \quad$ Distance from Gas Well (feet): 2429
Surface Owner / Occupant: EBX-EM LLC
Address: 6575 W Loop S Ste 300, Bellaire TX 77401 Phone \#: $\qquad$
Field Located Date: $\qquad$ Owner home during survey (yes/no): $\qquad$
Landowner Requested SamplingLandowner Decline Sampling

- Unable to Contact
(Further contact attempts to be made by EOT's third party pre-drill sampling lab)
Coordinates: $39.354067,-80.261879$ (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st: }}$ $\qquad$ $2^{\text {nd }}$ $\qquad$ Door Hanger Left: $\qquad$
Comments: Property behind gate. Has water well. Formerly Henry Deem - called on 10/4/2021 \& said he had sold property. Signature page received 10/11/2021 declining sampling. Property was granted to EBX-EM LLC on 9/15/2021 (DB 1289/894).

Site Number: 11 Distance from Gas Well (feet): 2448.09

## Surface Owner / Occupant: Heather Stout

Address: 546 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1577
Field Located Date: 10/15/2018 Owner home during survey (yes/no): No
Coordinates: 39.345492, $\mathbf{- 8 0 . 2 6 0 3 1 5}$ (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st. }}$ 9/26/2018 $2^{\text {nd }}$ : 9/30/2021 Door Hanger Left: Yes

- Landowner Requested Sampling
$\square$ Landowner Decline Sampling
$\square$ Unabie to Contact
(Further contact attempts to be made by EQT's third party pre-diill sarmpling lab) Comments: Stout's second water well located at end of house.

AUG Uy luls

Site Number: $12 \quad$ Distance from Gas Well (feet): 2290.16

## Surface Owner / Occupant: Heather Stout

Address: 546 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1577
Field Located Date: 10/15/2018 Owner home during survey (yes/no): No

■ Landowner Requested Sampling
$\square$ Landowner Decline Sampling
$\square$ Unable to Contact (Further contact attempts to be made by EQT's third party predrill sampling lab)

Coordinates: $\mathbf{3 9 . 3 4 5 7 2 1 , - 8 0 . 2 6 0 1 9 1}$ (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st }}: 9 / 26 / 20182^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left: Yes
Comments: Spring located near garage in fence line.

Site Number: $13 \quad$ Distance from Gas Well (feet): 2272

Surface Owner / Occupant: Heather Stout
Address: 546 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1577
【 Landowner Requested Sampling
Landowner Decline Sampling
Field Located Date: 10/15/2018 Owner home during survey (yes/no): No
Coordinates: $\mathbf{3 9 . 3 4 5 8 3 8}, \mathbf{- 8 0 . 2 6 0 0 0 1}$ (decimal degrees - NAD 83)
$\square$ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Contact Attempts (Date): $1^{\text {st }}$ : 9/26/2018 2nd: $^{\text {nd }}$ 9/30/2021 Door Hanger Left: Yes
Comments: Spring in tree line next to barn. Must go through electric fence. Very muddy.

Site Number: 14 Distance from Gas Well (feet): 2078.98
Surface Owner / Occupant: Jason and Michelle Stout
Address: 637 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1087
Field Located Date: 10/08/2018 Owner home during survey (yes/no): $\qquad$
Coordinates: $\mathbf{3 9 . 3 5 3 5 1 2 , ~} \mathbf{- 8 0 . 2 6 0 5 1 4}$ (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st. }}$ 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes
Comments: Stream located on upper end of Stout's property. Very rough and

凹 Landowner Requested Sampling
$\square$ Landowner Decline
SampligUnable to Contact (Further contact attempts to be Omatef EOT's thind party
peparment of

## Surface Owner / Occupant: Jason and Michelle Stout

Address: 637 Upper Murray Rd. Mannington WV 26582 Phone \#: 304-986-1087
Field Located Date: 10/08/2018 Owner home during survey (yes/no): $\qquad$
Coordinates: $\mathbf{3 9 . 3 5 2 2 4 4}, \mathbf{- 8 0 . 2 6 0 2 4 3}$ (decimal degrees - NAD 83)
Contact Attempts (Date): $1^{\text {st: }}$ 9/26/2018 $2^{\text {nd }}: 9 / 30 / 2021$ Door Hanger Left: Yes
Comments: Stream located closer to Stout's house.

- Landowner Requested Sampling
ㅁ Landowner Decline Sampling
[] Unable to Contact
(Further contact attompts to be made by EQT's third party pre-drill sampling lab)


# STATE OF WEST VIRGINIA <br> 4704902512 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: 04/2772023
Date Permit Application Filed: $\leqslant / 8 / 2023$
Delivery method pursuant to West Virginia Code § 22-6A-16(b)
$\square$ HAND
DELIVERY

回 CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code $\S 22-6 \mathrm{~A}-16$ (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: See Attached List
Address: $\qquad$

Name: See Attached List
Address:

## Notice is hereby given:

Pursuant to West Virginia Code $\S 22-6 \mathrm{~A}-16$ (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: | West Virginia | UTM NAD 83 | Easting: | 548256.818 |
| :---: | :---: | :---: | :---: | :---: |
| County: | Marion | UTM NAD 8 | Northing: | 4382161.564 |
| District: | Mannington | Public Road Ac | ess: | CR 4/4 aEC |
| Quadrangle: | Glover Gap | Generally used | rm name: | Jackie B. Fba |
| Watershed: | Bartholomew Fork |  |  | उागा | Pursuant to West Virginia Code §22-6A-16(b), this notice shall include the name, address, telephoxep aumfberpqiff if available, facsimile number and electronic mail address of the operator and the operator's authorized representatiandal Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Enviffrmmental Protection headquarters, located at $60157^{\text {th }}$ 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: | $\frac{400 \text { Woodcliff Drive }}{\text { Canonsburg. PA } 15317}$ |
| Telephone: | $\frac{724-746-9073}{\text { Ezavatchan@eqt.com }}$ |
| Email: |  |
| Facsimile: | $412-395-2974$ |


| Authorized Representative: Address: | John Zavatchan |
| :---: | :---: |
|  | 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.

## Surface Owners:

Jackie D. Radcliff and Sheila L. Radcliff
161 Cabin Creek Rd
Mannington, WV 26582

Surface Owners (road, AST, or other disturbance):
Jason G. Stout
637 Upper Murray Rd.
Mannington, WV 26582
Heather R. Stout
546 Upper Murray Rd.
Mannington, WN 26582

Lula B. Knight
638 Upper Murray Rd.
Mannington, WN 26582

Clarence W. Sweeney, et. al.
POBox 219
Fairmont, WV 26555

## Office of Oil and Gas

## AUG 092023

WV Deparment of Environmental Protection

# 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: $\qquad$ $7 / 27 / 2023$ Date Permit Application Filed: $\qquad$
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: See Attached List
Name:
Address: Address: $\qquad$

Notice is hereby given:
Pursuant to West Virginia Code $\S 22-6 \mathrm{~A}-16$ (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 | UT | Easting: | 548.256.818 |
| :---: | :---: | :---: | :---: | :---: |
| County: | Marion |  | Northing: | 4.382,161.564 |
| District: | Mannington | Public Road Acces |  | CR 4/4 |
| Quadrangle: | Giover Gap | Generally used | rm name: | Jackie D. Radcilff and Sheila L. Radcliff |
| Watershed: | Bartholomew Fork |  |  |  |

## 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 $\S 22-6 \mathrm{~A}-10(\mathrm{~b})$ 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 $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

| Well Operator: | EQT Production Company |
| :--- | :--- |
| Telephone: | $\frac{724-746-9073}{\text { zavatchan@eqt.com }}$ |
| Email: |  |


| Address: | 400 Wooocliff 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 Remblikgurgesef business or as needed to comply with statutory or regulatory requirements, including Freedom of Information achitequests. Our office will appropriately secure your personal information. If you have any questions about our use or yourfersonal informatign, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Surface Owners:
Jackie D. Radcliff and Sheila L. Radcliff
161 Cabin Creek Rd
Mannington, WV 26582

## Surface Owners (road, AST, or other disturbance):

Jason G. Stout
637 Upper Murray Rd.
Mannington, WV 26582
Heather R. Stout
546 Upper Murray Rd.
Mannington, WV 26582
Lula B. Knight
638 Upper Murray Rd.
Mannington, WV 26582
Clarence W. Sweeney, et. al.
PO Box 219
Fairmont, WV 26555

# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways 

Gregory L. Bailey, P.E. Interim
State Highway Engineer

Charleston, West Virginia 25305-0430 • (304) 558-3505

April 24, 2023

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
$60157^{\text {th }}$ Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Radcliff Pad, Marion County Radcliff 10H Well Site

Dear Mr. Martin,
This well site will be accessed from a DOH permit \#04-2021-0390 which has been issued to EQT Production for access to the State Road for a well site located off Marion County Route 4/4 SLS MP 0.15.

This operator is in compliance with $\S 22-6 \mathrm{~A}-20$ 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 revised March 06, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,



Gary K. Clayton, P.E.
Regional Operations Engineer
Central Office O\&G Coordinator
Cc: Becky Strum
EQT Production
CH, OM, D-4
File

## Anticipated Frac Additives Chemical Names and CAS Numbers

| Material | Ingredient | CAS Number |
| :---: | :---: | :---: |
| Sand (Proppant) | Silica Substrate | 14808-60-7 |
| Water | Water | 7732-18-5 |
| Hydrochloric Acid ( HCl ) | Hydrogen Chloride | 7647-01-0 |
| Friction Reducer | Copolymer of 2-propenamide | Proprietary |
|  | Petroleum Distillate | 64742-47-8 |
|  | Oleic Acid Diethanolamide | 93-83-4 |
|  | Alcohols, C12-16, ethoxylated | 68551-12-2 |
|  | Ammonium chloride ( $\mathrm{NH}_{4}$ ) Cl ) | 12125-02-9 |
| Biocide | Glutaraldehyde | 111-30-8 |
|  | Alkyl dimethyl benzyl ammonium chloride | 68391-01-5 |
|  | Didecyl dimethyl ammonium chloride | 7173-51-5 |
|  | Non-hazardous substances | Proprietary |
| Scale Control | Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT) | 34690-00-1 |
|  | Non-hazardous substances | Proprietary |
| Acid Chelating Agent | Citric Acid | 77-92-9 |
| Corrosion Inhibitor | Methanol | 67-56-1 |
|  | pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides | 68909-18-2 |
|  | Nonoxynol-9 | 127087-87-0 |
|  | 2-ethyl-1-hexanol | 104-76-7 |
|  | 4-nonylphenyl, ethoxylated | 26027-38-3 |



# SITE AS-BUILT RADCLIFF WELL SITE <br> MARION COUNTY, WEST VIRGINIA EQT PRODUCTION COMPANY 



REFERENCES: UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE SERIES .
GLOVER GAP QUADRANGLE, $W$
LOCATION MAP
COVER SHEET
SITE CONTRO
2 SITE CONTROL WITH AERIAL ANO SHEET LAYOUT 6 ACCESS ROAD PROFILE


## SITE AS-BUILT RADCLIFF WELL SITE <br> MARION COUNTY, WEST VIRGINIA EQT PRODUCTION COMPANY

WVDEP OOG ACCEPTED AS-BUILT tyof $9 / 8 / 2023$
 GLOVER GAP QUADRANGLE, WV LOCATION MAP


## SHEET INDEX

OVER SHEET
2 SITE CONTROL WITH AERIAL AND SHEET LAYOUT 3-5 ENLARGED PLAN VIEW ACCESS ROAD PROFILE


OPERATOR $\qquad$ WELL NO: 10 H

PAD NAME: Radcliff
REVIEWED BY: John Zavatchan
$\qquad$ SIGNATURE:


## WELL RESTRICTIONS CHECKLIST

## HORIZONTAL 6A WELL

## Well Restrictions

$\boldsymbol{\checkmark}$ At Least 100 Feet from Pad and LOD (including any E\&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
$\square$ DEP Waiver and Permit Conditions

VAt Least 300 Feet from Pad and LOD (including any E\&S Control Feature) to any Naturally Producing Trout Stream; OR
$\square$ DEP Waiver and Permit Conditions

At Least 1000 Feet from Pad and LOD (including any E\&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
$\square$ DEP Waiver and Permit Conditions

$\square$
At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
$\square$ Surface Owner Waiver and Recorded with County Clerk, OR
$\square$ DEP Variance and Permit Conditions

$\square$At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
$\square$ Surface Owner Waiver and Recorded with County Clerk, OR
$\square$ DEP Variance and Permit Conditions

$\square$At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the of the Pad; OR
$\square$ Surface Owner Waiver and Recorded with County Clerk, OR
$\square$ DEP Variance and Permit Conditions


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