



west virginia department of environmental protection

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

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

Wednesday, September 20, 2023
WELL WORK PERMIT
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222


Re: Permit approval for ENERGY CYNIC 30H
47-103-03606-00-00

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: ENERGY CYNIC 30H
Farm Name: MICHAEL L KOONTZ LIFE 
U.S. WELL NUMBER: 47-103-03606-00-00
Horizontal 6A New Drill
Date Issued: 9/20/2023

PERMIT CONDITIONS

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

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 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. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

09/22/2023

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

1) Well Operator: EQT Production Company 306686 Wetzel Clay Littleton
Operator ID County District Quadrangle

2) Operator's Well Number: 30H Well Pad Name: Energy Cynic

3) Farm Name/Surface Owner: Michael L. Koontz Life Estate Public Road Access: CR 9/2 (Robinson Ridge Road)

4) Elevation, current ground: 1,389' Elevation, proposed post-construction: 1,368'

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, 7,566', 49', 2,620 psi

8) Proposed Total Vertical Depth: 7,566'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 8,851'

11) Proposed Horizontal Leg Length: 921'

12) Approximate Fresh Water Strata Depths: No Freshwater Zones listed

13) Method to Determine Fresh Water Depths: Offset wells - 103-02265, 103-01822, 103-31026, 103-30250

14) Approximate Saltwater Depths: 2001'

15) Approximate Coal Seam Depths: 1,094'-1,097', 1,199'-1,204'

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

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

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

Depth: _____

Seam: _____

Owner: _____

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

WW-6B
(04/15)

4710303606
API NO. 47-
OPERATOR WELL NO. 30H
Well Pad Name: Energy Cynic

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	A252 GR 3 Bars	85.6	40	40	45 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1254	1254	1040 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2679	2679	1035 ft ³ / CTS
Production	6	New	P-110	24	8851	8851	500' above intermediate casing
Tubing							
Liners							

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	1000	18	Class A/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A/L	1.04 - 1.20
Production	6	8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 27.73

22) Area to be disturbed for well pad only, less access road (acres): 9.78

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 other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

RECEIVED
Office of Oil and Gas

AUG 11 2023

24) Describe all cement additives associated with each cement type:

Conductor: 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

WV Department of
Environmental Protection

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.

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Energy Cynic

Drilling Objectives:

Marcellus

S-001221

County:

Wetzel

Quad:

Littleton

Elevation:

1381 KB

1368 GL

Recommended Azimuth

South Degrees

Recommended LP to TD: TBD

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	0		@ NO FRESHWATER LISTED, NEEDS UPDATED AFTER EQTWATER TES		No Red Rock Listed in C
Coal	1094	1097	Coal	Coal depths need updated after internal review		Base of
Coal	1199	1204	Coal	No mining listed		Red Rock
Big Lime	2351	2467	Limestone	SW @ 2001, , ,		
Big Injun	2493	2629	Sandstone			
Int. csg pt	2679					
Weir	2746	5110	Sandstone	NOT IN STORAGE		
Gantz	3076	3444	Silty Sand			
Bayard	3444	3954	Silty Sand			
Speechley	3864	4030	Silty Sand	Base of Offset Well Production at 3318' TVD		
Alexander	5905	6363	Silty Sand			
Elks	6363	7097	Gray Shales and Silts			
Sonyea	7097	7270	Gray shale			
Middlesex	7270	7310	Shale			
Genesee	7310	7389	Gray shale interbedded			
Geneseo	7389	7413	Black Shale			
Tully	7413	7436	Limestone			
Hamilton	7436	7542	Gray shale with some			
Marcellus	7542	7591	Black Shale			
Purcell	7559	7561	Limestone			
-Lateral Zone	7566			MRC Target		
Cherry Valley	7573	7575	Limestone			
Onondaga	7591		Limestone			
Pilot Hole TD	7691					

Target Thickness	50 feet
Max Anticipated Rock Pressure	2620 PSI

Comments:

All measurements taken from estimated KB elevation.

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.

RECOMMENDED CASING POINTS

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:	1254	50' Below Pittsburgh Coal
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:	2679	Beneath the Big Injun formation
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD	

RECEIVED
 Office of Oil and Gas
 AUG 11 2023
 WV Department of
 Environmental Protection

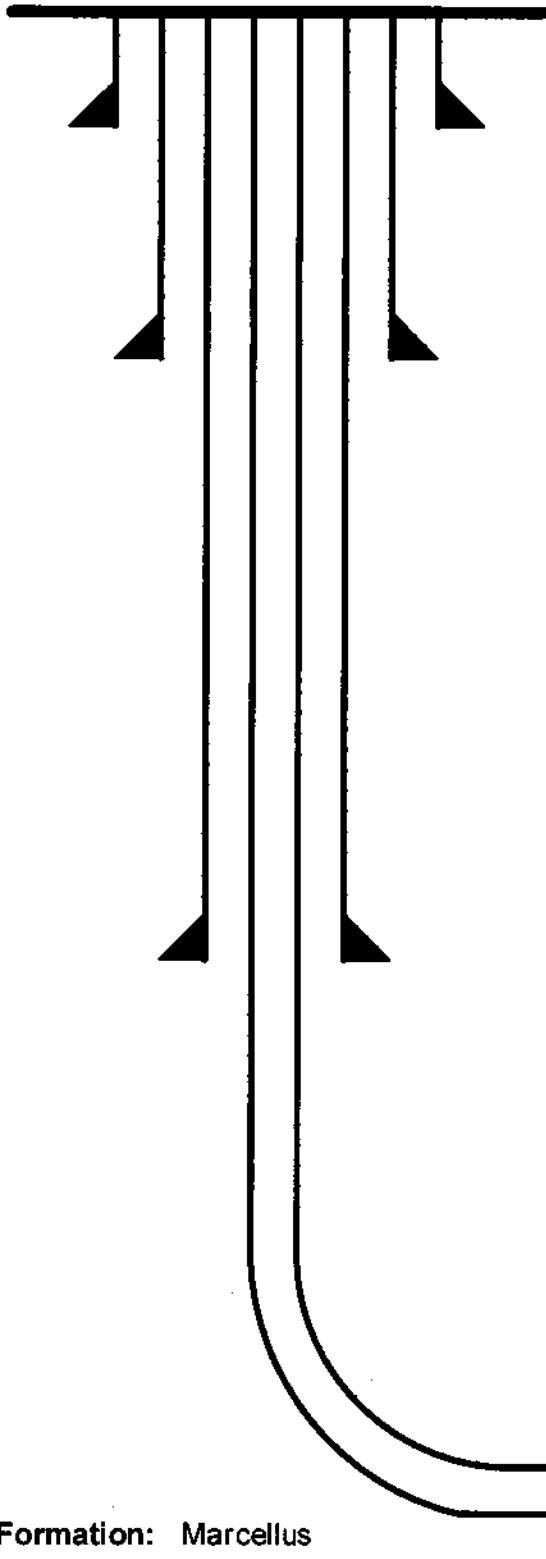
EQT Production

Wellbore Diagram

Well: Energy Cynic 30H
Pad: Energy Cynic
Elevation: 1368' GL 1381' KB

County: Wetzel
State: West Virginia

4710303606



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

Surface @ 1,254'
13-3/8", 54.5#, J-55, cement to surface w/ Class A/L

Intermediate @ 2,679'
9-5/8", 36#, J-55, cement to surface w/ Class A/L

Production @ 8,851' MD / 7,566' TVD
6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

Formation: Marcellus

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

08/22/2023 SALE



August 8, 2023

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

Re: Casing on Energy Cynic 30H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,254' KB, 50' below the deepest workable coal seam.

The 9-5/8" intermediate string will be set at 2,679' KB, 50' below the base of the Big Injun formation.

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

Sincerely,

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

John Zavatchan
Project Specialist - Permitting

Enc.

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

09/22/2023

4710303606



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

RECEIVED
Office of Oil and Gas
AUG 11 2023
West Virginia Department of
Environmental Protection

09/22/2023



west virginia department of environmental protection

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

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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

- 2% Calcium Chloride (Accelerator)
- 0.25 % Super Flake (Lost Circulation)
- 94% Type "1" Cement
- 5.20 % Water

2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

Promoting a healthy environment.

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

09/22/2023

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

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

09/22/2023



4710303606

August 8, 2023

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

Re: Class L Cement Variance Request
Energy Cynic 30H Well
Clay District, Wetzel County

Dear Mr. Brewer,

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

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

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

Sincerely,

John Zavatchan
Project Specialist - Permitting

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

Enc.

09/22/2023



west virginia department of environmental protection

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

Harold D. Ward, 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)
LEGISLATIVE RULE 35CSR4)
SECTION 11.5 AND LEGISLATIVE RULE)
35CSR8 SECTION 9.2.h.8.,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-14

RECEIVED
Office of Oil and Gas
AUG 11 2023

WV Department of
Environmental Protection

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

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

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

CONCLUSIONS OF LAW

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

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


ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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


James Martin, Chief
Office of Oil and Gas

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

09/22/2023

4710303606

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Energy Cynic
County: Wetzel

August 8, 2023

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Energy Cynic pad: 30H.

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.

RECEIVED
Office of Oil and Gas

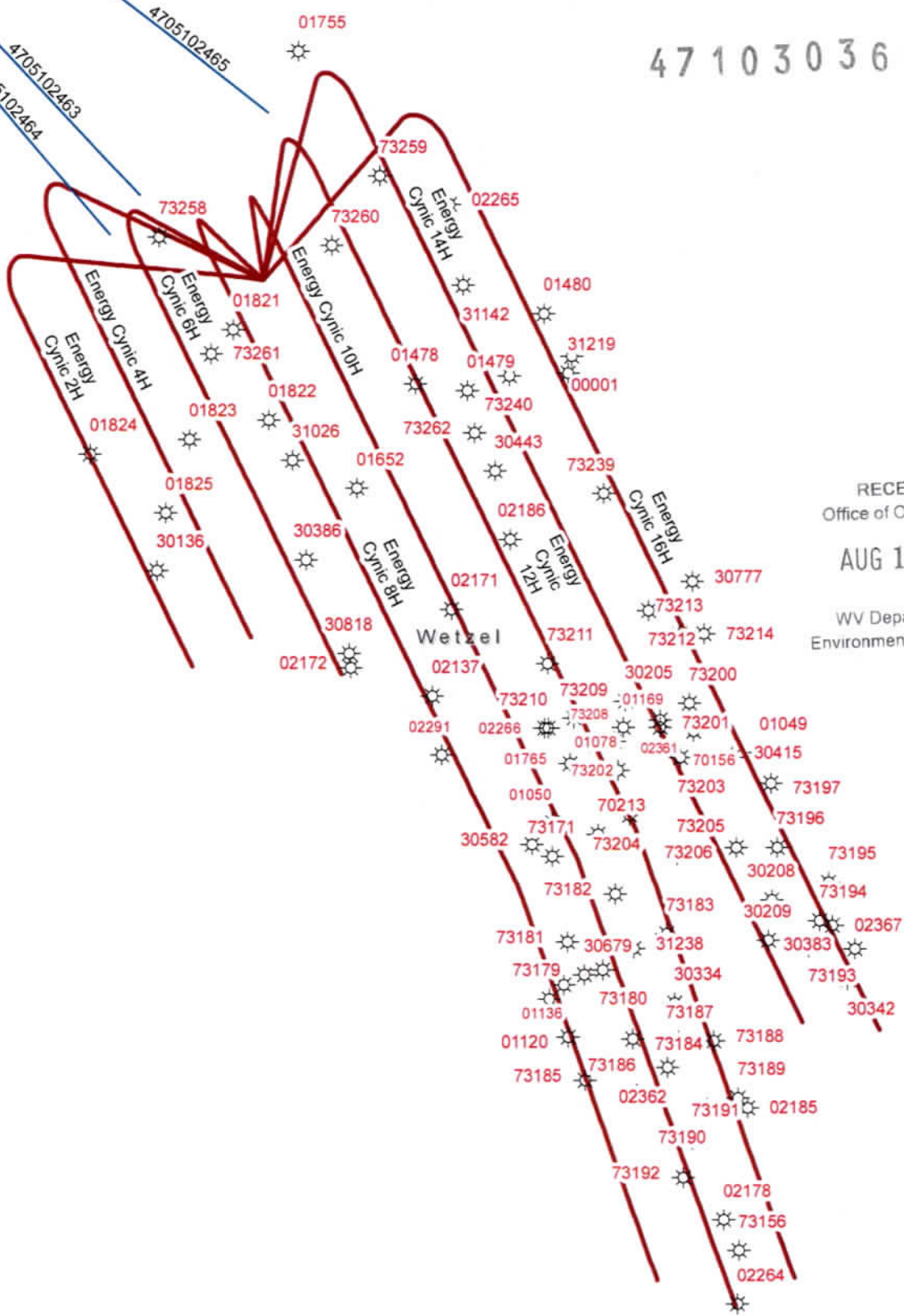
AUG 11 2023

WV Department of
Environmental Protection

Page 2 of 2

09/22/2023

47 10 30 36 00



RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection



EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

Energy Cynic

Vertical Offsets and
Foreign Laterals
within 500'

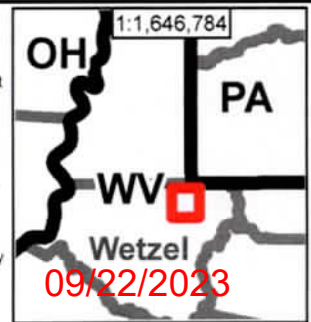
Legend

- 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.



AUG 11 2023

Department of Environmental and Natural Resources
Oil and Gas Regulation

API_LWI_Lin	ENVOperato	ENVWaste	ENVWhitTP	InitialType	Latitude	Longitude	ENVElect	ENVElev_1	MD_FT	TVD_FT	WellName	WellSymbol
72195	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.675035	-80.511232	1432.2358	ESTIMATED	0.0	0.0	0.0 JONATHAN LONGWELL	UNREPORTED-UNREPORTED
72313	BP	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.665484	-80.519323	1358.6394	ESTIMATED	0.0	0.0	0.0 WILLIAM MCREYNOLDS	UNREPORTED-UNREPORTED
72329	PITTSBURGH & WY OIL & GAS	UNREPORTED	UNREPORTED	PITTSBURGH & WY OIL & GAS	39.685225	-80.525331	1306.3545	ESTIMATED	0.0	3182.0	0.0 J.F. FERRELL	OIL & GAS-COMPLETED
72380	BP	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.701885	-80.538090	1043.0000	ACTUAL	0.0	0.0	0.0 JAMES STROSNIDER HRS	UNREPORTED-UNREPORTED
72300	EQUITABLE GAS COMPANY	UNREPORTED	UNREPORTED	EQUITABLE	39.682581	-80.518759	1394.0000	ESTIMATED	0.0	0.0	0.0 JAMES W NEWMAN	UNREPORTED-UNREPORTED
72312	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.685300	-80.521011	1265.6172	ESTIMATED	0.0	0.0	0.0 A.M. CROW	UNREPORTED-UNREPORTED
72382	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.674999	-80.522888	1134.8317	ESTIMATED	0.0	0.0	0.0 SARAH NEWMAN	UNREPORTED-UNREPORTED
72394	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.672438	-80.511815	1485.6626	ESTIMATED	0.0	0.0	0.0 GEORGE W THOMAS	UNREPORTED-UNREPORTED
01169	NATIONAL FUEL GAS	P & A	UNREPORTED	EAST RESOURCES	39.681379	-80.522446	1135.9406	ESTIMATED	0.0	0.0	0.0 W.M. MCREYNOLDS 1	OTHER P & A
72186	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.672587	-80.529537	1118.1824	ESTIMATED	0.0	0.0	0.0 E.WHITELATE	UNREPORTED-UNREPORTED
01755	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.676485	-80.514067	1375.9134	ESTIMATED	0.0	0.0	0.0 JONATHAN LONGWELL	UNREPORTED-UNREPORTED
01821	CNK	PERMIT CANCELLED	UNREPORTED	NOUMENON	39.710015	-80.539849	1020.9957	ESTIMATED	0.0	0.0	0.0 HICKENBAUGH 1	GAS-PRODUCING
30777	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	UNREPORTED	CNK GAS COMPANY	39.658818	-80.543484	1220.20418	ESTIMATED	0.0	0.0	0.0 KOONTZ, RUTH L. W-1	GAS-PERMIT CANCELLED
30818	EAGON & ROBINSON O&G	UNREPORTED	UNREPORTED	SOUTH PENN OIL (S. PENN NAT GAS)	39.682929	-80.537339	1441.19778	ESTIMATED	0.0	0.0	0.0 G.W. GILLINGHAM 1	OIL-INACTIVE COMPLETED
02367	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	EAGON & ROBINSON O&G	39.684029	-80.537339	1384.94624	ESTIMATED	2753.0	0.0	0.0 1575.0 JAMES M ALLEN	GAS-PRODUCING
02361	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.673174	-80.511073	1464.23468	ESTIMATED	4453.0	0.0	0.0 3480.0 FRANKOR 5	GAS-PRODUCING
30334	(N/A)	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.681884	-80.520430	1253.11498	ESTIMATED	3485.0	0.0	0.0 3480.0 BHOOME 1	GAS-PRODUCING
70156	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	UNREPORTED	SOUTH PENN OIL (S. PENN NAT GAS)	39.670039	-80.519894	1243.4791	ESTIMATED	0.0	0.0	0.0 SARAH NEWMAN 1	OIL-INACTIVE COMPLETED
72187	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.684445	-80.518870	1293.58120	ESTIMATED	3263.0	0.0	0.0 W.M. MCREYNOLDS	OIL-UNREPORTED
73191	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.668358	-80.519511	1231.95763	ESTIMATED	0.0	0.0	0.0 GARRISON & JACKSON HRS	UNREPORTED-UNREPORTED
01479	CRESTON OIL CORPORATION	UNREPORTED	UNREPORTED	(N/A)	39.664282	-80.518761	1193.18857	ESTIMATED	0.0	0.0	0.0 JOHN SOLE	UNREPORTED-UNREPORTED
02186	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	TNG, INC.	39.695789	-80.530771	970.60908	ESTIMATED	0.0	0.0	0.0 CARMEN 1	GAS-P & A
72303	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.684549	-80.528518	1276.96496	ESTIMATED	3550.0	0.0	0.0 WETZELL 1	GAS-PRODUCING
72329	MANUFACTURERS LIGHT & HEAT CO	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.680259	-80.519323	1266.96087	ESTIMATED	0.0	0.0	0.0 JONATHAN LONGWELL	UNREPORTED-UNREPORTED
01049	DOUGAN & PHILLIPS	UNREPORTED	UNREPORTED	MANUFACTURERS LIGHT & HEAT CO	39.684765	-80.535462	907.53853	ESTIMATED	0.0	0.0	0.0 HENRY ANDERSON	UNREPORTED-UNREPORTED
72309	TRIBUNE RESOURCES	UNREPORTED	UNREPORTED	DOUGAN & PHILLIPS	39.680259	-80.547865	1307.91250	ESTIMATED	0.0	0.0	0.0 J.B. BURCH	UNREPORTED-UNREPORTED
01874	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.680549	-80.515005	1181.00000	ACTUAL	3212.0	3212.0	0.0 NEWMAN, SARAH ID	OIL-PRODUCING
30679	RANDALL-ZOGG SUPPLY CO.	UNREPORTED	UNREPORTED	CNK GAS COMPANY	39.693198	-80.525140	1331.02435	ESTIMATED	0.0	0.0	0.0 DAVID PETTIT	UNREPORTED-UNREPORTED
01823	BP	UNREPORTED	UNREPORTED	RANDALL-ZOGG SUPPLY CO.	39.671199	-80.524573	1200.66977	ESTIMATED	0.0	0.0	0.0 KOONTZ, PAUL L. W-4	OIL-COMPLETED
30205	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.702220	-80.547477	903.95331	ESTIMATED	0.0	0.0	0.0 THOMAS MADE	UNREPORTED-UNREPORTED
72186	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	UNREPORTED	CNK GAS COMPANY	39.693982	-80.545982	1195.64646	ESTIMATED	2125.0	0.0	0.0 2125.0 KOONTZ, PAUL L. W-3	CBM P & A
72108	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.666169	-80.522124	1185.68519	ESTIMATED	0.0	0.0	0.0 3073.0 W.M. MCREYNOLDS 4	OIL-COMPLETED
72189	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.680985	-80.524202	1096.29883	ESTIMATED	0.0	0.0	0.0 DAVID PETTIT	UNREPORTED-UNREPORTED
30383	RANDALL-ZOGG SUPPLY CO.	UNREPORTED	UNREPORTED	RANDALL-ZOGG SUPPLY CO.	39.666074	-80.516320	1313.56477	ESTIMATED	0.0	0.0	0.0 GARRISON & JACKSON HRS	UNREPORTED-UNREPORTED
01480	CRESTON OIL CORPORATION	UNREPORTED	UNREPORTED	RANDALL-ZOGG SUPPLY CO.	39.672214	-80.509937	1368.74447	ESTIMATED	0.0	0.0	0.0 3340.0 1	OIL-COMPLETED
01136	NATIONAL FUEL GAS	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.698284	-80.526641	1199.09383	ESTIMATED	0.0	0.0	0.0 CARRIEN 2	UNREPORTED-UNREPORTED
72156	MANUFACTURERS LIGHT & HEAT CO	UNREPORTED	UNREPORTED	EAST RESOURCES	39.678826	-80.525704	1129.09498	ESTIMATED	2992.0	2992.0	0.0 E. WHITLATCH 2	GAS-P & A
72180	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.659638	-80.516921	1234.30719	ESTIMATED	0.0	0.0	0.0 SAM THOMAS	UNREPORTED-UNREPORTED
02291	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.680540	-80.532346	1316.85688	ESTIMATED	0.0	0.0	0.0 JONATHAN A HUNT	UNREPORTED-UNREPORTED
01765	CRESTON OIL CORPORATION	UNREPORTED	UNREPORTED	TNG, INC.	39.690579	-80.533586	1029.30914	ESTIMATED	3700.0	3700.0	0.0 KOPAR 1	GAS-PRODUCING
01822	CNK	UNREPORTED	UNREPORTED	CLOWSER WELL SERVICE	39.680114	-80.525378	1219.18498	ESTIMATED	2095.0	0.0	0.0 ANDERSON 1	OIL-P & A
01020	NATIONAL FUEL GAS	UNREPORTED	UNREPORTED	CNK GAS COMPANY	39.686459	-80.541562	1326.78496	ESTIMATED	2095.0	0.0	0.0 W.M. NEWMAN 2	OTHER P & A
72185	TRIBUNE RESOURCES	UNREPORTED	UNREPORTED	EAST RESOURCES	39.686649	-80.526517	1102.54408	ESTIMATED	3064.0	0.0	0.0 2095.0 KOONTZ, RUTH L. W-2	CBM P & A
30386	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.676747	-80.526267	1199.44998	ESTIMATED	3118.0	0.0	0.0 3118.0 NEWMAN, WILLIAM 3	OIL & GAS-PRODUCING
00001	RANDALL-ZOGG SUPPLY CO.	UNREPORTED	UNREPORTED	RANDALL-ZOGG SUPPLY CO.	39.666761	-80.524579	1236.11597	ESTIMATED	0.0	0.0	0.0 JOHN SOLE	UNREPORTED-UNREPORTED
01825	PHILADELPHIA OIL CO	UNREPORTED	UNREPORTED	PHILADELPHIA OIL CO	39.688625	-80.539593	1211.27709	ESTIMATED	0.0	0.0	0.0 3285.0 1	OIL & GAS-COMPLETED
02178	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	CNK GAS COMPANY	39.697240	-80.525140	1295.17498	ESTIMATED	0.0	0.0	0.0 FERRELL, J.J. 5384	OIL-P & A
30415	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.680686	-80.547151	1265.43195	ESTIMATED	3698.0	0.0	0.0 KOONTZ, PAUL L. W-5	GAS-PERMIT CANCELLED
30208	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.660314	-80.517071	1494.95496	ESTIMATED	0.0	0.0	0.0 WINLAND 1	OIL & GAS-PRODUCING
30682	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	UNREPORTED	SOUTH PENN OIL (S. PENN NAT GAS)	39.680314	-80.516506	1467.53070	ESTIMATED	0.0	0.0	0.0 3244.0 PATRICK ODEA 5	OIL-INACTIVE COMPLETED
72188	BP	UNREPORTED	UNREPORTED	SOUTH PENN OIL (S. PENN NAT GAS)	39.680389	-80.548518	1119.66976	ESTIMATED	0.0	0.0	0.0 L.M. CARMEN	UNREPORTED-UNREPORTED
02264	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	RANDALL-ZOGG SUPPLY CO.	39.674319	-80.514440	1216.46934	ESTIMATED	3168.0	0.0	0.0 L. L. ODDA	OIL-UNREPORTED
72192	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.668358	-80.517634	1269.95056	ESTIMATED	0.0	0.0	0.0 2973.0 W.M. NEWMAN 1	OIL & GAS-COMPLETED
72183	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.657277	-80.516320	1367.03496	ESTIMATED	0.0	0.0	0.0 GARRISON & JACKSON HRS	UNREPORTED-UNREPORTED
72206	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.682857	-80.532073	1398.53683	ESTIMATED	3597.0	0.0	0.0 SOLE 1	GAS-PRODUCING
02137	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.682857	-80.532073	1257.06719	ESTIMATED	0.0	0.0	0.0 JONATHAN A HUNT	UNREPORTED-UNREPORTED
02137	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.684373	-80.528654	1147.88330	ESTIMATED	0.0	0.0	0.0 SARAH NEWMAN	UNREPORTED-UNREPORTED
72193	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.679486	-80.518320	1325.17785	ESTIMATED	0.0	0.0	0.0 IEE MCFARLIN	UNREPORTED-UNREPORTED
72314	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.680017	-80.532825	1472.26986	ESTIMATED	3168.0	0.0	0.0 JONATHAN LONGWELL	UNREPORTED-UNREPORTED
70213	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	UNREPORTED	SOUTH PENN OIL (S. PENN NAT GAS)	39.672277	-80.512378	1388.42495	ESTIMATED	3875.0	0.0	0.0 3875.0 GEORGE W THOMAS	UNREPORTED-UNREPORTED
72329	MANUFACTURERS LIGHT & HEAT CO	UNREPORTED	UNREPORTED	MANUFACTURERS LIGHT & HEAT CO	39.687094	-80.523824	1326.87199	ESTIMATED	3094.0	0.0	0.0 JAMES W NEWMAN	UNREPORTED-UNREPORTED
02171	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.691435	-80.512450	1198.67986	ESTIMATED	3700.0	0.0	0.0 MILT BOOTH	UNREPORTED-UNREPORTED
01078	TRIBUNE RESOURCES	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.684585	-80.531709	1422.22496	ESTIMATED	3700.0	0.0	0.0 3700.0 MARSHALL 2	GAS-PRODUCING
02185	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	TRIBUNE RESOURCES, LLC	39.673624	-80.526454	1288.42308	ESTIMATED	0.0	0.0	0.0 DAVID PETTIT	UNREPORTED-UNREPORTED
30443	CARNEGIE NATURAL GAS CO	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.673624	-80.527200	1084.88496	ESTIMATED	2995.0	0.0	0.0 2995.0 ODEA, PATRICK 1	OIL-PRODUCING
02172	DIVERSIFIED ENERGY	UNREPORTED	UNREPORTED	DIVERSIFIED PRODUCTION	39.692370	-80.529271	1033.24347	ESTIMATED	0.0	0.0	0.0 J.B. PETTIT NOW SUSIE J PETTIT	UNREPORTED-UNREPORTED
					39.684177	-80.537152	1446.56496	ESTIMATED	3700.0	0.0	0.0 3700.0 KOONTZ 3	GAS-PRODUCING

WellID	Operator	Product	InitialOp	InitialType	InitialDate	Lat	Long	Elev	MD	TVL	WellName	WellType	
02266	DIVERSIFIED ENERGY	GAS	UNREPROD	UNREPROD	1295.15496	-80.52653	1076.00	0.00000	3188.0	3555.0	3555.0	FRANCOIC 4	GAS-PRODUCING
30209	SOUTH PENN OIL (S. PENN NAT. GAS)	OIL	UNREPROD	UNREPROD	1497.79792	-80.514628	1076.00	0.00000	3188.0	3184.0	3184.0	SARAH NEWMAN	OIL-UNREPROD
73261	BP	UNREPROD	UNREPROD	1117.59194	-80.544661	1076.00	0.00000	0.00	0.0	0.0	0.0	JAMES STROSNIDER HKS	UNREPROD-UNREPROD
73262	(N/A)	UNREPROD	UNREPROD	1008.52296	-80.522888	1076.00	0.00000	0.00	0.0	0.0	0.0	WILLIAM MCREYNOLDS	UNREPROD-UNREPROD
73205	(N/A)	UNREPROD	UNREPROD	1195.00000	-80.519510	1076.00	0.00000	0.00	0.0	0.0	0.0	JONATHAN LONGWELL	UNREPROD-UNREPROD
31142	CARNEGIE NATURAL GAS CO	OIL & GAS	UNREPROD	UNREPROD	1280.62918	-80.530964	1076.00	0.00000	3245.0	3245.0	3245.0	E.Z. ANDERSON 1	OIL & GAS-INACTIVE COMPLETED
01652	NOUMENON CORPORATION	OTHER	UNREPROD	UNREPROD	1239.44635	-80.536776	1076.00	0.00000	0.00	0.0	0.0	HENDERSON 1	OTHER-P & A
73170	(N/A)	UNREPROD	UNREPROD	1223.47410	-80.528339	1076.00	0.00000	0.00	0.0	0.0	0.0	E. WHITELATE	UNREPROD-UNREPROD
73171	BP	UNREPROD	UNREPROD	1205.00000	-80.526267	1076.00	0.00000	0.00	0.0	0.0	0.0	B.F. BARNHART	UNREPROD-UNREPROD
02265	DIVERSIFIED ENERGY	OIL & GAS	UNREPROD	UNREPROD	1236.17496	-80.531657	1076.00	0.00000	3607.0	3607.0	3607.0	HK 1	OIL & GAS-PRODUCING
73197	(N/A)	UNREPROD	UNREPROD	1372.13568	-80.514443	1076.00	0.00000	0.00	0.0	0.0	0.0	JONATHAN LONGWELL	UNREPROD-UNREPROD
73204	(N/A)	UNREPROD	UNREPROD	1218.00000	-80.522138	1076.00	0.00000	0.00	0.0	0.0	0.0	JONATHAN LONGWELL	UNREPROD-UNREPROD
02362	DIVERSIFIED ENERGY	GAS	UNREPROD	UNREPROD	1146.08496	-80.520140	1076.00	0.00000	3510.0	3510.0	3510.0	SUTY 1	GAS-PRODUCING
73262	(N/A)	UNREPROD	UNREPROD	1132.13786	-80.530395	1076.00	0.00000	0.00	0.0	0.0	0.0	WILLIAM HENDERSON	UNREPROD-UNREPROD
73201	BP	UNREPROD	UNREPROD	1214.58113	-80.520449	1076.00	0.00000	0.00	0.0	0.0	0.0	WILLIAM MCREYNOLDS	UNREPROD-UNREPROD
31238	BISSETT, A. & M.	OIL & GAS	UNREPROD	UNREPROD	1367.18677	-80.519346	1076.00	0.00000	3133.0	3133.0	3133.0	ELZA WHITLATCH 3	OIL & GAS-COMPLETED
31026	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPROD	UNREPROD	1280.87425	-80.521950	1076.00	0.00000	0.00	0.0	0.0	0.0	JOHN SOLE	UNREPROD-UNREPROD
73179	(N/A)	UNREPROD	UNREPROD	1097.51645	-80.524244	1076.00	0.00000	0.00	0.0	0.0	0.0	E. WHITELATE	UNREPROD-UNREPROD
30342	SOUTH PENN OIL (S. PENN NAT. GAS)	GAS	UNREPROD	UNREPROD	1290.72595	-80.510312	1076.00	0.00000	3266.0	3266.0	3266.0	MAHALA BRADLEY 1	GAS-INACTIVE COMPLETED

Horizontal	API Well Un	ENV/Status	InitialOp	InitialType	InitialDate	Lat	Long	Elev	MD	TVL	WellName	WellType	
4705102463	ENV/Operato	COMPLETED	SWN PROD	SWN PROD	38.73281300	-80.56835100	1055.00	0.00000	1076.00	0.00000	0.00000	YOCUM MSH 6H	OTHER-COMPLETED
4705102463	SOUTHWESTERN ENERGY	COMPLETED	SWN PROD	SWN PROD	38.73281300	-80.56835100	1055.00	0.00000	1076.00	0.00000	0.00000	YOCUM MSH 210H	OTHER-COMPLETED
4705102464	SOUTHWESTERN ENERGY	COMPLETED	SWN PROD	SWN PROD	38.73281300	-80.56835100	1054.00	0.00000	1075.00	0.00000	0.00000	YOCUM MSH 206H	OTHER-COMPLETED

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

09/22/2023

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.

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

09/22/2023

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
KY-31	40
Alsike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

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: _____

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.

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

Title: _____ Date: _____

Field Reviewed? () Yes () No

NOTE - OIL & GAS INSPECTOR SIGNED THE ATTACHED EXHIBIT

09/22/2023

4710305606



PREVAILING WIND

MIKE ROSS INC
52-03-0001-0032-0000

CONSOLIDATED GAS
TRANSMISSION CORP
52-03-0005-0008-0000

KOONTZ MICHAEL L
L/E KOONTZ RUTH L
52-03-0005-0010-0000

FRANKEL BARRY J &
ELIZABETH A
52-03-5-0011-0000-0000

RECEIVED
EXISTING RIGHT-OF-WAY
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

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



REFERENCES: UNITED STATES GEOLOGICAL SURVEY - LITTLETON
QUADRANGLE, WEST VIRGINIA, 7.5 MINUTE SERIES

SCALE: 1:300 PLOTTED: 7/27/2023 3:16 PM FILE: X:\OIL AND GAS\EDT\2020\20070-026 - ENERGY CYNIC (S-001221)\CADD (K DRIVE) - WATO CLIENT\DWG\ENERGY CYNIC_WW-9_EXHIBIT.DWG

09/22/2023
Digitally signed by Stephen
Mccoy
Date: 2023.08.09 07:37:15 -04'00'



EMERGENCY RESPONSE PLAN (ERP)

(SITE SAFETY AND ENVIRONMENTAL PLAN)

Energy Cynic Well Pad

Clay

Wetzel County, WV

Well: Energy Cynic 30H

Prepared By: Scott M. Held, CSP, Senior EHS Coordinator

Approved By: Scott M. Held, CSP, Senior EHS Coordinator

Created Date: 25-Jul-23



John Zavatchan
Project Specialist
EQT Production Company

Stephen Mccoy
Digitally signed by Stephen Mccoy
Date: 2023.08.09 07:32:24 -04'00'

Stephen McCoy
Oil and Gas Inspector
WVDEP

09/22/2023

Topo Quad: Littleton 7.5'

Scale: 1" = 1000'

County: Wetzel

Date: July 19, 2023 4710303606

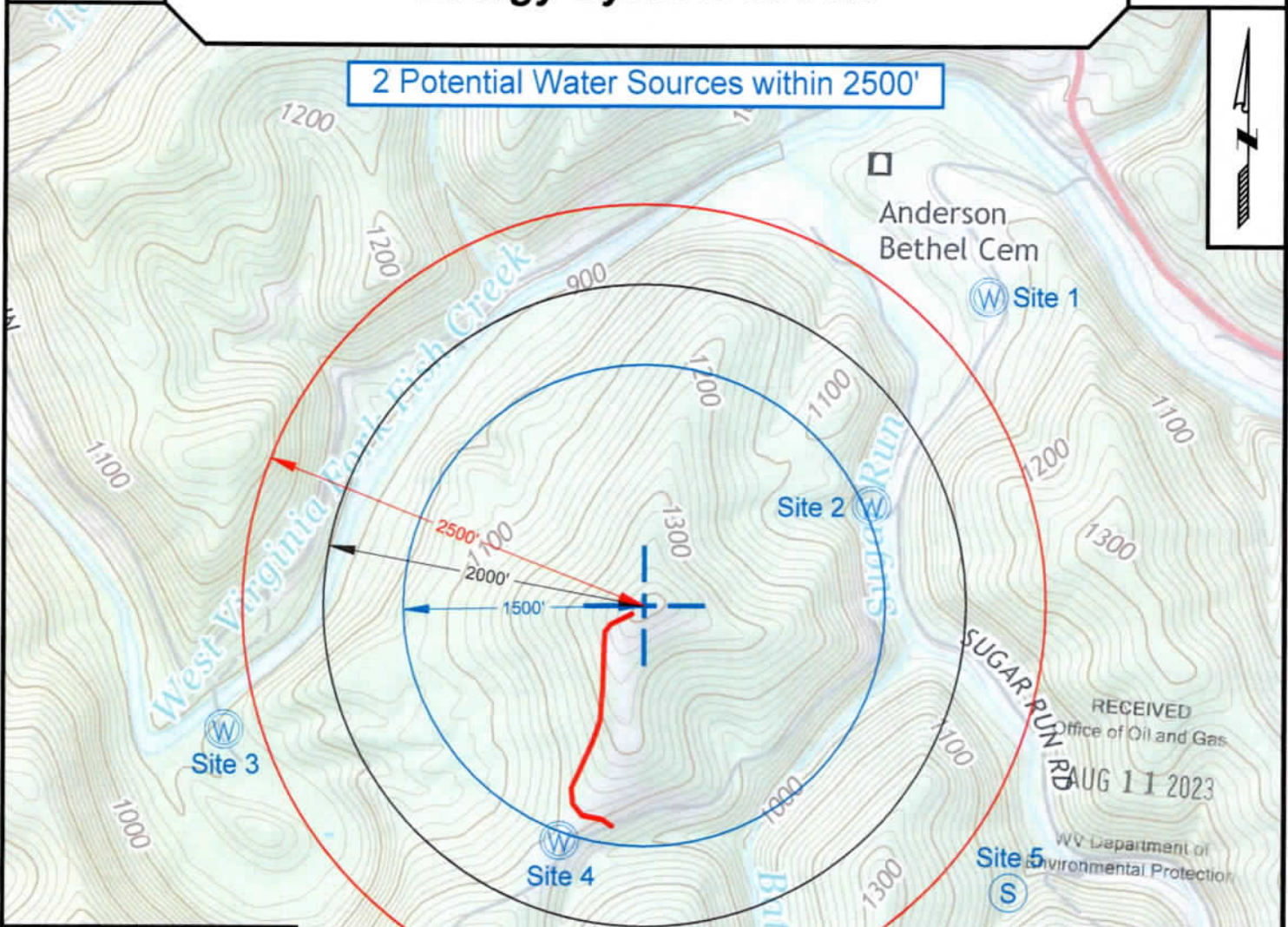
District: Clay

Project No: 59-34-C-22

Water

Energy Cynic Well Pad

2 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: 438,916.58

E: 1,706,811.27

WGS 84

LAT: 39.700491

LONG: -80.541815

ELEV: 1406



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

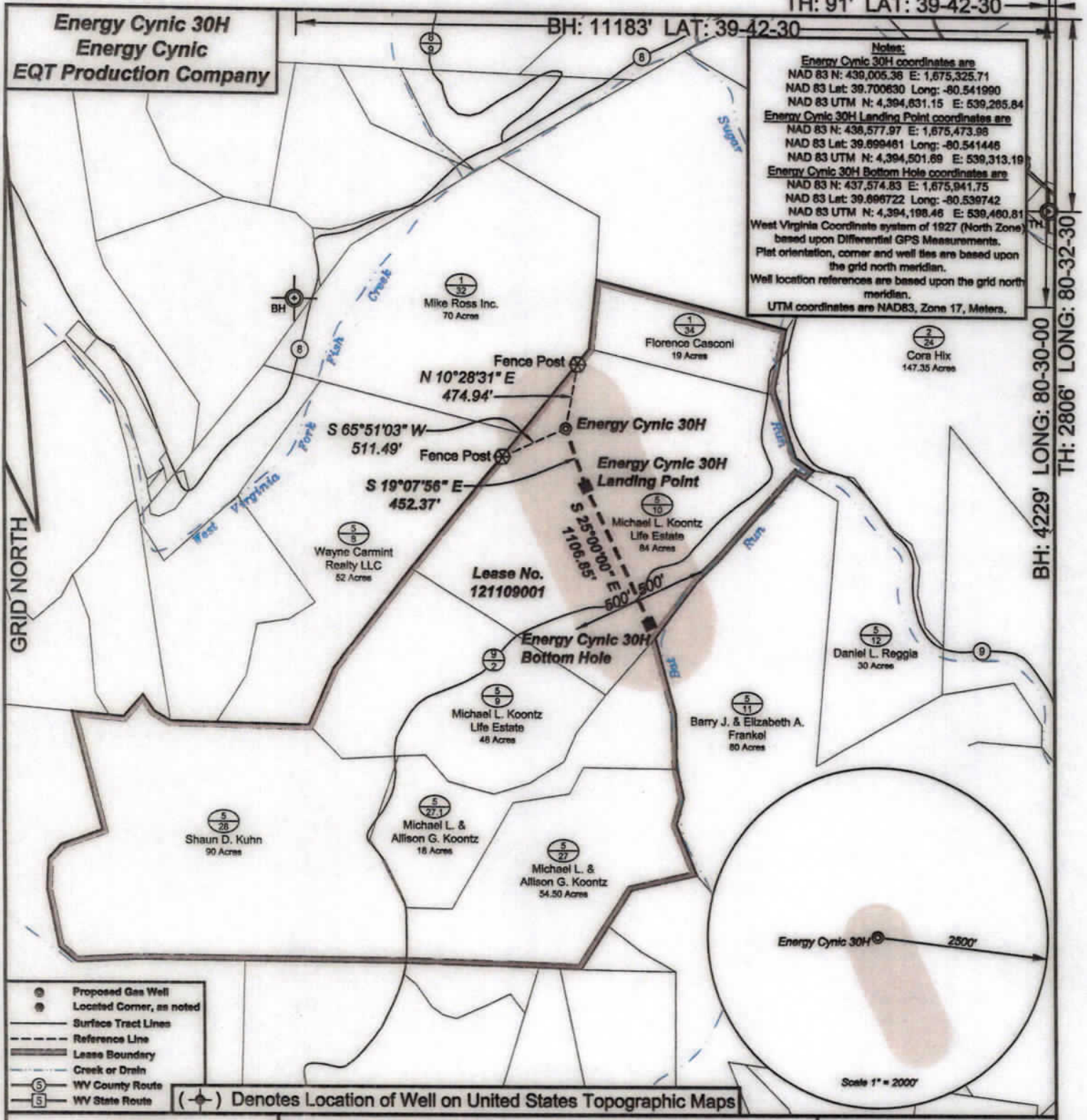
1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

400 Woodcliff Drive
 Canonsburg, PA 15317

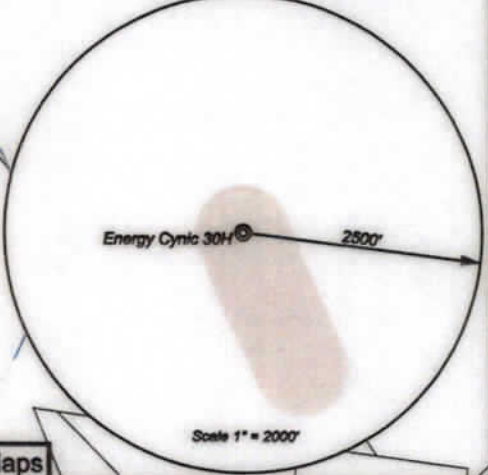
09/22/2023



Notes:
 Energy Cynic 30H coordinates are
 NAD 83 N: 439,005.36 E: 1,675,325.71
 NAD 83 Lat: 39.700630 Long: -80.541990
 NAD 83 UTM N: 4,394,631.15 E: 539,265.84
 Energy Cynic 30H Landing Point coordinates are
 NAD 83 N: 438,577.97 E: 1,675,473.98
 NAD 83 Lat: 39.699481 Long: -80.541446
 NAD 83 UTM N: 4,394,501.69 E: 539,313.19
 Energy Cynic 30H Bottom Hole coordinates are
 NAD 83 N: 437,574.83 E: 1,675,941.75
 NAD 83 Lat: 39.696722 Long: -80.539742
 NAD 83 UTM N: 4,394,198.46 E: 539,460.81
 West Virginia Coordinate system of 1927 (North Zone) based upon Differential GPS Measurements. Plat orientation, corner and well ties are based upon the grid north meridian. Well location references are based upon the grid north meridian. UTM coordinates are NAD83, Zone 17, Meters.

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

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



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

Ben R. Singleton
 P.S. 2092



SEAL

FILE NO: 59-22
 DRAWING NO: Energy Cynic 30H
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: August 04 20 23
 OPERATOR'S WELL NO.: Energy Cynic 30H
 API WELL NO
 47 - 103 - 03606
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Proposed 1368' WATERSHED: Bat Run of Sugar Run of West Virginia Fork Fish Creek QUADRANGLE: Littleton
 DISTRICT: Clay COUNTY: Wetzel
 SURFACE OWNER: Michael L. Koontz Life Estate ACREAGE: 84
 ROYALTY OWNER: Stone Hill Minerals Holdings, LLC, et al. LEASE NO: 121109001 ACREAGE: 339
 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: 7566'
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
 Canonsburg, PA 15317 Clarksburg, WV 26301

09/22/2023

**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

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company
 By: John Zavatchan
 Its: Project Specialist - Permitting

WW-6A1 attachment

Operator's Well No.

Energy Cynic 30H

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>121109001</u>	<u>Stone Hill Minerals Holdings, LLC, et al.</u> Stone Hill Minerals Holdings, LLC	339 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 185A/486

RECEIVED
Office of Oil and Gas
AUG 11 2009
WV Department of Environmental Protection

4710303606



4710303606

August 8, 2023

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

Re: Energy Cynic 30H Gas Well
Clay District, Wetzel County, WV

Dear Mr. Brewer,

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

Sincerely,

John Zavatchan
Project Specialist - Permitting

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

09/22/2023

4710303606

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

Date of Notice Certification: 08/09/2023

API No. 47- _____ -
Operator's Well No. 30H
Well Pad Name: Energy Cynic

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>539,265.842</u>
County:	<u>Wetzel</u>		Northing:	<u>4,394,631.147</u>
District:	<u>Clay</u>	Public Road Access:	<u>CR 9/2 (Robinson Ridge Road)</u>	
Quadrangle:	<u>Littleton</u>	Generally used farm name:	<u>Energy Cynic</u>	
Watershed:	<u>Bat Run of Sugar Run of West Virginia Fork Fish Creek</u>			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED
		RECEIVED Office of Oil and Gas AUG 11 2023 WV Department of 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.

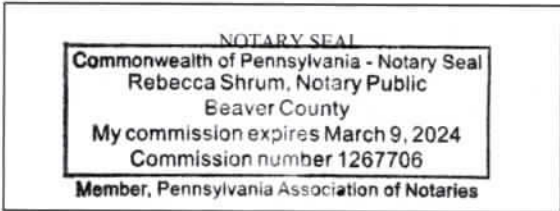
09/22/2023

4710303606

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>412-584-3132</u>	Email:	<u>jzavatchan@eqt.com</u>



Subscribed and sworn before me this 9th day of August, 2023.

Rebecca Shrum Notary Public

My Commission Expires March 9, 2024

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 8/9/2023 **Date Permit Application Filed:** 8/10/2023

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: _____
Address: _____

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

COAL OPERATOR
Name: _____
Address: _____

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

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

RECEIVED
Office of Oil and Gas
AUG 11 2023

WV Department of
Environmental Protection

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

Pursuant to W. Va. Code R. § 35-8-15.2.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.

RECEIVED
of Oil and Gas
AUG 11 2023

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

09/22/2023

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~~ **RE 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

Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

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.**

09/22/2023

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.

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

09/22/2023

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. 30H
Well Pad Name: Energy Cynic

4710303606

Notice is hereby given by:

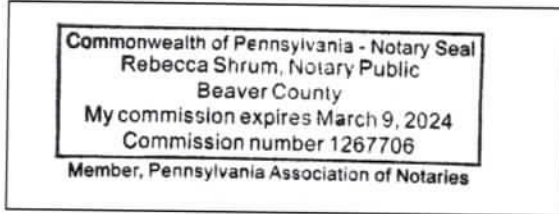
Well Operator: EQT Production Company
Telephone: 412-584-3132
Email: jzavatchan@eqt.com



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 August, 2023.
Rebecca Shrum Notary Public
My Commission Expires March 9, 2024

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

09/22/2023

4710303606

Energy Cynic Owner List

Surface Owners:

- Michael L. Koontz L/E Ruth L. Koontz
PO Box 199
Littleton, WV 26581
52-03-0005-0010
- Mike Ross Inc.
PO Box 219
Coalton, WV 26257
52-03-0001-0032

Surface Owners (all other disturbance):

- Wade Thomas Est.
354 Morton Ave.
Buckhannon, WV 26201
52-03-0001-0032

Coal Owners

- Michael L. Koontz L/E Ruth L. Koontz
PO Box 199
Littleton, WV 26581
- CONSOL RCPC
275 Technology Drive
Suite 101
Canonsburg, PA 15317

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

09/22/2023

Topo Quad: Littleton 7.5'

Scale: 1" = 1000'

County: Wetzel

Date: July 19, 2023 4710303606

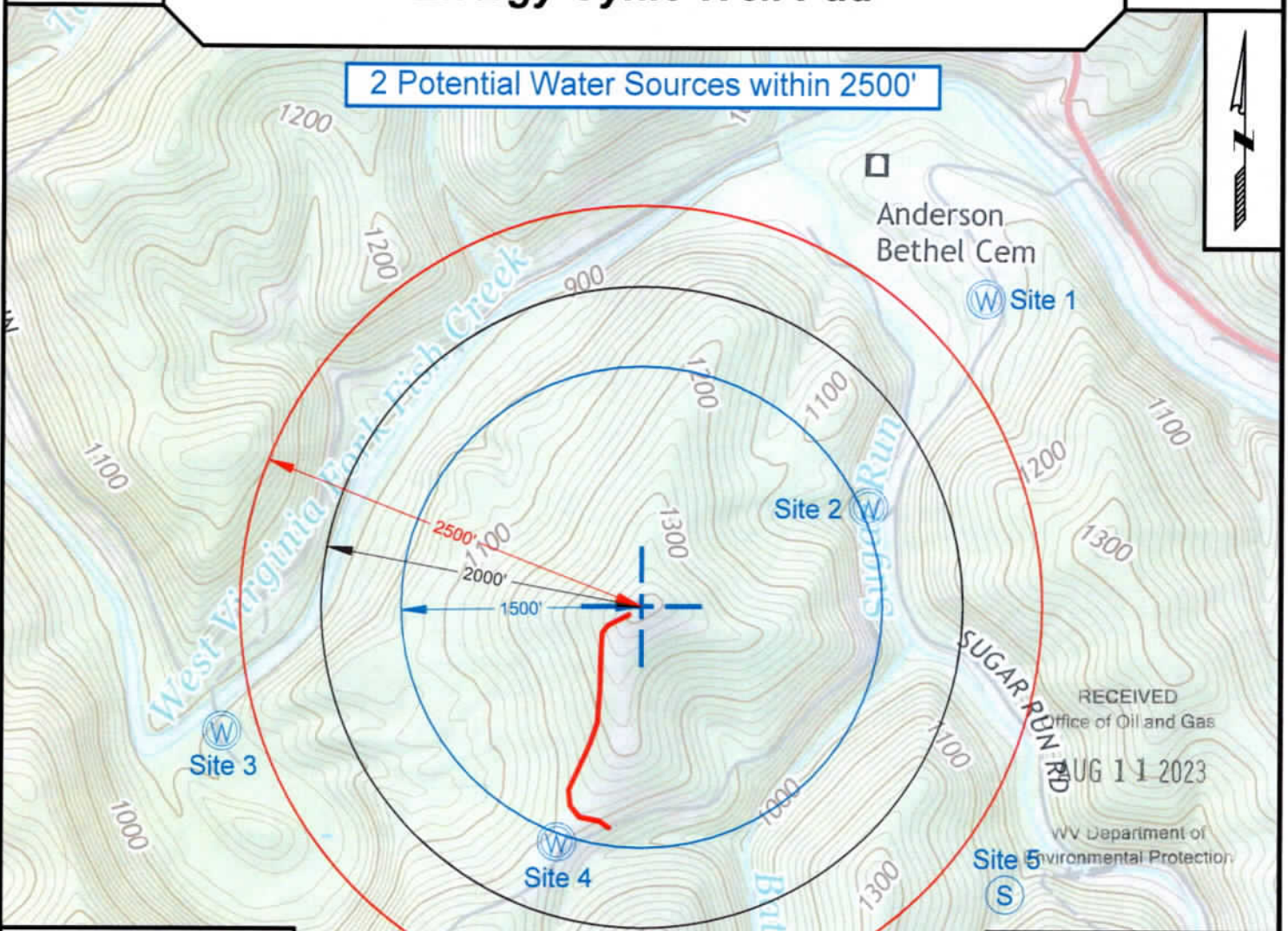
District: Clay

Project No: 59-34-C-22

Water

Energy Cynic Well Pad

2 Potential Water Sources within 2500'



Anderson Bethel Cem
Site 1

Site 2

Site 3

Site 4

Site 5

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of Environmental Protection

LEGEND

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

- Well
- Spring
- Pond
- Building

NAD 27, North Zone

N: 438,916.58

E: 1,706,811.27

WGS 84

LAT: 39.700491

LONG: -80.541815

ELEV: 1406



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

09/22/2023



Table 1 – Water Source Identification

EQT Well Pad Name: **Energy Cynic**

Submittal Date: **July 12, 2023**

EQT Well Number: _____

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

Site Number: **1** Distance from Gas Well (feet): **2875 ±**

Surface Owner / Occupant: **Larry Roberts**

Address: **368 Sugar Run Rd, Littleton, WV 26581** Phone #: **304-775-2986**

Field Located Date: **4-20-2023** Owner home during survey (yes/no): **Yes**

Coordinates: **39.705842, -80.534298** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **4-20-2023** 2nd: _____ Door Hanger Left: _____

Comments: **Letter mailed 2-27-2023. Mr. Roberts called 4-6-2023. Water Well in front yard to be tested. Has rental property next door with cistern not used for drinking water.**

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

Site Number: **2** Distance from Gas Well (feet): **1544 ±**

Surface Owner / Occupant: **Florence Casconi / Frank Klecka (son-in-law)**

Address: **HC 61 Box 16A, Littleton, WV 26581** Phone #: **304-775-1912**

Field Located Date: **4-20-2023** Owner home during survey (yes/no): **Yes**

Coordinates: **39.702263, -80.536827** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **4-20-2023** 2nd: _____ Door Hanger Left: _____

Comments: **Water Well. Letter mailed 2-27-2023. Well can't be seen but located by steps. Spoke to Frank Klecka, son-in-law of Mrs. Casconi.**

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

Site Number: **3** Distance from Gas Well (feet): **2726 ±**

Surface Owner / Occupant: **Wayne & Dena Carmint / Blaine & Carla Norris (residents)**

Address: **1401 Low Gap Run Rd., Littleton WV 26581** Phone #: **304-775-5120**

Field Located Date: **4-20-2023** Owner home during survey (yes/no): **Yes**

Coordinates: **39.698262, -80.551066** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **4-20-2023** 2nd: _____ Door Hanger Left: _____

Comments: **Water Well Letter mailed 2-27-2023. Dena Carmint called 4-6-2023. Says family members Blaine & Carla Norris live there. Must ford creek or walk swinging bridge to house. Dena's cell phone is 610-637-1582.**

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

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

4710303606

Site Number: 4 Distance from Gas Well (feet): 1552 ±
 Surface Owner / Occupant: Ruth Koontz
 Address: 4349 Robinson Ridge Road, Littleton, WV 26581 Phone #: 304-775-2344
 Field Located Date: 4-20-2023 Owner home during survey (yes/no): No
 Coordinates: 39.696462, -80.543615 (decimal degrees – NAD 83)
 Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: Yes
 Comments: Water Well. Letter mailed 2-27-2023. Field visit 4-20-2023. Mrs. Koontz called on 4-25-2023 - wants her water well tested. Well is close to back door.

<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): _____ ±
 Surface Owner / Occupant: Daniel Lee Reggia
 Address: 18641 Blue Violet Lane, Gaithersburg, MD 20879 Phone #: 240-380-4368
 Field Located Date: _____ Owner home during survey (yes/no): _____
 Coordinates: _____ (decimal degrees – NAD 83)
 Contact Attempts (Date): 1st: 2-27-2023 2nd: 4-27-2023 Door Hanger Left: _____
 Comments: Letter sent 2-27-2023. Mr. Reggia called 3-13-2023 and left message saying he has an undeveloped Spring on property, but doesn't live there - said to email him letting him know if he needs to sign letter and return it. Email was sent on 3-14-2023 to reggia@verizon.net. Unsure of exact location during field visit on 4-20-2023. Certified sent on 4-27-2023. No further contact.

<input 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)

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

09/22/2023

4710303606

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

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

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

Date of Notice: 07/20/2023 **Date Permit Application Filed:** 08/10/2023

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
Address: _____

Name: _____
Address: _____

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 539265.842
County: Wetzel Northing: 4394631.147
District: Clay Public Road Access: CR 9/2 (Robinson Ridge Rd.)
Quadrangle: Littleton Generally used farm name: Energy Cynic
Watershed: Bat Run of Sugar Run of West Virginia Fork Fish Creek

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 412-584-3132
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

Authorized Representative: John Zavatchan
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 412-584-3132
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

RECEIVED
Office of Oil and Gas
AUG 11 2023
WV Department of
Environmental Protection

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.

09/22/2023

Energy Cynic Surface Owners

Surface Owners (All Disturbance):

- Michael L. Koontz L/E Ruth L. Koontz
PO Box 199
Littleton, WV 26581
52-03-0005-0010

- Mike Ross inc.
PO Box 219
Coalton, WV 26257
52-03-0001-0032

- Wade Thomas Est.
354 Morton Ave.
Buckhannon, WV 26201
52-03-0001-0032

4710303606

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

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

Date of Notice: 08/09/2023 **Date Permit Application Filed:** 08/10/2023

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>539,265.842</u>
County: <u>Wetzel</u>		Northing: <u>4,394,631.147</u>
District: <u>Clay</u>	Public Road Access: <u>CR 9/2 (Robinson Ridge Road)</u>	
Quadrangle: <u>Littleton</u>	Generally used farm name: <u>Energy Cynic</u>	
Watershed: <u>Bat Run of Sugar Run of West Virginia Fork Fish Creek</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>412-584-3132</u>	<u>Canonsburg, PA 15317</u>
Email: <u>jzavatchan@eqt.com</u>	Facsimile: <u>412-395-2974</u>

Oil and Gas Privacy Notice:

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

09/22/2023

4710303606

Energy Cynic Surface Owners

Surface Owners (All Disturbance):

- Michael L. Koontz L/E Ruth L. Koontz
PO Box 199
Littleton, WV 26581
52-03-0005-0010
- Mike Ross Inc.
PO Box 219
Coalton, WV 26257
52-03-0001-0032
- Wade Thomas Est.
354 Morton Ave.
Buckhannon, WV 26201
52-03-0001-0032

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

09/22/2023



4710303606

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

July 20, 2023

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 Energy Cynic Pad, Wetzel County
Energy Cynic 30H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2023-0187 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 9/2SLS MP 1.87.

This operator is in compliance with §22-6A-20 of the WV Code. The 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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

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

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

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

4710303606

**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 ((NH ₄)Cl)	12125-02-9
Biocide	Glutaraldehyde	111-30-8
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
Scale Control	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1
	Non-hazardous substances	Proprietary
Acid Chelating Agent	Ferriplex 66	
	Citric Acid	77-92-9
	Acetic Acid	64-19-7
Corrosion Inhibitor	PLEXHIB 166	
	Methanol	67-56-1
	Alcohols, C14-15, ethoxylated	68951-67-7

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

09/22/2023

WW-6A7
(6-12)

OPERATOR: EQT Production Company WELL NO: 30H

PAD NAME: Energy Cynic

REVIEWED BY: John Zavatchan

SIGNATURE: 

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

RECEIVED
Office of Oil and Gas

AUG 11 2023

WV Department of
Environmental Protection

Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
 DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
 DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
 DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions

09/22/2023

ENERGY CYNIC WELL LOCATIONS								
ASSIGNED WELL ID	LATITUDE	LONGITUDE	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD27)	EASTING (NAD27)	NORTHING (NAD83) (UTM METERS)	EASTING (NAD83) (UTM METERS)
301	39° 42' 42.17"	80° 52' 31.17"	43905.547	107535.726	43897.327	107536.283	43945.347	107533.842

EROSION & SEDIMENT CONTROL PLAN

ENERGY CYNIC WELL SITE WETZEL COUNTY, WEST VIRGINIA FOR EQT PRODUCTION COMPANY



LANDOWNER DISTURBANCE BREAKDOWN				
LANDOWNER	DISTURBANCE FROM ACCESS ROAD (ACRES)	DISTURBANCE FROM WELLS PAD (ACRES)	DISTURBANCE FROM STOCKPILE (ACRES)	TOTAL (ACRES)
WV OOH	0.06	1.00	0.00	0.06
KOOKIZ MICHAEL L LIE KOOKIZ SUTN L 12 83 5 89 10 0 000 0000	0.00	0.00	0.01	0.01
WV 8100 8100 12 20 1 81 02 0 000 0000	0.00	0.00	0.00	0.00
TOTAL	0.06	0.79	0.01	0.71



REFERENCES: UNITED STATES GEOLOGICAL SURVEY - LITTLETON QUADRANGLE, WEST VIRGINIA, 7.5 MINUTE SERIES



PROJECT NO. 20070-026
JULY 2023

DIEFFENBAUCH & HRITZ, LLC



INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	OVERALL SITE PLAN
5-8	PROPOSED SITE PLAN
7	OVERALL REVEGETATION SITE PLAN
8	OVERALL SITE RESTORATION PLAN
9	SOILS PLAN
10	ACCESS ROAD PROFILE
11-16	ACCESS ROAD CROSS SECTIONS
17-230	ES&S TYPICAL SECTIONS
24-29	ES&S DETAILS

PROJECT NO. 20070-026
 DATE: 7/1/2023
 TMR: JAMM
 BLD: CDR/BLD
 HELD APPROVAL: JULY 2023
 20070-026 PROJECT NO.
 DIEFFENBAUCH & HRITZ, LLC
 1700 CHAMBERLAIN BLVD, SUITE 200
 CHARLOTTE, NC 28203
 P: 704.366.2525 F: 704.366.2529
 E: EQT@DIEFFENBAUCH.COM
 EQT PRODUCTION COMPANY
 ENERGY CYNIC WELL SITE
 WETZEL COUNTY, WV
 TITLE SHEET
 1

