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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, August 3, 2020  
WELL WORK PERMIT  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222


Re: Permit approval for ELLIOT 9H  
47-049-02498-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: ELLIOT 9H  
Farm Name: CONSOLIDATION COAL CO.   
U.S. WELL NUMBER: 47-049-02498-00-00  
Horizontal 6A New Drill  
Date Issued: 8/3/2020

# 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

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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.

API Number: \_\_\_\_\_

## PERMIT CONDITIONS

4704902498

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](mailto:DEPOOGNotify@wv.gov).



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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
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Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
dep.wv.gov

**ORDER  
ISSUED UNDER  
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: EQT Production Company  
625 Liberty Ave., Suite 1700  
Pittsburgh, PA 15222

DATE: July 30, 2020  
ORDER NO.: 2020-W-3

**INTRODUCTION**

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to EQT Production Company (hereinafter "EQT" or "Operator"), collectively the "Parties."

**FINDINGS OF THE CHIEF**

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. EQT is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 625 Liberty Ave., Suite 1700, Pittsburgh, PA 15222.
3. On June 17, 2020 EQT submitted a well work permit application identified as API# 47-049-02498. The proposed well is to be located on the Elliot Pad in the Mannington District of Marion County, West Virginia.
4. On June 17, 2020 EQT requested a waiver for Wetlands 1 and 2 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-049-02498.

## CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

## ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “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. The Office of Oil and Gas grants the request for a waiver for Wetlands 1 and 2 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-049-02498. The Office of Oil and Gas hereby **ORDERS** that EQT shall meet the following site construction and operational requirements for the Elliot Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetlands 1 and 2 shall be protected by a layer of Super Silt Fence. The manifold pad will be graded so that no runoff will not leave the pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.



Thus ORDERED, the 30th day of July, 2020.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: **James Martin** Digitally signed by James Martin  
Date: 2020.07.30 10:04:36 -04'00'  
\_\_\_\_\_  
JAMES A. MARTIN, CHIEF





WW-6B  
(04/15)

API NO. 47- 4704902498  
OPERATOR WELL NO. 9H  
Well Pad Name: Elliott

STATE OF WEST VIRGINIA  
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: 9H Well Pad Name: Elliott

3) Farm Name/Surface Owner: Consolidation Coal Company Public Road Access: CR 5

4) Elevation, current ground: 1,343' (pad built) Elevation, proposed post-construction: 1,343'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

Horizontal  SDW

6) Existing Pad: Yes or No Yes 6/15/2020

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7,770', 101', 2593 psi

8) Proposed Total Vertical Depth: 7,770'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19,183'

11) Proposed Horizontal Leg Length: 11,036'

12) Approximate Fresh Water Strata Depths: 202', 287'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-049-02251, 47-049-00878

14) Approximate Saltwater Depths: 1,797', 1,895', 2412'

15) Approximate Coal Seam Depths: 435'-437', 870'-875', 967'-975'

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: \_\_\_\_\_

WW-6B  
(04/15)

4704902498  
API NO. 47-  
OPERATOR WELL NO. 9H  
Well Pad Name: Elliott

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	26	New	A-500	85.6	40	40	60 ft <sup>3</sup> / CTS
Fresh Water	13 3/8	New	J-55	54.5	1025	1025	900 ft <sup>3</sup> / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2485	2485	1000 ft <sup>3</sup> / CTS
Production	5 1/2	New	P-110	20	19183	19183	500' above intermediate casing
Tubing							
Liners							

*SDW  
6/15/2020*

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
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	0.395	3950	3160	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.098
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

WW-6B  
(10/14)

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. 911  
Well Pad Name: Elliot

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 27.35 Acres

22) Area to be disturbed for well pad only, less access road (acres): 10.47 Acres

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.

\*Note: Attach additional sheets as needed.

4704902498

**WEST VIRGINIA GEOLOGICAL PROGNOSIS**

Horizontal Well  
**ELLIOT (GLO187)**

v 2017.4  
 Enerzia # #N/A

**Drilling Objectives:**

**MARCELLUS**

**County:**

Marion

**Quad:**

Glover Gap

**Elevation:**

1355 KB

1342 GL

**Recommended Azimuth**

Degrees

**TVD: 7770**

**ESTIMATED FORMATION TOPS**

from wells 4704902251, 4704900878

Formation	Top (TVD)	Base (TVD)	Lithology	Comments
Fresh Water Zone	1	287		FW @ 302.287
Coal	435	437	Coal	
Sewickley	870	875	Coal	
Pittsburgh	967	975	Coal	
Big Lime	2182	2308	Limestone	SA @ 277.0895, 2112
Big Injun	2308	2435	Sandstone	
Int. casg pt	2485			
Berea	2583	3007	Sandstone	Gas shows @ 2412, 2932, 3026, 3085, 3164, 3360, 4755, ...
Gantz	3007	3026	Silty Sand	Outside of Storage
50ft	3114	3128	Silty Sand	
Bayard	3254	3624	Silty Sand	
Alexander	5742	6135	Silty Sand	
Elks	6135	7166	Gray Shales and Silts	
Sonyea	7166	7373	Gray shale	
Middlesex	7373	7437	Shale	
Genesee	7437	7545	Gray shale interbedded	
Genesee	7545	7582	Black Shale	
Tully	7582	7613	Limestone	
Hamilton	7613	7719	Gray shale with some	
Marcellus	7719	7820	Black Shale	
Purcell	7785	7787	Limestone	
-Lateral Zone	7770			
Cherry Valley	7801	7803	Limestone	
Onondaga	7820		Limestone	

Top RR Base RR  
 No redrock listed in offsets

Target Thickness	101 feet
Max Anticipated Rock Pressure	2593 PSI

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

**LATERAL DRILLING TOLERANCES**

**Mapview - Lateral:** Deviate as little as possible to the left or right of the planned wellbore.  
**Mapview - TD:** DO NOT EXCEED beyond recommended wellbore to avoid lease line.

**RECOMMENDED CASING POINTS**

<b>Fresh Water/Coal</b>	CSG OD	13 3/8	CSG DEPTH:	1025	50' below Pittsburgh
<b>Intermediate 1:</b>	CSG OD	9 5/8	CSG DEPTH:	2485	Beneath the Big Injun formation
<b>Production:</b>	CSG OD	5 1/2	CSG DEPTH:	@ TD	

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 WV Division of Environmental Policy

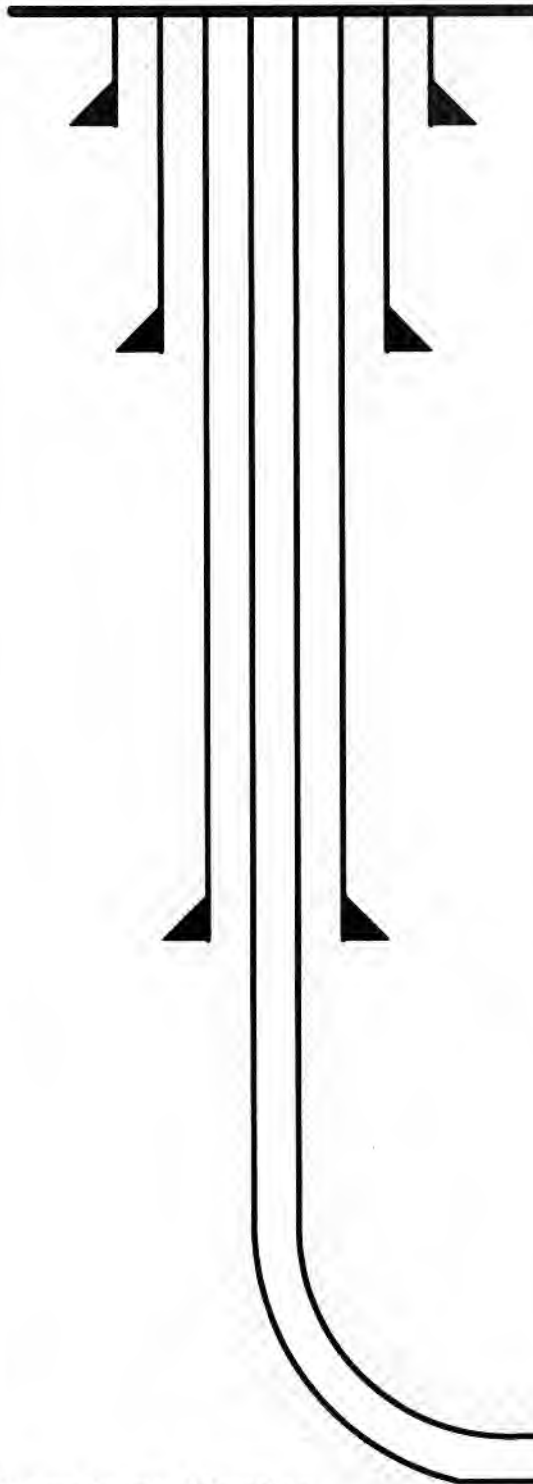
**EQT Production**

**Wellbore Diagram**

Well: Elliot 9H  
Pad: Elliot  
Elevation: 1342' GL 1355' KB

County: Marion  
State: West Virginia

4704902498



**Conductor @ 40'**

26", 85.6#, A-500, cement to surface w/ Class A

**Surface @ 1,025'**

13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I

**Intermediate @ 2,485'**

9-5/8", 40#, A-500, cement to surface w/ Class A/Type I

**Production @ 19,183' MD / 7,770' TVD**

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

**Formation: Marcellus**

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JUN 17 2020

WV Department of Environmental Protection

NOT TO SCALE



4704902498

June 15, 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 Elliott 9H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,025' KB, 50' below the deepest workable coal seam and 738' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,485' KB, 50' below the base of the Big Injun formation.

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

Sincerely,

John Zavatchan  
Project Specialist - Permitting

Enc.

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JUN 17 2020  
WV Department of Environmental Protection



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west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
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(304) 926-0450  
(304) 926-0452 fax

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson  
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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JUN 17 2020  
WV Governor J. H.  
Environmental Protection

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

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

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

**REPORT OF THE OFFICE**

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

**FINDINGS OF FACT**

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
  - 2% Calcium Chloride (Accelerator)
  - 0.25 % Super Flake (Lost Circulation)
  - 94% Type "1" Cement
  - 5.20 % Water
- 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.

Promoting a healthy environment.

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JUN 17 2014  
West Virginia  
Department of Environmental Protection

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**CONCLUSIONS OF LAW**

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

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


**ORDER**

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

  
James Martin, Chief  
Office of Oil and Gas

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EQT Production  
Hydraulic Fracturing Monitoring Plan  
Pad ID: Elliott  
County: Marion

June 11, 2020

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Office of Oil and Gas  
JUN 17 2020  
WV Department of  
Environmental Protection

## Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Elliott pad: 1H, 3H, 5H, 7H, 9H, 11H, 13H, 15H and 17H.

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:

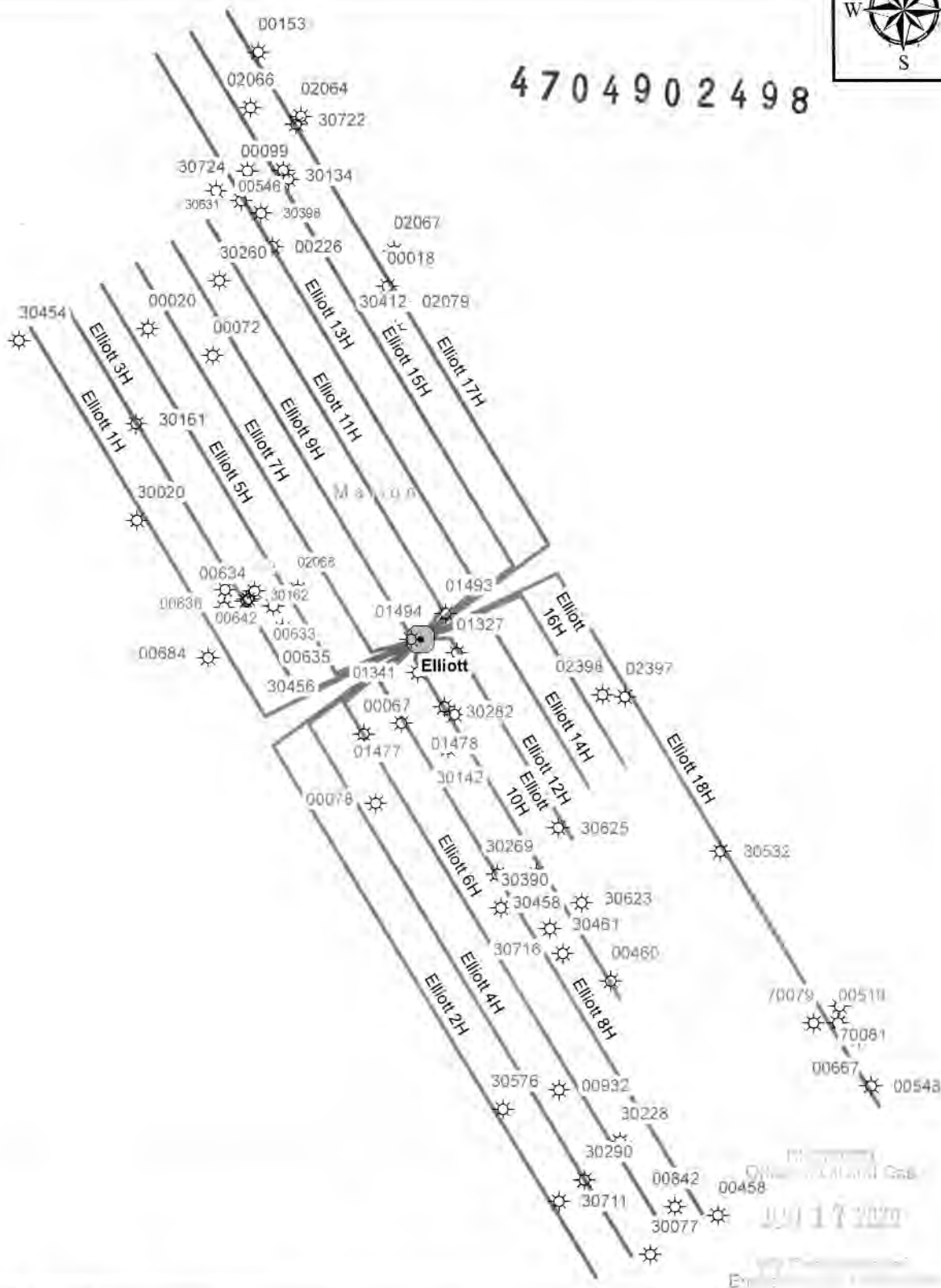
1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead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



4704902498



**EQT**  
 EQT Corporation  
 625 Liberty Avenue  
 Pittsburgh PA 15222

Elliott

Vertical Offsets and Foreign Laterals within 500'

Created By: Kellen Wetman Printed By: McClay on 5/11/2020

**Legend**

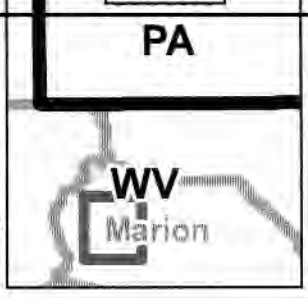
- Foreign Well Offset
- Well Pad Sites
- Well Lateral\_FM Formation**
- Genesee
- Marcellus
- Utica



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.

1:1,193,041





WellID	WellStatus	date	FmatTD	Permit	RemarksPRO	Operator	Longitude	Latitude	TargetFm	DatumEleva	TotalDepth-SS	Total Depth
4704900018	UNK	12/27/1930		00018		S N ELLIOTT	-80.3848	39.5687		1185.0000	-1981.0000	3166.0000
4704900020	UNK	9/26/1933		00020		ESHENBAUGH OIL & GAS	-80.4053	39.5660		1088.0000	-2212.0000	3300.0000
4704900067	GAS-P	1/14/1937		00067		S N ELLIOTT	-80.3872	39.5301		990.0000	-1822.0000	2812.0000
4704900072	GAS-P	11/6/1937		00072		ESHENBAUGH OIL & GAS	-80.3998	39.5642		1271.0000	-2183.0000	3454.0000
4704900078	GAS-P	11/30/1937		00078		S N ELLIOTT	-80.3862	39.5345		1197.0000	-2197.0000	3394.0000
4704900099	DRY	12/8/1941		00099		PENNZOIL	-80.3932	39.5758		1206.0000	-2414.0000	3620.0000
4704900153	GAS-P	2/13/1947		00153		W R COREY	-80.3957	39.5842		1043.0000	-1992.0000	3035.0000
4704900226	DRY	9/17/1951		00226		MONROE & LAUGHLIN	-80.3946	39.5714		1117.0000	-1904.0000	3021.0000
4704900458	UNK	8/1/1993		00458		PENNZOIL	-80.3572	39.5070		1359.0000	-878.0000	2238.0000
4704900460	GAS	7/10/1925		00460	4SD	PENNZOIL	-80.3667	39.5226		1104.0000	-2025.0000	3133.0000
4704900519	UNK	2/13/1996		00519		PENNZOIL	-80.3468	39.5197		1240.0000	-840.0000	2080.0000
4704900546	OIL	2/25/1918		00546	30F	PENNZOIL	-80.3994	39.5751		1360.0000	-1745.0000	3105.0000
4704900548	OIL	4/1/1995		00548	BN	PENNZOIL	-80.3440	39.5155		1248.0000	-881.0000	2129.0000
4704900633	DRY	2/22/1937		00633		CONSOL	-80.3948	39.5476		1037.0000	-1846.0000	2883.0000
4704900634	UNK			00634		CONSOL	-80.3471	39.5479		1009.0000	-9999.0000	101008.0000
4704900635	UNK			00635		CONSOL	-80.3940	39.5461		1074.0000	-9999.0000	101073.0000
4704900636	UNK			00636		CONSOL	-80.3990	39.5475		1023.0000	-9999.0000	101022.0000
4704900642	UNK			00642		CONSOL	-80.3989	39.5487		1037.0000	-9999.0000	101036.0000
4704900667	GAS	1/1/1990		00667		G L & R O BEATY	-80.3450	39.5186		1300.0000	-1755.0000	3055.0000
4704900684	UNK			00684		CONSOL	-80.4004	39.5442		1278.0000	-9999.0000	101277.0000
4704900842	UNK	9/17/1991		00842		ROSS & WHARTON	-80.3609	39.5076		1151.0000	-885.0000	2036.0000
4704900932	UNK			00932		CLOWSER	-80.3707	39.5154		1009.0000	-9999.0000	101008.0000
4704901327	UNK	10/4/2001		01327	5SDRIV	R J A L	-80.3791	39.5444		1102.0000	-3908.0000	5010.0000
4704901341	UNK	10/12/2001		01341	GDN5SD	R J A L	-80.3825	39.5431		1090.0000	-2270.0000	3360.0000
4704901477	GAS	3/25/2004		01477	50F/30F/GDN	FALCON HOLDINGS	-80.3840	39.5398		1177.0000	-2184.0000	3361.0000
4704901478	GAS	3/16/2004		01478	50F/30HF/GDN/4S	FALCON HOLDINGS	-80.3794	39.5403		1097.0000	-2093.0000	3190.0000
4704901493	P&A	6/14/2004		01493	50F	FALCON HOLDINGS	-80.3801	39.5470		1330.0000	-2101.0000	3431.0000
4704901494	UNK	4/28/2004		01494	30F/GDN/4SD	FALCON HOLDINGS	-80.3831	39.5453		1311.0000	-2039.0000	3350.0000
4704902064	UNK			02064		CONSOLIDATION COAL	-80.3921	39.5800		1318.0000	-9999.0000	101117.0000
4704902066	UNK			02066		CONSOLIDATION COAL	-80.3964	39.5806		1281.0000	-9999.0000	101280.0000
4704902067	UNK			02067		CONSOLIDATION COAL	-80.3842	39.5710		1196.0000	-9999.0000	101195.0000
4704902068	UNK			02068		CONSOLIDATION COAL	-80.3927	39.5487		1117.0000	-9999.0000	101116.0000
4704902079	UNK			02079		CONSOLIDATION COAL	-80.3837	39.5677		1234.0000	-9999.0000	101233.0000
4704902397	D&A	5/14/2015		02397		CONSOL ENERGY	-80.3048	39.5414		1193.0000	-106.0000	1299.0000
4704902398	D&A	5/18/2015		02398		CONSOL ENERGY	-80.3666	39.5416		1113.0000	-581.0000	1694.0000
4704903020	GAS			30020			-80.4064	39.5533		1088.0000	-2212.0000	3300.0000
4704903077	OIL GS			30077		SOUTH PENN	-80.3631	39.5044		1209.0000	-898.0000	2107.0000
4704903134	D&G			30134		MANUFACTURERS L & H	-80.3936	39.5764		1.0000	-3314.0000	3315.0000
4704903142	UNK			30142		OPER IN MIN OWN	-80.3800	39.5381		1167.0000	-2012.0000	3179.0000
4704903161	OIL			30161		ESHENBAUGH O&G	-80.4054	39.5597		1035.0000	-1737.0000	2772.0000
4704903162	OIL			30162		ESHENBAUGH O&G	-80.3969	39.5481		1036.0000	-1849.0000	2885.0000
4704903224	UNK			30224		WILLIAM MOSES	-80.3964	39.5486		1222.0000	-1773.0000	2995.0000
4704903228	OIL GS	6/3/1907		30228		SOUTH PENN	-80.3655	39.5119		1485.0000	-1687.0000	3172.0000
4704903260	GAS	6/23/1919		30260		MANUFACTURERS L & H	-80.3992	39.5692		1364.0000	-2083.0000	3447.0000
4704903269	OIL	5/31/1920		30269		SOUTH PENN	-80.3758	39.5297		1304.0000	-1790.0000	3094.0000
4704903282	GAS	3/1/1914		30282		HOPE NAT GAS	-80.3803	39.5408		1148.0000	-2106.0000	3294.0000
4704903290	OIL GS	11/14/1918		30290		SOUTH PENN	-80.3686	39.5095		1099.0000	-1676.0000	2775.0000
4704903390	OIL GS	10/30/1926		30390		SOUTH PENN	-80.3756	39.5275		1103.0000	-1777.0000	2880.0000
4704903398	GAS	9/8/1917		30398		HOPE NAT GAS	-80.3956	39.5736		1218.0000	-2040.0000	3258.0000
4704903412	OIL GS	3/25/1927		30412		CARNEGIE NAT GAS	-80.3842	39.5658		1178.0000	-1858.0000	3036.0000

4704902498

4704930454	O&G	30454	INTERSTATE P&S	-80.4164	39.5653	1074.0000	-1934.0000	3008.0000
4704930456	OIL	30456	INTERSTATE P&S	-80.3933	39.5442	1006.0000	-1842.0000	2848.0000
4704930458	OIL GS	30458	INTERSTATE P&S	-80.3725	39.5297	1053.0000	-1778.0000	2831.0000
4704930461	OIL GS	30461	INTERSTATE P&S	-80.3714	39.5261	1176.0000	-1759.0000	2935.0000
4704930532	OIL GS	30532	RAAD SUPPLY	-80.3567	39.5311	1153.0000	-1721.0000	2874.0000
4704930576	OIL	30576	RAAD SUPPLY	-80.3756	39.5142	1273.0000	-1744.0000	3017.0000
4704930623	OIL GS	30623	OPER IN MIN.OWN	-80.3686	39.5278	972.0000	-1770.0000	2742.0000
4704930625	OIL	30625	RAAD SUPPLY	-80.3706	39.5328	1071.0000	-1789.0000	2860.0000
4704930631	OIL GS	30631	RAAD SUPPLY	-80.3972	39.5744	1044.0000	-1979.0000	3023.0000
4704930711	OIL GS	30711	RAAD SUPPLY	-80.3708	39.5081	1.0000	-3056.0000	3057.0000
4704930716	OIL	30716	RAAD SUPPLY	-80.3703	39.5244	1.0000	-1984.0000	1985.0000
4704930722	UNK	30722	OPER IN MIN.OWN	-80.3925	39.5794	0.0000	-99999.0000	99999.0000
4704930724	OIL	30724	OPER IN MIN.OWN	-80.3967	39.5764	1365.0000	-1781.0000	3146.0000
4704970079	OIL	70079	BURT OIL	-80.3489	39.5197	1.0000	-2630.0000	2631.0000
4704970081	OIL	70081	HARTMAN OIL	-80.3467	39.5208	1.0000	-2983.0000	2984.0000

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WISCONSIN  
Department of Natural Resources

4704902498

WW-9  
(4/16)

API Number 47- \_\_\_\_\_  
Operator's Well No. Elliot BH

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 305686

Watershed (HUC 10) Tributary of Dents Run Quadrangle Glover Gap

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 \_\_\_\_\_)

*SPW  
6/15/2020*

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 Zavatchan  
Company Official Title Project Specialist - Permitting

Subscribed and sworn before me this 11<sup>th</sup> day of June, 2020

[Signature] Notary Public

My commission expires October 25, 2023

Commonwealth of Pennsylvania - Notary Seal  
Olivia Pishoneri, Notary Public  
Allegheny County  
My commission expires October 25, 2023  
Commission number 1359968  
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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JUL 24 2011

WV Department  
Environmental Protection

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: [Signature]

Comments: Re-seed/mulch all disturbed areas as soon as reasonably possible, per regulation. Upgrade EdS as necessary per WV DEP EdS manual.

Title: OOG Inspector

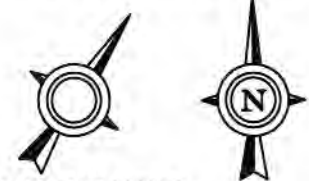
Date: 6/15/2020

Field Reviewed?  Yes  No

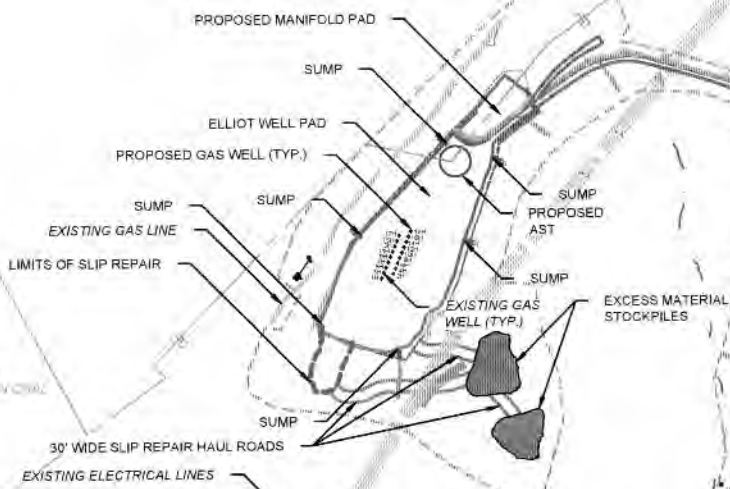
REC'D  
Dir. of DEP  
JUN 17 2020  
WV Department of Environmental Protection

4704902498

(2-24-37)  
CONEDOLIDA INDY COAL



PREVAILING WIND



SCALE: 1:500 PLOTTED: 4/30/2020 4:41 PM FILE: X:\OIL AND GAS\EDT\2018\16070-089 - ELLIOT\CAD\K DRIVE\ - PAITO CLIENT\DWG\ELLIOT\_WW-9 EXHIBIT\_02.24.20.DWG

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JUN 17 2020

**EXHIBIT**  
made for  
**EQT PRODUCTION COMPANY**  
**ELLIOT WELL SITE**  
**MANNINGTON DISTRICT,**  
**MARION COUNTY, WEST VIRGINIA**  
prepared by  
**DIEFFENBAUCH & HRITZ, LLC**  
1095 Chaplin Rd Suite 200, Morgantown, WV 26501  
Phone: 304-985-5555 Fax: 304-985-5557





4704902498

SSP on Q: 6/18/20



# SITE SAFETY AND ENVIRONMENTAL PLAN

Elliot (GLO 187) Well Pad  
Wells 1H, 3H, 5H, 7H, 9H, 11H, 13H, 15H, 17H

Marion County, WV

Prepared By: Scott M. Held, CSP, EQT Corporation- Senior Safety Coordinator

Approved By: Scott M. Held, CSP, EQT Corporation- Senior Safety Coordinator

Created Date: 22-Apr-20

**John Zavatchan**  
Project Specialist  
EQT Production Company

\_\_\_\_\_  
**Sam Ward**  
Oil and Gas Inspector  
West Virginia DEP

SDW  
6/15/2020

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JUN 17 2020

WV Department of Environmental Protection

TH: 2056' LAT: 39-35-00

BH: 7997' LAT: 39-35-00

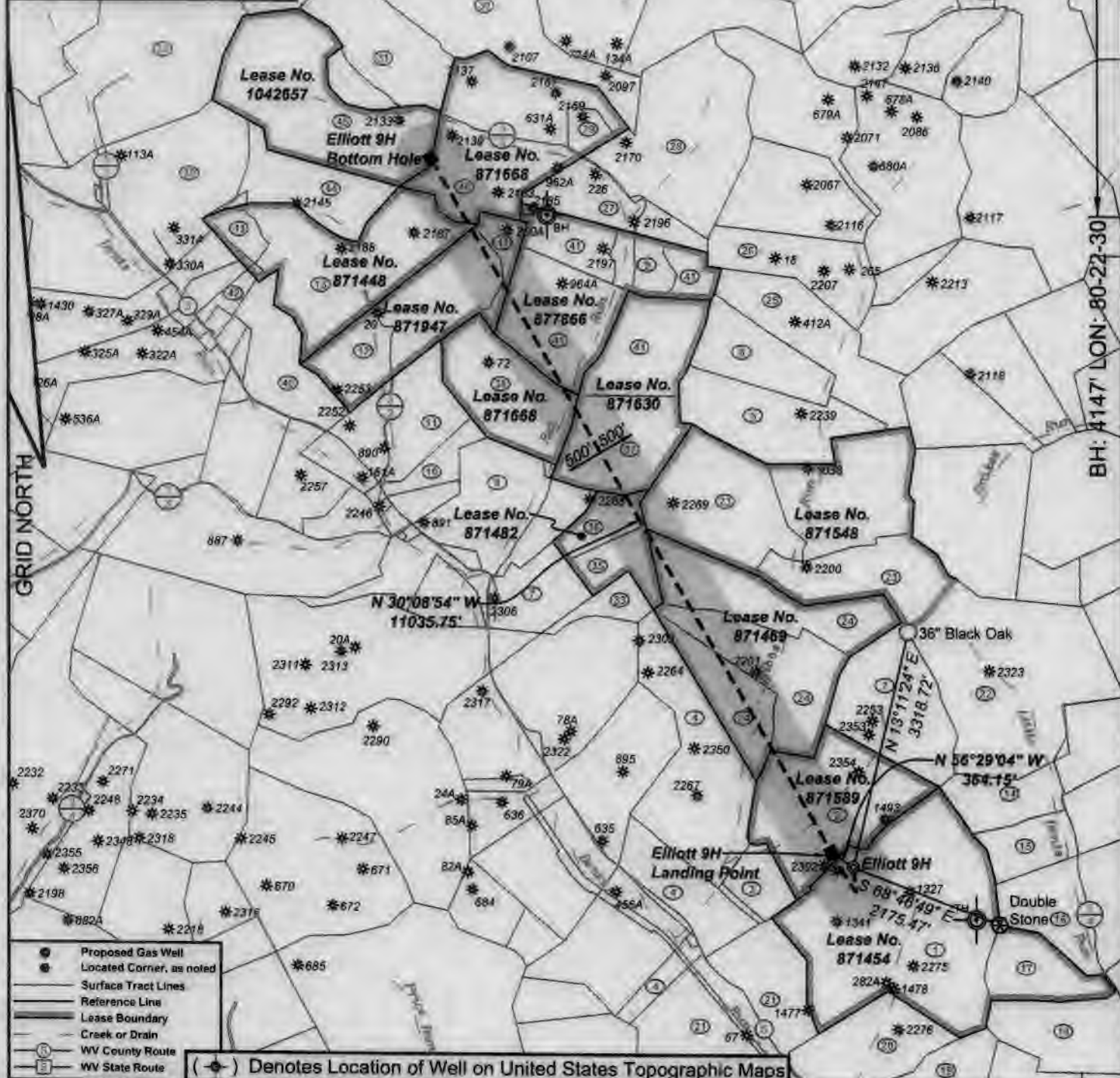
Elliott 9H

EQT Production Company

GRID NORTH

BH: 4147' LON: 80-22-30

TH: 13832' LON: 80-22-30



- 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: 48-18  
DRAWING NO: Elliott 9H  
SCALE: 1" = 2000'  
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: June 10 20 20  
OPERATOR'S WELL NO: Elliott 9H  
API WELL NO HGA  
47 - 49 - 02498  
STATE COUNTY PERMIT

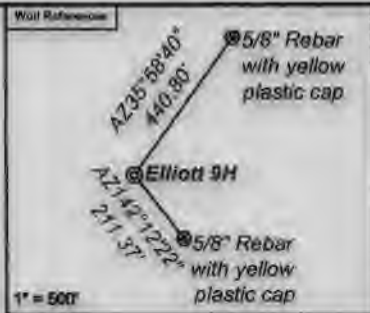
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1343' WATERSHED: Tributary of Dents Run QUADRANGLE: Glover Gap  
DISTRICT: Mannington COUNTY: Marion  
SURFACE OWNER: Consolidation Coal Company ACREAGE: 153.25  
ROYALTY OWNER: Randy J. Elliot, et al LEASE NO: 871454 ACREAGE: 183  
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:

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

**Elliott 9H**

**EQT Production Company**

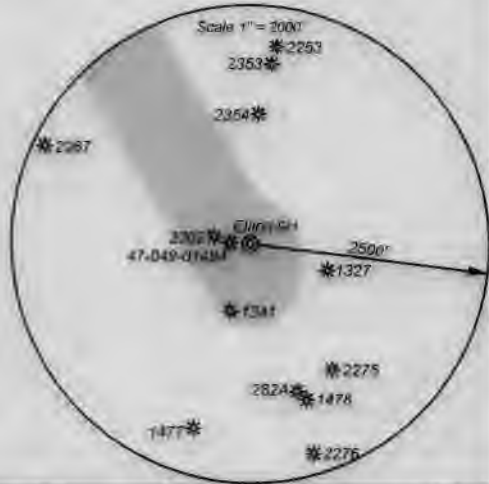
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Trust Owner	Acres
1	34	40	Marion	Mannington	Consolidation Coal Company	155.25
2	34	37	Marion	Mannington	Consolidation Coal Company	133.27
3	34	38	Marion	Mannington	Consolidation Coal Company	17.00
4	34	39	Marion	Mannington	Consolidation Coal Company	120.00
5	35	22	Marion	Mannington	Consolidation Coal Company	59.67
6	35	23	Marion	Mannington	CNX Land LLC	39.99
7	35	18	Marion	Mannington	Mark A. & Carrie A. Hedderick	24.00
8	35	7	Marion	Mannington	Mark A. & Carrie A. Hedderick	62.88
9	35	9.1	Marion	Mannington	Matthew C. Sipes	13.80
10	35	8	Marion	Mannington	Harry C. & Dorothy E. Barnish	11.21
11	35	7	Marion	Mannington	Douglas L. & Wm. J. Cochran	28.46
12	35	1	Marion	Mannington	Lee R. & Shari L. Taylor	67.35
13	34	13	Marion	Mannington	Lee R. & Shari L. Taylor	88.40
14	34	48	Marion	Mannington	Dennis M. & Lisa A. Jagers	24.72
15	34	47	Marion	Mannington	Edward F. Price	24.00
16	33	7	Marion	Mannington	Thomas D. & Aimee J. Houghton	93.90
17	34	40.1	Marion	Mannington	Raymond E. & Betty J. Fluharty	29.75
18	34	45	Marion	Mannington	City of Mannington	42.50
19	34	41	Marion	Mannington	Consolidation Coal Company	47.00
20	34	39	Marion	Mannington	Consolidation Coal Company	45.75
21	34	32	Marion	Mannington	Consolidation Coal Company	154.00
22	32	11	Marion	Mannington	Consolidation Coal Company	918.00
23	35	21	Marion	Mannington	Consolidation Coal Company	199.40
24	35	20	Marion	Mannington	Consolidation Coal Company	131.40
25	35	24	Marion	Mannington	CNX Land LLC	47.88
26	28	22	Marion	Mannington	CNX Land LLC	38.65
27	35	10	Marion	Mannington	CNX Land LLC	34.80
28	22	21	Marion	Mannington	Sportsman Square Cows Club Inc	61.00
29	28	25	Marion	Mannington	CNX Land LLC	7.25
30	28	17	Marion	Mannington	CNX Land LLC	77.65
31	25	18	Marion	Mannington	Dennis Mitchell	58.75
32	35	4	Marion	Mannington	Dennis Markel & John Pheasant	128.04
33	35	14	Marion	Mannington	Mark A. & Carrie A. Hedderick	119.04
34	35	2.1	Marion	Mannington	Larry Gill	160.04
35	35	15	Marion	Mannington	Mark A. & Carrie A. Hedderick	66.30
36	35	12	Marion	Mannington	Mark A. & Carrie A. Hedderick	15.30
37	35	11	Marion	Mannington	Freddie E. & Deborah S. Liley	66.25
38	35	8	Marion	Mannington	Freddie E. & Deborah S. Liley	50.15
39	39	9	Marion	Mannington	John Pheasant & Denise Marks	62.59
40	39	10	Marion	Mannington	Lynn E. Stour	40.19
41	39	11	Marion	Mannington	Freddie E. & Deborah S. Liley	136.22
42	38	11.3	Marion	Mannington	Keri F. & Michael F. Barty	9.11
43	38	13.1	Marion	Mannington	Gerald H. & Iris A. Carnes	9.28
44	38	14	Marion	Mannington	Lee R. & Shari L. Taylor	35.00
45	28	15	Marion	Mannington	Stacey C. Barnett	94.52
46	28	20	Marion	Mannington	Sportsman Square Cows Club Inc	102.85



**Notes:**  
 Elliott 9H coordinates are  
 NAD 27 N: 381,962.82 E: 1,751,195.58  
 NAD 27 Lat: 39.545357 Long: -80.382290  
 NAD 83 UTM N: 4,377,489.85 E: 553,092.27  
 Elliott 9H Landing Point coordinates are  
 NAD 27 N: 382,163.88 E: 1,750,891.98  
 NAD 27 Lat: 39.545901 Long: -80.383373  
 NAD 83 UTM N: 4,377,549.56 E: 552,998.75  
 Elliott 9H Bottom Hole coordinates are  
 NAD 27 N: 391,706.82 E: 1,745,349.40  
 NAD 27 Lat: 39.571949 Long: -80.403367  
 NAD 83 UTM N: 4,380,428.80 E: 551,261.71  
 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



Lease No.	Owner	Acres
871589	CNX Gas Company LLC, et al	80
871469	Newton S. Beatty Families Trust, Philip A. Pritchard, Trustee, et al	131.1
871482	Jeffrey Allen Greene, et al	31.4
871548	West Virginia University Foundation, Inc., et al	169.49
871630	Robert & Mary Keller, et al	46.25, 40.19 and 11.094
871668	Frederick & Deborah Lilley	52.12
877866	Dennis Straight	95
871947	Jennifer L. Benn, et al	79
871448	Nell Baker, et al	95.75
871868	Dennis L. Bissett, et al	102.85 and 7.25
1042657	Chad W. Johnson, et al	94.12



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



FILE NO: 48-18  
 DRAWING NO: Elliott 9H  
 SCALE: 1" = 2000'  
 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: June 10 20 20  
 OPERATOR'S WELL NO.: Elliott 9H  
 API WELL NO: H6A  
 47 49 028.78  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: 1343' WATERSHED: Tributary of Dents Run QUADRANGLE: Glover Gap  
 DISTRICT: Mannington COUNTY: Marion  
 SURFACE OWNER: Consolidation Coal Company ACREAGE: 153.25  
 ROYALTY OWNER: Randy J. Elliot, et al LEASE NO: 871454 ACREAGE: 183  
 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:  
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280  
 Canonsburg, PA 15317 Bridgport, WV 26330



WW-6A1  
(5/13)

Operator's Well No. Elliott 9H

**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

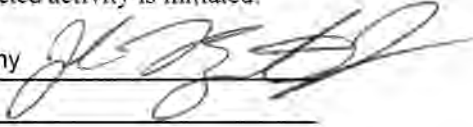
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

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. 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

WW-6A1 attachment

Operator's Well No.

Elliott 9H

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>871454</u>	<u>Randy J. Elliott, et al</u> Randy J. Elliott, a married man dealing in his sole/sep. property Randy J. Elliott and Leonard W. Stafford RJAL, Inc. Falcon Holdings, LLC Gallatin Fuels, Inc. RJAL, Inc. Leatherwood Inc. CNX Gas Company LLC Noble Energy HG Energy II Appalachia, LLC	EQT Production Company RJAL, Inc. Falcon Holdings, LLC Gallatin Fuels, Inc. Leatherwood Inc. Leatherwood Inc. CNX Gas Company LLC Noble Energy HG Energy II Appalachia, LLC EQT Production Company	at least 1/8th per WV Code 22-6-8	DR 1213/441 DR 971/747 DR 993/64 AB 32/183 AB 32/800 DR 1035/63 AB 42/174 AB 42/355 AB 53/166 AB 56/389
<u>871589</u>	<u>CNX Gas Company LLC, et al</u>  CNX Gas Company LLC American Shale Development, Inc. Republic Energy Ventures, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Energy Ventures, LLC EQT Production Company EQT Production Company	at least 1/8th per WV Code 22-6-8	DR 1159/223  AB 48/496 AB 51/525 DR 1228/1
<u>871469</u>	<u>Newton S. Beatty Families Trust, Philip A. Prichard, Trustee, et al.</u>  Philip A. Prichard, acting as Att-in-Fact for Jackson T. Beatty and Rebecca Beatty, h/w, et al, (referred to as the "Lida Cochrane Heirs") American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Partners VIII, LLC EQT Production Company EQT Production Company	at least 1/8th per WV Code 22-6-8	DR 1129/821  AB 47/469 AB 51/525 DR 1228/1
<u>871482</u>	<u>Jeffrey Allen Greene, et al.</u>  Jeffrey Allen Greene, a married man dealing in his sole/sep. property American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Partners VIII, LLC EQT Production Company EQT Production Company	at least 1/8th per WV Code 22-6-8	DR 1126/894  AB 47/469 AB 51/525 DR 1228/1
<u>871548</u>	<u>West Virginia University Foundation, Inc., et al.</u>  West Virginia University Foundation, Inc., for the benefit of West Virginia University American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Partners VIII, LLC EQT Production Company EQT Production Company	at least 1/8th per WV Code 22-6-8	DR 1159/217  AB 47/469 AB 51/525 DR 1228/1
<u>871630</u>	<u>Robert &amp; Mary Keller, et al.</u> Robert & Mary Kay Keller, h/w Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	Republic Energy Ventures, LLC EQT Production Company EQT Production Company	at least 1/8th per WV Code 22-6-8	DR 1171/811 AB 51/525 DR 1228/1
<u>871668</u>	<u>Frederick &amp; Deborah Lilley</u>		at least 1/8th per WV Code 22-6-8	

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Office of Oil and Gas

JUL 24 2020

WV Department of  
Environmental Protection

	Frederick E. Lilley, Jr. and Deborah S. Lilley, h/w Trans Energy, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	Trans Energy, Inc., (50%) and Republic Energy Ventures, LLC, (50%) American Shale Development, Inc. EQT Production Company EQT Production Company	DR 1071/591 AB 43/420 AB 51/525 DR 1228/1
<b>877866</b>	<b><u>Dennis Straight</u></b> Dennis Straight, a married man dealing in his sole & separate property Republic Energy Ventures, LLC, et al	Republic Energy Ventures, LLC EQT Production Company	at least 1/8th per WV Code 22-6-8 DR 1202/129 AB 52/189
<b>871947</b>	<b><u>Jennifer L. Benn, et al.</u></b> Jennifer L. Benn Republic Energy Ventures, LLC, et al	Republic Energy Ventures, LLC EQT Production Company	at least 1/8th per WV Code 22-6-8 DR 1199/979 AB 52/491
<b>871448</b>	<b><u>Neil Baker, et al.</u></b>  Neil Baker American Shale Development, Inc. Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al Trans Energy, Inc. and American Shale Development, Inc.	American Shale Development, Inc., (50%) and Republic Energy Ventures, LLC, (50%) Republic Energy Ventures, LLC EQT Production Company EQT Production Company	at least 1/8th per WV Code 22-6-8 DR 1153/346 AB 48/496 AB 51/525 DR 1228/1
<b>871668</b>	<b><u>Denise L. Bissett, et al.</u></b> Denise L. Bissett Republic Energy Ventures, LLC, Republic Partners VIII, LLC, et al	Republic Energy Ventures, LLC EQT Production Company	at least 1/8th per WV Code 22-6-8 DR 1165/227 AB 51/525
<b>1042657</b>	<b><u>Chad W. Johnson, et al.</u></b> Chad W. Johnson and William R. Johnson	EQT Production Company	at least 1/8th per WV Code 22-6-8 DR 1250/995

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JUL 24 2020  
WV Department of  
Environmental Protection



Where energy meets innovation.™

4704902498

EQT Production Company  
400 Woodcliff Drive  
Canonsburg, PA 15317  
[www.eqt.com](http://www.eqt.com)

John Zavatchan  
Project Specialist - Permitting  
O.724-746-9073  
[jzavatchan@eqt.com](mailto:jzavatchan@eqt.com)

June 15, 2020

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

Re: Elliott 9H Gas Well  
Mannington District, Marion County

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 black ink, appearing to read 'John Zavatchan'.

John Zavatchan  
Project Specialist - Permitting



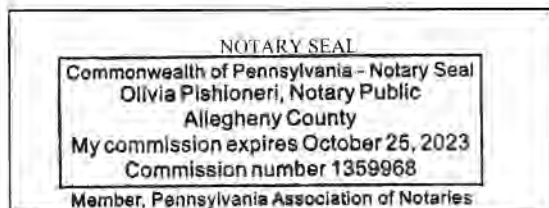


WW-6AC  
(1/12)

**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>724-746-9072</u>	Email:	<u>jzavatchan@eqt.com</u>



Subscribed and sworn before me this 16<sup>th</sup> day of June, 2020

Olivia Plishoneri Notary Public

My Commission Expires October 25, 2023

**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](mailto:depprivacyofficer@wv.gov).

**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:** 6/15/2020 **Date Permit Application Filed:** 6/16/2020

**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: Consolidation Coal Company  
Address: 46226 National Road  
St. Clairsville, OH 43950  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(S) (Road and/or Other Disturbance)  
Name: Consolidation Coal Company  
Address: 46226 National Road  
St. Clairsville, OH 43950  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(S) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: See Attached List  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(S)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary.

*[Faint signature and stamp area]*

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/office-and-gas/page/default.cfm](http://www.dep.wv.gov/office-and-gas/page/default.cfm).

**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



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 57<sup>th</sup> 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 § 22-6A-11(v)(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-forms/Forms/Forms/submit.asp> 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.

10/17/10  
11/1/10

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ -  
OPERATOR WELL NO. 9H  
Well Pad Name: Elliott

**Notice is hereby given by:**

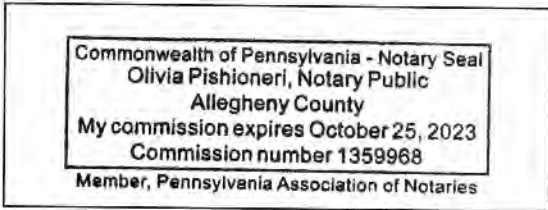
Well Operator: EQT Production Company  
Telephone: 724-746-9073  
Email: jzavatchan@eqt.com



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@pa.gov](mailto:deprivacyofficer@pa.gov).



Subscribed and sworn before me this 16<sup>th</sup> day of June, 2020.

[Signature] Notary Public

My Commission Expires October 25, 2023

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JUN 17 2020  
[Illegible text]



**Elliott Pad Coal Owners**

Randy Elliott ✓  
560 Carolina Avenue  
Chester, WV 26034

Leonard Stafford ✓  
200 Park Drive  
Mannington, WV 26582

Murray Energy Corporation ✓  
46226 National Rd W  
St. Clairsville, OH 43950

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JUN 17 2020  
WV Department of  
Environmental Protection

4704902498

Topo Quad: Glover Gap

Scale: 1" = 1000'

County: Marion

Date: December 17, 2019

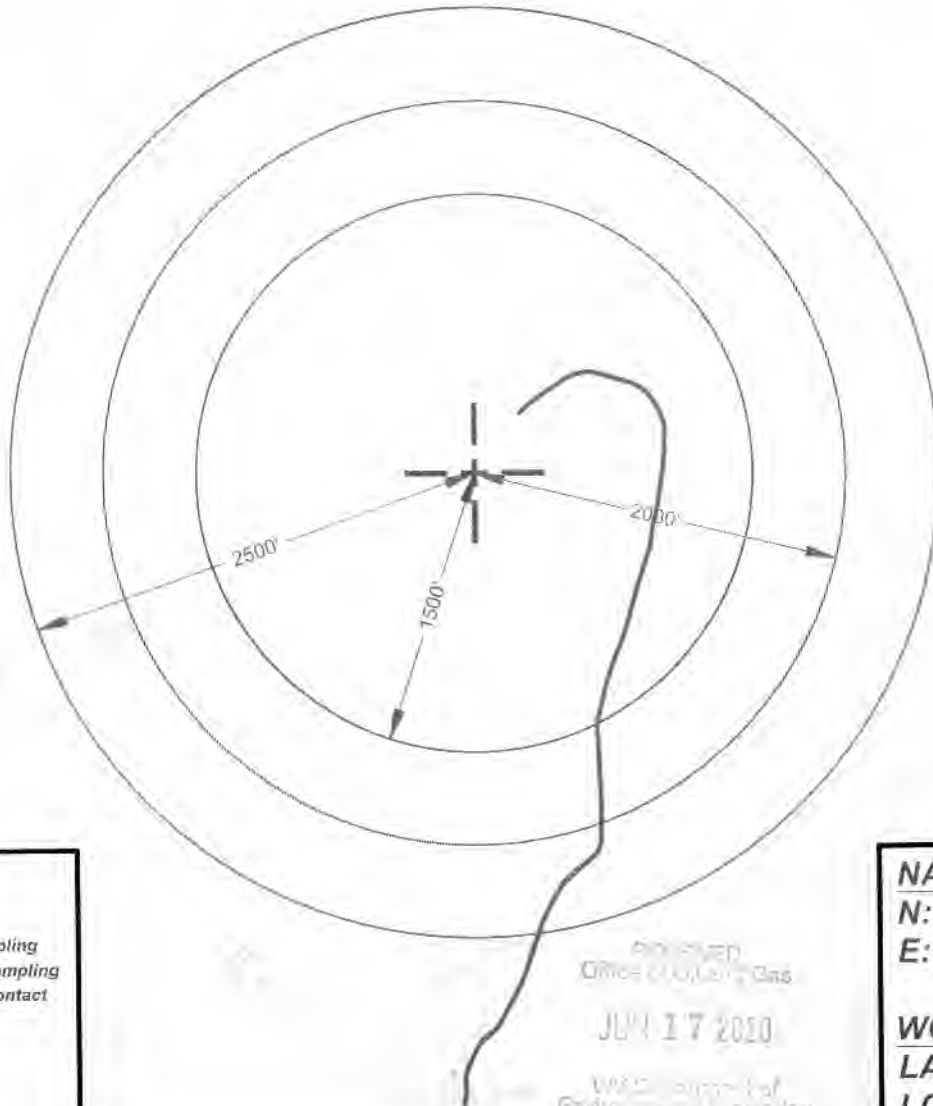
District: Mannington - 12

Project No: 48-18-M-18

Water

# ELLIOTT PAD

No Potential Water Sources within 2500'



## LEGEND

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

- Access Road
- Well
- Spring
- Pond
- Building

NAD 27, North Zone  
 N:381937.27  
 E:1751215.33

WGS 84  
 LAT:39.545371  
 LONG:-80.382026  
 ELEV:1,343

PROCESSED  
 Office of Oil, Gas

JUN 17 2020

WV Department of  
 Environmental Protection



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

2400 Ansys Drive, Suite 200  
 Canonsburg, PA 15317

**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:** 04/20/2020 **Date Permit Application Filed:** 05/15/2020

**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: Consolidation Coal Company  
Address: 48226 National Road  
St. Clairsville OH 43950

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>553,082.27</u>
County:	<u>Marion</u>	UTM NAD 83 Northing:	<u>4,377,489.85</u>
District:	<u>Mannington</u>	Public Road Access:	<u>CR 5</u>
Quadrangle:	<u>Glover Gap</u>	Generally used farm name:	<u>Elliot</u>
Watershed:	<u>Tributary of Dents Run</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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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: 724-745-9073  
Email: jzavalchan@eqt.com  
Facsimile: 412-395-2974

Authorized Representative: John Zavalchan  
Address: 400 Woodcliff Drive  
Canonsburg, PA 15317  
Telephone: 724-745-9073  
Email: jzavalchan@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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**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:** 06/16/2020      **Date Permit Application Filed:** 06/16/2020

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

- CERTIFIED MAIL                                       HAND
- RETURN RECEIPT REQUESTED                                      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: <u>Consolidation Coal Company</u>	Name: _____
Address: <u>46226 National Road</u>	Address: _____
<u>St. Clairsville, OH 43950</u>	_____

**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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>593092 27</u>
County: <u>Marion</u>		Northing: <u>4377489 85</u>
District: <u>Mannington</u>	Public Road Access: <u>CR 5</u>	
Quadrangle: <u>Glover Gap</u>	Generally used farm name: <u>Consolidation Coal Company</u>	
Watershed: <u>Tributary of Dents Run</u>		

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: <u>EQT Production Company</u>	Address: <u>300 Woodriff Drive</u>
Telephone: <u>724-746-8073</u>	<u>Gettysburg, PA 15317</u>
Email: <u>jzavalchen@eqt.com</u>	Facsimile: <u>412-336-2974</u>

**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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION**  
**Division of Highways**

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

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

**May 19, 2020**

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

James A. Martin, Chief  
Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Elliott Pad, Marion County

Elliot 1H	Elliot 3H	Elliot 5H
Elliot 7H	Elliot 9H ✓	Elliot 11H
Elliot 13H	Elliot 15H	Elliot 17H

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2020-0295 which has been issued to EQT Production Company for access to the State Road for a well site located off Marion County Route 5 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-4  
File

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MAY 27 2020  
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		

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Oil and Gas  
JUN 17 2020  
WV Department of  
Environmental Protection



OPERATOR: EQT Production Company WELL NO: 9H

PAD NAME: Elliott

REVIEWED BY: John Zavatchan

SIGNATURE: 

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

#### Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR  
 DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR  
 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  
 DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions

*[Faint, illegible text and stamps in the bottom right corner]*



# EROSION & SEDIMENTATION CONTROL PLAN

## ELLIOT PAD

### MARION COUNTY

#### FOR

# EQT PRODUCT

DISTURBANCE BREAKDOWN			
ACCESS ROAD	WELL PAD	STOCKPILES	TOTAL DISTURBANCE
13.47 AC	10.47 AC	3.41 AC	27.35 AC

LANDOWNER DISTURBANCE BREAKDOWN				
LANDOWNER	DISTURBANCE FROM ACCESS ROAD	DISTURBANCE FROM WELL PAD	DISTURBANCE FROM STOCKPILES	TOTAL DISTURBANCE
12-34-37 CONSOLIDATION COAL	1.16 AC	1.33 AC	N/A	2.49 AC
12-34-39 CONSOLIDATION COAL	2.88 AC	N/A	N/A	2.88 AC
12-34-40 CONSOLIDATION COAL	9.30 AC	9.14 AC	3.41 AC	21.85 AC
UNKNOWN	0.13 AC	N/A	N/A	0.13 AC



REFERENCES: UNITED STATES GEOLOGICAL SURVEY - GLO



PROJECT I  
JUN

# DIEFFENBAUC

WELL LOCATIONS									
ASSIGNED WELL ID	API #	UTM (NAD83)	UTM (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD27)	EASTING (NAD27)	NORTHING (NAD 83 UTM METERS)	EASTING (NAD 83 UTM METERS)
1H		39 32 43.03805	80 22 55.85071	381944.9003	1719731.1300	381992.547	1751172.228	437747.8988	553065.425
3H		39 32 43.17518	80 22 55.76791	381958.7175	1719735.1480	381921.354	1751178.096	437747.137	553087.144
5H		39 32 43.31230	80 22 55.69511	381972.5346	1719744.9870	381935.182	1751183.904	437748.366	553088.853
7H		39 32 43.44943	80 22 55.62231	381986.3518	1719750.8230	381948.999	1751189.741	437748.606	553090.561
9H		39 32 43.58656	80 22 55.54951	382000.1889	1719756.6590	381962.816	1751195.579	437748.845	553092.269
11H		39 32 43.72369	80 22 55.47672	382013.9860	1719762.5020	381976.633	1751201.417	437749.084	553093.978
13H		39 32 43.86082	80 22 55.40392	382027.8032	1719768.3400	381990.450	1751207.255	437749.324	553095.686
15H		39 32 43.99795	80 22 55.33112	382041.6203	1719774.1790	382004.267	1751213.093	437750.563	553097.395
17H		39 32 44.13508	80 22 55.25832	382055.4374	1719780.0170	382018.084	1751218.931	437750.802	553099.103
2H		39 32 43.14981	80 22 55.43652	381955.8954	1719765.0960	381918.543	1751204.014	437747.195	553095.064
4H		39 32 43.28693	80 22 55.36372	381969.7125	1719770.9340	381932.360	1751209.852	437748.434	553096.772
6H		39 32 43.42405	80 22 55.29092	381983.5297	1719776.7730	381946.177	1751215.690	437748.673	553098.481
8H		39 32 43.56118	80 22 55.21812	381997.3468	1719782.6110	381959.994	1751221.527	437748.912	553100.189
10H		39 32 43.69830	80 22 55.14532	382011.1640	1719788.4490	381973.811	1751227.365	437749.151	553101.898
12H		39 32 43.83542	80 22 55.07252	382024.9812	1719794.2880	381987.628	1751233.203	437749.390	553103.606
14H		39 32 43.97255	80 22 54.99972	382038.7983	1719800.1260	382001.445	1751239.041	437750.629	553105.315
16H		39 32 44.10967	80 22 54.92692	382052.6154	1719805.9650	382015.263	1751244.879	437750.868	553107.023
18H		39 32 44.24680	80 22 54.85412	382066.4325	1719811.8030	382029.080	1751250.716	437751.107	553108.732

# RESTORATION CONTROL PLAN

## EXPANSION

### WEST VIRGINIA

## R

# ON COMPANY



JADRANGLE, WV 7.5 MINUTE SERIES



*SDW*  
*6/15/2020*

19070-089  
J20

# DIETZ & HRITZ, LLC



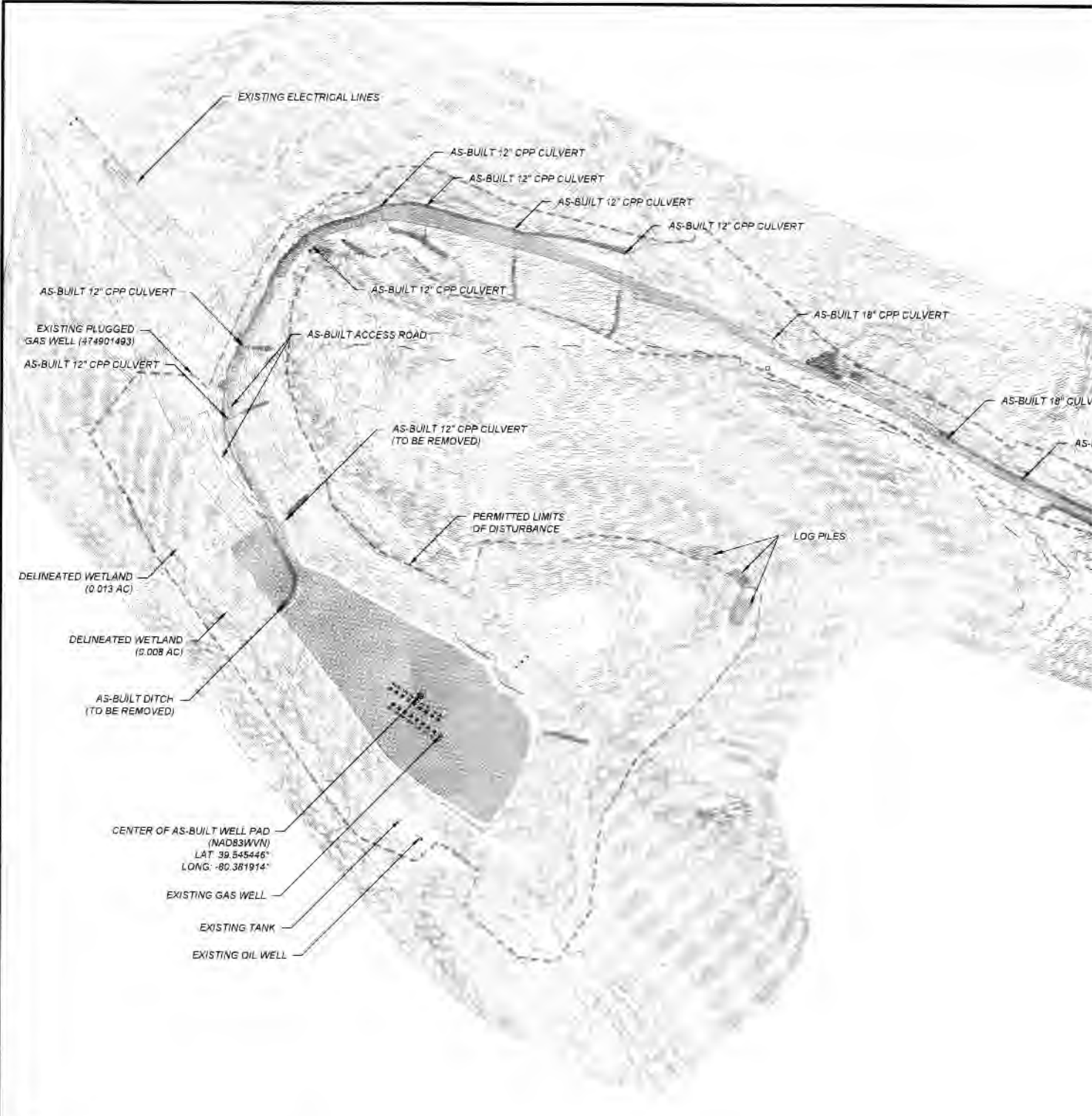
*Original of this*  
**JUN 17 2020**  
*MWD*  
*Environment*

INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	AS-BUILT SITE PLAN
3	PROPOSED SITE PLAN
4	PROPOSED RESTORATION PLAN
5-8	AS-BUILT ACCESS ROAD PROFILE
9-10	E&S TYPICAL SECTIONS
11-12	E&S DETAILS



NO.	DATE	REVISION
TMR DRAWN		
BLB CHECKED		
RCL APPROVED		
JUNE 2020 DATE		
19070-089 PROJECT NO.		
CLIENT		DIEFFENBAUCH & HRITZ, LLC 1095 Chaplin Road, Suite 200 Martinsburg, WV 26001 Phone: 304.886.5555 Fax: 304.886.5557
PROJECT		ELLIOT PAD EXPANSION MARION COUNTY, WEST VIRGINIA
TITLE		TITLE SHEET <b>1</b> DRAWING NO.
EQT PRODUCTION COMPANY		

SCALE: 1:300 PLOTTED: 6/11/2020 2:38 PM FILE: X:\OIL AND GAS\2018119070-089 - ELLIOT\CADD (K DRIVE) - P\PLANS\E&S\002\_AS-BUILT SITE PLAN.DWG



NOTES:  
 1. PERMITTED LIMITS OF DISTURBANCE: 27.35 ACRES

**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		RIPARIAN BUFFER
	PROPOSED GAS LINE		SUPER SILT FENCE (SSF)
	PROPOSED WATER LINE		TRIPLE CFS STACK / CFS SEDIMENT TRAP
	FILL LIMITS		EXISTING SPOT ELEVATION
	CUT LIMITS		PROPOSED SPOT ELEVATION
	TOE BENCH WITH DRAIN		EXISTING STRUCTURE
	ROADWAY CENTERLINE		PERMANENT PAVED
	SAFETY BERM		TEMPORARY GRAVEL
	LIMITS OF DISTURBANCE		PERMANENT GRAVEL
	EXISTING UTILITY POLE		

ASSIGNED WELL ID	API #	LAT(NAD83)	LONG(WAD83)	NORTHING(NAD83)	EASTING(NAD83)
1H		49° 32' 43.04805"	80° 22' 55.84071"	381944.9003	1719733.3
3H		39° 32' 43.17518"	80° 22' 55.76792"	381938.7175	1719739.1
5H		39° 32' 43.31230"	80° 22' 55.69511"	381972.5346	1719744.9
7H		39° 32' 43.44943"	80° 22' 55.62231"	381986.3518	1719750.8
9H		39° 32' 43.58655"	80° 22' 55.54951"	382000.1685	1719756.6
11H		39° 32' 43.72367"	80° 22' 55.47672"	382013.9860	1719762.5
13H		39° 32' 43.86080"	80° 22' 55.40392"	382027.8032	1719768.3
15H		39° 32' 43.99792"	80° 22' 55.33112"	382041.6203	1719774.1
17H		39° 32' 44.13505"	80° 22' 55.25832"	382055.4374	1719780.0





*SOW  
6/15/2020*

Marion County  
Office of Planning & Zoning  
JUN 17 2020  
WV Department of  
Environmental Protection

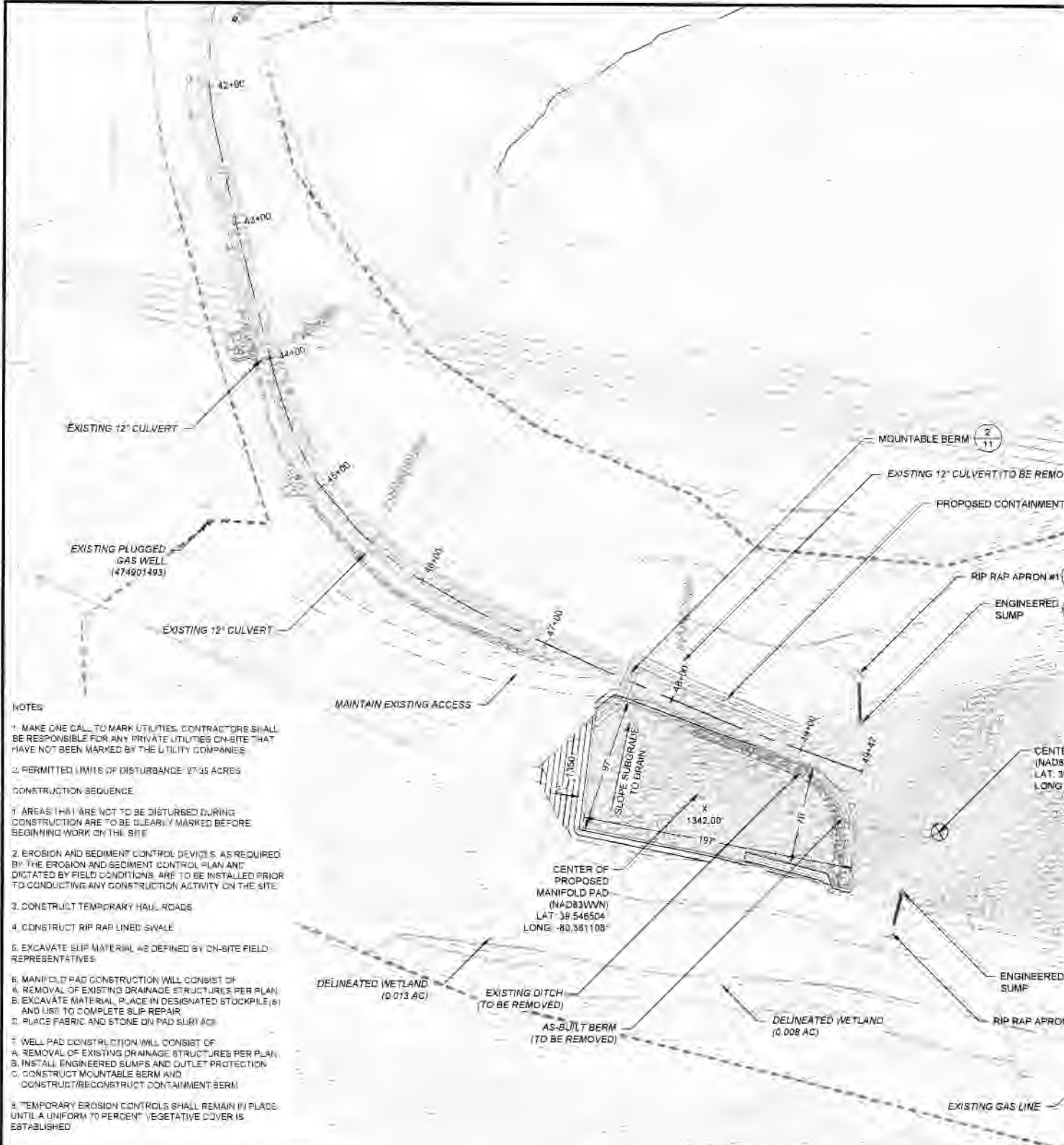
STATION	EASTING (NAD 27)	EASTING (NAD 83)	NORTHING (NAD 27)	NORTHING (NAD 83)
381907.547	1751172.228	4377472.888	553085.435	
381921.364	1751178.066	4377477.127	553087.144	
381935.182	1751183.904	4377481.366	553088.853	
381948.999	1751189.742	4377485.606	553090.561	
381962.816	1751195.579	4377489.845	553092.269	
381976.633	1751201.417	4377494.084	553093.978	
381990.450	1751207.255	4377498.323	553095.686	
382004.267	1751213.093	4377502.563	553097.395	
382018.084	1751218.931	4377506.802	553099.103	



NO.	DATE	REVISION	
TMR DRAWN			
BLB CHECKED			
RCL APPROVED			
JUNE 2020 DATE			
19070-089 PROJECT NO.			
<b>DIEFFENBAUCH &amp; HRTZ, LLC</b> 1095 Churchman Court, Suite 200 Morgantown, WV 26501 www.dandhengineers.com P: 304.985.5555 F: 304.985.5557			
CLIENT	EQT PRODUCTION COMPANY		
PROJECT	ELLIOT PAD EXPANSION MARION COUNTY, WEST VIRGINIA		
TITLE	AS-BUILT SITE PLAN		
DRAWING NO.	2		



SCALE: 1:100 PLOTTED: 01/12/2020 2:40 PM FILE: X:\VOL AND CASE\DOT2019\1907U-089 - ELLIOT\CADD\K DRIVE\ - PA\PLANS\E&S\DOT3 - PROPOSED SITE PLAN\_01.20.20.DWG



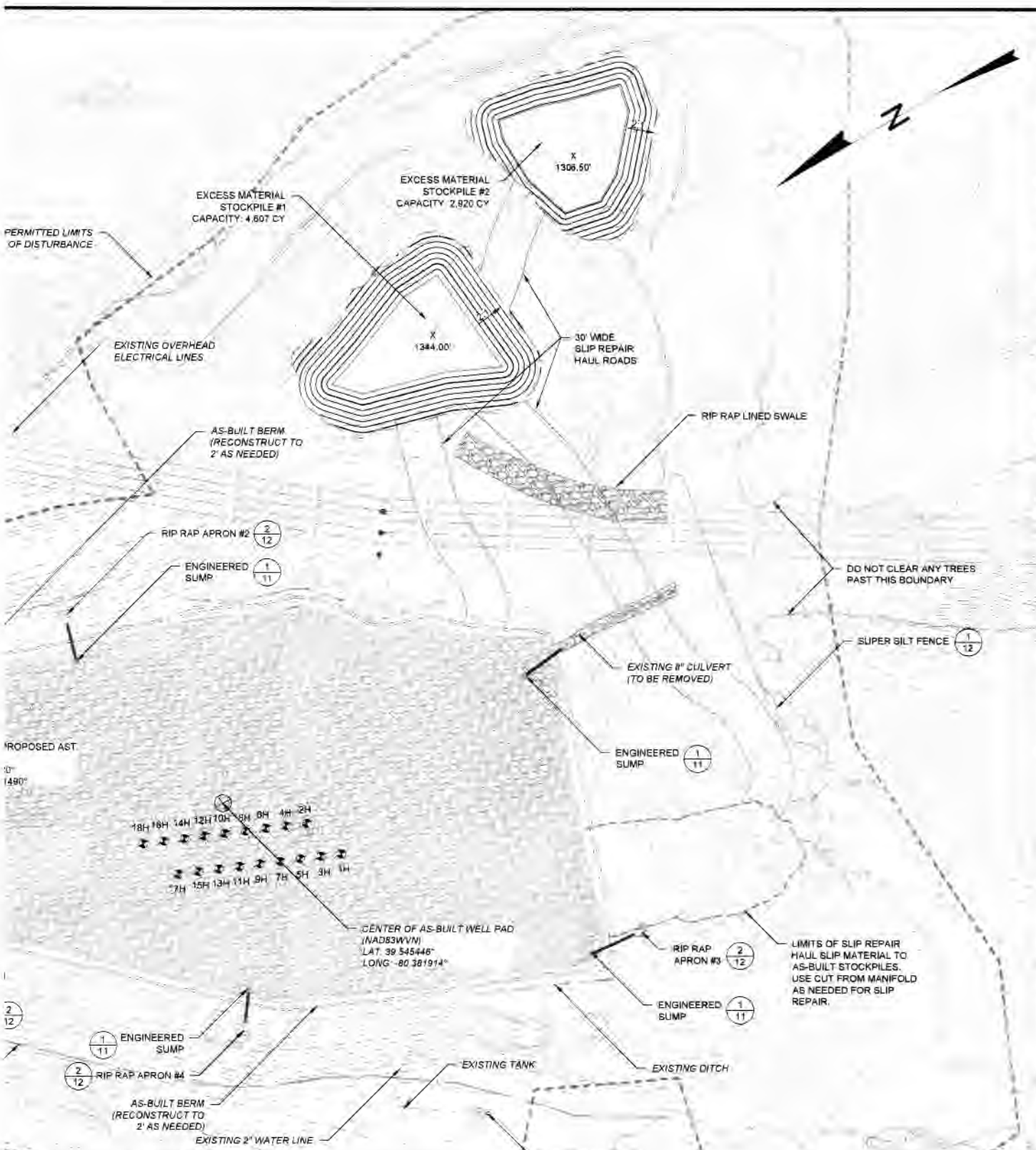
- NOTES**
1. MAKE ONE CALL TO MARK UTILITIES. CONTRACTORS SHALL BE RESPONSIBLE FOR ANY PRIVATE UTILITIES ON-SITE THAT HAVE NOT BEEN MARKED BY THE UTILITY COMPANIES.
  2. PERMITTED LIMITS OF DISTURBANCE: 27.35 ACRES
- CONSTRUCTION SEQUENCE**
1. AREAS THAT ARE NOT TO BE DISTURBED DURING CONSTRUCTION ARE TO BE CLEARLY MARKED BEFORE BEGINNING WORK ON THE SITE.
  2. EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLAN AND DICTATED BY FIELD CONDITIONS ARE TO BE INSTALLED PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITY ON THE SITE.
  3. CONSTRUCT TEMPORARY HAUL ROADS.
  4. CONSTRUCT RIP RAP LINED SWALE.
  5. EXCAVATE SLIP MATERIAL AS DEFINED BY ON-SITE FIELD REPRESENTATIVES.
  6. MANIFOLD PAD CONSTRUCTION WILL CONSIST OF:
    - A. REMOVAL OF EXISTING DRAINAGE STRUCTURES PER PLAN.
    - B. EXCAVATE MATERIAL, PLACE IN DESIGNATED STOCKPILE (S) AND USE TO COMPLETE SLIP REPAIR.
    - C. PLACE FABRIC AND STONE ON PAD (S) (AC).
  7. WELL PAD CONSTRUCTION WILL CONSIST OF:
    - A. REMOVAL OF EXISTING DRAINAGE STRUCTURES PER PLAN.
    - B. INSTALL ENGINEERED SUMPS AND OUTLET PROTECTION.
    - C. CONSTRUCT MOUNTABLE BERM AND CONSTRUCT/RECONSTRUCT CONTAINMENT BERM.
  8. TEMPORARY EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL A UNIFORM 70 PERCENT VEGETATIVE COVER IS ESTABLISHED.

**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	---	ROADWAY BOUNDARY	---
EXISTING GAS LINE	---	RIPARIAN BUFFER	---
PROPOSED GAS LINE	---	SUPER SILT FENCE (SSF)	---
PROPOSED WATER LINE	---	TRIPLE CFS STACK / CFS SEDIMENT TRAP	---
FILL LIMITS	---	EXISTING SPOT ELEVATION	---
CUT LIMITS	---	PROPOSED SPOT ELEVATION	---
TB	---	EXISTING STRUCTURE	---
TOE BENCH WITH DRAIN	---	PERMANENT PAVED	---
ROADWAY CENTERLINE	---	TEMPORARY GRAVEL	---
SAFETY BERM	---	PERMANENT GRAVEL	---
LIMITS OF DISTURBANCE	---		
EXISTING UTILITY POLE	---		

ASSIGNED WELL ID	AP#	EASTING (NAD83)	NORTHING (NAD83)	WELL	EXISTING GN
1H		30732.4363805	38722.5584571	381344.5000	1719753.7
2H		30732.4363805	38722.5584571	381358.7178	1719753.7
3H		30732.4363805	38722.5584571	381372.5446	1719744.4
4H		30732.4363805	38722.5584571	381386.3518	1719750.1
5H		30732.4363805	38722.5584571	381400.1689	1719757.1
11H		30732.4363805	38722.5584571	381413.9860	1719762.1
12H		30732.4363805	38722.5584571	381427.8032	1719768.1
13H		30732.4363805	38722.5584571	381441.6203	1719774.1
14H		30732.4363805	38722.5584571	381455.4375	1719780.1
15H		30732.4363805	38722.5584571	381469.2546	1719786.1
16H		30732.4363805	38722.5584571	381483.0718	1719792.1
17H		30732.4363805	38722.5584571	381496.8889	1719798.1
18H		30732.4363805	38722.5584571	381510.7061	1719804.1
19H		30732.4363805	38722.5584571	381524.5232	1719810.1
20H		30732.4363805	38722.5584571	381538.3404	1719816.1
21H		30732.4363805	38722.5584571	381552.1575	1719822.1
22H		30732.4363805	38722.5584571	381565.9747	1719828.1
23H		30732.4363805	38722.5584571	381579.7918	1719834.1
24H		30732.4363805	38722.5584571	381593.6090	1719840.1
25H		30732.4363805	38722.5584571	381607.4261	1719846.1
26H		30732.4363805	38722.5584571	381621.2433	1719852.1
27H		30732.4363805	38722.5584571	381635.0604	1719858.1
28H		30732.4363805	38722.5584571	381648.8776	1719864.1
29H		30732.4363805	38722.5584571	381662.6947	1719870.1
30H		30732.4363805	38722.5584571	381676.5119	1719876.1

SCALE: 0 50 FT.



**POINTS**

NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD83 UTM METERS)	EASTING (NAD83 UTM METERS)
381907.547	1751172.228	4377472.868	553086.415
381921.384	1751175.066	4377477.127	553087.144
381935.182	1751183.904	4377481.366	553088.853
381946.999	1751189.741	4377485.606	553090.561
381962.816	1751195.579	4377489.845	553092.269
381976.633	1751201.417	4377494.084	553093.978
381990.450	1751207.255	4377498.323	553095.686
382004.267	1751213.093	4377502.563	553097.395
382018.084	1751218.931	4377506.802	553099.103
381918.543	1751204.014	4377476.399	553095.064
381932.360	1751206.851	4377480.638	553096.772
381946.177	1751211.689	4377484.878	553098.481
381959.994	1751221.527	4377488.117	553100.188
381973.811	1751227.365	4377493.356	553101.898
381987.628	1751233.203	4377497.596	553103.606
382001.445	1751239.041	4377501.835	553105.315
382015.263	1751244.878	4377506.074	553107.023
382029.080	1751250.716	4377510.313	553108.732

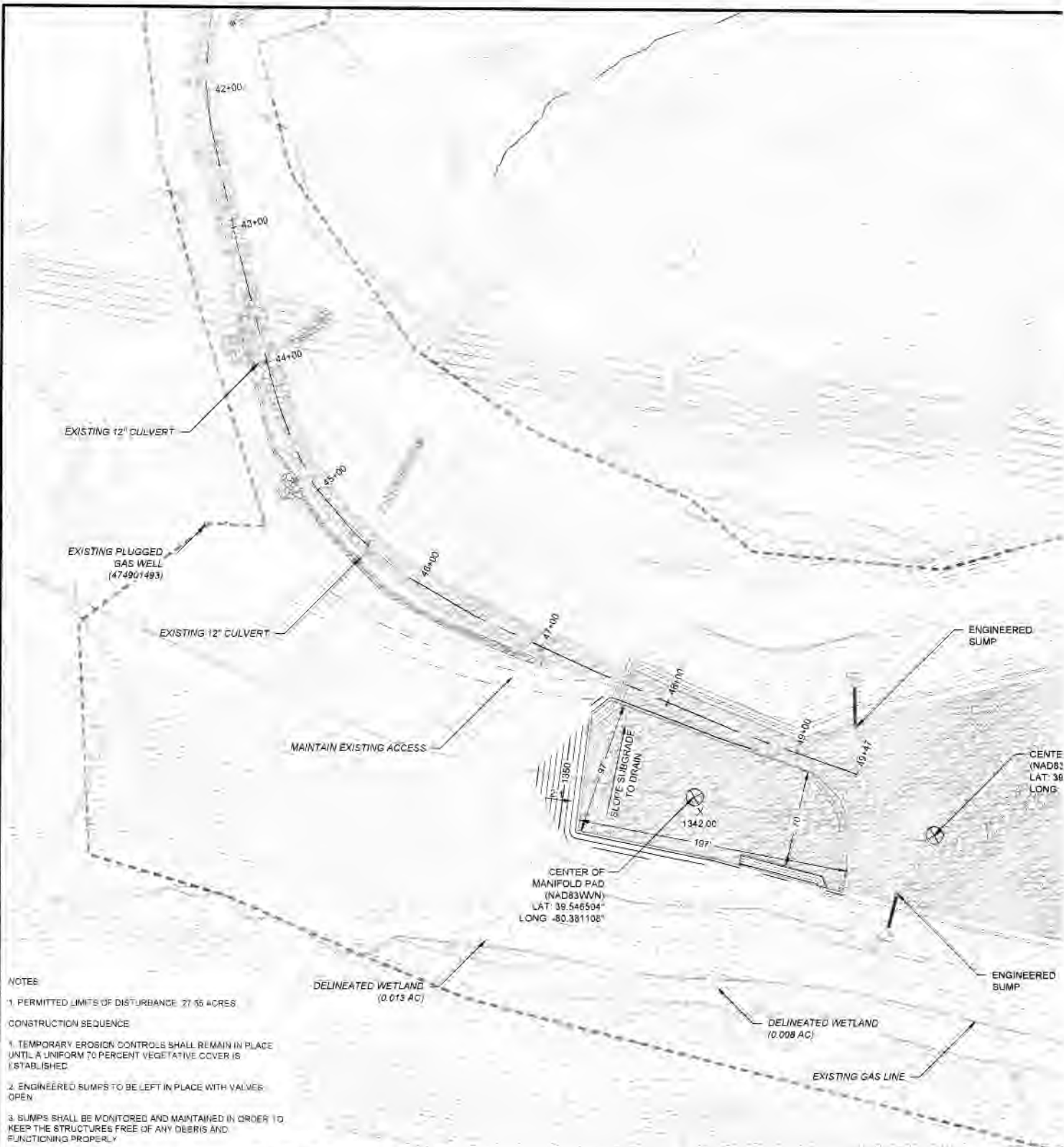
*SPW  
6/11/2020*



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REVISION		DATE		NO.	
TMR DRAWN		BLB CHECKED		RCL APPROVED	
JUNE 2020 DATE					
19070-089 PROJECT NO.					
<b>DIFFENBAUCH &amp; HRITZ, LLC</b> <small>1000 Chapel Hill Road, Suite 200          Marion, WV 26157          www.dhengineers.com          P. 304.895.5555 F. 304.895.5557</small>					
EQT PRODUCTION COMPANY					
<b>ELLIOT PAD EXPANSION</b> <small>MARION COUNTY, WEST VIRGINIA</small>					
<b>PROPOSED SITE PLAN</b>					
3					
DRAWING NO.					



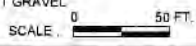
**NOTES**

- 1. PERMITTED LIMITS OF DISTURBANCE: 27.55 ACRES
- CONSTRUCTION SEQUENCE
- 1. TEMPORARY EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL A UNIFORM 70 PERCENT VEGETATIVE COVER IS ESTABLISHED
- 2. ENGINEERED SUMPS TO BE LEFT IN PLACE WITH VALVES OPEN
- 3. SUMPS SHALL BE MONITORED AND MAINTAINED IN ORDER TO KEEP THE STRUCTURES FREE OF ANY DEBRIS AND FUNCTIONING PROPERLY

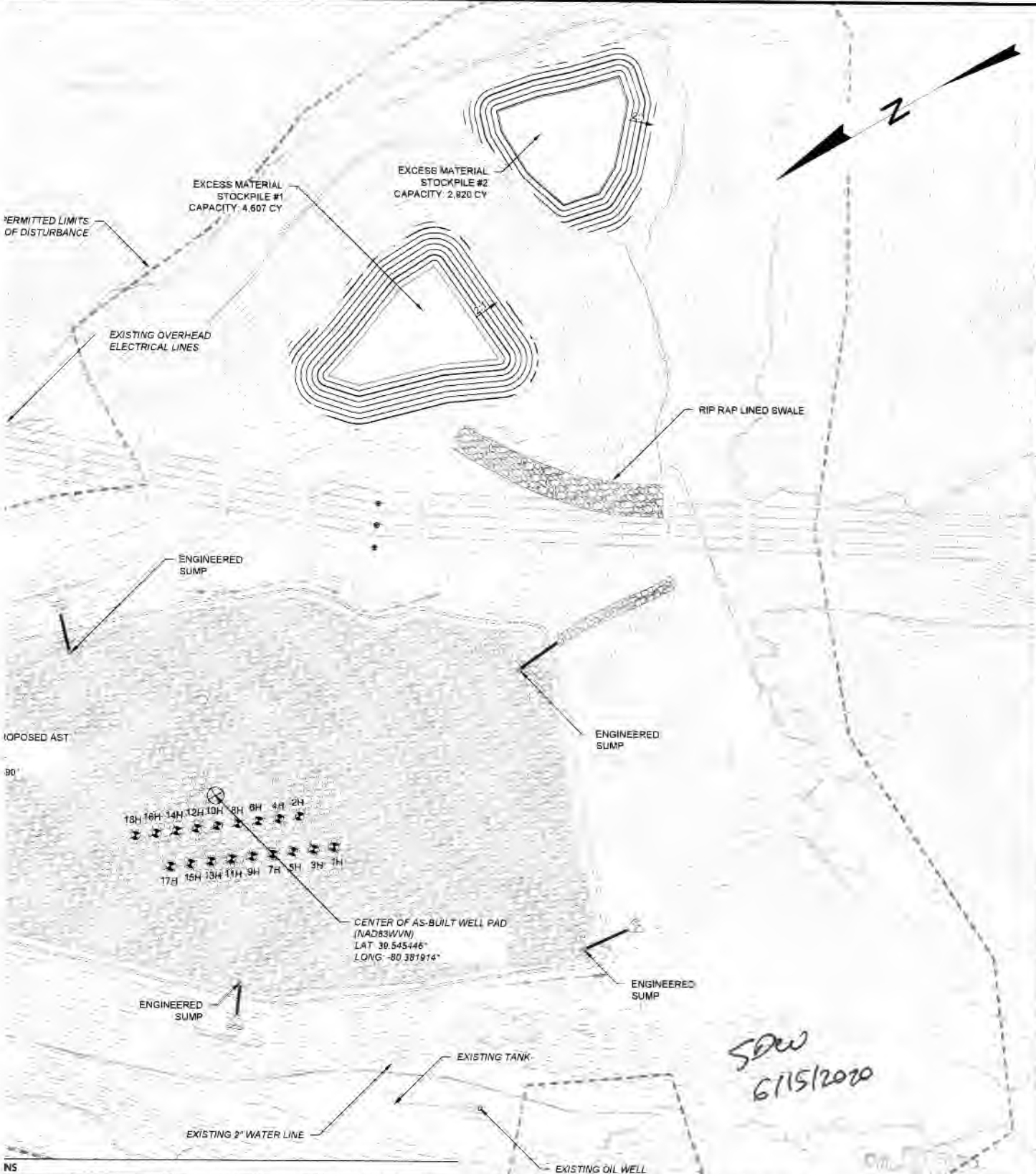
**LEGEND**

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	---	SUPER SILT FENCE (SSF)	---
PROPOSED WATER LINE	---	TRIPLE CFS STACK / CFS SEDIMENT TRAP	---
FILL LIMITS	---	EXISTING SPOT ELEVATION	---
CUT LIMITS	---	PROPOSED SPOT ELEVATION	---
TOE BENCH WITH DRAIN	---	EXISTING STRUCTURE	---
ROADWAY CENTERLINE	---	PERMANENT PAVED	---
SAFETY BERM	---	TEMPORARY GRAVEL	---
LIMITS OF DISTURBANCE	---	PERMANENT GRAVEL	---
EXISTING UTILITY POLE	---		

ASSIGNED WELL ID	API #	LAT (NAD83)	LONG (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	WELL #
1H		39 32 43.03633	80 22 55.84071	381944.9003	1719733.3	
3H		39 32 43.17518	80 22 55.76791	381958.7173	1719739.1	
5H		39 32 43.31230	80 22 55.69511	381972.5345	1719744.9	
7H		39 32 43.44943	80 22 55.62231	381986.3518	1719750.8	
9H		39 32 43.58655	80 22 55.54951	382000.1689	1719756.6	
11H		39 32 43.72367	80 22 55.47671	382013.9860	1719762.5	
13H		39 32 43.86080	80 22 55.40391	382027.8032	1719768.3	
15H		39 32 43.99792	80 22 55.33111	382041.6203	1719774.1	
17H		39 32 44.13505	80 22 55.25831	382055.4374	1719780.0	
19H		39 32 44.27217	80 22 55.18551	382069.2545	1719785.8	
21H		39 32 44.40930	80 22 55.11271	382083.0716	1719791.6	
23H		39 32 44.54642	80 22 55.04001	382096.8887	1719797.4	
25H		39 32 44.68355	80 22 54.96721	382110.7058	1719803.2	
27H		39 32 44.82067	80 22 54.89441	382124.5229	1719809.0	
29H		39 32 44.95780	80 22 54.82161	382138.3400	1719814.8	
31H		39 32 45.09492	80 22 54.74881	382152.1571	1719820.6	
33H		39 32 45.23205	80 22 54.67601	382165.9742	1719826.4	
35H		39 32 45.36917	80 22 54.60321	382179.7913	1719832.2	
37H		39 32 45.50630	80 22 54.53041	382193.6084	1719838.0	
39H		39 32 45.64342	80 22 54.45761	382207.4255	1719843.8	







NAD 83	NAD 2011	NAD 83 UTM METERS	NAD 2011 UTM METERS
381907.547	1751172.128	4377472.888	553085.435
381921.354	1751176.066	4377477.127	553087.144
381935.182	1751181.904	4377481.366	553088.853
381948.999	1751188.741	4377485.606	553090.561
381962.816	1751195.579	4377489.845	553092.269
381976.633	1751201.417	4377494.084	553093.978
381990.450	1751207.255	4377498.323	553095.686
382004.267	1751213.093	4377502.562	553097.395
382018.084	1751218.931	4377506.802	553099.103
382031.901	1751224.769	4377511.041	553100.811
382045.718	1751230.607	4377515.280	553102.519
382059.535	1751236.445	4377519.519	553104.227
382073.352	1751242.283	4377523.758	553105.935
382087.169	1751248.121	4377528.000	553107.643
382100.986	1751253.959	4377532.239	553109.351

	NO.	DATE	REVISION
TMR DRAWN			
BLB CHECKED			
RCL APPROVED			
JUNE 2020 DATE			
19070-088 PROJECT NO.			
<b>DIEFFENBAUGH &amp; HIRTZ, LLC</b> 1095 Claxton Road, Suite 200 Monticello, VA 26501 www.dandhengineers.com P: 304.965.5555 F: 304.965.5557			
<b>EQT PRODUCTION COMPANY</b>			
<b>ELLIOT PAD EXPANSION</b> MARION COUNTY, WEST VIRGINIA			
<b>PROPOSED SITE RESTORATION PLAN</b>			
<b>4</b>			DRAWING NO.

*SDW*  
*6/15/2020*

*JUN 17 2020*



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# EROSION & SEDIMENT CONTROL PLAN

## ELLIOT PAD EXPANSION

### MARION COUNTY, WEST VIRGINIA

## FOR

# EQT PRODUCTION COMPANY

LANDOWNER	ENVIRONMENTAL RESTRICTIONS			TOTAL RESTRICTIONS
	VEGETATION	SETBACK	SETBACK	
JANOWSKI	0.5 A/C	5.0 A/C	0.5 A/C	6.0 A/C
TO 20 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	0.5 A/C	0.5 A/C	0.5 A/C	1.5 A/C
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150	0.5 A/C	0.5 A/C	0.5 A/C	1.5 A/C
151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200	0.5 A/C	0.5 A/C	0.5 A/C	1.5 A/C



PROJECT NO. 18070-089  
JUNE 2020

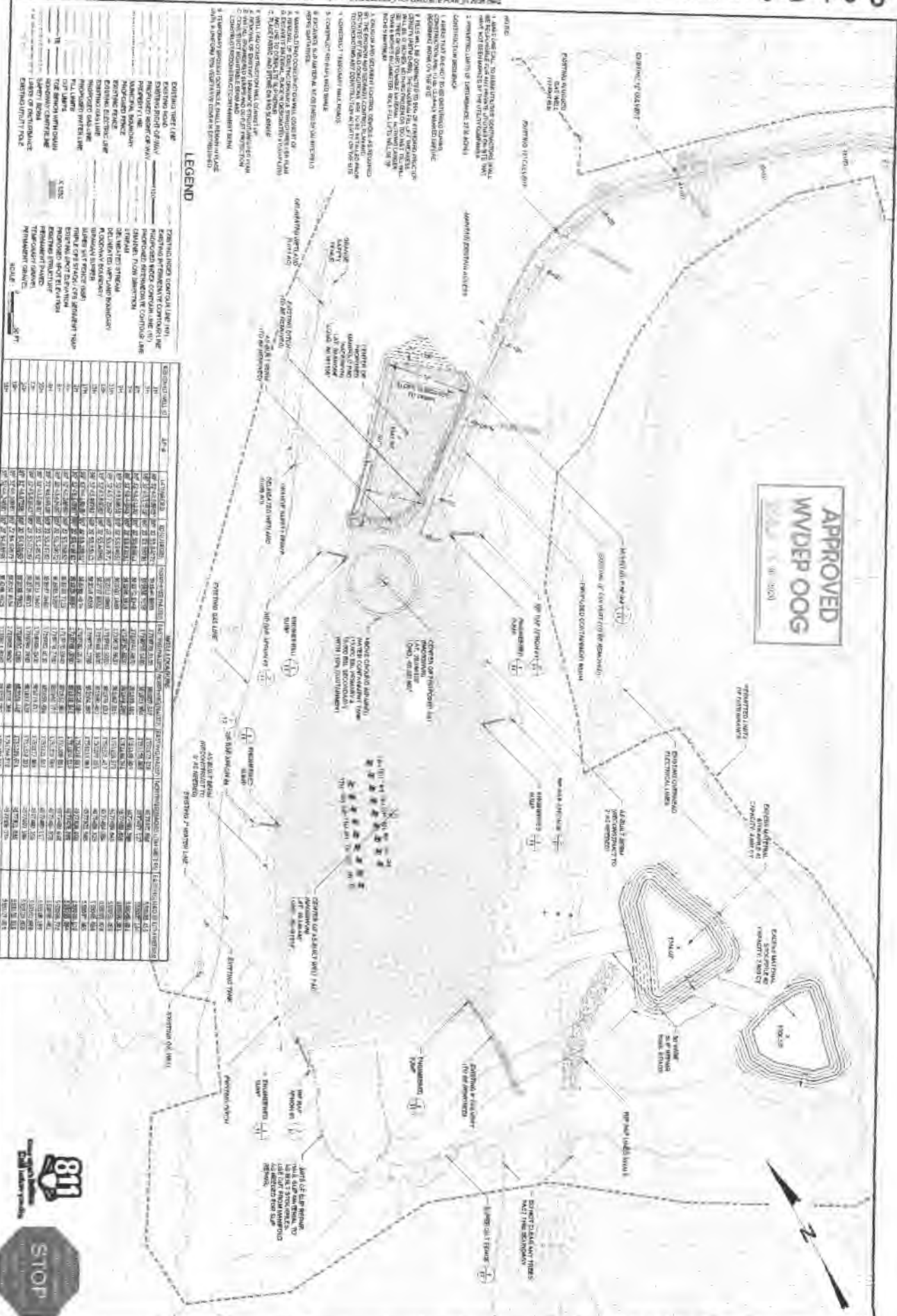
DIFFENBAUGH & HRITZ, LLC



NO.	DESCRIPTION	DATE	BY	CHECKED	DATE	BY
1	PRELIMINARY PLAN	10/15/19	RC			
2	REVISED PLAN	11/15/19	RC			
3	REVISED PLAN	12/15/19	RC			
4	REVISED PLAN	01/15/20	RC			
5	REVISED PLAN	02/15/20	RC			
6	REVISED PLAN	03/15/20	RC			
7	REVISED PLAN	04/15/20	RC			
8	REVISED PLAN	05/15/20	RC			
9	REVISED PLAN	06/15/20	RC			
10	REVISED PLAN	07/15/20	RC			

NO.	DESCRIPTION	DATE	BY	CHECKED	DATE	BY
1	INDEX	10/15/19	RC			
2	INDEX	11/15/19	RC			
3	INDEX	12/15/19	RC			
4	INDEX	01/15/20	RC			
5	INDEX	02/15/20	RC			
6	INDEX	03/15/20	RC			
7	INDEX	04/15/20	RC			
8	INDEX	05/15/20	RC			
9	INDEX	06/15/20	RC			
10	INDEX	07/15/20	RC			





**LEGEND**

	EXISTING 15KV LINE
	PROPOSED 15KV LINE
	EXISTING 4KV LINE
	PROPOSED 4KV LINE
	EXISTING GAS LINE
	PROPOSED GAS LINE
	EXISTING WATER LINE
	PROPOSED WATER LINE
	EXISTING SEWER LINE
	PROPOSED SEWER LINE
	EXISTING STORM SEWER LINE
	PROPOSED STORM SEWER LINE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING MANHOLE
	PROPOSED MANHOLE
	EXISTING POLE
	PROPOSED POLE
	EXISTING TRANSFORMER
	PROPOSED TRANSFORMER
	EXISTING BUILDING
	PROPOSED BUILDING
	EXISTING ROAD
	PROPOSED ROAD
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING TREE
	PROPOSED TREE
	EXISTING UTILITY POLE
	PROPOSED UTILITY POLE
	EXISTING MANHOLE
	PROPOSED MANHOLE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT

**WELL LOGS**

WELL NO.	DATE	DEPTH (FEET)	FORMATION	WATER BEARING	WELL TYPE	STATUS
1	01/15/2024	100	CLAY	NO	WATER SUPPLY	ACTIVE
2	02/20/2024	120	SAND	YES	WATER SUPPLY	ACTIVE
3	03/10/2024	150	CLAY	NO	WATER SUPPLY	ACTIVE
4	04/05/2024	180	SAND	YES	WATER SUPPLY	ACTIVE
5	05/01/2024	200	CLAY	NO	WATER SUPPLY	ACTIVE
6	06/15/2024	220	SAND	YES	WATER SUPPLY	ACTIVE
7	07/20/2024	250	CLAY	NO	WATER SUPPLY	ACTIVE
8	08/10/2024	280	SAND	YES	WATER SUPPLY	ACTIVE
9	09/05/2024	300	CLAY	NO	WATER SUPPLY	ACTIVE
10	10/15/2024	320	SAND	YES	WATER SUPPLY	ACTIVE
11	11/20/2024	350	CLAY	NO	WATER SUPPLY	ACTIVE
12	12/10/2024	380	SAND	YES	WATER SUPPLY	ACTIVE
13	01/05/2025	400	CLAY	NO	WATER SUPPLY	ACTIVE
14	02/15/2025	420	SAND	YES	WATER SUPPLY	ACTIVE
15	03/20/2025	450	CLAY	NO	WATER SUPPLY	ACTIVE
16	04/10/2025	480	SAND	YES	WATER SUPPLY	ACTIVE
17	05/05/2025	500	CLAY	NO	WATER SUPPLY	ACTIVE
18	06/15/2025	520	SAND	YES	WATER SUPPLY	ACTIVE
19	07/20/2025	550	CLAY	NO	WATER SUPPLY	ACTIVE
20	08/10/2025	580	SAND	YES	WATER SUPPLY	ACTIVE
21	09/05/2025	600	CLAY	NO	WATER SUPPLY	ACTIVE
22	10/15/2025	620	SAND	YES	WATER SUPPLY	ACTIVE
23	11/20/2025	650	CLAY	NO	WATER SUPPLY	ACTIVE
24	12/10/2025	680	SAND	YES	WATER SUPPLY	ACTIVE
25	01/05/2026	700	CLAY	NO	WATER SUPPLY	ACTIVE
26	02/15/2026	720	SAND	YES	WATER SUPPLY	ACTIVE
27	03/20/2026	750	CLAY	NO	WATER SUPPLY	ACTIVE
28	04/10/2026	780	SAND	YES	WATER SUPPLY	ACTIVE
29	05/05/2026	800	CLAY	NO	WATER SUPPLY	ACTIVE
30	06/15/2026	820	SAND	YES	WATER SUPPLY	ACTIVE
31	07/20/2026	850	CLAY	NO	WATER SUPPLY	ACTIVE
32	08/10/2026	880	SAND	YES	WATER SUPPLY	ACTIVE
33	09/05/2026	900	CLAY	NO	WATER SUPPLY	ACTIVE
34	10/15/2026	920	SAND	YES	WATER SUPPLY	ACTIVE
35	11/20/2026	950	CLAY	NO	WATER SUPPLY	ACTIVE
36	12/10/2026	980	SAND	YES	WATER SUPPLY	ACTIVE
37	01/05/2027	1000	CLAY	NO	WATER SUPPLY	ACTIVE

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