



west virginia department of environmental protection

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

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

Tuesday, October 12, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for CARNEGIE 9H
47-049-02508-00-00

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: CARNEGIE 9H
Farm Name: JEANNE A. MUSGRAVE AKE
U.S. WELL NUMBER: 47-049-02508-00-00
Horizontal 6A New Drill
Date Issued: 10/12/2021

Promoting a healthy environment.

10/15/2021

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

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

1) Well Operator: EQT Production Company 306686 Marion Mannington Glover Gap
Operator ID County District Quadrangle

2) Operator's Well Number: 9H Well Pad Name: Carnegie

3) Farm Name/Surface Owner: Jeanne Ann Musgrave Akers & Joseph Forte Public Road Access: CR 7/3

4) Elevation, current ground: 1,343' Elevation, proposed post-construction: 1,318'

5) Well Type (a) Gas Oil Underground Storage
Other _____
(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,754', 79', 2,593 PSI

8) Proposed Total Vertical Depth: 7,754'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 9,079'

11) Proposed Horizontal Leg Length: 953'

12) Approximate Fresh Water Strata Depths: 309', 335', 341', 413', 709'

13) Method to Determine Fresh Water Depths: Offset Wells - 049-00294, 049-30050, 049-00200, 049-30239, 049-00292

14) Approximate Saltwater Depths: 1,894'

15) Approximate Coal Seam Depths: 557'-559', 711'-713', 979'-983', 1,076'-1,083'

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

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

(a) If Yes, provide Mine Info: Name: Harrison County Mine
Depth: 1,076'-1,083'
Seam: Pittsburgh
Owner: Murray Energy Corporation

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WW-6B
(04/15)

4704902508
API NO. 47- _____
OPERATOR WELL NO. 9H _____
Well Pad Name: Carnegie _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	50 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1133	1133	1000 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2715	2715	1000 ft ³ / CTS
Production	5 1/2	New	P-110	20	9079	9079	500' above intermediate casing
Tubing							
Liners							

*Bygn Haen
8-31-21*

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill vertical to an approximate depth of 7893', tag the Onondaga not more than 100', run logs, plug back to approximately 7088'. Then kick off and drill the lateral in the Marcellus formation. Cement casing.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 60.28 Acres

22) Area to be disturbed for well pad only, less access road (acres): 8.96 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.

*Note: Attach additional sheets as needed.

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601 37th Street, SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Hoffman, 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 I (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.

10/15/2021



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601 57th Street, SE
Charleston, WV 25304
(304) 926-0450
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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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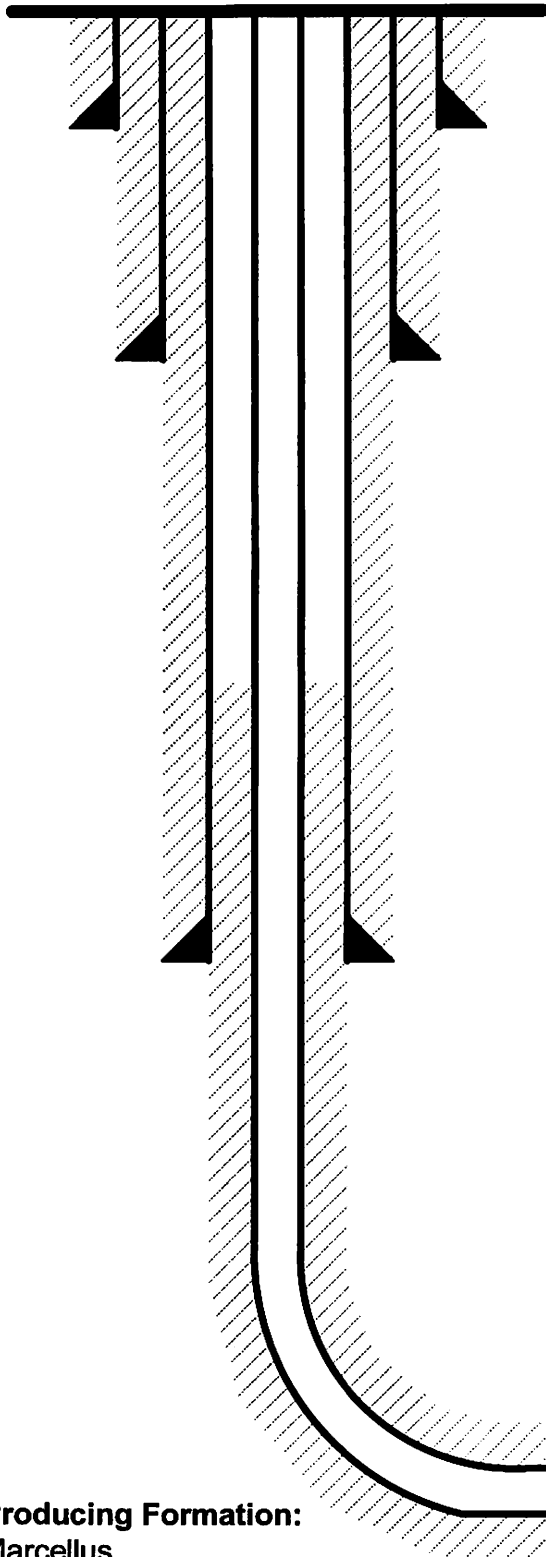
EQT Production

Wellbore Diagram

Well: Carnegie 9H
Pad: Carnegie
Elevation: 1360' GL 1373' KB

County: Marion
State: West Virginia

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Conductor @ 40'

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

Surface @ 1,133'

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

Intermediate @ 2,715'

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

Production @ 9,079' MD / 7,754' TVD

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

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Producing Formation:
Marcellus

Proposed work: Drill vertical to an approximate depth of 7893', tag the Onondaga not more than 100', run logs, plug back to approximately 7088'. Then kick off and drill the lateral in the Marcellus formation.

10/15/2021
NOT TO SCALE

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well

Carnegie
S-000512

Drilling Objectives:

Marcellus

County:

Marion

Quad:

Glover Gap

Elevation:

1373 KB

1360 GL

Recommended Azimuth

TBD Degrees

Recommended LP to TD: TBD

Proposed Logging Suite:

@ Pilothead TD - Run OH logs for evaluation of uphole zones.

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments
Fresh Water Zone	1	709		FW @ 413,335,309,341,709.
Washington	557	559	Coal	No voids should be encountered, but located in a large barrier block in the active Harrison County Mine (PGH seam)
Waynesburg	711	713	Coal	
Sewickley	979	983	Coal	
Pittsburgh	1076	1083	Coal	
Keener Storage Zone	2373	2400		Inside Protective Boundary of Logansport Storage Field
Big Injun	2557	2665	Silty Sand	SW @ 1894...
Int. csg pt	2715			
Gantz	3152	3240	Silty Sand	Base of Offset Well Perforations at 3301' TVD (plugged)
50F	3093	3309	Silty Sand	
Fifth Sand	3309	3375	Silty Sand	
Bayard	3375	5841	Silty Sand	
Alexander	5841	6251	Silty Sand	
Elks	6251	7205	Silty Sand	
Elks	7205	7205	Gray Shales and Silts	
Sonyea	7205	7389	Gray shale	
Middlesex	7389	7448	Shale	
Genesee	7448	7548	Gray shale interbedded	
Genesco	7548	7582	Black Shale	
Tully	7582	7611	Limestone	
Hamilton	7611	7714	Gray shale with some	
Marcellus	7714	7793	Black Shale	
Purcell	7757	7759	Limestone	
-Lateral Zone	7754			Start Lateral at 7753.5'
Cherry Valley	7772	7774	Limestone	
Onondaga	7793		Limestone	
Pilot Hole TD	7893			

Top RR Base RR
No red rock noted in offsets

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Target Thickness	79 feet
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Comments:
 Note that this is a TVD prog for a horizontal well (azimuth of TBD 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

Conductor	CSG OD	26"	CSG DEPTH:	40'	or competent rock
Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:	1133	50' below Pittsburgh, cover FW
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:	2715	Beneath the Big Injun formation
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD	

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

September 3, 2021

Page 1 of 2

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Carnegie pad: 1H, 3H, 5H, 7H, 9H, 11H, 13H, 15H, 17H and 19H.

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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Wetzel

Marion

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EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

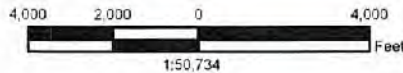
Carnegie

Vertical Offsets and
Foreign Laterals
within 500'

- Legend**
- Foreign Offset Wells
 - Foreign Laterals
 - 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.



1:1,646,784
PA



Well No.	Well Name	County	Status	Completion Date	Completion Type	Remarks	Production	Injection	Other
90237	6129199	FENDON CO INC	Completed Well						
90238	3771594	THE STATE PIPE CO	Completed Well						
90239	3771596	SOUTH PINE OIL	Completed Well						
90240	3771598	SOUTH PINE OIL	Completed Well						
90241	6129201	CONVOLUTION COAL CO	Completed Well						
90242	6129202	SOUTH PINE OIL	Completed Well						
90243	6129203	SOUTH PINE OIL	Completed Well						
90244	6129204	LANCERS INC	Completed Well						
90245	6129205	LANCERS INC	Completed Well						
90246	6129206	LANCERS INC	Completed Well						
90247	6129207	LANCERS INC	Completed Well						
90248	6129208	LANCERS INC	Completed Well						
90249	6129209	LANCERS INC	Completed Well						
90250	6129210	LANCERS INC	Completed Well						
90251	6129211	LANCERS INC	Completed Well						
90252	6129212	LANCERS INC	Completed Well						
90253	6129213	LANCERS INC	Completed Well						
90254	6129214	LANCERS INC	Completed Well						
90255	6129215	LANCERS INC	Completed Well						
90256	6129216	LANCERS INC	Completed Well						
90257	6129217	LANCERS INC	Completed Well						
90258	6129218	LANCERS INC	Completed Well						
90259	6129219	LANCERS INC	Completed Well						
90260	6129220	LANCERS INC	Completed Well						
90261	6129221	LANCERS INC	Completed Well						
90262	6129222	LANCERS INC	Completed Well						
90263	6129223	LANCERS INC	Completed Well						
90264	6129224	LANCERS INC	Completed Well						
90265	6129225	LANCERS INC	Completed Well						
90266	6129226	LANCERS INC	Completed Well						
90267	6129227	LANCERS INC	Completed Well						
90268	6129228	LANCERS INC	Completed Well						
90269	6129229	LANCERS INC	Completed Well						
90270	6129230	LANCERS INC	Completed Well						
90271	6129231	LANCERS INC	Completed Well						
90272	6129232	LANCERS INC	Completed Well						
90273	6129233	LANCERS INC	Completed Well						
90274	6129234	LANCERS INC	Completed Well						
90275	6129235	LANCERS INC	Completed Well						
90276	6129236	LANCERS INC	Completed Well						
90277	6129237	LANCERS INC	Completed Well						
90278	6129238	LANCERS INC	Completed Well						
90279	6129239	LANCERS INC	Completed Well						
90280	6129240	LANCERS INC	Completed Well						
90281	6129241	LANCERS INC	Completed Well						
90282	6129242	LANCERS INC	Completed Well						
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90286	6129246	LANCERS INC	Completed Well						
90287	6129247	LANCERS INC	Completed Well						
90288	6129248	LANCERS INC	Completed Well						
90289	6129249	LANCERS INC	Completed Well						
90290	6129250	LANCERS INC	Completed Well						
90291	6129251	LANCERS INC	Completed Well						
90292	6129252	LANCERS INC	Completed Well						
90293	6129253	LANCERS INC	Completed Well						
90294	6129254	LANCERS INC	Completed Well						
90295	6129255	LANCERS INC	Completed Well						
90296	6129256	LANCERS INC	Completed Well						
90297	6129257	LANCERS INC	Completed Well						
90298	6129258	LANCERS INC	Completed Well						
90299	6129259	LANCERS INC	Completed Well						
90300	6129260	LANCERS INC	Completed Well						

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972126	Completed Wells	UNKNOWN	UNCLASSIFIED	39 52163700	-80 42522900	UNKNOWN	0.00	0.00	0.00
972137	Completed Wells	UNKNOWN	UNCLASSIFIED	39 52334400	-80 42578800	UNKNOWN	0.00	0.00	0.00
972138	Completed Wells	UNKNOWN	UNCLASSIFIED	39 51328200	-80 42260100	UNKNOWN	0.00	0.00	0.00
972139	Completed Wells	UNKNOWN	UNCLASSIFIED	39 51651700	-80 42164100	UNKNOWN	0.00	0.00	0.00
972140	Completed Wells	UNKNOWN	UNCLASSIFIED	39 51713000	-80 42145150	UNKNOWN	0.00	0.00	0.00
972144	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55764600	-80 43328500	UNKNOWN	0.00	0.00	0.00
972195	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55057000	-80 44231700	UNKNOWN	0.00	0.00	0.00
972198	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	39 55862190	-80 45168100	HOPE NATURAL GAS	0.00	0.00	0.00
972197	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55857880	-80 44983800	UNKNOWN	0.00	0.00	0.00
972196	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55664700	-80 45122000	UNKNOWN	0.00	0.00	0.00
972199	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55744400	-80 45144800	UNKNOWN	0.00	0.00	0.00
972204	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	39 54668200	-80 45783100	HOPE NATURAL GAS	0.00	0.00	0.00
972217	Completed Wells	UNKNOWN	UNCLASSIFIED	39 54851700	-80 46023900	UNKNOWN	0.00	0.00	0.00
972163	Completed Wells	UNKNOWN	UNCLASSIFIED	39 54113600	-80 42773450	UNKNOWN	0.00	0.00	0.00
972282	Completed Wells	UNKNOWN	UNCLASSIFIED	39 56854200	-80 45475700	UNKNOWN	0.00	0.00	0.00
972294	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55295000	-80 46218700	UNKNOWN	0.00	0.00	0.00
972205	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	39 56462000	-80 46089400	HOPE NATURAL GAS	0.00	0.00	0.00
972293	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55495000	-80 45750600	UNKNOWN	0.00	0.00	0.00
972287	Completed Wells	UNKNOWN	UNCLASSIFIED	39 56336600	-80 46021900	UNKNOWN	0.00	0.00	0.00
972206	Completed Wells	UNKNOWN	UNCLASSIFIED	39 56546600	-80 46123700	UNKNOWN	0.00	0.00	0.00
972289	Completed Wells	UNKNOWN	UNCLASSIFIED	39 56787800	-80 46264200	UNKNOWN	0.00	0.00	0.00
972210	Completed Wells	UNKNOWN	UNCLASSIFIED	39 56799900	-80 46131100	UNKNOWN	0.00	0.00	0.00
972212	Completed Wells	UNKNOWN	UNCLASSIFIED	39 57113700	-80 45859600	UNKNOWN	0.00	0.00	0.00
972213	Completed Wells	UNKNOWN	UNCLASSIFIED	39 57041600	-80 46264200	UNKNOWN	0.00	0.00	0.00
972288	Completed Wells	UNKNOWN	UNCLASSIFIED	39 53557100	-80 46020700	UNKNOWN	0.00	0.00	0.00
972295	Completed Wells	UNKNOWN	UNCLASSIFIED	39 52525600	-80 44122130	UNKNOWN	0.00	0.00	0.00
972292	Completed Wells	UNKNOWN	UNCLASSIFIED	39 52835900	-80 45168100	UNKNOWN	0.00	0.00	0.00
972212	Completed Wells	UNKNOWN	UNCLASSIFIED	39 52618600	-80 43812000	UNKNOWN	0.00	0.00	0.00
972216	Completed Wells	UNKNOWN	UNCLASSIFIED	39 51554200	-80 42966800	UNKNOWN	0.00	0.00	0.00
972217	Completed Wells	UNKNOWN	UNCLASSIFIED	39 50749900	-80 41151700	UNKNOWN	0.00	0.00	0.00
901110	6/24/1999	Completed Wells	UNKNOWN	39 49941300	-80 42801700	UNKNOWN	0.00	0.00	0.00
901125	2/26/1999	Completed Wells	CONSOLIDATION COAL	39 50232000	-80 42172900	CONSOLIDATION COAL	0.00	0.00	0.00
901126	8/17/1999	Completed Wells	CONSOLIDATION COAL	39 50654300	-80 42191130	CONSOLIDATION COAL	0.00	0.00	0.00
901072	10/19/1997	Completed Wells	UNKNOWN	39 49612100	-80 42317000	UNKNOWN	0.00	0.00	0.00
901071	6/26/1999	Completed Wells	UNKNOWN	39 49446500	-80 43162710	UNKNOWN	0.00	0.00	0.00
901075	9/9/1997	Completed Wells	CONSOLIDATION COAL	39 49794600	-80 43107600	CONSOLIDATION COAL	0.00	0.00	0.00
970894	Completed Wells	UNKNOWN	UNCLASSIFIED	39 49951490	-80 42111910	UNKNOWN	0.00	0.00	0.00
972100	Completed Wells	UNKNOWN	UNCLASSIFIED	39 55575700	-80 45788100	UNKNOWN	0.00	0.00	0.00
972211	Completed Wells	UNKNOWN	UNCLASSIFIED	39 56046100	-80 45757000	UNKNOWN	0.00	0.00	0.00
972211	Completed Wells	UNKNOWN	UNCLASSIFIED	39 56923500	-80 45789400	UNKNOWN	0.00	0.00	0.00
972231	Completed Wells	UNKNOWN	UNCLASSIFIED	39 52051190	-80 46170500	UNKNOWN	0.00	0.00	0.00
970245	Completed Wells	UNKNOWN	UNCLASSIFIED	39 54152100	-80 44533900	UNKNOWN	0.00	0.00	0.00
972231	Completed Wells	UNKNOWN	UNCLASSIFIED	39 53053600	-80 44845100	UNKNOWN	0.00	0.00	0.00
902075	12/23/2009	Completed Wells	CONSOLIDATION COAL	39 54389000	-80 43995000	CONSOLIDATION COAL	0.00	0.00	0.00
902374	4/15/2010	Completed Wells	CONSOLIDATION COAL	39 51603000	-80 44150000	CONSOLIDATION COAL	0.00	0.00	0.00
970244	Completed Wells	WHEELING NATURAL GAS CO	PEUDO OMBRIAL WELL - UNKNOWN CLASS	39 54518200	-80 44448000	WHEELING NATURAL GAS CO	0.00	0.00	0.00
930943	1/7/1972	Completed Wells	WEST VIRGINIA DEPT OF MINES OIL, GAS DIV	39 50205600	-80 40864700	WEST VIRGINIA DEPT OF MINES OIL, GAS DIV	0.00	0.00	0.00
930951	8/13/1973	Completed Wells	WEST VIRGINIA DEPT OF MINES OIL, GAS DIV	39 50047000	-80 40215900	WEST VIRGINIA DEPT OF MINES OIL, GAS DIV	0.00	0.00	0.00
901103	11/27/1968	Completed Wells	UNKNOWN	39 50111300	-80 40688700	UNKNOWN	0.00	0.00	0.00

1878483

WELL	ACT STATUS	SH STATUS	CURS OPER	ELEV HP CO	PHL CLASS	HPT CLASS	LATITUDE	LONGITUDE	OPER NAME	PR DEPTH	PROJ TO	SPUD DATE	ELEVATION	TOT DEPTH	TWO	WELL NAME	
4704018130000	Completed Well	PHL	EQUITRANS LP	GA	GAS STORAGE WELL	GAS STORAGE WELL	39 51607600		-80 45611080	EQUITRANS LP	1171 00000000	0 00000000	9/6/2008	1825 00000000	4413 00000000	0 00000000	6179 CLAYTON-HARP
4704018130000	Completed Well	PHL	EQUITRANS LP	GB	GAS STORAGE WELL	GAS STORAGE WELL	39 51726670		-80 44070830	EQUITRANS LP	1213 00000000	0 00000000	10/14/2008	1933 00000000	4263 00000000	2180 00000000	6178 CLAYTON-HARP ET AL
4704021212000	Completed Well	PHL	ECF PRODUCTION CO	GB	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39 56447710		-80 45219100	TRAM1 ENERGY INC	0 00000000	11700 00000000	7/24/2014	1493 00000000	13801 00000000	7843 00000000	SH SHAVER ET AL
4704021212000	Completed Well	PHL	ECF PRODUCTION CO	GB	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39 56447170		-80 45174990	TRAM1 ENERGY INC	0 00000000	11700 00000000	7/24/2014	1492 00000000	13131 00000000	7849 00000000	SH SHAVER ET AL

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WW-9
(4/16)

4704902508

API Number 47 - _____ - _____
Operator's Well No. Carnegie 9H

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 306685

Watershed (HUC 10) Laurel Run of Owen Davy Fork 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 _____)

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

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Subscribed and sworn before me this 9th day of September, 2021

[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 201259968
Member, Pennsylvania Association of Notaries

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	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: Bryan Harris

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: Inspector Date: 8-31-21

Field Reviewed? Yes No

4704902508

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.

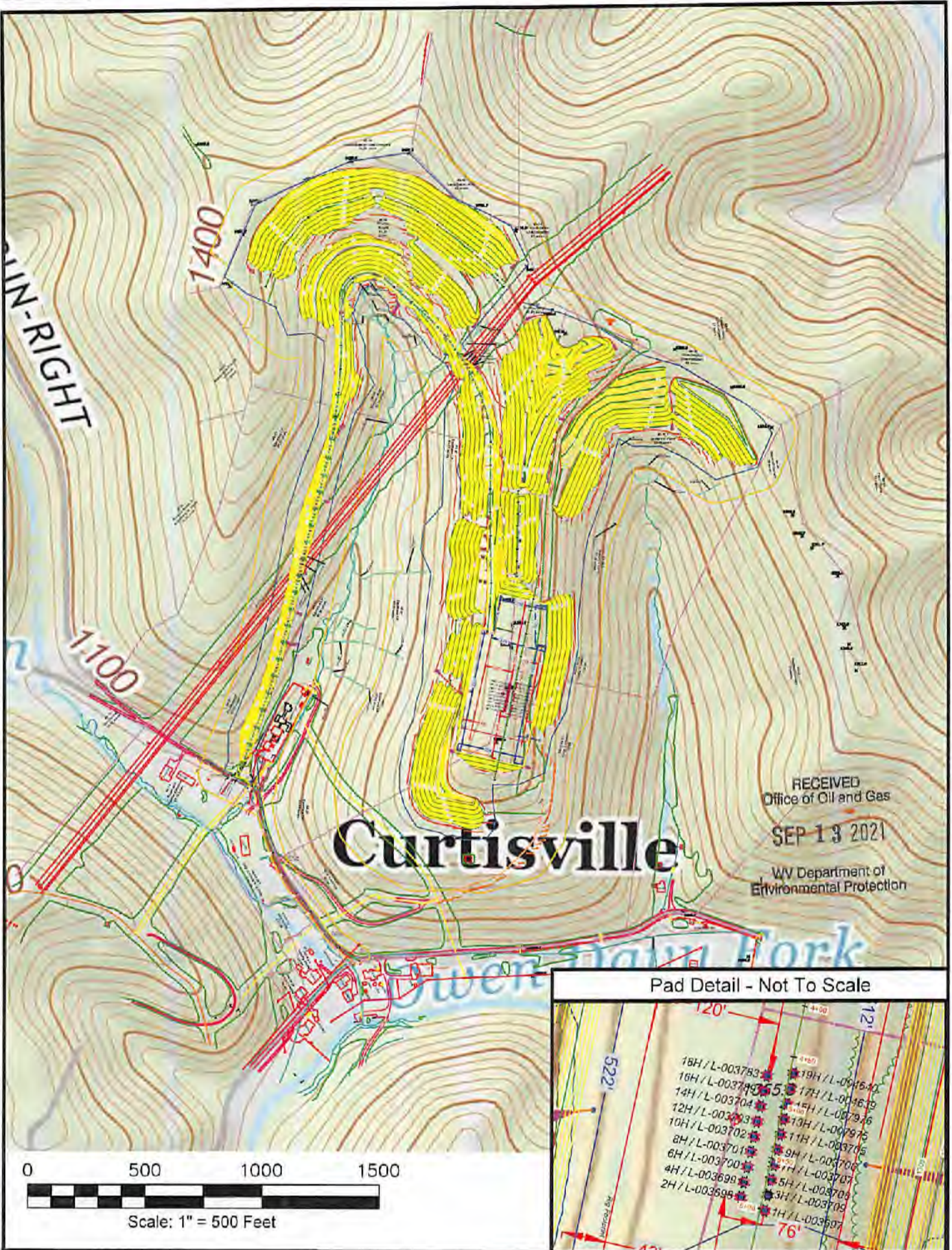
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10/15/2021

**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

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



Pine Grove 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	See Site Plan
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Scott Brown	DATE: August 5, 2021	FILE NO. 92-21	DRAWING FILE NO. Carnegie Rec Plan

Note: SEE SITE PLAN OF CARNEGIE FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.

10/15/2021



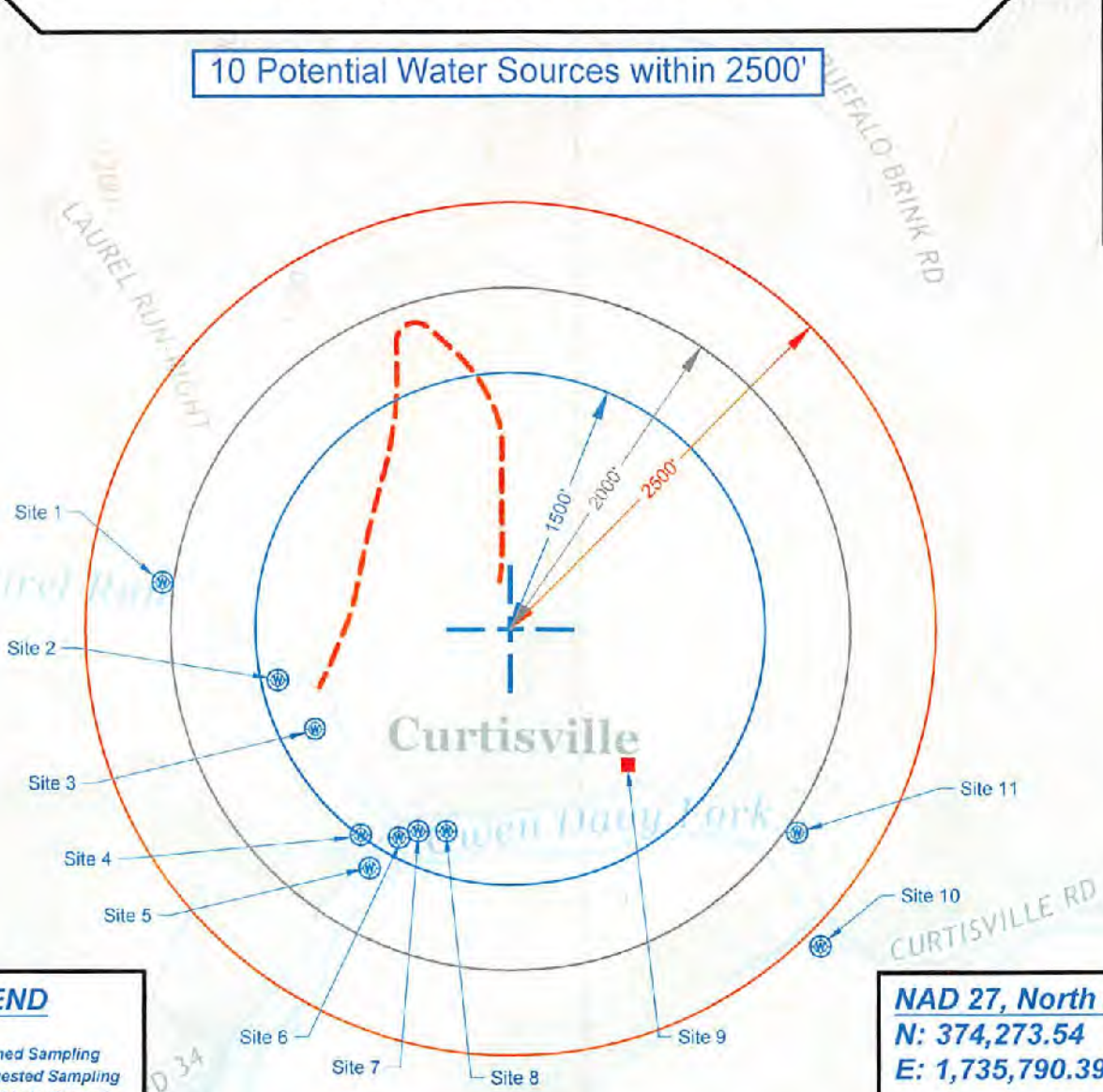
SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608
 237 Birch River Road P.O. Box 438 Birch River, WV 26610

Topo Quad: Glover Gap Scale: 1" = 1000'
 County: Marion Date: July 13, 2021
 District: Mannington Project No: 92-18-M-21

Water

Carnegie North Well Pad

10 Potential Water Sources within 2500'



LEGEND

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

- Well
- Spring
- Pond
- Building

NAD 27, North Zone
N: 374,273.54
E: 1,735,790.39

WGS 84
LAT: 39.523903
LONG: -80.436440
ELEV: 1316.0'



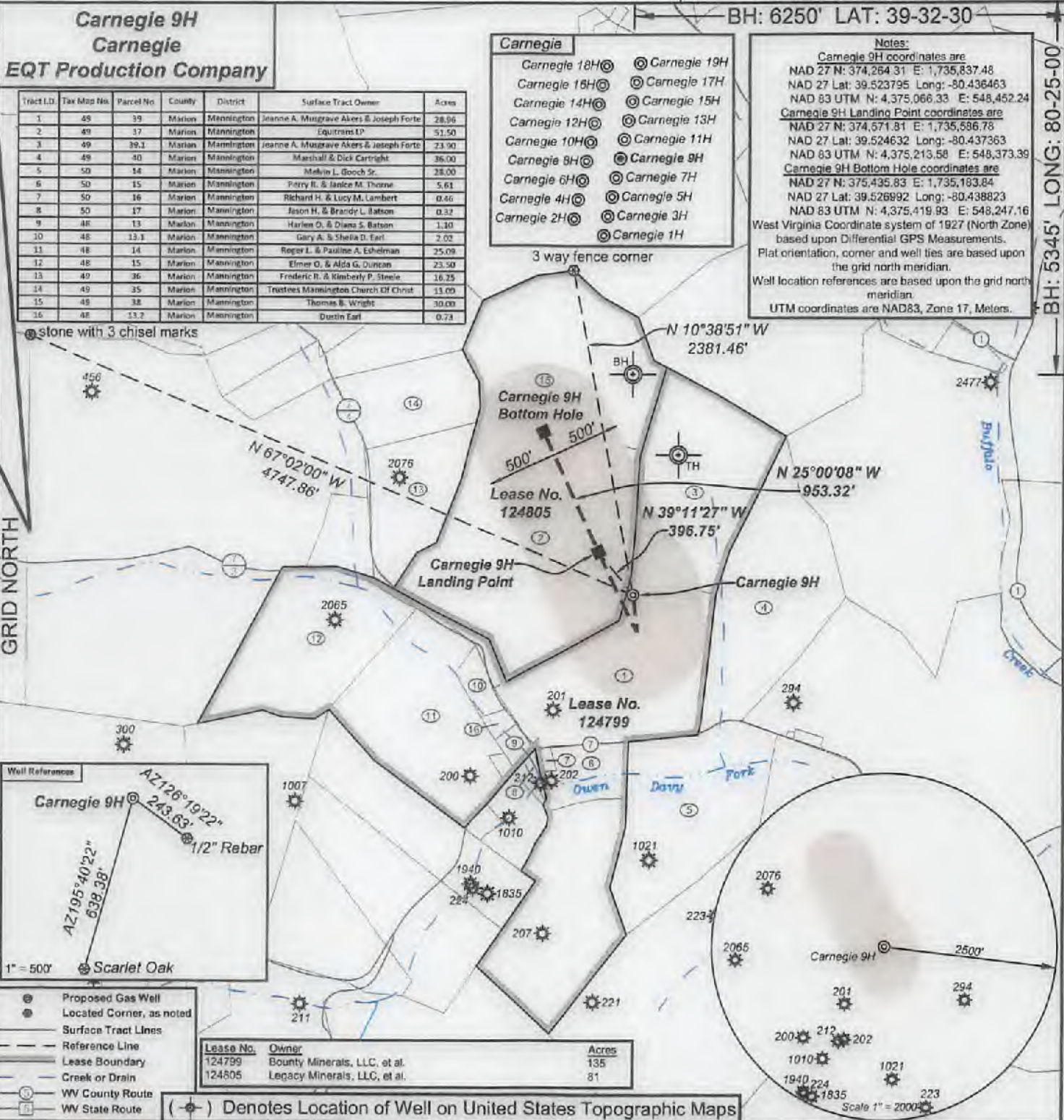
SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

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

PREPARED FOR:

EQT Production Company

400 Woodcliff Drive
 Canonsburg, PA 15317



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: 93-21
DRAWING NO: Carnegie 9H
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: August 19 20 21
OPERATOR'S WELL NO.: Carnegie 9H
API WELL NO: 4704902508
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Existing: 1343 Proposed: 1318' WATERSHED Laurel Run of Owen Davy Fork QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion
SURFACE OWNER: Jeanne A. Musgrave Akers & Joseph Forte ACREAGE: 28.96
ROYALTY OWNER: Bounty Minerals, LLC, et al. LEASE NO: 124799 ACREAGE: 135
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: 7754'

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

10/15/2021

**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: John Zavatchan
Its: Project Specialist - Permitting

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>124799</u>	<u>Bounty Minerals, LLC, et al.</u>	135 ac	Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 465/312
	Guy F. Musgrave, single; et al				DB 510/487
	Pittsburgh and West Virginia Gas Company				DB 511/539
	Pittsburgh and West Virginia Gas Company				AB 12/279
	Equitable Gas Company				DB 1148/296
	Equitrans, Inc.				AB 46/660
	Equitable Gas Company, LLC				DB 1114/130
<u>124805</u>	<u>Legacy Minerals, LLC, et al.</u>	81 ac	Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 667/33
	Howard Wright and Helen Wright, his wife; et al				AB 12/279
	Equitable Gas Company				DB 1148/296
	Equitrans, Inc.				AB 46/660
	Equitable Gas Company, LLC				DB 1114/130

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EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

September 3, 2021

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

Re: Carnegie 9H Gas Well
Mannington District, Marion County, WV

Dear Mr. Brewer,

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

Sincerely,

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

John Zavatchan
Project Specialist - Permitting

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Environmental Protection

10/15/2021

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

Date of Notice Certification: 09/09/2021

API No. 47- _____ - _____
Operator's Well No. 9H
Well Pad Name: Carnegie

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>4.375.066.33</u>
County: <u>Marion</u>		Northing: <u>548.452.24</u>
District: <u>Mannington</u>	Public Road Access: <u>CR 7/3</u>	
Quadrangle: <u>Glover Gap</u>	Generally used farm name: <u>Jeanne A. Musgrave Akers & Joseph Forte</u>	
Watershed: <u>Laurel Run of Owen Davy Fork</u>		

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

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

Required Attachments:

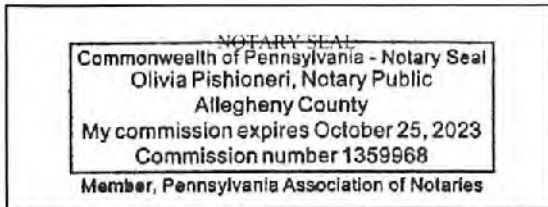
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

4704902508

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 9th day of September, 2021
Olivia Pishioneri 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- -
OPERATOR WELL NO. 9H
Well Pad Name: Carnegie

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

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

Date of Notice: 9/8/2021 Date Permit Application Filed: 9/10/2021

Notice of:

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

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

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

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

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

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

Name: _____
Address: _____

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

Name: _____
Address: _____

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

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

COAL OPERATOR
Name: See Attached List
Address: _____

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: See Attached List
Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas
API NO. 47- _____
OPERATOR WELL NO. 9H _____
Well Pad Name: Carnegie _____

4704902508
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WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

10/15/2021

WW-6A
(8-13)

4704902508
API NO. 47-
OPERATOR WELL NO. 9H
Well Pad Name: Carnegie

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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WW-6A
(8-13)

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

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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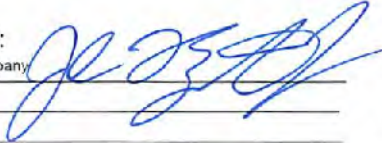
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WW-6A
(8-13)

4704902508
API NO. 47-
OPERATOR WELL NO. 9H
Well Pad Name: Carnegie

Notice is hereby given by:

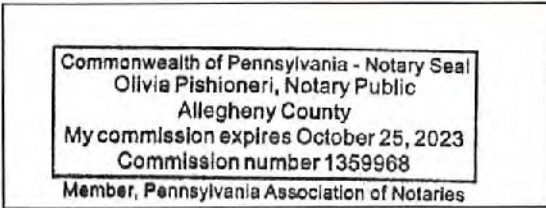
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com



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 9th day of September, 2021
Olivia Pishoneri Notary Public
My Commission Expires October 25, 2023

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10/15/2021

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Surface Owners:

Jeanne Ann Musgrave Akers & Joseph Forte ✓
c/o Joseph Forte
11 Hutchinson Drive
Fairmont, WV 26554

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

Equitrans, L.P. ✓
2200 Energy Drive,
Canonsburg, PA 15317

Jeanne Ann Musgrave Akers, et. al. ✓
c/o Joseph Forte
11 Hutchinson Drive
Fairmont, WV 26554

Thomas B. Wright, c/o Martha Arnold ✓
808 Gaston Ave.
Fairmont, WV 26554

Coal Owners:

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

Nancy B. Pachell ✓
2997 Eldora Drive
Youngstown, OH 44511

Phyllis George ✓
5543 Walnut Grove Circle
Struthers, OH 44471

Jane Ann Toothman ✓
1919 Bel Air Terrace
Steubenville, OH 43952 ✓

Glenda Thomas Shuttlesworth ✓
121 Harbour Point Circle ✓
Coldspring, TX 77331

Elizabeth A. Beach ✓
21858 River Oaks Drive, Apt 6
Rocky River, OH 44116 ✓

Theodore J. George ✓
PO Box 56
Bergholz, OH 43908 ✓

Christine A. Fenstermaker ✓
1559 Couny Hwy 50 ✓
Bergholz, OH 43908

James V. McKee ✓
1644 Township Rd 54 ✓
Hammondsville, OH 43940

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Karen L. McClain
3092 Markle Drive
Silver Lake, OH 44224

Janet Dinofrio
200 St Rt 151
Mingo Junction, OH 43938

Jackson S. Longstreth
8526 Autumn Rust Rd.
Ellicott City, MD 21043

Hedwig M. Longstreth
1412 Harberson Rd.
Baltimore, MD 21228

George H. Gartside, Jr.
6130 Whatland Road
Catonsville, MD 21228

Paula Diane Dennison
628 Canyon Road
Morgantown, WV 26508

Shaun Karlo a/k/a David S.Karlo
2651 South Lowell Blvd
Denver, CO 80219

Shirley K. Garvin
1489 Lakewood Circle
Washington, WV 26191

David William Myers
217 Long Run Rd
Fairmont, WV 26554

Nancy Ann Moffa
262 Lanham Ln
Fairmont, WV 26554

Patty Lou Wotring
305 White Avenue
Fairmont, WV 26554

Mark Evan Myers
438 Hall St.
Fairmont, WV 26554

Jeanne A. Akers
Rt 3 Box 179
Shinnston, WV 26431

Joseph V. Forte
11 Hutchinson Drive
Fairmont, WV 26554

Mary Lee Roberty
2400 Durston Rd Apt 12
Bozeman, MT 59718

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Mura Musgrave Turner
3514 Luewan Ct.
Indianapolis, IN 46235

Miriam, David and Jonathan Musgrave
Heirs of Robert Musgrave
c/o Mura Musgrave Turner
3514 Luewan Ct.
Indianapolis, IN 46235

Anita Kathleen
4763 Ridge Top Drive
Morgantown, WV 26508

Lisa A. Adams
2487 E. 300 N.
Anderson, IN 46012-9613

Michael Greenlee
14123 SW 143rd Street
Archer, FL 32618

C. Jean Hess
169 Waterway Avenue
Satsuma, FL 32189

Jeffrey Lee Shepard
117 Dally Drive
Fairmont, WV 26554

David C. Blass
261 Lakeview Drive
Morgantown, WV 26508

Leonard P. Blass
c/o David C. Blass
261 Lakeview Drive
Morgantown, WV 26508

Coal Operator
Murray Energy Corporation
46226 National Road W
St. Clairsville, OH 43950

Water Supply Owners within 1,500'

Roger and Pauline Eshelman
69 Lylac Road
Mannington, WV 26582

Gary and Sheila Earl
23 Lylac Road
Mannington, WV 26582

Harlen Batson
484 Curtisville Road
Mannington, WV 26582

Jason and Diana Batson
471 Curtisville Road
Mannington, WV 26582

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10/15/2021

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Richard and Lucy Lambert
459 Curtisville Road
Mannington, WV 26582

Perry Thome and Eric Efaw
93 Curtisville Road
Mannington, WV 26582

Operator of Any Natural Gas Storage Field

Equitrans, L.P.
Attn: Gerald Smith
2200 Energy Drive
Canonsburg, PA 15317

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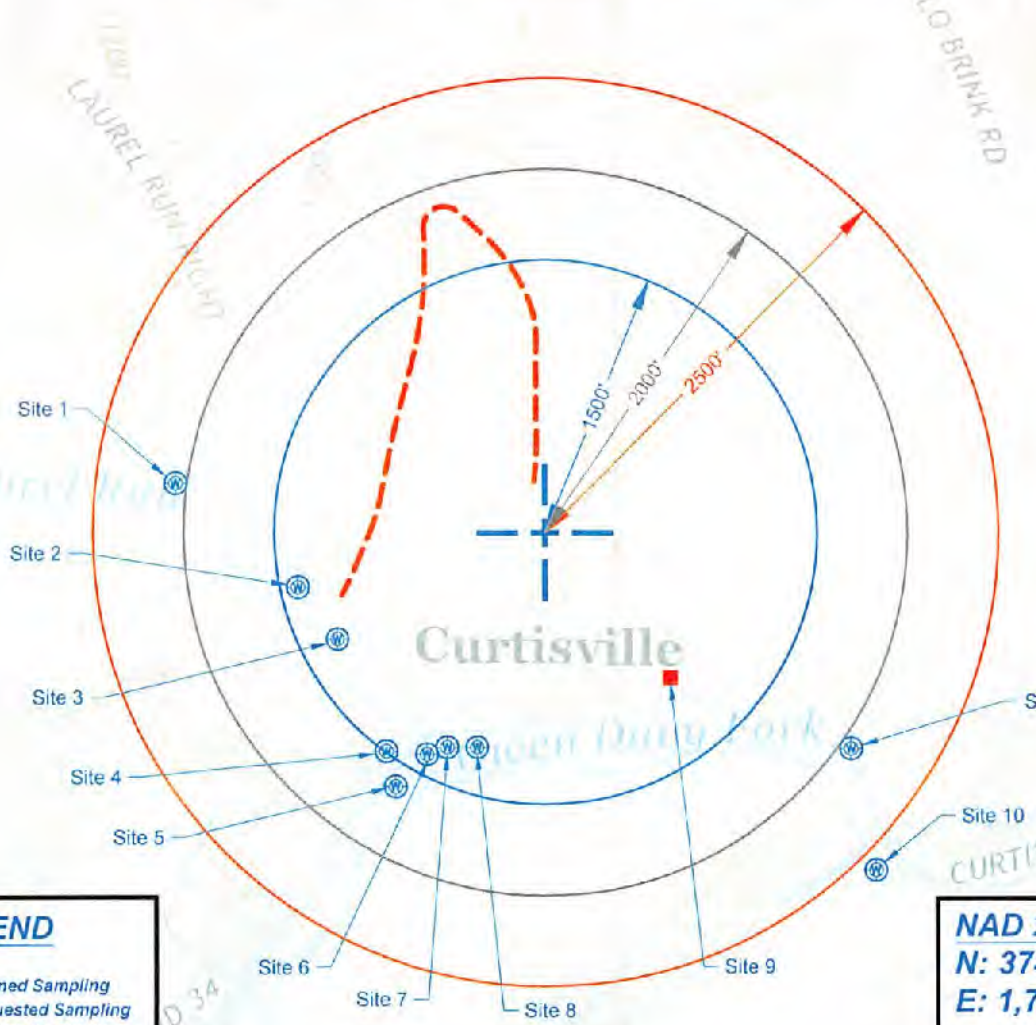
10/15/2021

Topo Quad: Glover Gap Scale: 1" = 1000'
 County: Marion Date: July 13, 2021
 District: Mannington Project No: 92-18-M-21

Water

Carnegie North Well Pad

10 Potential Water Sources within 2500'



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LEGEND

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

- Well
- Spring
- Pond
- Building

NAD 27, North Zone
N: 374,273.54
E: 1,735,790.39

WGS 84
LAT: 39.523903
LONG: -80.436440
ELEV: 1316.0'



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

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

4704902508



Table 1 – Water Source Identification

EQT Well Pad Name: **Carnegie North**

Submittal Date: **July 13, 2021**

EQT Well Number: _____

Survey / Engineering Company: **Allegheny Surveys, Inc.**

Site Number: **1** Distance from Gas Well (feet): **2,060 ±**

Surface Owner / Occupant: **William Crigler**

Address: **120 Lylac Rd. Mannington WV 26582** Phone #: **304-368-8843**

Field Located Date: **3-11-2019** Owner home during survey (yes/no): _____

Coordinates: **39.524600, -80.443691** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **5-18-2021** 2nd: _____ Door Hanger Left: _____

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

Comments: **Water Well** located behind house in small shed 3-11-19. Uses public water source, but wants to use well as backup. Mr. Crigler called on 6-3-2021 to say he wants it tested.

Site Number: **2** Distance from Gas Well (feet): **1,399 ±**

Surface Owner / Occupant: **Roger and Pauline Eshelman**

Address: **69 Lylac Rd. Mannington WV 26582** Phone #: **304-986-2142**

Field Located Date: **9-20-2016** Owner home during survey (yes/no): **Yes**

Coordinates: **39.523045, -80.441276** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **5-18-2021** 2nd: _____ Door Hanger Left: _____

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

Comments: **Called 5/20/2021 Wants testing. (304) 986-2142 Water well in front yard for testing.**

Site Number: **3** Distance from Gas Well (feet): **1291 ±**

Surface Owner / Occupant: **Gary and Sheila Earl**

Address: **23 Lylac Rd. Mannington WV 26582** Phone #: **304-986-1433**

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

Coordinates: **39.522268, -80.440494** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **5-18-2021** 2nd: _____ Door Hanger Left: _____

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

Comments: **Field visit 6-21-2021. Uses public water source, but wants Water Well in backyard as backup.**

(Insert additional pages as needed)

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Site Number: 4 Distance from Gas Well (feet): 1,490 ±

Surface Owner / Occupant: Harlen Batson

Address: 484 Curtisville Rd. Mannington WV 26582 Phone #: 304-986-2721

Field Located Date: 9-20-16 Owner home during survey (yes/no): Yes

Coordinates: 39.520577, -80.439516 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 5-18-2021 2nd: _____ Door Hanger Left: _____

Comments: Water Well in back yard. Diana called 5/20/2021 Wants testing. "Make sure they call to arrange testing." Very friendly. Also owns older home next to him (48-13) beside creek.

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

Site Number: 5 Distance from Gas Well (feet): 1,532 ±

Surface Owner / Occupant: Brenda Stull (Possibly Brenda Nutter?)

Address: 493 Curtisville Rd. Mannington WV 26582 Phone #: _____

Field Located Date: 3-11-2019 Owner home during survey (yes/no): No

Coordinates: 39.520263, -80.439166 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 5-18-2021 2nd: _____ Door Hanger Left: 6-21-2021

Comments: Water Well located left of driveway. Neighbor (site 4) says they use public water source and that her last name is now Nutter and her husband's name is Sam.

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

Site Number: 6 Distance from Gas Well (feet): 1,476 ±

Surface Owner / Occupant: Jason & Diana Batson

Address: 471 Curtisville Rd. Mannington WV 26582 Phone #: 304-986-2408

Field Located Date: 3-11-2019 Owner home during survey (yes/no): Yes

Coordinates: 39.520285, -80.438799 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 5-18-2021 2nd: _____ Door Hanger Left: _____

Comments: Field visit 6-21-2021. Spoke to Diana. Water Well located very close to site 5. Uses public water source, but wants well as backup. Jason is the son of Harlen (site 4).

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

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Site Number: 7 Distance from Gas Well (feet): 1,300 ±

Surface Owner / Occupant: Richard & Lucy Lambert

Address: 459 Curtisville Rd. Mannington WV 26582 Phone #: 304-986-9090

Field Located Date: 9-20-16 Owner home during survey (yes/no): Yes

Coordinates: 39.520646, -80.438326 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 6-18-2021 2nd: _____ Door Hanger Left: _____

Comments: Field visit 6-21-21. Water Well under driveway. Uses public water source as main source. Declined testing.

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

Site Number: 8 Distance from Gas Well (feet): 1,240 ±

Surface Owner / Occupant: Perry Thorne / Eric Efaw

Address: 93 Curtisville Rd. Mannington WV 26582 Phone #: 304-986-2627

Field Located Date: 9-27-2016 Owner home during survey (yes/no): Yes

Coordinates: 39.520650, -80.437737 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 5-18-2021 2nd: _____ Door Hanger Left: 6-21-2021

Comments: Certified sent 5-18-2021. Field visit 6-21-2021. Doorhanger left. No further contact. From Sept. 2016 report: "Do not go on property without first contacting Mr. Thorne. Treat with utmost respect and you should have no problems. Previous EQT employee, but does NOT like the "new" EQT. Water Well supplies house grandson (Eric) is occupying."

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

Site Number: 9 Distance from Gas Well (feet): _____

Surface Owner / Occupant: Judith Myers

Address: 1032 Plum Run Rd. Mannington WV 26582 Phone #: 304-825-6359

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

Coordinates: 39.521742, -80.433966 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 5-18-2021 2nd: _____ Door Hanger Left: _____

Comments: Letter returned on 5/24/2021 from Judith Myers for no water testing. Abandoned house on property. Phone 304-825-6359.

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

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Site Number: 10 Distance from Gas Well (feet): 2,603 ±

Surface Owner / Occupant: Marietta Meck

Address: 235 Curtisville Rd. Mannington WV 26582 Phone #: 304-986-2131

Field Located Date: 9-27-16 Owner home during survey (yes/no): Yes

Coordinates: 39.518849, -80.429918 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 5-18-2021 2nd: _____ Door Hanger Left: _____

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

Comments: Water Well in front yard by blue shed with water faucet. Called on 5/26/2021 Wants testing.

Site Number: 11 Distance from Gas Well (feet): 1,765 ±

Surface Owner / Occupant: Nancy Efaw

Address: 292 Curtisville Rd. Mannington WV 26582 Phone #: _____

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

Coordinates: 39.521153, -80.431288 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 3-11-2019 2nd: _____ Door Hanger Left: 3-11-2019

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

Comments: Certified mailed on 5-18-21 Undelivered/Unclaimed and returned on 06/11/2021. Field visit on 6-21-2021. Wants Water Well tested at bottom of driveway near main road. Daughter of Perry Thorne and mother of Eric Efaw (Site #8).

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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: 08/30/2021 **Date Permit Application Filed:** 09/10/2021

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: See Attached List Name: See Attached List
Address: _____ 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: West Virginia UTM NAD 83 Easting: 548,452.24
County: Marion Northing: 4,375,068.33
District: Mannington Public Road Access: CR 7/3
Quadrangle: Glover Gap Generally used farm name: Jeanne A. Musgrave Akers and Joseph Forte
Watershed: Laurel Run of Owen Davy Fork

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

Oil and Gas Privacy Notice:

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

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Surface Owners:

4704902508

Jeanne Ann Musgrave Akers & Joseph Forte
c/o Joseph Forte
11 Hutchinson Drive
Fairmont, WV 26554

Equitrans, L.P.
2200 Energy Drive,
Canonsburg, PA 15317

Jeanne Ann Musgrave Akers, et. al.
c/o Joseph Forte
11 Hutchinson Drive
Fairmont, WV 26554

Thomas B. Wright, c/o Martha Arnold
808 Gaston Ave.
Fairmont, WV 26554

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WV Department of
Environmental Protection
10/15/2021

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

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

Date of Notice: 09/08/2021 **Date Permit Application Filed:** 09/10/2021

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>See Attached List</u>	Name: _____
Address: _____	Address: _____

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>548,452.24</u>
County: <u>Marion</u>	Northing: <u>4,375,066.33</u>
District: <u>Mannington</u>	Public Road Access: <u>CR 7/3</u>
Quadrangle: <u>Glover Gap</u>	Generally used farm name: <u>Jeanne A. Musgrave & Joseph Forte</u>
Watershed: <u>Laurel Run of Owen Drvy Fork</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>Cancosburg, 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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Surface Owners:

4704902508

Jeanne Ann Musgrave Akers & Joseph Forte
c/o Joseph Forte
11 Hutchinson Drive
Fairmont, WV 26554

Equitrans, L.P.
2200 Energy Drive,
Canonsburg, PA 15317

Jeanne Ann Musgrave Akers, et. al.
c/o Joseph Forte
11 Hutchinson Drive
Fairmont, WV 26554

Thomas B. Wright, c/o Martha Arnold
808 Gaston Ave.
Fairmont, WV 26554

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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

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

August 5, 2021

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 Carnegie Pad, Marion County
Carnegie 9H Well Site ✓

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2016-0799 which has been issued to EQT Production Company for access to the State Road for a well site located off Marion County Route 7/3 SLS MP 0.197.

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

Very Truly Yours,

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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**Anticipated Frac Additives
Chemical Names and CAS Numbers**

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	Proprietary
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH4)Cl)	12125-02-9
Biocide	Glutaraldehyde	111-30-8
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
Scale Control	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid))(BHMT)	34690-00-1
	Non-hazardous substances	Proprietary
Acid Chelating Agent	Citric Acid	77-92-9
Corrosion Inhibitor	Methanol	67-56-1
	pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2
	Nonoxynol-9	127087-87-0
	2-ethyl-1-hexanol	104-76-7
	4-nonylphenyl, ethoxylated	26027-38-3

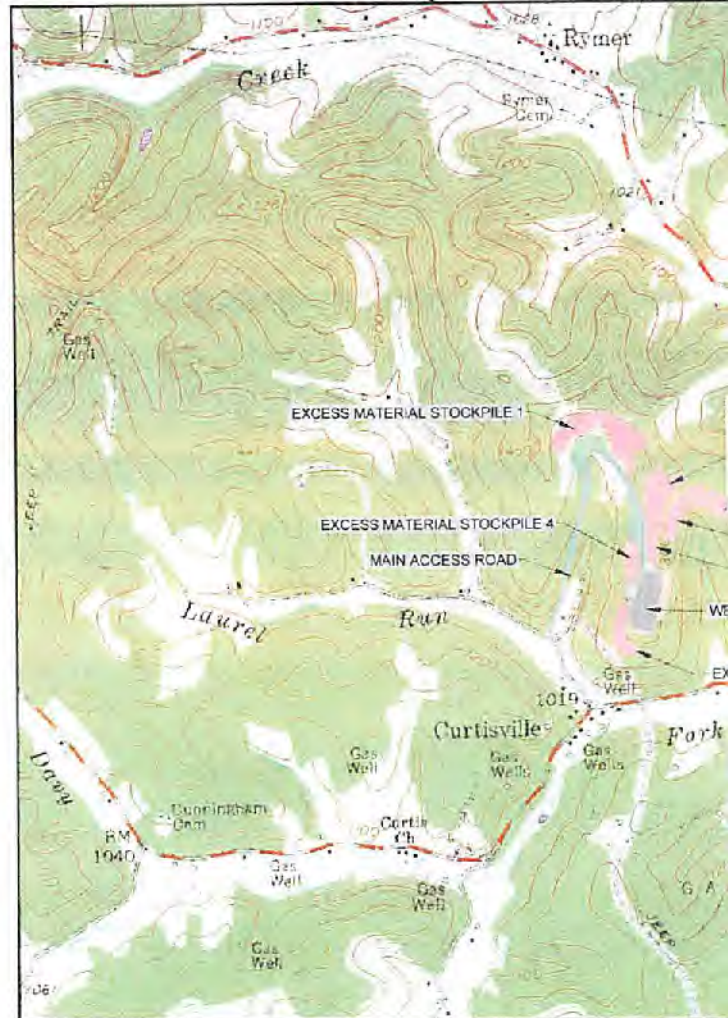
✓

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EQT - CAI MODIFIED FINAL SITE DESIGN EROSION & SEDIMENT EQT PRODUCTION



WELL LEGEND

- 1H / L-003697 - LAT: 39.523718 / LONG. -80.436315
- 2H / L-003698 - LAT: 39.523751 / LONG. -80.436397
- 3H / L-003709 - LAT: 39.523758 / LONG. -80.436305
- 4H / L-003699 - LAT: 39.523792 / LONG. -80.436386
- 5H / L-003708 - LAT: 39.523798 / LONG. -80.436294
- 6H / L-003700 - LAT: 39.523832 / LONG. -80.436376
- 7H / L-003707 - LAT: 39.523839 / LONG. -80.436284
- 8H / L-003701 - LAT: 39.523872 / LONG. -80.436365
- 9H / L-003706 - LAT: 39.523879 / LONG. -80.436273
- 10H / L-003702 - LAT: 39.523913 / LONG. -80.436355
- 11H / L-003705 - LAT: 39.523920 / LONG. -80.436263
- 12H / L-003703 - LAT: 39.523953 / LONG. -80.436344
- 13H / L-007975 - LAT: 39.523960 / LONG. -80.436252
- 14H / L-003704 - LAT: 39.523994 / LONG. -80.436334
- 15H / L-007976 - LAT: 39.524000 / LONG. -80.436242
- 16H / L-003789 - LAT: 39.524034 / LONG. -80.436324
- 17H / L-004639 - LAT: 39.524041 / LONG. -80.436231
- 18H / L-003783 - LAT: 39.524074 / LONG. -80.436313
- 19H / L-004640 - LAT: 39.524081 / LONG. -80.436221

SITE LOCATIONS WGS 84 (WV NORTH ZONE)		
	LATITUDE	LONGITUDE
Proposed Well Pad	39.523859	-80.426421
Proposed Access Road Sta 0+00	39.523937	-80.426416



MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV: Chapter 24-C)
Requires that you call two business
days before you dig in the state of
West Virginia.
IT'S THE LAW!!



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

10/15/2021

CARNEGIE
CONSTRUCTION PLANS, &
CONTROL PLANS
COMPANY

Buyer Hain
8-31-21



West Virginia Coordinate System of 1993
 State Plane Grid North
 Elevations NAVD88
 Established By Survey Grade GPS



Allegheny Surveys Inc.
 P.O. Box 438
 237 Birch River Road
 Birch River, WV 26610
 304-649-8606

[Signature]
 3/29/2021

Hornor
 Since 1902 **Bros. Engineers**
 Civil, Mining, Environmental and
 Consulting Engineering
 140 South Road Street, Post Office Box 265,
 Charleston, West Virginia, 25301 (304) 854-0442



AFFECTED PROPERTIES

- JOSEPH V. FORTE
 TAX MAP 49 - PARCEL 39
 28.96 ACRES
 SITE DISTURBANCE
 EXCESS MATERIAL STOCKPILE # 2 13 ACRES
 WELL PAD # 3 09 ACRES
 TIMBER REMOVAL # 4 08 ACRES
- EQUITANS LP
 TAX MAP 49 - PARCEL 37
 51.50 ACRES
 SITE DISTURBANCE
 MAIN ACCESS ROAD # 8 34 ACRES
 EXCESS MATERIAL STOCKPILES # 5 56 ACRES
 WELL PAD # 3 51 ACRES
 TIMBER REMOVAL # 15 19 ACRES
- THOMAS WRIGHT
 TAX MAP 49 - PARCEL 36
 81.25 ACRES
 SITE DISTURBANCE
 MAIN ACCESS ROAD # 8 15 ACRES
 EXCESS MATERIAL STOCKPILES # 13 64 ACRES
 TIMBER REMOVAL # 20 94 ACRES
- JOSEPH V. FORTE
 TAX MAP 49 - PARCEL 39 F
 22.96 ACRES
 SITE DISTURBANCE
 EXCESS MATERIAL STOCKPILE # 10 16 ACRES
 TOPSOIL STOCKPILE # 7 15 ACRES
 WELL PAD # 2 35 ACRES
 TIMBER REMOVAL # 14 55 ACRES

FLOODPLAIN CONDITIONS

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
HEC-RAS STUDY COMPLETED	NO
FLOODPLAIN SHOWN ON DRAWINGS	N/A
FIRM MAP NUMBER(S) FOR SITE	54049C0065D & 54049C0070D
ACREAGES OF CONSTRUCTION IN FLOODPLAIN	N/A

SHEET INDEX

COVER SHEET / LOCATION MAP	1
EXISTING CONDITIONS PLAN	2
SCHEDULE OF QUANTITIES	3
CONSTRUCTION, GENERAL AND E&S NOTES	4
OVERVIEW OF SITE DESIGN	5
ISOPACH & EARTHWORK BALANCE MAP	6-7
FINAL SITE DESIGN PLANS	8-13
WELL PAD PROFILE & CROSS SECTIONS	14-18
ACCESS ROAD PROFILE & CROSS SECTIONS	19-26
EXCESS MATERIAL STOCKPILES PROFILES & SECTIONS	27-38
TOPSOIL STOCKPILE PROFILE & CROSS SECTIONS	39
CONSTRUCTION DETAILS	40-43
RECLAMATION PLANS	44-49

WELL LOCATION RESTRICTIONS

- Well Pad complies with the Well Location Restrictions of WV code 22-6A-12
- * 250' from an existing well or developed spring used for human or domestic animals
 - * 625' to occupied dwelling or farm greater 2500 SF, used for poultry or dairy, measured from the center of the pad
 - * 100' from edge of disturbance to wetlands, perennial streams, natural or artificial lake, pond or reservoir
 - * 300' from slope of disturbance to naturally reproducing trout streams
 - * 1000' of surface or ground water intake to a public water supply

Design Certification

The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas §35-4-21



DATE	REVISIONS
10/05/2017	ADDRESSED PLOT COMMENTS DATED 9-25-17, ADDED THREE SHEETS
12/14/2017	UPDATED EDC PROJECT CONTACT
05/06/2019	CHANGED PROPOSED ACCESS ROAD TO ADDED PROPOSED ACCESS ROAD TO PROFFESSOR STATION
05/06/2019	CHANGED PAD SIZE, RAISED PAD AND ADJUSTED ACCESS ROAD & WELLS
06/24/2019	CHANGED PAD SIZE, ADJUSTED SPOOLS, DITCHES, ETC.
06/24/2019	CHANGED WELL LAYOUT PER EOT
07/28/2021	CHANGED WELL LAYOUT PER EOT

RECEIVED
 Office of Oil and Gas

SEP 13 2021
 WV Department of Environmental Protection

COVER / LOCATION SHEET

CARNEGIE
MODIFIED WELL PAD SITE
 MANNINGTON DISTRICT
 MARION COUNTY, WV

Date: 3/29/2021
 Scale: As Noted
 Designed By: TBC
 File No: 2021-0000000000000000
 Page: 1 of 49

4704902508

EQT - CARNEGIE MODIFIED FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS EQT PRODUCTION COMPANY

**APPROVED
WVDEP OOG**
10/7/2021

West Virginia Coordinate System of 1983
State Plane GCS North
Elevation NAD 83
Established by Survey Grade 0P3



Allegheny Surveys Inc.
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-0506



Hornor
Shane Hornor, P.E.
Civil, Mechanical, Environmental and
Manufacturing Engineering and
Construction Management
1000 Main Street, Suite 100
Martinsburg, WV 26150
304-263-1111



THIS DOCUMENT
PREPARED FOR
LIFT PRODUCTION
CORPORATION

COVER LOCATION SHEET
**CARNEGIE
MODIFIED WELL PAD SITE**
MANNINGTON DISTRICT
MARION COUNTY, WV

Date: 3/29/2021
Scale: As Noted
Prepared By: TBC
7/8/2021
Page: 1 of 8



WELL LEGEND

1H / L-003697	- LAT: 39.523718 / LONG. -80.436315
2H / L-003698	- LAT: 39.523751 / LONG. -80.436397
3H / L-003709	- LAT: 39.523768 / LONG. -80.436305
4H / L-003699	- LAT: 39.523782 / LONG. -80.436389
5H / L-003708	- LAT: 39.523798 / LONG. -80.436294
6H / L-003700	- LAT: 39.523832 / LONG. -80.436376
7H / L-003707	- LAT: 39.523839 / LONG. -80.436264
8H / L-003701	- LAT: 39.523672 / LONG. -80.436365
9H / L-003706	- LAT: 39.523879 / LONG. -80.436273
10H / L-003702	- LAT: 39.523913 / LONG. -80.436366
11H / L-003705	- LAT: 39.523920 / LONG. -80.436263
12H / L-003703	- LAT: 39.523953 / LONG. -80.436344
13H / L-007975	- LAT: 39.523980 / LONG. -80.436252
14H / L-003704	- LAT: 39.523994 / LONG. -80.436334
15H / L-007976	- LAT: 39.524000 / LONG. -80.436242
16H / L-003789	- LAT: 39.524034 / LONG. -80.436324
17H / L-004639	- LAT: 39.524041 / LONG. -80.436231
18H / L-003793	- LAT: 39.524074 / LONG. -80.439313
19H / L-004640	- LAT: 39.524091 / LONG. -80.439221

- AFFECTED PARCELS:**
- JOSEPH V. FORTE**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS MATERIAL STOCKPILE 1 - 2 PARCELS**
WELL PAD - 2.00 ACRES
TAXER PERMISAL - 4.00 ACRES
 - EXCESS STOCKPILE 2**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS STOCKPILE 3**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS STOCKPILE 4**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS STOCKPILE 5**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - WELL PAD**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS MATERIAL STOCKPILE 1 - 2 PARCELS**
WELL PAD - 2.00 ACRES
TAXER PERMISAL - 4.00 ACRES
 - EXCESS STOCKPILE 2**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS STOCKPILE 3**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS STOCKPILE 4**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - EXCESS STOCKPILE 5**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE
 - WELL PAD**
TAX MAP #9 - PARCEL #9
28.00 ACRES
\$18,000 UPRANCE

FLOODPLAIN CONDITIONS

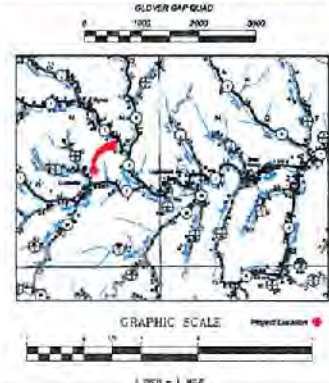
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN?	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:	NO
FLOODPLAIN SHOWN ON DRAWINGS:	NA
FIRM MAP NUMBER(S) FOR SITE:	540500004D & 540500007D
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:	TEA

SHEET INDEX

COVER SHEET / LOCATION MAP	1
EASTING CONDITIONS PLAN	2
SCHEDULE OF QUANTITIES	3
CONSTRUCTION, GENERAL AND E&S NOTES	4
OVERVIEW OF SITE DESIGN	5
ROADWAY & EARTHWORKS BALANCE MAP	6-7
FINAL SITE DESIGN PLANS	8-13
WELL PAD PROFILE & CROSS SECTIONS	14-16
ACCESS ROAD PROFILE & CROSS SECTIONS	17-20
EXCESS MATERIAL STOCKPILES PROFILES & SECTIONS	21-24
TOPICAL STOCKPILE PROFILES & CROSS SECTIONS	25
CONSTRUCTION DETAILS	40-43
RECLAMATION PLANS	44-49

SITE LOCATIONS
WELL PAD LOCATIONS

Recorded Well Pad	LATITUDE	LONGITUDE
Proposed Access Road (NA)	39.523913	-80.436263



MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV: Chapter 24-C)
Requires that you call two business
days before you dig in the state of
West Virginia.
IT'S THE LAW!!

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

CARNEGIE WELL MODIFIED PAD FINAL SITE DESIGN



APPROVED
WVDEP OOG
10/7/2021

All geographic information shown herein is based on aerial photography provided by the Mountain Area Mapping unit in April of 2019.

Allegheny Surveys Inc.
P.O. Box 438
237 Birch River Road
Brook River, WV 26010
304-649-8666



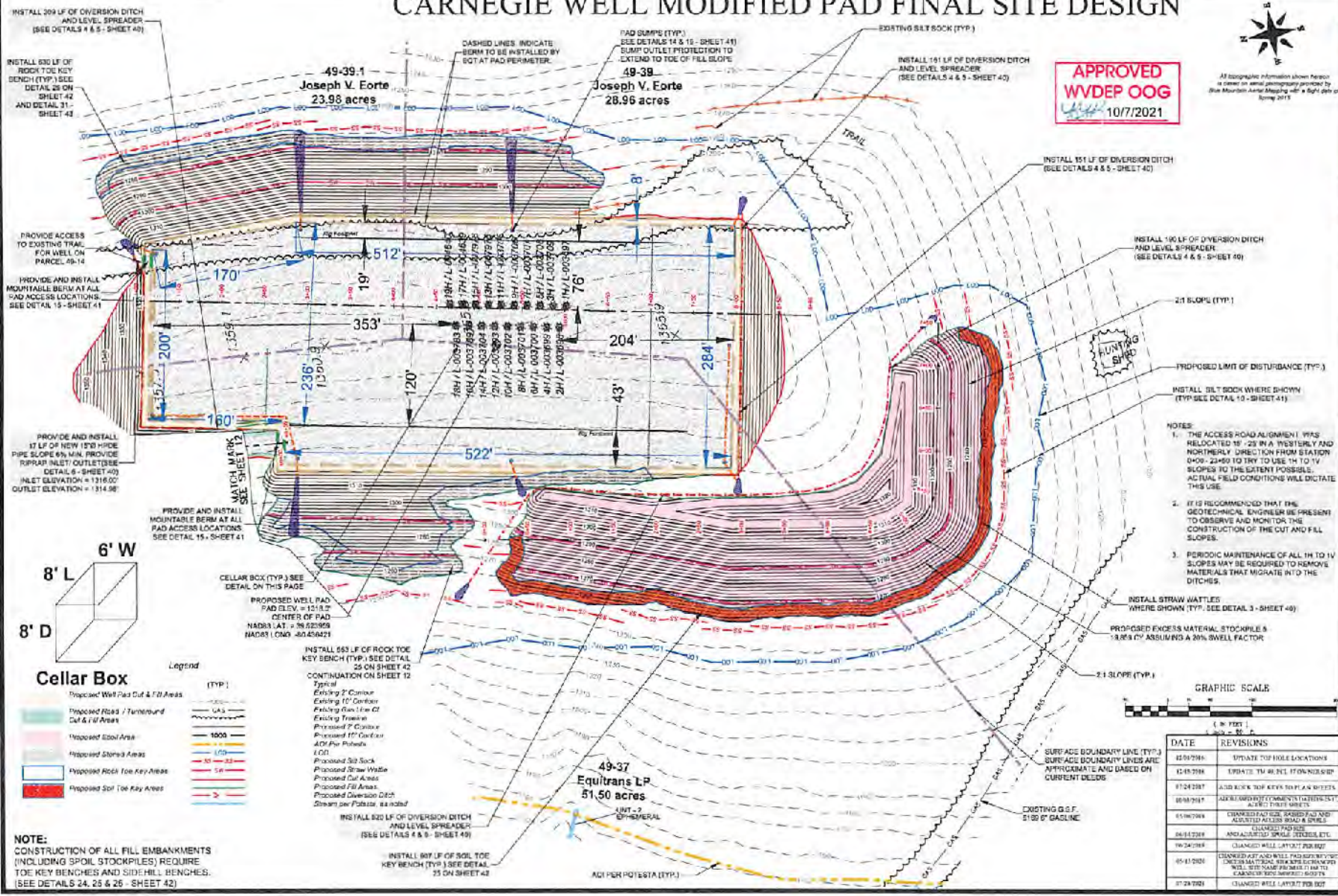
Hornor Bros. Engineers
Civil, Survey, Environmental and
Construction Engineering and
Architecture
1000 1/2 Main Street, Andover, WV 26021
304-649-8666



THIS DOCUMENT
PREPARED FOR
THE PROJECTING
COMPANY

FINAL SITE DESIGN
CARNEGIE
MODIFIED WELL PAD SITE
MANSINGTON DISTRICT
MASON COUNTY, WV

Date: 3/29/2021
Scale: 1" = 50'



INSTALL 204 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 40)

INSTALL 830 LF OF ROCK TOE KEY BENCH (TYP.) SEE DETAIL 26 ON SHEET 42 AND DETAIL 21 - SHEET 42

DASHED LINES INDICATE BERM TO BE INSTALLED BY GGT AT PAD PERIMETER.

PAD BUMPS (TYP.) SEE DETAILS 14 & 15 - SHEET 41) BUMP OUTLET PROTECTION TO EXTEND TO TOE OF FILL SLOPE

EXISTING SILT ROCK (TYP.)

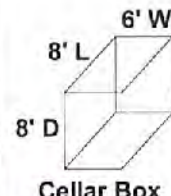
INSTALL 191 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 40)

PROVIDE ACCESS TO EXISTING TRAIL FOR WELL ON PARCEL 49-14

PROVIDE AND INSTALL MOUNTABLE BERM AT ALL PAD ACCESS LOCATIONS. SEE DETAIL 15 - SHEET 41

PROVIDE AND INSTALL 17 LF OF NEW 18" HDPE PIPE SLOPE 6% MIN. PROVIDE RIPRAP INLET/OUTLET (SEE DETAIL 6 - SHEET 40) INLET ELEVATION = 1316.00' OUTLET ELEVATION = 1314.98'

PROVIDE AND INSTALL MOUNTABLE BERM AT ALL PAD ACCESS LOCATIONS. SEE DETAIL 15 - SHEET 41



- Legend**
- Proposed Well Pad Out & Fill Areas
 - Proposed Road / Turnaround Cut & Fill Areas
 - Proposed Spoil Area
 - Proposed Stone Areas
 - Proposed Rock Toe Key Areas
 - Proposed Soil Toe Key Areas

INSTALL 583 LF OF ROCK TOE KEY BENCH (TYP.) SEE DETAIL 25 ON SHEET 42. CONTINUATION ON SHEET 42

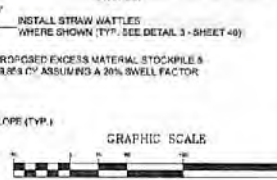
Typical Existing 2' Concrete Existing 10' Concrete Existing 15' Clay Existing 20' Clay Existing 25' Concrete Existing 30' Concrete Existing 35' Concrete Existing 40' Concrete Existing 45' Concrete Existing 50' Concrete Existing 55' Concrete Existing 60' Concrete Existing 65' Concrete Existing 70' Concrete Existing 75' Concrete Existing 80' Concrete Existing 85' Concrete Existing 90' Concrete Existing 95' Concrete Existing 100' Concrete

NOTE: CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING SPOIL STOCKPILES) REQUIRE TOE KEY BENCHES AND SIDE HILL BENCHES. (SEE DETAILS 24, 25 & 26 - SHEET 42)

INSTALL 807 LF OF SOIL TOE KEY BENCH (TYP.) SEE DETAIL 25 ON SHEET 42

INSTALL 820 LF OF DIVERSION DITCH AND LEVEL SPREADER (SEE DETAILS 4 & 5 - SHEET 40)

- NOTES:**
- THE ACCESS ROAD ALIGNMENT WAS RELOCATED 15' - 25' IN A WESTERLY AND NORTHERLY DIRECTION FROM STATION 0+00 - 2+80 TO TRY TO USE 1H TO 1V SLOPES TO THE EXTENT POSSIBLE. ACTUAL FIELD CONDITIONS WILL DICTATE THIS USE.
 - IT IS RECOMMENDED THAT THE GEOTECHNICAL ENGINEER BE PRESENT TO OBSERVE AND MONITOR THE CONSTRUCTION OF THE CUT AND FILL SLOPES.
 - PERIODIC MAINTENANCE OF ALL 1H TO 1V SLOPES MAY BE REQUIRED TO REMOVE MATERIALS THAT MIGRATE INTO THE DITCHES.



DATE	REVISIONS
02/01/2016	UPDATE TOP HOLE LOCATIONS
02/05/2016	UPDATE TOE KEY BENCH LOCATIONS
07/24/2017	ADD ROCK TOE KEYS TO PLAN SHEETS
08/08/2017	ADDRESS COMMENTS FROM MANSINGTON DISTRICT
08/08/2018	CHANGED PAD SIZE, BARGE PAD AND ADDED 18" X 18" BRICK 8' BENCH
08/08/2018	CHANGED PAD SIZE, BARGE PAD AND ADDED 18" X 18" BRICK 8' BENCH
09/24/2018	CHANGED WELL LAYOUT FOR 807'
09/24/2018	CHANGED WELL PAD AND BARGE PAD LAYOUT FOR 807' TOE KEY BENCHES AND SIDE HILL BENCHES
09/24/2018	CHANGED WELL LAYOUT FOR 807'

DATE PLOTTED: 03/29/2021 10:00 AM

4704902508

