



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, October 14, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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


Re: Permit approval for ELLIOTT 7H
47-049-02502-00-00

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: ELLIOTT 7H
Farm Name: CONSOLIDATION COAL CO. 
U.S. WELL NUMBER: 47-049-02502-00-00
Horizontal 6A New Drill
Date Issued: 10/14/2020

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

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

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.



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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.

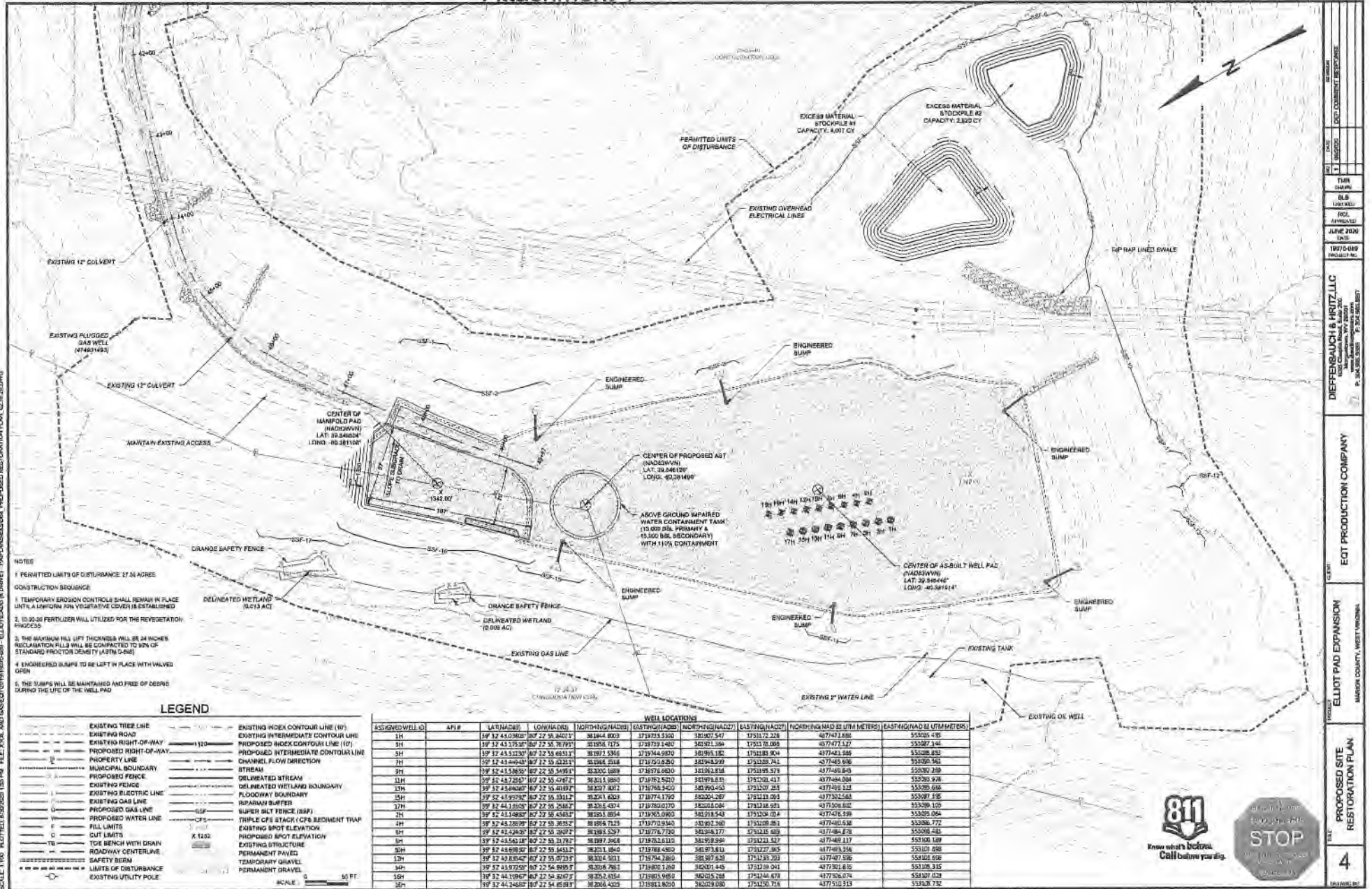
Thus ORDERED, the 30th day of July, 2020.

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

Attachment 1



SCALE: 1"=80' PLATTED: BRUNNEN LLP FILE: 2408 AND UNPLATTED: BRUNNEN LLP DRAWN: J. HANSEN/BRUNNEN/PROPOSED RESTORATION PLAN, 02-20-2024

DATE: 02/20/24	DRAWN: J. HANSEN	CHECKED: J. HANSEN	PROJECT: ELLIPT PAD EXPANSION
DATE: 02/20/24	DRAWN: J. HANSEN	CHECKED: J. HANSEN	PROJECT: ELLIPT PAD EXPANSION
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DATE: 02/20/24	DRAWN: J. HANSEN	CHECKED: J. HANSEN	PROJECT: ELLIPT PAD EXPANSION
DIFFENBAUGH & HIRTZ LLC 10000 S. Highway 101, Suite 200 Fort Collins, CO 80504 P: 970.221.8888 F: 970.221.8887			
EQT PRODUCTION COMPANY MARION COUNTY, WEST VIRGINIA			
PROPOSED SITE RESTORATION PLAN			
4			

NOTES

1. PERMITTED LIMITS OF DISTURBANCE 27.24 ACRES CONSTRUCTION SEQUENCE
2. TEMPORARY EROSION CONTROL SHALL REMAIN IN PLACE UNTIL A LIGNORUM FOR VEGETATIVE COVER IS ESTABLISHED
3. 10.20-30 FERTILIZER WILL UTILIZED FOR THE REVEGETATION PROCESS
4. THIS MAXIMUM FILL LIFT THICKNESS WILL BE 24 INCHES RECLAIMATION FILL WILL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D-1557)
5. ENGINEERED BUMPS TO BE LEFT IN PLACE WITH WALLED OPEN
6. THE BUMPS WILL BE MAINTAINED AND FREE OF DEBRIS DURING THE LIFE OF THE WELL PAD

LEGEND

	EXISTING TREE LINE		EXISTING INDEX CONTOUR LINE (10')
	EXISTING RIGHT-OF-WAY		EXISTING INTERMEDIATE CONTOUR LINE
	PROPOSED RIGHT-OF-WAY		PROPOSED INTERMEDIATE CONTOUR LINE
	PROPERTY LINE		CHANNEL FLOW DIRECTION
	MUNICIPAL BOUNDARY		STREAM
	EXISTING FENCE		DELINEATED WETLAND
	EXISTING ELECTRIC LINE		DELINEATED WETLAND BOUNDARY
	EXISTING GAS LINE		FLOODWAY BOUNDARY
	PROPOSED GAS LINE		RIPIARIAN BUFFER
	PROPOSED WATER LINE		RIPIARIAN WET BUFFER
	FILL LIMITS		TRIPLE CFS STACK (CFS SEDIMENT TRAP)
	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		EXISTING UTILITY POLE

WELL LOCATIONS

ASSIGNED WELL ID	API #	LAT (NAD83)	LONG (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	EASTING (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD83)
1H	19 32 44.03802	40° 22' 35.36071	98 584 8093	1719733.5300	381907.547	1751172.226	427742.836	55826.436	
2H	19 32 43.17338	40° 22' 35.78792	98 584 1275	1719733.4455	381907.169	1751170.065	427741.122	55827.144	
3H	19 32 43.51233	40° 22' 35.65312	98 584 1536	1719734.9470	381915.182	1751181.904	427743.165	55828.943	
4H	19 32 43.44403	40° 22' 35.62311	98 584 1518	1719735.6260	381943.939	1751189.761	427745.936	55830.360	
5H	19 32 43.15835	40° 22' 35.54951	98 584 1889	1719736.6820	381962.816	1751199.579	427748.610	55832.780	
13H	19 32 44.22857	40° 22' 35.42972	98 611 1880	1719762.5210	381978.615	1751208.417	427749.804	55833.938	
13H	19 32 43.84887	40° 22' 35.40887	98 577 4372	1719768.9420	381960.453	1751207.851	427749.118	55835.068	
15H	19 32 43.95782	40° 22' 35.33112	98 581 6303	1719774.1790	382024.287	1751211.053	427750.563	55837.136	
17H	19 32 44.18508	40° 22' 35.26887	98 585 4374	1719780.0170	382018.084	1751218.991	427750.802	55839.120	
2H	19 32 43.14887	40° 22' 35.43687	98 585 054	1719763.0800	381918.548	1751208.054	427747.639	55835.064	
4H	19 32 43.28809	40° 22' 35.36852	98 586 7433	1719770.8440	381962.969	1751208.881	427748.538	55836.772	
5H	19 32 43.14887	40° 22' 35.36852	98 584 1536	1719776.7720	381964.177	1751211.889	427748.278	55836.543	
15H	19 32 43.56218	40° 22' 35.21927	98 597 3468	1719782.6110	381959.936	1751221.517	427749.117	55838.189	
20H	19 32 44.69887	40° 22' 35.14312	98 611 1840	1719788.4350	381971.811	1751227.385	427749.316	55839.808	
12H	19 32 43.85642	40° 22' 35.07237	98 614 3811	1719794.2860	381967.626	1751233.293	427747.936	55840.606	
14H	19 32 43.97259	40° 22' 34.98857	98 618 7813	1719801.1260	382001.445	1751239.241	427750.816	55839.316	
16H	19 32 44.10807	40° 22' 34.92027	98 625 0354	1719803.9460	382015.258	1751244.478	427750.074	55840.074	
18H	19 32 44.24687	40° 22' 34.85197	98 628 4305	1719811.8010	382029.080	1751250.716	427751.913	55840.732	



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: 7H 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
8/13/2020*

6) Existing Pad: Yes or No Yes

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

8) Proposed Total Vertical Depth: 7,631'

9) Formation at Total Vertical Depth: Hamilton

10) Proposed Total Measured Depth: 7,840'

11) Proposed Horizontal Leg Length: 0

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

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(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____
WV Department of Environmental Protection

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	26	New	A-500	85.6	40	40	60 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1025	1025	900 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2485	2485	1000 ft ³ / CTS
Production	5 1/2	New	P-110	20	7840	7840	500' above intermediate casing
Tubing							
Liners							

*SDW
8/13/2020*

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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:				

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

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

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

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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.

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

4704902502



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

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

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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Charleston, WV 25304
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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
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**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.

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CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well
ELLIOT (GLO187)

v 2017.4
 Enertia # #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	Top RR	Base RR
Fresh Water Zone	1	287		FW @ 202,287, ...		
Coal	435	437	Coal			
Sewickley	870	875	Coal			
Pittsburgh	967	975	Coal			
Big Lime	2182	2308	Limestone	SW @ 1797,1895,2412.		
Big Injun	2308	2435	Sandstone			
Int. csg 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	with black shale			
Genesee	7545	7582	Black Shale			
Tully	7582	7613	Limestone			
Hamilton	7613	7719	calcareous shales			
Marcellus	7719	7820	Black Shale			
Purcell	7785	7787	Limestone			
-Lateral Zone	7770					
Cherry Valley	7801	7803	Limestone			
Onondaga	7820		Limestone			

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 EXTEND** beyond recommended wellbore to avoid lease line.

RECOMMENDED CASING POINTS

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

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EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317
P: 724-746-9073 | www.eqt.com

4704901502

August 13, 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 7H

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,

A handwritten signature in blue ink, appearing to read 'John Zavatchan'.

John Zavatchan
Project Specialist - Permitting

Enc.

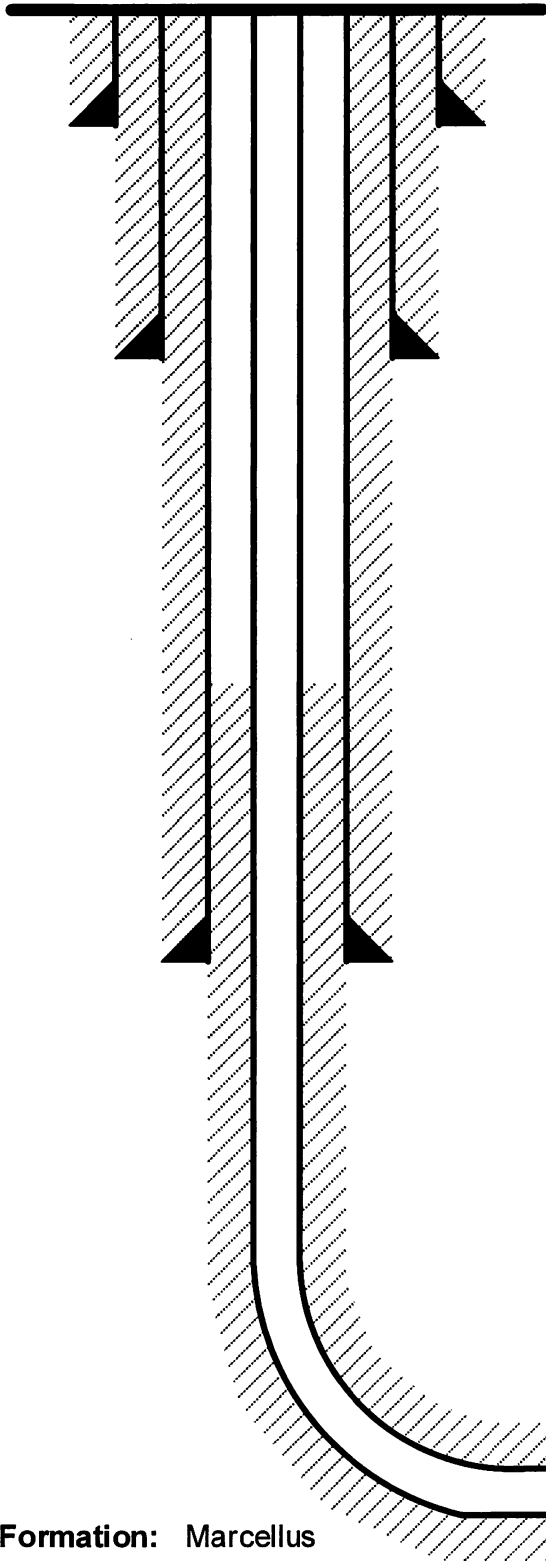
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EQT Production

Wellbore Diagram

Well: Elliot 7H
Pad: Elliot
Elevation: 1342' GL 1355' KB

County: Marion
State: West Virginia



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 @ 7,840' MD / 7,631' TVD
5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

Formation: Marcellus

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NOT TO SCALE

4704902502

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

June 11, 2020

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Page 1 of 2

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in 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.

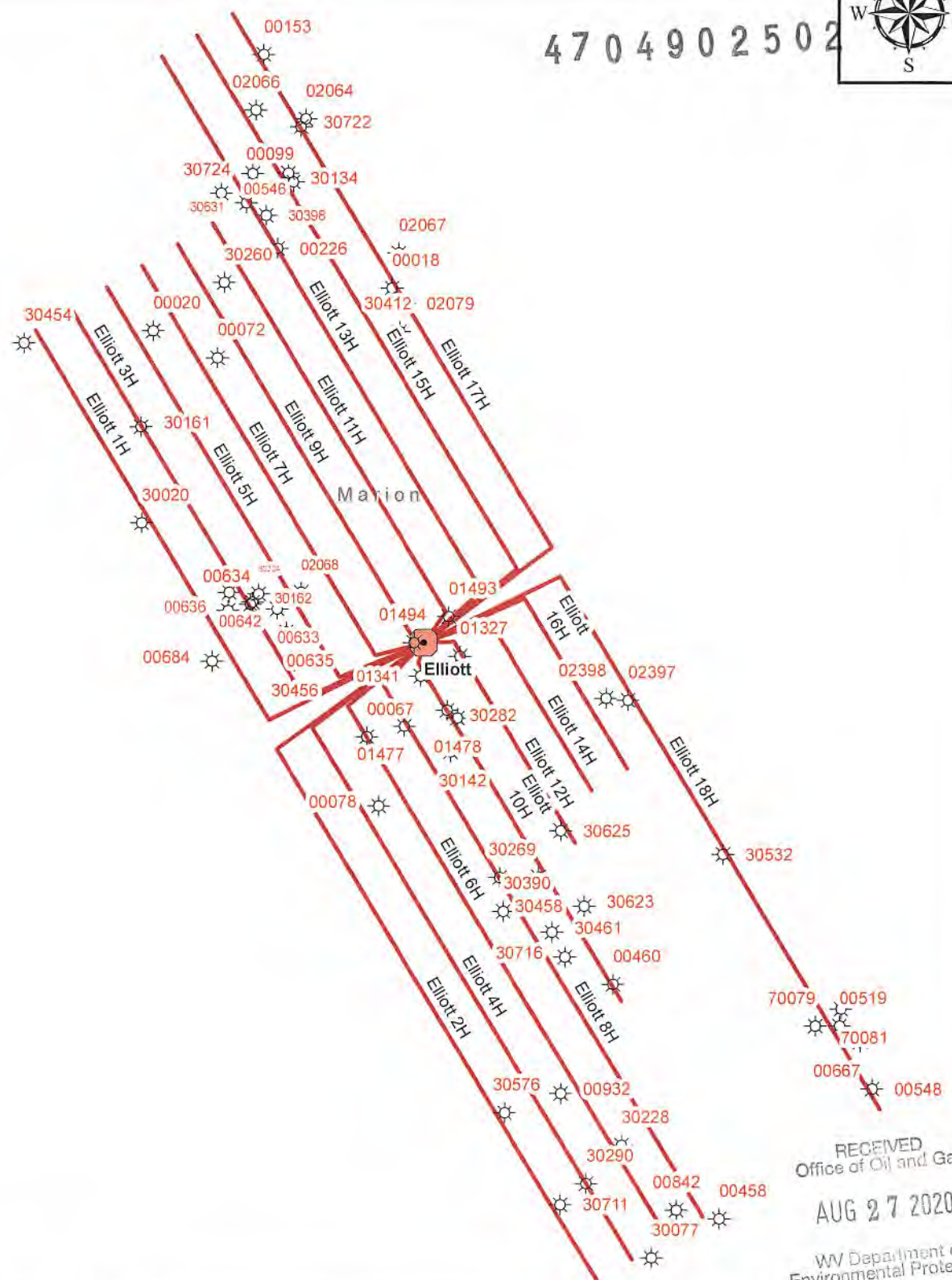
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EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

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

PA



Elliott
Vertical Offsets and
Foreign Laterals
within 500'

Table with columns: WellID, WellStatus, date, FmatTD, Permit, RemarksPRO, Operator, Longitude, Latitude, TargetFm, DatumEleva, TotalDepth-SS, Total Depth. Contains multiple rows of well data.

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WW-9
(4/16)

API Number 47 - 4704902502
Operator's Well No. Elliott 7H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) 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 _____)

*SDW
8/13/2020*

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

REC'D
Office of

AUG 27

Subscribed and sworn before me this 26th day of August, 2020

WV
Environment

[Signature] Notary Public

My commission expires October 25, 2023

Commonwealth of Pennsylvania - Notary Seal
Olivia Pishioneri, Notary Public
Allegheny County
My commission expires October 25, 2023
Commission number 1359968
Member, Pennsylvania Association of Notaries

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: SED Ward II

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible, per regulation. Upgrade E&S as necessary per WV DEP E&S Manual.

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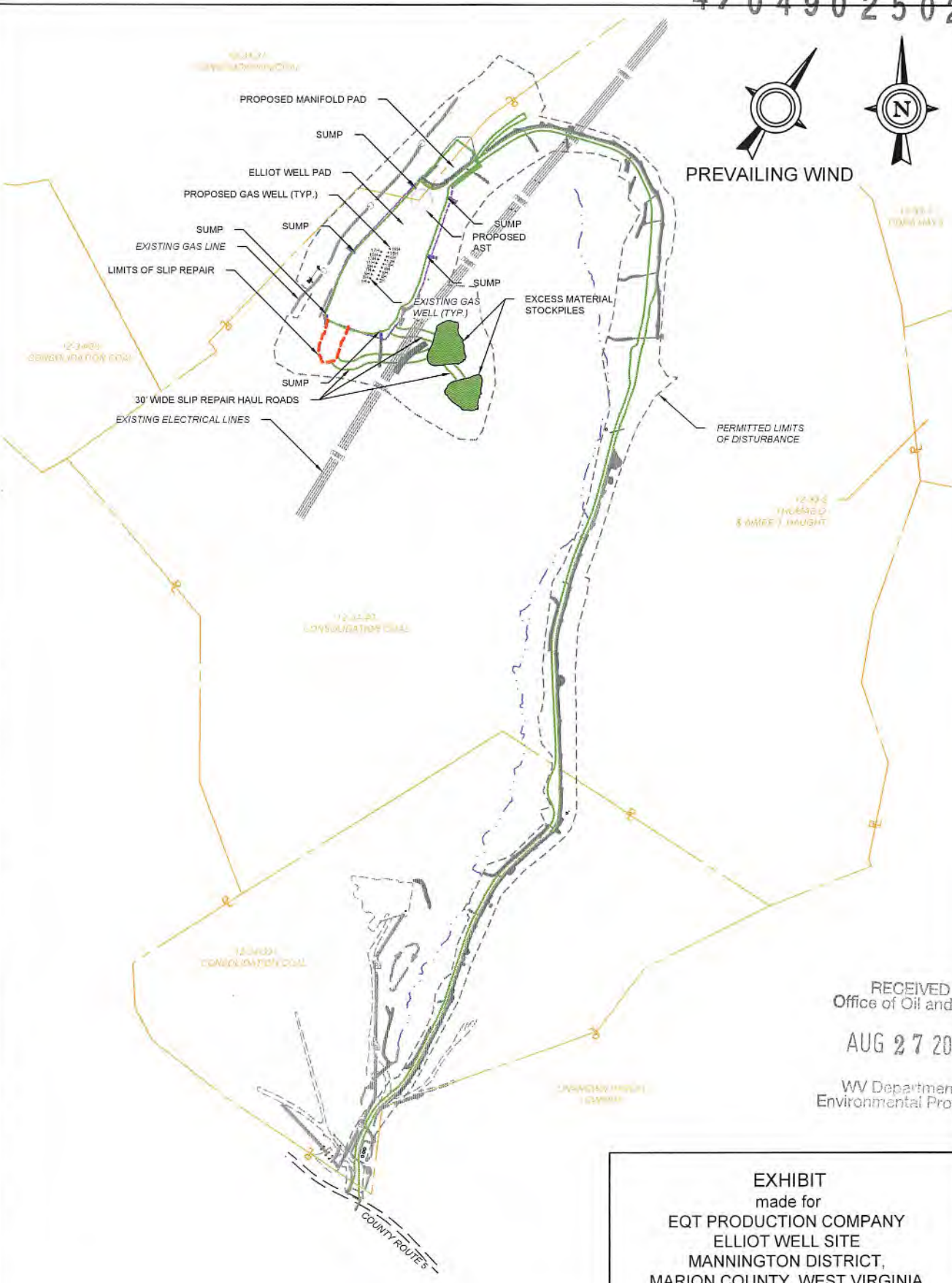
Title: OOG Inspector Date: 8/18/2020

Field Reviewed? () Yes () No

4704902502



PREVAILING WIND



SCALE: 1:500 PLOTTED: 4/30/2020 4:41 PM FILE: X:\OIL AND GAS\EQT2019\19070-089 - ELLIOT\CADD (K DRIVE) - PATO CLIENT\DWG\ELLIOT_WW-9 EXHIBIT_02.24.20.DWG

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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



4704902502

WW-9 Attachment

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

- Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or synthetic mud.

Additives to be used in drilling medium?

- Air - biodegradable oil lubricant, detergent, defoaming, water.
- Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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EQT Production Water Plan

Offsite Disposals for Unconventional Wells

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

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

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SITE SAFETY AND ENVIRONMENTAL PLAN

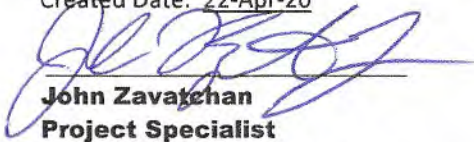
Elliot (GLO 187) Well Pad
Wells 1H, 3H, 5H, 7H, 9H, 11H, 13H, 15H, 17H

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
8/15/2020

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Topo Quad: Glover Gap

Scale: 1" = 1000 **4704902502**

County: Marion

Date: December 17, 2019

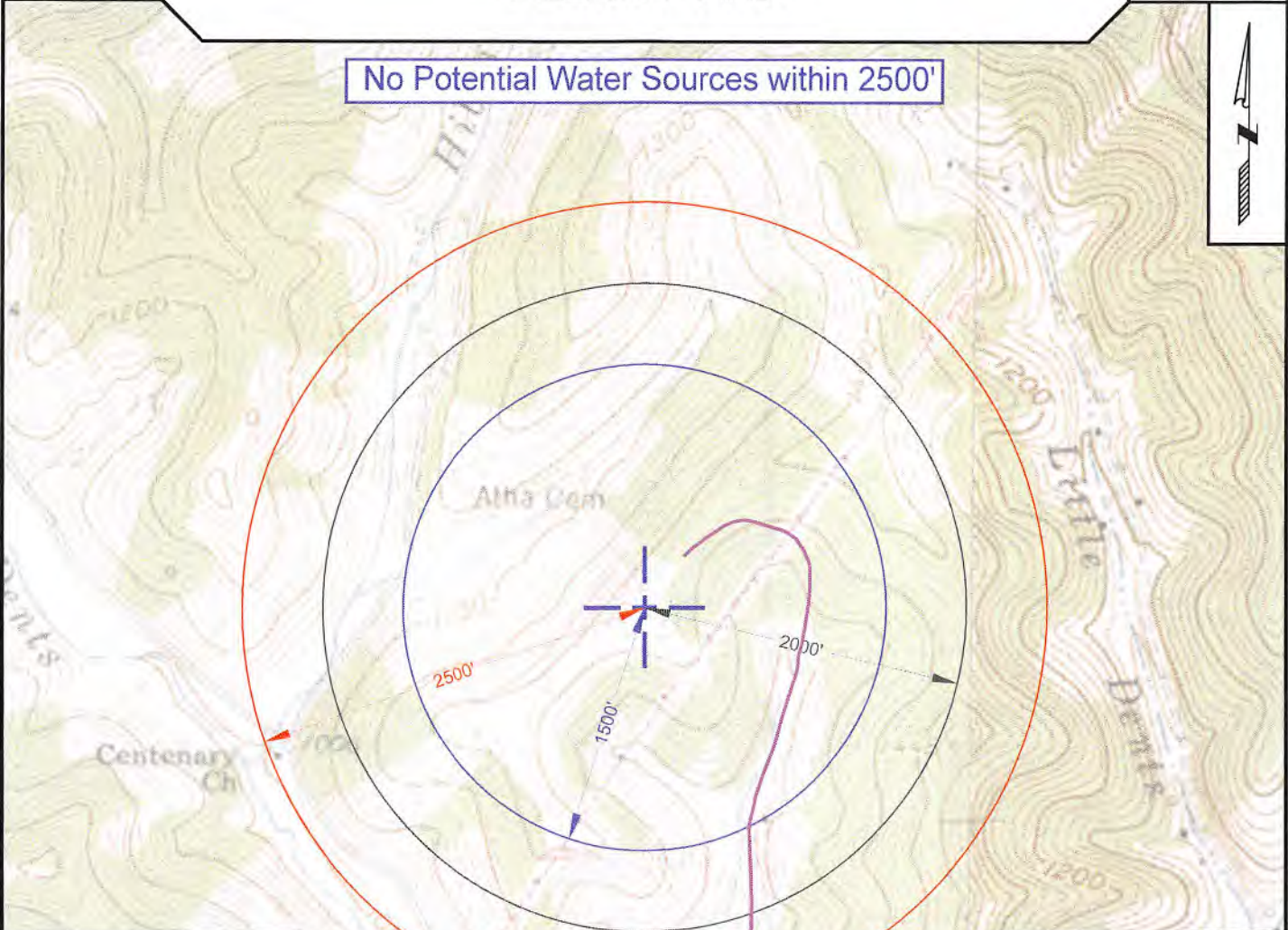
District: Mannington - 12

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



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

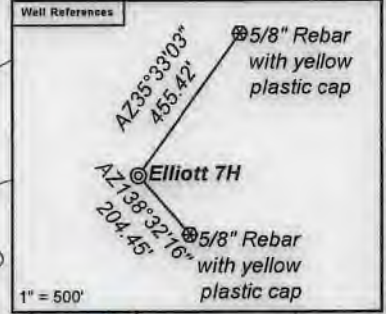
TH: 2079' LAT: 39-35-00

BH: 2987' LAT: 39-35-00

**Elliott 7H
GLO176
EQT Production Company**

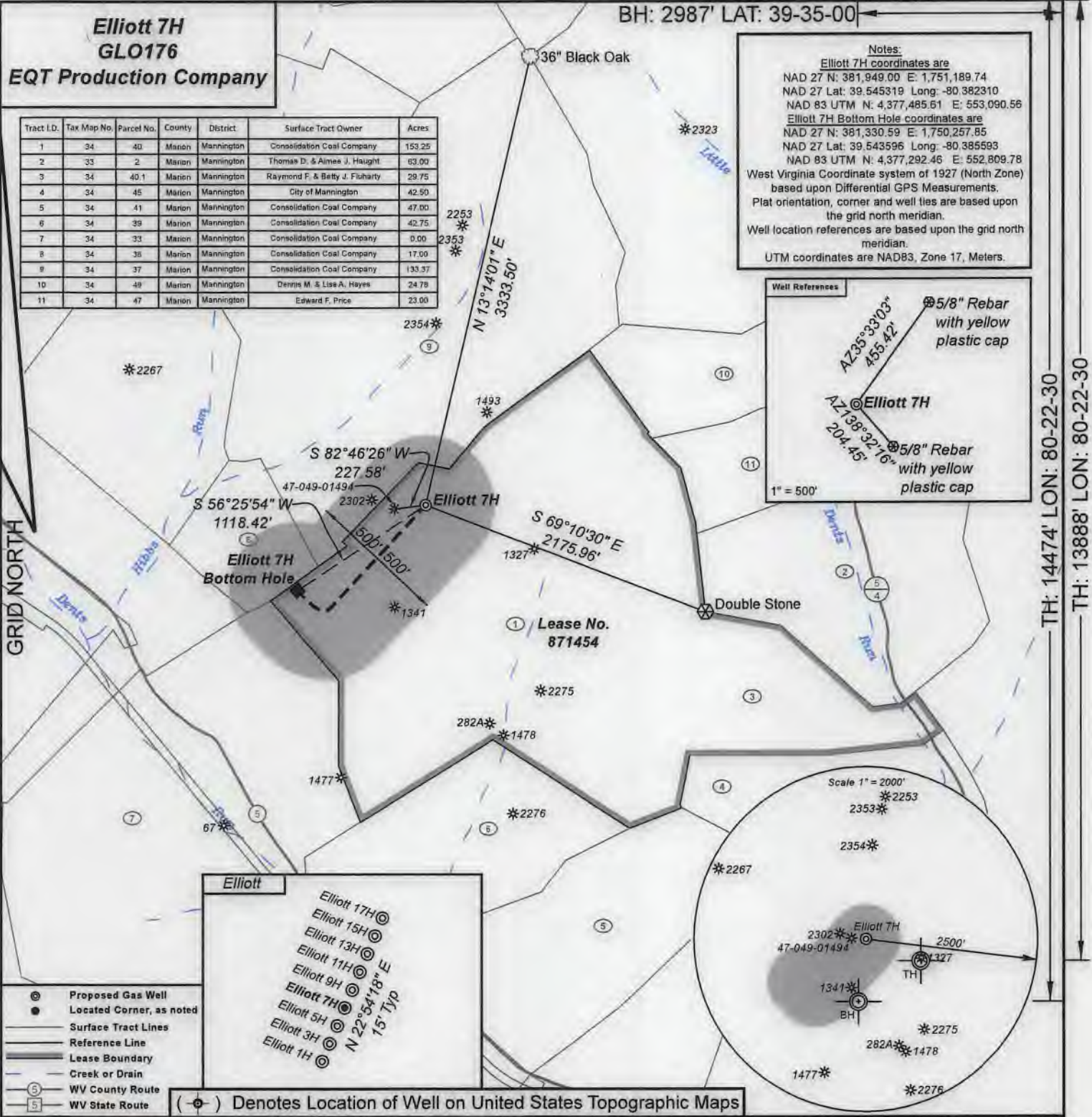
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	34	40	Marion	Mannington	Consolidation Coal Company	153.25
2	33	2	Marion	Mannington	Thomas D. & Aimee J. Haught	63.00
3	34	40.1	Marion	Mannington	Raymond F. & Betty J. Fuharty	29.75
4	34	45	Marion	Mannington	City of Mannington	42.50
5	34	41	Marion	Mannington	Consolidation Coal Company	47.00
6	34	39	Marion	Mannington	Consolidation Coal Company	42.75
7	34	33	Marion	Mannington	Consolidation Coal Company	0.00
8	34	38	Marion	Mannington	Consolidation Coal Company	17.00
9	34	37	Marion	Mannington	Consolidation Coal Company	133.37
10	34	49	Marion	Mannington	Dennis M. & Lisa A. Hayes	24.78
11	34	47	Marion	Mannington	Edward F. Price	23.00

Notes:
 Elliott 7H coordinates are
 NAD 27 N: 381,949.00 E: 1,751,189.74
 NAD 27 Lat: 39.545319 Long: -80.382310
 NAD 83 UTM N: 4,377,485.61 E: 553,090.56
 Elliott 7H Bottom Hole coordinates are
 NAD 27 N: 381,330.59 E: 1,750,257.85
 NAD 27 Lat: 39.543596 Long: -80.385593
 NAD 83 UTM N: 4,377,292.46 E: 552,809.78
 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.



GRID NORTH

TH: 14474' LON: 80-22-30
TH: 13888' LON: 80-22-30



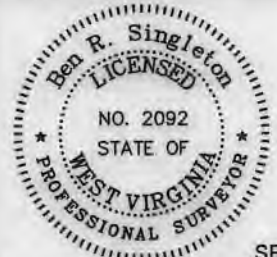
- Elliott**
- Elliott 17H
 - Elliott 15H
 - Elliott 13H
 - Elliott 11H
 - Elliott 9H
 - Elliott 7H
 - Elliott 5H
 - Elliott 3H
 - Elliott 1H
- N 22° 54' 18" E
15' Twp

- 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



FILE NO: 48-18
 DRAWING NO: Elliott 7H
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: August 19 20 20
 OPERATOR'S WELL NO.: Elliott 7H
 API WELL NO. H6A
 47 - 49 - 02562
 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: Consolidated Coal Company ACREAGE: 153.25
 ROYALTY OWNER: Randy J. Elliott and Leonard W. Stafford 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

**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

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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: Joseph C. Mallow
Its: Managing Director - Permitting and Civil

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
871454	Randy J. Elliott and Leonard W. Stafford	183 ac	At least 1/8th Per West Virginia Code Section 22-6-8	
	Randy J. Elliott, a married man dealing in his sole/sep. property	EQT Production Company		DR 1213/441
	Randy J. Elliott and Leonard W. Stafford	RJAL, Inc.		DR 971/747
	RJAL, Inc.	Falcon Holdings, LLC		DR 993/64
	Falcon Holdings, LLC	Gallatin Fuels, Inc.		AB 32/183
	Gallatin Fuels, Inc.	Leatherwood Inc.		AB 32/800
	RJAL, Inc.	Leatherwood Inc.		DR 1035/63
	Leatherwood Inc.	CNX Gas Company LLC		AB 42/174
	CNX Gas Company LLC	Noble Energy		AB 42/355
	Noble Energy	HG Energy II Appalachia, LLC		AB 53/166
	HG Energy II Appalachia, LLC	EQT Production Company		AB 56/389

* Covers 40 acres
 * Covers 143 acres

At least 1/8th Per West Virginia Code Section 22-6-8

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 Environmental Protection

4704902502



EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317
P: 724-746-9073 | www.eqt.com

August 26, 2020

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

Re: Elliott 7H 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 blue ink, appearing to read 'J. Zavatchan'.

John Zavatchan
Project Specialist - Permitting

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

Date of Notice Certification: 08/26/2020

API No. 47- _____ - _____

Operator's Well No. 7H

Well Pad Name: Elliott

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>553090.56</u>
County: <u>Marion</u>	Northing: <u>4377485.61</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>	

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED <div style="text-align: right;"> RECEIVED Office of Oil and Gas AUG 27 2020 </div>
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Required Attachments:

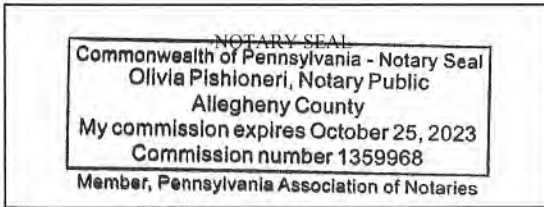
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

WV Department of Environmental Protection

Certification of Notice is hereby given:

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

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



Subscribed and sworn before me this 20th day of August, 2020
[Signature] 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.

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WW-6A
(9-13)

API NO. 47- 4704902502
OPERATOR WELL NO. 7H
Well Pad Name: Elliott

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: 8/25/2020 **Date Permit Application Filed:** 8/26/2020

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 AttachedList
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: _____

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*Please attach additional forms if necessary

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

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

Well Location Restrictions

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

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Secretary of State

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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

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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

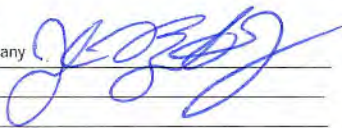
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(8-13)

API NO. 47- 4704902502
OPERATOR WELL NO. 9H
Well Pad Name: Elliott

Notice is hereby given by:

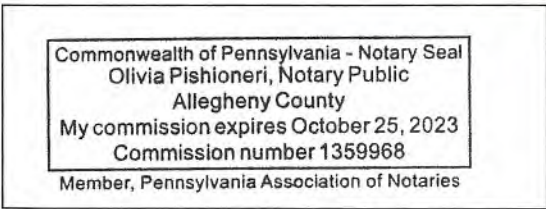
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com



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 depprivacyofficer@wv.gov.



Subscribed and sworn before me this 20th day of August, 2020

[Signature] Notary Public

My Commission Expires October 25, 2023

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4704902502

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
- S Spring
- ▲ Pond
- Building

NAD 27, North Zone
 N:381937.27
 E:1751215.33

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



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

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 Environmental Protection

Elliott Well Site

4704902502

Surface Owner (All Disturbance)

Consolidation Coal Company
46226 National Road
St. Clairsville, OH 43950

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

No Water Supply Owners within 1,500'

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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:** 08/26/2020

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: 46226 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>553,090.56</u>
County:	<u>Marion</u>		Northing:	<u>4,377,485.61</u>
District:	<u>Mannington</u>	Public Road Access:	<u>CR 5</u>	
Quadrangle:	<u>Glover Gap</u>	Generally used farm name:	<u>Elliott</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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

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

Authorized Representative: John Zavatchan
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 724-746-9073
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

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

RECORDED
Office of Oil and Gas
AUG 27 2020
WV Department of
Environmental Protection

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

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

Date of Notice: 08/25/2020 **Date Permit Application Filed:** 08/26/2020

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>553090.56</u>
County: <u>Marion</u>		Northing: <u>4377485.61</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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: <u>EQT Production Company</u>	Address: <u>400 Woodcliff Drive</u>
Telephone: <u>724-746-9073</u>	<u>Canonsburg, PA 15317</u>
Email: <u>jzavatchan@eqt.com</u>	Facsimile: <u>412-395-2974</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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil and Gas
AUG 27 2020
WV Department of
Environmental Protection



4704902502

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 57th 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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WV Department of
Environmental Protection

4704902502

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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Office of Oil and Gas

AUG 27 2020

WV Department of
Environmental Protection

EROSION & SEDIMENT CONTROL PLAN

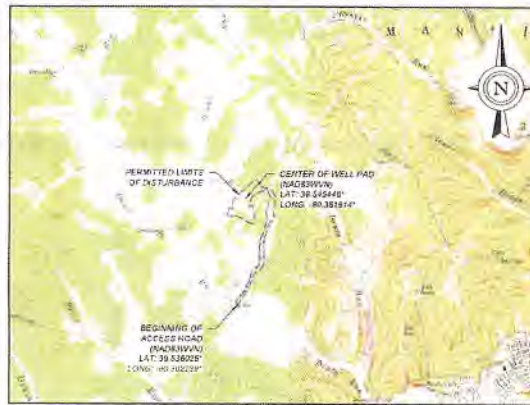
ELLIOT PAD EXPANSION

MARION COUNTY, WEST VIRGINIA

FOR

EQT PRODUCTION COMPANY

APPROVED
WVDEP OOG
7/30/2020



DISTURBANCE BREAKDOWN			
ACCESS ROAD	WELL PAD	STOCKPILES	TOTAL DISTURBANCE
13.47 AC	20.47 AC	3.41 AC	27.35 AC

LANDOWNER DISTURBANCE BREAKDOWN				
LANDOWNER	DISTURBANCE FROM ACCESS ROAD	DISTURBANCE FROM WELL PAD	DISTURBANCE FROM STOCKPILES	TOTAL DISTURBANCE
12-34-30 CONSOLIDATION COAL	1.85 AC	3.33 AC	N/A	2.49 AC
12-34-38 CONSOLIDATION COAL	2.58 AC	N/A	N/A	2.88 AC
12-34-40 CONSOLIDATION COAL	0.36 AC	9.14 AC	3.41 AC	21.85 AC
UNOWNED	0.13 AC	N/A	N/A	0.13 AC



PROJECT NO. 19070-089
JUNE 2020

DIEFFENBAUCH & HRITZ, LLC

4704902502



SDW
8/13/2020

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Office of Oil and Gas
AUG 27 2020
WV Department of
Environmental Protection

ASSIGNED WELL ID	API #	WELL LOCATIONS							
		LAT (NAD83)	LONG (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	ELEVATION (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	ELEVATION (NAD83)
101	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
201	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
301	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
401	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
501	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
601	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
701	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
801	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
901	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1001	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1101	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1201	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1301	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1401	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1501	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1601	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1701	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1801	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
1901	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
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2301	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
2401	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
2501	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
2601	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
2701	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
2801	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
2901	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071
3001	19 32 41 68025	39 22 55.3071	-80 15 41.9093	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071	39 22 55.3071

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
9-15	EAS TYPICAL SECTIONS
11-12	EAS DETAILS

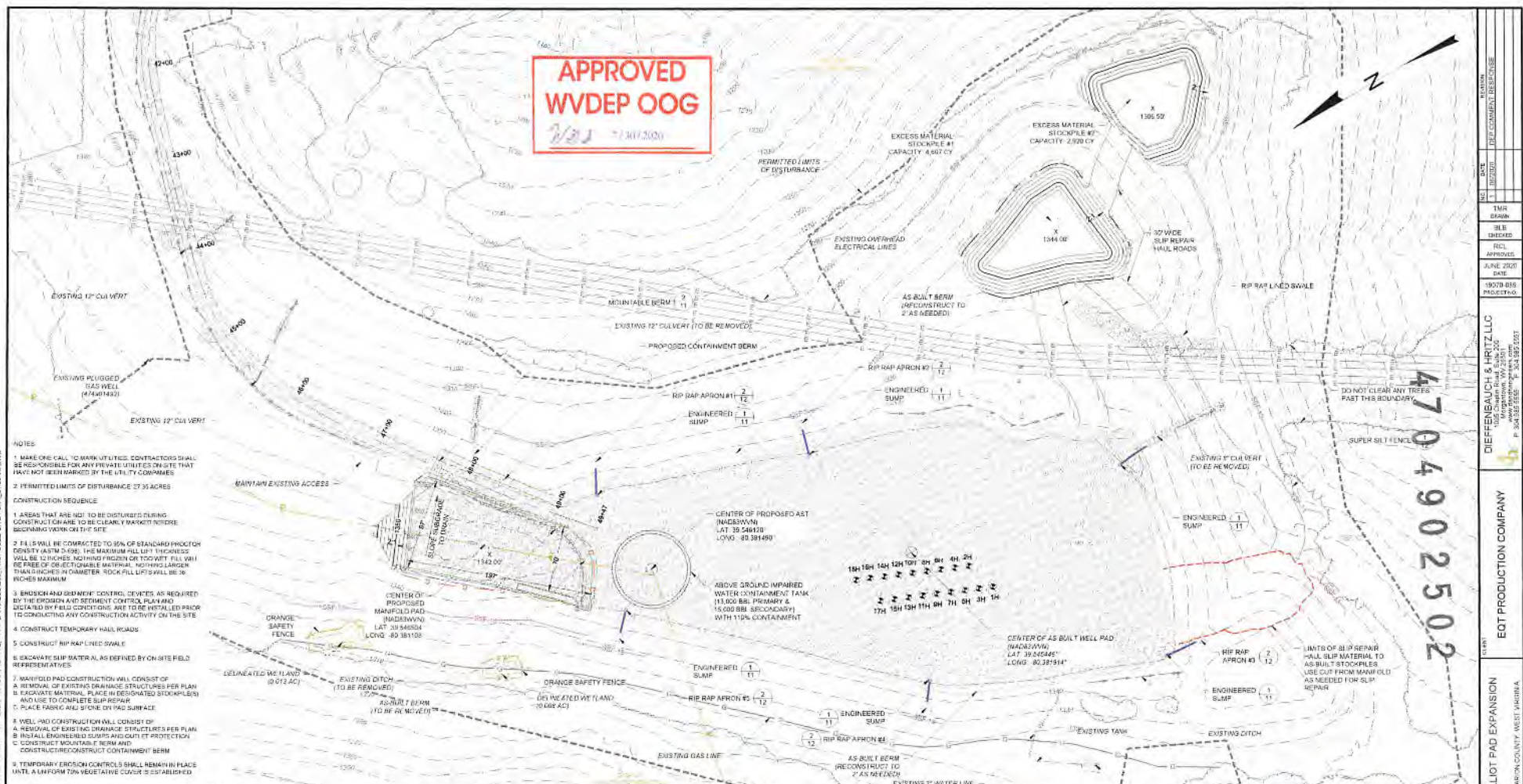
811
Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-251-4848

STOP
MINORITY OF WHOM
VIOLATE THE LAW

DATE: _____
 YEAR: _____
 ELD: _____
 RCD: _____
 APPROVED: _____
 DATE: _____
 19070-089
 NUMBER: 001
 DIEFFENBAUCH & HRITZ, LLC
 1000 MARION COUNTY ROAD
 MARION COUNTY, WV 26051
 P: 304.881.5558 F: 304.881.5887
 EQT PRODUCTION COMPANY
 ELLIOT PAD EXPANSION
 MARION COUNTY, WEST VIRGINIA
 TITLE SHEET
 1
 DRAWING NO.

APPROVED WVDEP OOG
 2/23/2020



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 IS 23.35 ACRES.
 3. AREAS THAT ARE NOT TO BE DISTURBED DURING CONSTRUCTION ARE TO BE CLEARLY MARKED BEFORE BEGINNING WORK ON THE SITE.
 4. ALL SLOPES WILL BE CONFINED TO 3% OF STANDARD PRODUCTION FORESTRY (ASTM 2438). THE MAXIMUM HILLTOP THICKNESS WILL BE 12 INCHES. NOTHING FROZEN OR TOO WET. FILL WILL BE FREE OF OR DETRIMENTAL MATERIAL. NOTHING LARGER THAN 3 INCHES IN DIAMETER. ROCK FILL LIFT SHALL BE 36 INCHES MAXIMUM.
 5. BUSHES AND GRASS: CONTROL, DEVISE, AS REQUIRED BY THE PROBLEM AND REMEDIATION CONTROL PLAN AND INDICATED BY FIELD CONDITIONS. ARE TO BE INSTALLED PRIOR TO CONSTRUCTING ANY CONSTRUCTION ACTIVITY ON THE SITE.
 6. CONSTRUCT TEMPORARY HAUL ROADS.
 7. CONSTRUCT RIP RAP LINED SWALE.
 8. EXCAVATE SLIP MATERIAL, AS DEFINED BY ON-SITE FIELD REPRESENTATIVES.
 9. MANHOLE PAD CONSTRUCTION WILL CONSIST OF:
 A. REMOVAL OF EXISTING DRAINAGE STRUCTURES PER PLAN.
 B. EXCAVATE MATERIAL, PLACE IN DESIGNATED STOCKPILES AND USE TO COMPLETE SURFING.
 C. PLACE FABRIC AND STONE ON PAD SURFACE.
 10. WELL PAD CONSTRUCTION WILL CONSIST OF:
 A. REMOVAL OF EXISTING DRAINAGE STRUCTURES PER PLAN.
 B. INSTALL ENGINEERED SUMPS AND CUT OFF PROTECTION.
 C. CONSTRUCT MOUNTAIN FENCE AND CONSTRUCTION CONTAINMENT BERM.
 11. TEMPORARY EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL A UNIFORM 70% VEGETATIVE COVER IS ESTABLISHED.

LEGEND

- EXISTING TREE LINE
- EXISTING ROAD
- PROPOSED RIGHT-OF-WAY
- PROPOSED INTERMEDIATE CONTOUR LINE (1%)
- PROPERTY LINE
- MUNICIPAL BOUNDARY
- STREAM
- DELINEATED STREAM
- DELINEATED WELL AND BOUNDARY
- FLOODWAY BOUNDARY
- EXISTING FENCE
- EXISTING ELECTRIC LINE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- PROPOSED WATER LINE
- FILL LIMITS
- CUT LIMITS
- TOE BENCH WITH DRAIN
- ROMANUS CENTER LINE
- SAFETY BERM
- LIMITS OF DISTURBANCE
- EXISTING UTILITY POLE
- EXISTING INDEX CONTOUR LINE (1%)
- EXISTING INTERMEDIATE CONTOUR LINE (1%)
- PROPOSED INTERMEDIATE CONTOUR LINE
- CHANNEL FLOW DIRECTION
- STREAM
- DELINEATED STREAM
- DELINEATED WELL AND BOUNDARY
- FLOODWAY BOUNDARY
- SUPER SILT FENCE (SSPF)
- TRIPLE CFS STACK / CFS SEDIMENT TRAP
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING STRUCTURE
- PERMANENT PAD
- TEMPORARY GRAVEL
- PERMANENT GRAVEL
- EXISTING UTILITY POLE

AS/GS/MS WELL ID	API #	LAT (NAD83)	LONG (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	EASTING (GCS17)	NORTHING (NAD83) UTM METERS	EASTING (NAD83) UTM METERS
3H	39 07 4438000	39 22 53.4471	80344 9033	175793 2120	38297 547	175717 220	437472 388	53085 415
3H	39 07 4432518	39 22 55.7579	80158 715	175720 1480	38301 324	175126 098	437471 317	53087 144
7H	39 07 4331230	39 22 55.8931	80197 2346	175704 9870	38195 182	175189 904	437481 366	53088 953
7H	39 07 4344840	39 22 55.8231	80186 3518	175750 8230	38246 999	175122 741	437485 608	53090 561
9H	39 07 4238880	39 22 55.5481	80201 3889	175795 8458	38190 218	175185 579	437489 845	53092 359
11H	39 07 4337360	39 22 55.4782	80203 9860	175702 8020	38195 033	175193 417	437494 084	53095 876
13H	39 07 4338280	39 22 55.0790	80207 4617	175708 3902	38190 450	175120 255	437498 322	53096 816
15H	39 07 4339720	39 22 55.8131	80201 4020	175774 1780	38204 287	175113 099	437420 543	53097 395
17H	39 07 4411830	39 22 55.2481	80255 4794	175783 0370	38218 084	175128 881	437508 802	53099 109
21H	39 07 4331940	39 22 55.1831	80203 8954	175705 0908	38195 553	175193 024	437495 398	53096 024
24H	39 07 4332890	39 22 55.2652	80189 7125	175710 8040	38192 560	175120 651	437490 636	53096 772
4H	39 07 4343400	39 22 55.2807	80188 5207	175706 7730	38196 177	175115 689	437491 878	53098 481
6H	39 07 4335118	39 22 55.2170	80197 348	175702 6110	38199 964	175122 527	437485 117	53100 189
10H	39 07 4339830	39 22 55.1481	80211 146	175708 4480	38197 811	175127 365	437489 196	53101 288
12H	39 07 4337940	39 22 55.0731	80201 8111	175704 2988	38187 428	175123 253	437497 146	53102 044
14H	39 07 4337130	39 22 54.9982	80208 1992	175700 1240	38201 445	175124 061	437491 835	53102 312
16H	39 07 4413050	39 22 54.9267	80202 1154	175695 9630	38201 283	175124 878	437506 014	53107 042
18H	39 07 4414680	39 22 54.8561	80206 4025	175693 4030	38200 080	175120 716	437501 913	53108 702

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 Know what's below
 Call before you dig.

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 Office of Oil and Gas
 AUG 27 2020

WV Dept. of Environmental Protection

STOP
 BEFORE YOU DIG
 800-246-4643
 WISCONSIN, WI, VA
 STOP
 BEFORE YOU DIG
 IT'S THE LAW

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF OIL AND GAS
 PROJECT: ELLIOT PAD EXPANSION
 DATE: JUNE 2020
 DRAWING NO: 19078 B55 PROJECT 6.0

DIFFENBAUGH & HIRTZ, LLC
 1000 UNIVERSITY AVENUE, SUITE 100
 CHARLOTTE, NC 28202
 P. 704.333.8888 F. 704.333.8822

EOT PRODUCTION COMPANY
 1400 W. MARKET STREET, SUITE 100
 WASHINGTON, WEST VIRGINIA

PROPOSED SITE PLAN
 3



Revision	
No.	Date
MW Drawn	
ZIF Checked	
VJA Approved	
Date	11/6/2019
Project No.	19070-089
Client	EQT PRODUCTION COMPANY
Project	Page 1 of 1

DIEFFENBACH & HIRTZ
 1006 Chain Road, Suite 200
 Martinsburg, WV 26001
 P: 304.885.5555 F: 304.885.5587

FIGURE 2. STREAM & WETLAND INVESTIGATION MAP
 LIMITS OF INVESTIGATION TOTAL 3.30 AC

Legend
 • Data Point
 Culvert
 Limits of Investigation
 Delineated Water Features
 PEM Wetland
 Non-Jurisdictional Features
 Waterway
 10' Contour Line

Absolute Scale: 1:720
 Text Scale: 1 inch = 60 feet

NOTE: TOPOGRAPHIC DATA FROM WV GIS TECH CENTER; IMAGERY FROM NATIONAL AGRICULTURE IMAGERY PROGRAM 2016

RECEIVED
 AUG 27 2020
 WV Department of Environmental Protection
 ELLIOT AST PAD
 Marion County, Virginia

OPERATOR: EQT Production Company

PAD NAME: Elliott WELL: Elliott 7H

PAD BUILT: YES NO DATE REVIEWED: _____ INT. _____

REVIEWED BY (APPLICANT): John Zavatchan

CONTACT PHONE: 724-746-9073 EMAIL: jzavatchan@eqt.com

APPLICANT SIGNATURE: 

**CHECKLIST FOR FILING A PERMIT
HORIZONTAL 6A WELL**

Please include these required elements in the Horizontal Well 6A applications, in order listed below.
Do not use staples.

First Well	Subsequent Well
\$10,150.00 <input type="checkbox"/>	\$5,150.00 <input checked="" type="checkbox"/>

Fees

Checklist / Cover letter

WW-6B Notice of Application _____ Field Approved

Cement Additives

Well Bore Schematic

WW-9 Fluids/Cuttings Disposal and Reclamation Plan _____ Field Approved

Site Safety Plan _____ Field Approved

Water Management Plan _____ DWWM Approval

Topographic Map w/water purveyors, showing access road

Mylar Plat (Signed and sealed) (Surface Owner matches WW-6A)

WW-6A1 Lease Information

Road Crossing Letter

WW-PN Application Notice by Publication

Public Notice (dated copy of advertisement or affidavit of publication)

RECEIVED
Office of Oil and Gas

AUG 27 2020

WV Department of
Environmental Protection

*CHK# 58146d
Amt \$ 5750
Date 8/4/20*

- WW-6AC Notice Certifications, notarized
- WW-6A Notice of Application notarized w/ any attachments
- Topographic Map with labeled surrounding water wells
- Certified Mail receipts for WW-6A
- WW-6A3 Notice of Entry for Plat Survey
- Certified Mail receipts for WW-6A3
- WW-6A4 Notice of Intent to Drill
- Certified Mail receipts for WW-6A4
- WW-6A5 Notice of Planned Operation
- Certified Mail receipts for WW-6A5
- WW-6RW Well Location Restriction Waiver
- WW-6AW Voluntary Statement of No Objection
- _____ Waiver for Surface Owner at Wellhead
- _____ Waiver for Surface Owner for Roads or other Disturbances
- _____ Waiver for Coal Owner, Operator or Lessee
- _____ Waiver for surface owner for Impoundment or Pit
- _____ Waiver for Surface Owner or Water Purveyor within 1500 feet of Center of Pad
- _____ Waiver for Natural gas Storage Field Operator
- Road Bonding Agreement / DOH Certification
- Frac Additives List of Chemical Names & CAS #s
- Site Construction, Reclamation, Erosion & Sediment Control Plans _____ Field Approved
- Copy of To Scale Plans
- Inspector packet mailed to inspector (Plat, Topographic Map, WW-6B, WW-9, All Plans)
- Bond (\$250,000)
- Operator is registered with the SOS

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X Workers Compensation / Unemployment Insurance account is OK

X Professional Engineer/Company has COA

X Check for Mine Data at proposed coordinates

X Check for Floodplain Data at proposed coordinates

N/A IMP-1A Associated Pit or Impoundment

X WW-6A7 Well Restrictions Form w/ Signature

_____ At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland

X DEP Waiver and Permit Conditions

X At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream

_____ DEP Waiver and Permit Conditions

X At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply

_____ DEP Waiver and Permit Conditions

X At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled

_____ Surface Owner Waiver and Recorded with County Clerk, OR

_____ DEP Variance and Permit Conditions

X At Least 625 Feet from an Occupied Dwelling Structure to the Center of the Pad

_____ Surface Owner Waiver and Recorded with County Clerk, OR

_____ DEP Variance and Permit Conditions

X At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad

_____ Surface Owner Waiver and Recorded with County Clerk, OR

_____ DEP Variance and Permit Conditions

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August 26, 2020

Via FedEx Overnight

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304

RE: Well Work Permit Application
Elliott 9H Well
Mannington District
Marion County, WV

WVDEP Recipient,

Attached please find the Well Work Permit Application for the well referenced above. Included with this submittal you will find:

- Check in the amount of \$5,150.00.
- Horizontal 6A Well Permit App. Checklist
- Completed Form WW-6B and supporting documents, approved by the Oil and Gas Inspector
- WW-9 Fluids/Cuttings Disposal & Reclamation Plan approved by the Inspector
- Site Specific Safety and Environmental Plan approved by the Inspector
- Water Management Plan
- Topographic map showing water supply information and the access road
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Road Crossing Letter
- Notification information (WW-PN, WW-6AC, WW-6A, WW-6A4, WW-6A5)
- Department of Highways Certification Letter
- Anticipate Frac Additives List
- Pages 1 and 3 of the Erosion and Sedimentation Control Plans. These plans have been approved with the Elliott 9H well, permit number 47-049-02498.
- Completed Form WW-6A7 Well Restrictions Checklist
- Wetland and Perennial Stream Waiver Request. This request has been approved with the Elliott 9H well, permit number 47-049-02498
- Hydraulic Fracturing Monitoring Plan
- DVD containing the Site-Specific Safety and Environmental Plan, Site Plans and MSDS Sheets

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EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our Permitting department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Best Regards,

John Zavatchan
Project Specialist – Permitting
jzavatchan@eqt.com
724-746-9073

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Times West Virginian

Public Notice Date: 2/14/2020 and 2/21/2020

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: EQT Production Company **Well Number:** Elliott 7H

Address: 400 Woodcliff Drive
Canonsburg, PA 15317

Business Conducted: Natural gas production.

Location –

State: West Virginia County: Marion
District: Mannington Quadrangle: Glover Gap
UTM Coordinate NAD83 Northing: 4377485.61
UTM coordinate NAD83 Easting: 553090.56
Watershed: Tributary of Dents Run

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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Legals

PUBLIC NOTICE OF APPLICATIONS FOR NATURAL GAS HORIZONTAL WELL DRILLING PERMITS,

pursuant to West Virginia Code Section 22-6A-10(e) EQT Production Company, 400 Woodchill Drive, Canonsburg, PA 15317, is applying for permits for natural gas horizontal wells at the following locations Elliot 1H, located at approximately UTM NAD 83 Easting 553095 435 UTM NAD 83 Northing 4377472 888. Elliot 2H, located at approximately UTM NAD 83 Easting 553095 064 UTM NAD 83 Northing 4377476 399. Elliot 3H, located at approximately UTM NAD 83 Easting 553087 144 UTM NAD 83 Northing 4377477 127. Elliot 4H, located at approximately UTM NAD 83 Easting 553096 772 UTM NAD 83 Northing 4377480 638. Elliot 5H, located at approximately UTM NAD 83 Easting 553088 853 UTM NAD 83 Northing 4377481 366. Elliot 6H, located at approximately UTM NAD 83 Easting 553098 481 UTM NAD 83 Northing 4377484 878. Elliot 7H, located at approximately UTM NAD 83 Easting 553090 561 UTM NAD 83 Northing 4377485 606. Elliot 8H, located at approximately UTM NAD 83 Easting 553100 189 UTM NAD 83 Northing 4377489 117. Elliot 9H, located at approximately UTM NAD 83 Easting 553092 299 UTM NAD 83 Northing 4377489 845. Elliot 10H, located at approximately UTM NAD 83 Easting 553101 898 UTM NAD 83 Northing 4377493 356. Elliot 11H, located at approximately UTM NAD 83 Easting 553093 978 UTM NAD 83 Northing 4377494 084. Elliot 12H, located at approximately UTM NAD 83 Easting 553103 606 UTM NAD 83 Northing 4377497 596. Elliot 13H, located at approximately UTM NAD 83 Easting 553095 686 UTM NAD 83 Northing 4377498 323. Elliot 14H, located at approximately UTM NAD 83 Easting 553105 315 UTM NAD 83 Northing 4377501 835. Elliot 15H, located at approximately UTM NAD 83 Easting 553097 395 UTM NAD 83 Northing 4377502 563. Elliot 16H, located at approximately UTM NAD 83 Easting 553107 023 UTM NAD 83 Northing 4377506 074. Elliot 17H, located at approximately UTM NAD 83 Easting 553099 103 UTM NAD 83 Northing 4377506 802. Elliot 18H, located at approximately UTM NAD 83 Easting 553108 732 UTM NAD 83 Northing 4377510 313. All wells in Tributary of Denis Run Watershed, Glover Gap Quadrangle, Mannington District, Marion County, West Virginia which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty-day period. To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/utm_cornus.php Any interested person may submit online comments to https://apps.dep.wv.gov/oog/comments/comments.cfm or, you may email DEP.comments@wv.gov. To submit a written letter or request a copy, send to, Permit Review, Office of Oil and Gas, 601 57th Street, SE, Charleston, WV 25304, or call 304-926-0450. Emailed or written comments must reference the county, well number and operator and must be received within 30 days of the date of the last publication (expected to be 2/21/2020). Copies of the proposed permit applications may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304, (304-926-0450). Full copies or scans of the proposed permit application will cost \$15.00, whether mailed or obtained at DEP headquarters. For information relating to horizontal drilling, and all horizontal well applications filed in this state, visit www.dep.wv.gov/oil-and-gas/pages/default.aspx To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

EQT Production Company Times: February 14, 21, 2020

AFFIDAVIT OF PUBLICATION

State of West Virginia

County of Marion

To-wit:

I, Angela Copney, of the Times West Virginian, a daily newspaper published in the City of Fairmont, Marion County, West Virginia, do certify that the notice attached hereto under the caption; Public Notice of Applications for Natural Gas Horizontal Well Drilling Permits, was published in the said Times West Virginian Newspaper Two (2) TIME(S) on the following day (s), namely, February 14, 21, in the year 2020.

Publication Fee: \$132.09

Signature: [Handwritten Signature]

Taken, subscribed and sworn to before me in said county this 21st day of February, 2020.

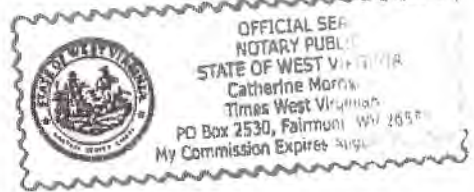
My commission expires: August 16, 2021

[Handwritten Signature] Notary Public of Marion County, West Virginia

OFFICE OF OIL AND GAS

AUG 27 2020

WV Department of Environmental Protection



ORIGIN ID: PITA (412) 278-2100
MARISSA BRINZER
KEYSTONE CONSULTANTS LLC
125 MAIN ST
CARNEGIE, PA 15109

SHIP DATE: 25AUG20
ACTWGT: 1.00 LB
CAD: 113226966/NET4280

BILL SENDER

TO CONSOLIDATION COAL COMPANY

46226 NATIONAL ROAD

SAINT CLAIRSVILLE OH 43950

REF: ELIOTTNOTIFICATIONS
OH (000) 000-0000



J20200071401uv

TRK# 7713 5128 0140
0201

WED - 26 AUG 3:00P
STANDARD OVERNIGHT

65 HLGA

OH-US
43950
PIT
ASR



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771351280140

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WEIGHT

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Weight signature required

TOTAL PIECES

1

TOTAL SHIPMENT WEIGHT

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TERMS

Shipper

SHIPPER REFERENCE

Elliot Morfitt auto

PACKAGING

FedEx envelope

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?
8/26/2020 by 3:00 pm

SHIP DATE

?
Mon 8/25/2020

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Wed 8/26/2020 by 3:00 pm

Travel History

Tuesday, 8/25/2020

9:15 pm

MOON TOWNSHIP, PA

At destination sort facility

9:00 pm

PITTSBURGH, PA

Left FedEx origin facility

7:39 pm

PITTSBURGH, PA

Picked up

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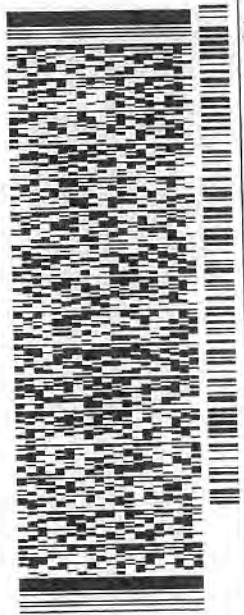
4 70 4 9 3 2 5 2 8

ORIGIN ID: PITA (412) 278-2100
MARISSA BRINZER
KEYSTONE CONSULTANTS LLC
332 E MAIN ST
CARNEGIE, PA 15106
UNITED STATES US

SHIP DATE: 25AUG20
ACTWGHT: 1.00 LB
CAD: 11322696/NET/4280
BILL SENDER

TO RANDY ELLIOTT
560 CAROLINA AVENUE

CHESTER WV 26034
FE1 ELLIOTT NORTH KEATINGE
DEPT
NO WV (000) 000-0000



J202020071401uv

TRK# 7713 5136 3530
0201

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65 OILA

WV-US 26034
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TRACKING NUMBER
(7 13-1 363530)

SERVICE
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Adult Signature Required

TOTAL PIECES
1

TOTAL SHIPMENT WEIGHT
0.1 lbs (0.04 kg)

TERMS
Shipper

SHIPPER REFERENCE
EHRH Notifications

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STANDARD TRANSIT
 8/26/2020 by 4:30 pm

SHIP DATE
 Tue 8/25/2020

SCHEDULED DELIVERY
Wed 8/26/2020 by 4:30 pm

Travel History

Local Scan Time

Tuesday, 8/25/2020

9:15 pm	MOON TOWNSHIP PA	At destination sort facility
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7:39 pm	PITTSBURGH PA	Picked up
11:13 am		Shipment information sent to FedEx

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ASR 26582



470
200 PARK DRIVE
MANNINGTON WV 26582

REF: ELLIOTT NOTIFICATIONS

ORIGIN ID: PITA (412) 278-2100
MARISSA BRINZER
KEYSTONE CONSULTANTS LLC
32 E MAIN ST
CARNEGIE, PA 15106

SHIP DATE: 25AUG20
ACTWGT: 1.00 LB
CAD: 113226966/NET4280

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LEONARD STAFFORD

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WEIGHT
0.5 lbs / 0.23 kg

SIGNATURE SERVICES
Adult signature required

TOTAL PIECES
1

TOTAL SHIPMENT WEIGHT
0.5 lbs / 0.23 kg

TERMS
Shipper

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SHIP DATE
 Tue 8/25/2020

SCHEDULED DELIVERY
Wed 8/26/2020 by 4:30 pm

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Local Sc

Travel History

Tuesday, 8/25/2020

0201 TRK# 7713 5146 3522
 65 HLG A
 OH-US PIT 43950 ASR
 WED - 26 AUG 3:00P
 STANDARD OVERNIGHT
 (0001 000-0000) REF: ELIOTT NOTIFICATIONS
 DEST
 TO: MURRAY ENERGY CORPORATION
 46226 NATIONAL ROAD W
 SAINT CLAIRSVILLE OH 43950
 FROM: MURRAY ENERGY CORPORATION
 46226 NATIONAL ROAD W
 SAINT CLAIRSVILLE OH 43950
 ORIGIN ID: PITA (412) 278-2100
 MORISSA BRINZER
 KEYSTONE CONSULTANTS LLC
 325 MAIN ST
 GARNESIE, PA 15106
 UNITED STATES US
 SHIP DATE: 25AUG20
 ACTWGT: 1.001LB
 CAD: 113226966/NET4280
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TRACKING NUMBER
771351463522

SERVICE
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WEIGHT
10.1 lbs

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TOTAL PIECES
1

TOTAL SHIPMENT WEIGHT
10.1 lbs

TERMS
Shipper

SHIPPER REFERENCE
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PACKAGING
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SPECIAL HANDLING SECTION
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STANDARD TRANSIT
 8/26/2020 by 3:00 pm

SHIP DATE
 THU 8/25/2020

SCHEDULED DELIVERY
Wed 8/26/2020 by 3:00 pm

Travel History

Local Scan Time

Date	Location	Event
Tuesday, 8/25/2020		
9:15 pm	MOON TOWNSHIP, PA	At destination sort facility
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Restricted Delivery Fee (Enclosure Required)	
Total Postage & Fees	\$ 8.60

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 City, State, ZIP+4

CONSOLIDATION COAL CO.
46226 NATIONAL ROAD
ST CLAIRSVILLE OH 43950

PS Form 3800, ELLIOT 6A4



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ORIGIN ID: PITA (412) 278-2100
 MARISSA BRINZER
 KEYSTONE CONSULTANTS, LLC
 32 E MAIN ST
 CARNEGIE, PA 15106
 UNITED STATES US
 BILL SENDER

SHIP DATE: 25AUG20
 ACTWGT: 1.00 LB
 CAD: 113226960/NET4280

TO **77** **76226 NATIONAL ROAD**
SAINT CLAIRSVILLE OH 43950
 (000) 000-0000

TRACK# **7713 5128 0140**
 0201
65 HLG A
 OH-US
PIT
43950
 ASR

WED - 26 AUG 3:00P
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PITTS, PA 15201-1000

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TRACKING NUMBER	SHIP DATE	WEIGHT
SIGNATURE SERVICES	TOTAL PIECES	TOTAL SHIPMENT WEIGHT
TERMS	SHIPPER REFERENCE	PACKAGING
SPECIAL HANDLING SECTION	STANDARD TRANSIT	SHIP DATE
SCHEDULED DELIVERY		

Travel History

Tuesday 8/19/2020		
9:15 am	MOON TOWNSHIP PA	At destination sort facility
9:00 pm	PITTSBURGH PA	Left FedEx origin facility
7:30 am	PITTSBURGH PA	Checked in
1:00 pm		Shipment accepted by carrier FedEx

Local Scan Time

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WV Department of
Environmental Protection

OPERATOR: EQT Production Company WELL NO: 7H

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

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11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Elliott 7H

Well Operator: EQT Production Company

Well Number: 7H Well Pad Name: Elliott

County, District, Quadrangle of Well Location: Marion Co / Mannington Dist / Glover Gap Quad

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

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Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Elliott 7H

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

- 1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.**

The Elliott Pad Expansion project is located in Marion County, WV. The limits of investigation (LOI) are 3.50 acres (AC) and encompass the proposed pad expansion within the currently permitted limits of disturbance (LOD) and the proposed 0.47 acres of proposed additional LOD. Two palustrine emergent (PEM) wetlands were found within the LOI. These wetlands are 0.008 AC and 0.013 AC and are located north of the existing well pad. The attached delineation map depicts the area, and the associated data sheets for the wetlands are also enclosed. No perennial streams are present within the LOI.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.**

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

a. The No-Action Alternative will prevent completion of the wells. The expansion will provide sufficient area for the additional equipment and infrastructure needed for well completion operations.

b. Location alternatives for the project are not feasible. This is an existing well site.

c. The options to maintain the 100-foot buffer were not feasible. Expansion to the southwest would result in an excess of spoil material, expansion to the south and northeast is prevented by the steep slopes immediately adjacent to the well pad. Expansion to the east and south was limited by the existing utility infrastructure.

d. The current proposed design is the least environmentally damaging practical alternative based on the existing site conditions and the surrounding topography. The proposed design utilizes previous earth work at the site to limit the amount of additional earth work required. As noted above in the discussion of considered options, the steepness of the site topography and the existing utilities limit the configurations. The necessary space has been obtained with the minimum required earth disturbance and avoiding any direct resource impacts.

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Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Elliott 7H

- 3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.**

Both wetlands will be protected as follows:

- silt fence will be placed directly downslope of the disturbed area
- temporary and permanent vegetative cover will be located above the wetland
- the existing site drainage features, which include well pad sumps, ditches, culverts, and well pad drains, prevent any discharge to the wetland
- the proposed earth work above the wetland will be graded such that all discharge is routed to the opposite side of the well pad and prevent discharge into the wetland

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

As outlined in Question 3, all existing drainage features on the site prevent discharge into the wetland.

Additional measures include:

- silt fence between the wetlands and the proposed earth disturbance
- temporary and permanent vegetation installed as soon as possible following disturbance above the wetland
- grading for the expansion that routes discharge to the opposite side of the well pad and prevents discharge into the wetland

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FIGURE 2. STREAM & WETLAND LIMITS OF INVESTIGATION
 INVESTIGATION MAP FOR EQT PRODUCTION COMPANY
 DATE: AUG 27 2020

Legend

- Data Point
- Culvert
- Limits of Investigation
- Drainage Ditch Features
- Fish Wildlife Environmental Features
- Non-Traditional Features
- 10' Contour Line

Scale: Graphic scale showing 0 to 50 feet and 0 to 15 meters.
 Vertical Scale: 1" = 20'
 Horizontal Scale: 1 inch = 50 feet

NOTE: TOPOGRAHIC DATA FROM WVGS TECH CENTER. MANAGER FROM NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.

Project	Client	Client	Client	Client	Client	Client	Client	Client	Client
ELLIOTTSVILLE PARK	EQT PRODUCTION COMPANY	ELLIOTTSVILLE PARK	EQT PRODUCTION COMPANY	ELLIOTTSVILLE PARK	EQT PRODUCTION COMPANY	ELLIOTTSVILLE PARK	EQT PRODUCTION COMPANY	ELLIOTTSVILLE PARK	EQT PRODUCTION COMPANY
Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia	Marion County, West Virginia
Page	1 of 1	Page	1 of 1	Page	1 of 1	Page	1 of 1	Page	1 of 1

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Elliot AST Pad City/County: Marion Sampling Date: 11/5/2019
 Applicant/Owner: EQT State: WV Sampling Point: DP1
 Investigator(s): M. Wagner, A. Brummage Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Bench Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MRLA): LLR-N Lat: 39.54662422 Long: -80.38154548 Datum: NAD-83
 Soil Map Unit Name: Gilpin- Culleoka- Upshur (GuF) NWI Classification: PEM

Are climatic/hydrologic conditions of the site typical for this time of year? Yes x No _____ (If no, explain in Remarks)
 Are vegetation Y, Soil Y, or Hydrology Y significantly disturbed? Are "Normal Circumstances" present?
 Are vegetation Y, Soil Y, or Hydrology Y naturally problematic? Yes x No _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Explain alternative procedures here or in a separate report.) Plot representative of habitat located within Wetland A.	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: Check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction Tiled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B18) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Hydrologic indicators are present.	

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VEGETATION - Use scientific names of plants

Sampling Point: _____ DP1

Tree Stratum (Plot Size: <u>30 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
	_____	= Total Cover	

Sapling/Shrub Stratum (Plot Size: <u>15-ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
	_____	= Total Cover	

Herb Stratum (Plot Size: <u>5 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Microstegium vimineum</i>	30	Yes	FAC
2. <i>Juncus effusus</i>	25	Yes	FACW
3. <i>Typha latifolia</i>	20	Yes	OBL
4. <i>Scirpus atrovirens</i>	10	No	OBL
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
	85	= Total Cover	

Woody Vine Stratum (Plot Size: <u>30-ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
	_____	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

- Hydrophytic Vegetation Indicators:**
- _____ 1 - Rapid Test for Hydrophytic Vegetation
 - x _____ 2 - Dominance Test is >50%
 - _____ 3 - Prevalence Index is ≤ 3.0'
 - _____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - _____ 5 - Problematic Hydrophytic Vegetation¹
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody vines - All woody vines greater than 3.26 ft. in height

Hydrophytic Vegetation Present?

Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation is present.

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SOIL

Sampling Point: DP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10 YR 5/2	90	10 YR 5/6	10	C	M, PL	SiCL	
12-18	5 Y 4/2	80	7.5 YR 5/6	20	C	M, PL	SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR N)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p>	<p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F17)</p> <p><input checked="" type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)</p> <p><input type="checkbox"/> Umbric Surface (F13) (MLRA 136,122)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)</p> <p><input type="checkbox"/> Red Parent Material (F21) (MLRA 127,147)</p>	<p>Indicators for Problematic Hydric Soils³</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR N)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147, 148)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 147, 148)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
---	--	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
--	--

Remarks:
Hydric soils present.

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Elliot AST Pad City/County: Marion Sampling Date: 11/5/2019
 Applicant/Owner: EQT State: WV Sampling Point: DP3
 Investigator(s): M. Wagner, A. Brummage Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Bench Local relief (concave, convex, none): None Slope (%): 5-10
 Subregion (LRR or MRLA): LLR-N Lat: 39.54698773 Long: -80.38114835 Datum: NAD-83
 Soil Map Unit Name: Gilpin- Culleoka- Upshur (GuF) NWI Classification: PEM

Are climatic/hydrologic conditions of the site typical for this time of year? Yes x No _____ (If no, explain in Remarks)
 Are vegetation Y, Soil Y, or Hydrology Y significantly disturbed? Are "Normal Circumstances" present?
 Are vegetation Y, Soil Y, or Hydrology Y naturally problematic? Yes x No _____

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Explain alternative procedures here or in a separate report.) Plot representative of habitat located within Wetland B.	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: Check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction Tiled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B18) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks: Hydrologic indicators are present.	

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VEGETATION - Use scientific names of plants

Sampling Point: _____ DP3

Tree Stratum (Plot Size: 30 ft. radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Sapling/Shrub Stratum (Plot Size: 15-ft. radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____

Prevalence Index worksheet:

Total % Cover of	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

Herb Stratum (Plot Size: 5 ft. radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Microstegium vimineum</i>	30	Yes	FAC
2. <i>Scirpus cyperinus</i>	20	Yes	FACW
3. <i>Typha latifolia</i>	10	No	OBL
4. <i>Scirpus atrovirens</i>	10	No	OBL
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

- Hydrophytic Vegetation Indicators:**
- _____ 1 - Rapid Test for Hydrophytic Vegetation
 - x _____ 2 - Dominance Test is >50%
 - _____ 3 - Prevalence Index is ≤ 3.0'
 - _____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - _____ 5 - Problematic Hydrophytic Vegetation¹
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Woody Vine Stratum (Plot Size: 30-ft. radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody vines - All woody vines greater than 3.26 ft. in height

Hydrophytic Vegetation Present?

Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation is present.

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SOIL

Sampling Point: DP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10 YR 4/1	90	7.5 YR 4/4	10	C	PL	SIC	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148) <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F17) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) <input type="checkbox"/> Umbric Surface (F13) (MLRA 136,122) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) <input type="checkbox"/> Red Parent Material (F21) (MLRA 127,147)	<p>Indicators for Problematic Hydric Soils³</p> <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147, 148) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 147, 148) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soils present.

RECEIVED
 Office of Oil and Gas
 AUG 27 2020
 WV Department of Environmental Protection

Horizontal 6A Well Permit App. Checklist:

4704902502

Received Date: 8/27/20 API: _____
 Operator: EQT WELL: 7H
 Pad Name: Elliott End Comment Period: _____
 Pad Built: Yes No Date Reviewed: _____ INT. _____

CHECKLIST FOR FILING A PERMIT
Horizontal 6A Well

Please include these required elements in the Horizontal Well 6A applications, in order listed below. Do not use staples.

TVD - 7631
 TMD - 7840
 HL - 0
 FW - 0

First Well	Subsequent Well
10,150.00 <input type="checkbox"/>	5,150.00 <input checked="" type="checkbox"/>

Check#: _____

* Vertical section only a modification later will need

- Fees Paid
- Checklist / Cover letter
- WW-6B Notice of Application * Coal in Pangs Field Approved
- Cement Additives * Variance Field Approved
- Well Bore Schematic (not required) DWWM Approval
- WW-9 Fluids/Cuttings Disposal and Reclamation Plan Field Approved
- Site Safety Plan Field Approved
- Water Management Plan
- Topographic map showing access road
- Mylar Plat (Signed and sealed) (Surface Owner matches WW-6A) Plat Spotted
- WW-6A1 Lease Information
- Road Crossing Letter (if drilling under road)
- WW-PN Application Notice by Publication
- Public Notice (dated copy of advertisement or affidavit of publication)
- WW-6AC Notice Certifications and Waivers
- WW-6A Notice of Application notarized w/ any attachments
- Topographic Map with labeled surrounding water wells (not required)
- Certified Mail receipts for WW-6A
- WW-6A3 Notice of Entry for Plat Survey (if one was conducted)
- Area of review shows planned lateral
- Karst review

Horizontal 6A Well Permit App. Checklist:

API: _____

- Certified Mail receipts for WW-6A3
- WW-6A4 Notice of Intent to Drill (if no WW-6A3)
- Certified Mail receipts for WW-6A4
- WW-6A5 Notice of Planned Operation
- Certified Mail receipts for WW-6A5
- WW-6RW Well Location Restriction Waiver (if applicable)
- WW-6RW Voluntary Statement of No Objection (if applicable)
 - Waiver for Surface Owner at Wellhead
 - Waiver for Surface Owner for Roads or other Disturbances
 - Waiver for Coal Owner, Operator or Lessee
 - Waiver for surface owner for Impoundment or Pit
 - Waiver for Surface Owner or Water Purveyor within 1500 feet of Center of Pad
 - Waiver for Natural gas Storage Field Operator
- DOH Road Bonding Letter
- Frac Additives List of Chemical Names & CAS#s
- Site Construction, Reclamation, Erosion & Sediment Control Plans DEP Engineer Approved
- MSDS Sheets

Reviewer outside checks:

- Comments - Public, Surface Owner, Water Well Purveyor
- Bond (\$250,000)
- Operator is registered with the SOS
- Workers Compensation / Unemployment Insurance account is OK
- Professional Engineer/Company has COA
- Check for mine data at proposed coordinates
- Check for floodplain data at proposed coordinates

4704902502

~~BMP-1A Associated Pit or Impoundment (if applicable)~~

WW-6A7 Well Restrictions Form w/ Signature

At Least 100 Feet from Pad and LOD (including any ES Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland

DEP Waiver and Permit Conditions

At Least 300 Feet from Pad and LOD (including any ES Control Feature) to any Naturally Producing Trout Stream

DEP Waiver and Permit Conditions

At Least 1000 Feet from Pad and LOD (including any ES Control Feature) to any Groundwater Intake or Public Water Supply

DEP Waiver and Permit Conditions

At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from an Occupied Dwelling Structure to the Center of the Pad

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

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

Existing Well