



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

Friday, January 16, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
2200 ENERGY DRIVE

CANONSBURG , PA 15317

Re: Permit Modification Approval for Energy Cynic 6H
47-103-03750-00-00

Lateral Extension

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in black ink that reads "H. Jason Harmon".

H. Jason Harmon
Acting Chief

Operator's Well Number: Energy Cynic 6H
Farm Name: Ruth Koontz (LE) & Michael Koontz (Remainderman)
U.S. WELL NUMBER: 47-103-03750-00-00
Horizontal 6A New Drill
Date Modification Issued: 1/16/2026

Promoting a healthy environment.

01/23/2026

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: 6H Well Pad Name: Energy Cynic

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

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

5) Well Type (a) Gas _____ Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,576', 50', 2,620 psi

8) Proposed Total Vertical Depth: 7576'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,912'

11) Proposed Horizontal Leg Length: 7580'

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, 103-00344

14) Approximate Saltwater Depths: 2001, 2121

15) Approximate Coal Seam Depths: 879'-883', 1,097'-1,101', 1,205'-1,211'

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 X

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

*Ch # 609955
250000*

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Environmental Protection

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	85.6	53	53	45 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1261	1261	1125 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2689	2689	1025 ft ³ / CTS
Production	5 1/2	New	P-110	20	15912	15912	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 - 12 1/4	0.352	3520	2816	Class A/H/L	1.04 - 1.20
Production	5 1/2	8 3/4 - 8 1/2	0.361	14360	11488	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill 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 acres

22) Area to be disturbed for well pad only, less access road (acres): 15.44 acres

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

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

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.

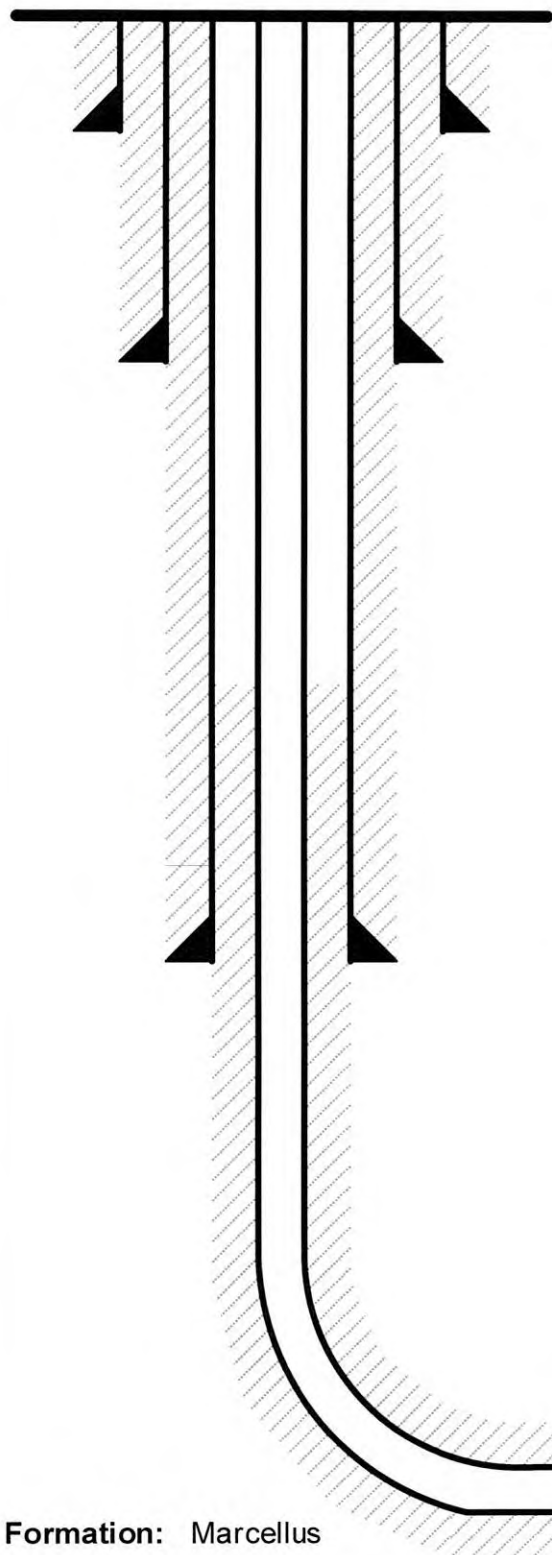
Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

EQT Production**Wellbore Diagram**

Well: Energy Cynic 6H
Pad: Energy Cynic
Elevation: 1368' GL 1381' KB

County: Wetzel
State: West Virginia



Conductor @ 53'

26", 85.6#, A252, cement to surface w/ Class A/L

Surface @ 1,261'

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

Intermediate @ 2,689'

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

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Production @ 15,912' MD / 7,576' TVD

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

Formation: Marcellus

Stephen
Mccoy

Digitally signed by
Stephen Mccoy
Date: 2025.12.17
08:32:24 -05'00'

NOT TO SCALE
01/23/2026

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Energy Cynic

Drilling Objectives:

County:

Quad:

Elevation:

Recommended Azimuth

Marcellus

Wetzel

Littleton

1381 KB

156 Degrees

S-001221

1368 GL

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments
Fresh Water Zone	1	278		FW Show from Permit App of 4710302265
Waynesburg	879	883 Coal	Not Mined	
Sewickley	1097	1101 Coal	Not Mined	
Pittsburgh	1205	1211 Coal	Not Mined	
Big Lime	2361	2477 Limestone		SW @ 2001,2121, ,
Big Injun	2503	2639 Sandstone		
Int. csg pt	2689			
Weir	2756	5120 Sandstone		Not near storage
Gantz	3086	3454 Silty Sand		
Bayard	3454	3964 Silty Sand		
Speechley	3874	4040 Silty Sand		Base of Offset Well Production at 3318' TVD
Alexander	5915	6373 Silty Sand		
Elks	6373	7107 Gray Shales and Silts		
Sonyea	7107	7280 Gray shale		
Middlesex	7280	7320 Shale		
Genesee	7320	7399 Gray shale interbedded		
Geneseo	7399	7423 Black Shale		
Tully	7423	7446 Limestone		
Hamilton	7446	7552 Gray shale with some		
Marcellus	7552	7601 Black Shale		
Purcell	7569	7571 Limestone		
-Lateral Zone	7576			MRC Target
Cherry Valley	7583	7585 Limestone		
Onondaga	7601	Limestone		

Top RR

Base RR

No Red Rock Listed in Offsets

Base of Red Rock

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

	CSG OD	13 3/8	Casing Depth KB	Casing Depth GLE	
<u>Fresh Water/Coal</u>	CSG OD	13 3/8	1261	1248	50' below Pittsburgh Coal
<u>Intermediate 1:</u>	CSG OD	9 5/8	2689	2676	50' below Big Injun Base
<u>Production:</u>	CSG OD	5 1/2	@ TD	@ TD	@ TD

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

December 17, 2025

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Energy Cynic pad: 2H, 4H, 6H, 8H, 10H, 12H, 14H & 16H.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

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

EQT will recommend to these operators at a minimum to:

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

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

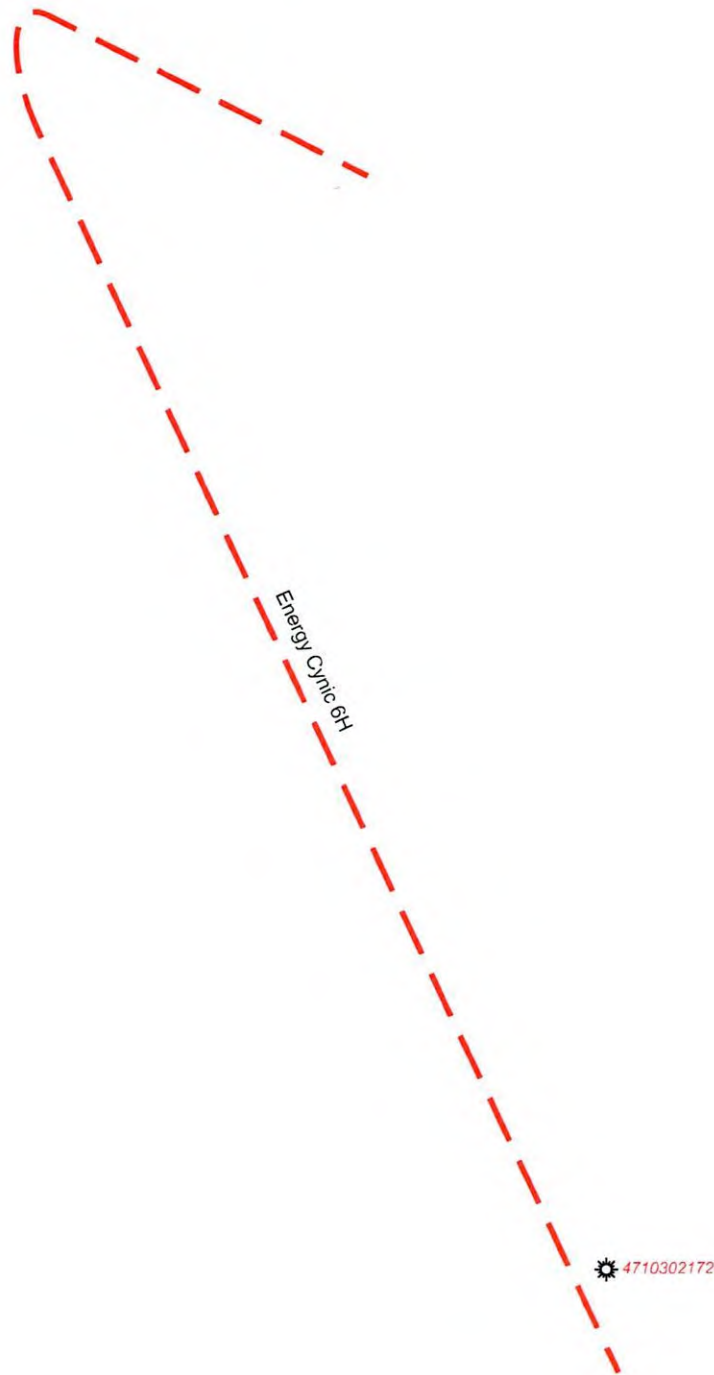
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EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

Energy Cynic

Vertical Offsets and
Foreign Laterals
within 500 Feet

Legend

Well Lateral_FM

Formation

— Geneseo

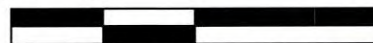
— Marcellus

— Utica



Energy Cynic_Offset_Wells

1000 500 0 1000



Scale: 1 Inch = 1000 Feet

Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.

1 Inch = 116,000 Feet



01/23/2026

UWI	ABAND_DATE	CURR_OPER	ELEV_RF_CD	FIELD_NAME	FNL_CLASS	LATITUDE	LONGITUDE	OPER_NAME	PROJ_TD	SPUD_DATE	ELEVATION	TOT_DEPTH
0182400000	NA	CNX Gas Company LLC	NA	NA	NA	39.693206	-80.551308	NA	NA	NA	NA	NA
0165200000	NA	Noumenon Corporation	Unknown	UNNAMED	Unclassified	39.691740	-80.536779	Noumenon Corporation	NA	2008	1250.00	NA
0182100000	NA	CNX Gas Company LLC	NA	NA	NA	39.698446	-80.543488	NA	NA	NA	NA	NA
0182200000	12/15/2014	CNX Gas Company LLC	ground	Littltn-Sgr Rn	Development Well	39.694599	-80.541563	CNX Gas Company LLC	2095.00	12/8/2014	1343.00	2095.00
0182300000	12/19/2014	CNX Gas Company LLC	ground	Littltn-Sgr Rn	Development Well	39.693852	-80.545880	CNX Gas Company LLC	2125.00	12/16/2014	1370.00	2125.00
0147800000	NA	Creston Oil Corporation	ground	Littltn-Sgr Rn	Development Well	39.696090	-80.533590	TNG Inc.	NA	NA	1040.00	NA
0182500000	NA	CNX Gas Company LLC	NA	NA	NA	39.690693	-80.547154	NA	NA	NA	NA	NA
0034400000	NA	Operator Unknown	Ground	Knob Fork	Unsuccessful	39.690045	-80.551410	Oper in Min. Owner fld(Orphan We	2450.00	8/16/1948	1325.00	2450.00
0226500000	NA	Diversified Production LLC	Ground	Littltn-Sgr Rn	Development Well	39.703486	-80.531716	DAC, Inc	3607.00	8/20/2007	1253.00	3607.00
0147900000	NA	Creston Oil Corporation	Ground	Littltn-Sgr Rn	Development Well	39.695800	-80.530774	TNG, Inc	NA	2002	1180	NA

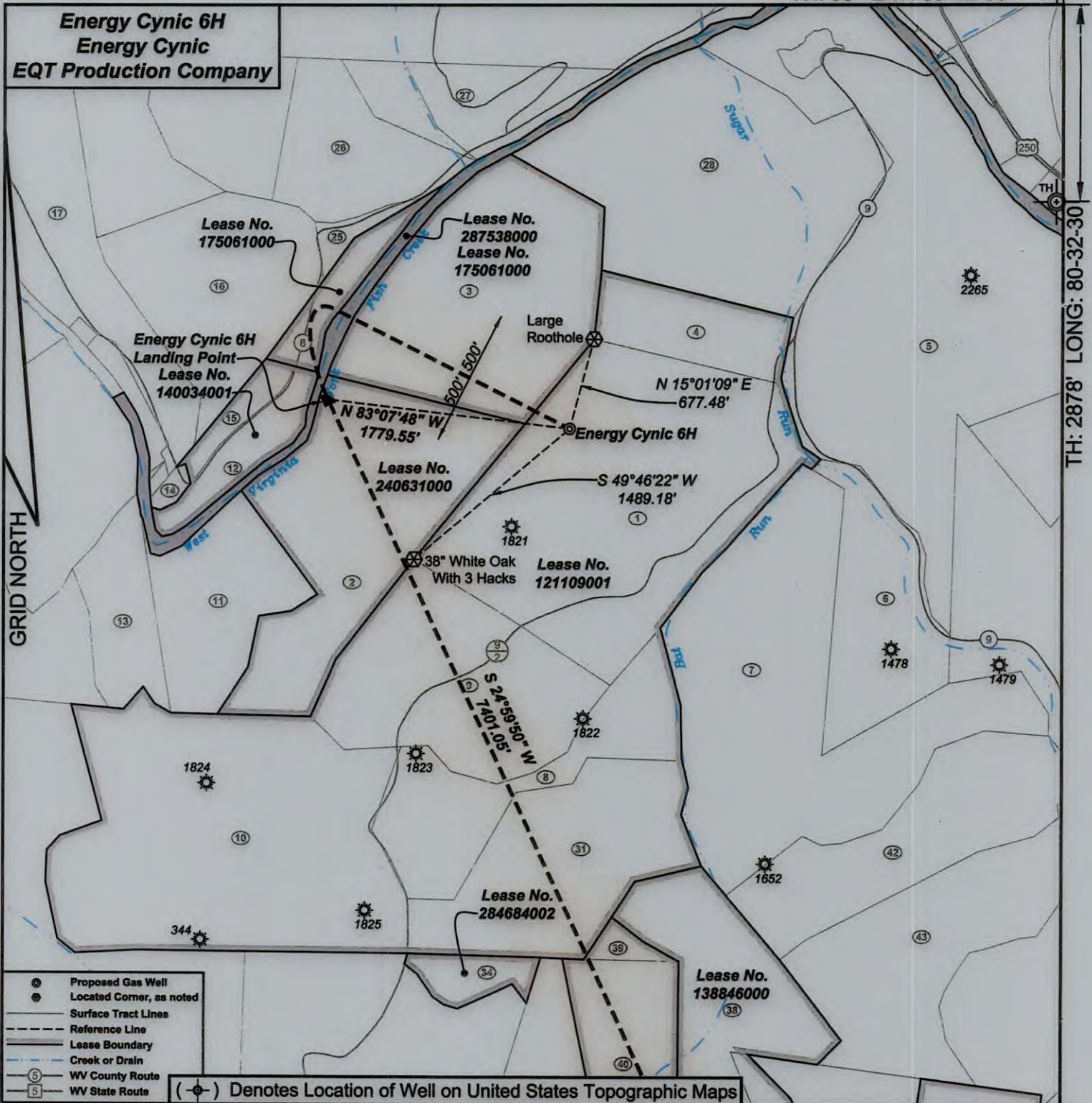
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TH: 95' LAT: 39-42-30

Energy Cynic 6H
Energy Cynic
EQT Production Company

GRID NORTH

TH: 2878' LONG: 80-32-30



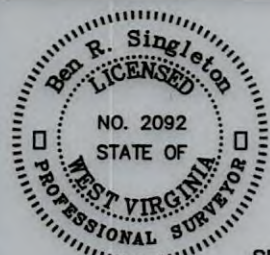
- ⊙ Proposed Gas Well
- ⊙ Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- Lease Boundary
- Creek or Drain
- ⑤ WV County Route
- ⑤ WV State Route

(⊙) 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 6H

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY:
1:2500PROVEN SOURCE OF ELEVATION:
NGS CORS Station

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



DATE: December 16 20 25

OPERATOR'S WELL NO.: Energy Cynic 6H

API WELL NO

47 - 103 - 03750
 STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1368' WATERSHED Bat Run of Sugar Run of West Virginia Fork Fish Creek QUADRANGLE: Littleton

DISTRICT: Clay COUNTY: Wetzel

SURFACE OWNER: Ruth Koontz, Life Estate & Michael Koontz, Remainderman 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: 7576'

WELL OPERATOR: EQT Production Company

ADDRESS: 2200 Energy Drive

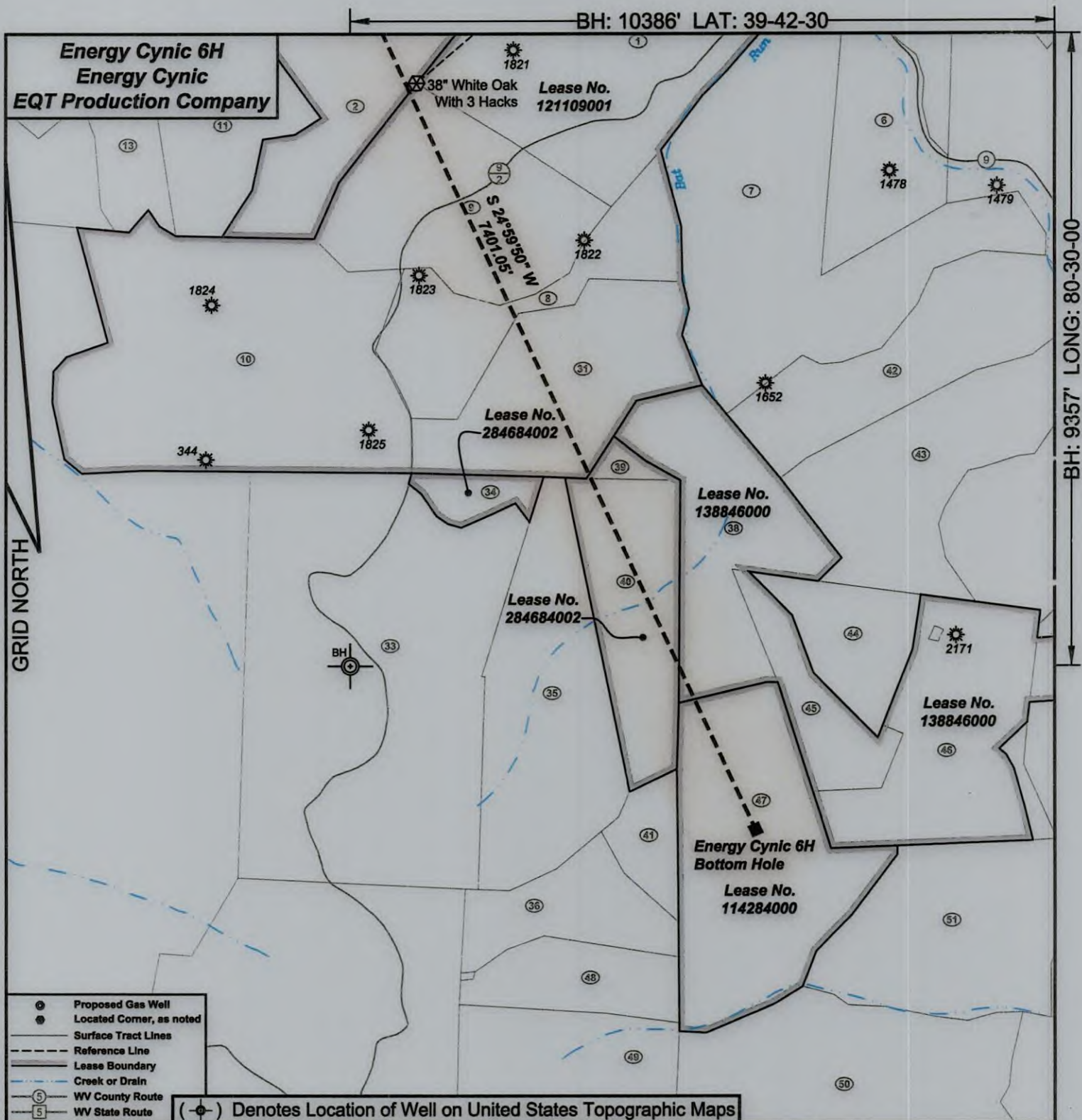
Canonsburg, PA 15317

DESIGNATED AGENT: Joseph C. Mallow

ADDRESS: 427 Midstate Drive

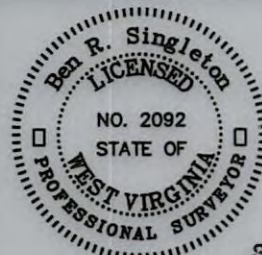
Clarksburg, WV 26301

01/23/2026



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.

P.S. 2092



SEAL

FILE NO: 59-22

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SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY:
1:2500

PROVEN SOURCE OF ELEVATION:
NGS CORS Station

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



DATE: December 16 20 25

OPERATOR'S WELL NO.: Energy Cynic 6H

API WELL NO

47 - 103 - 03750

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL

(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

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DISTRICT: Clay COUNTY: Wetzel

SURFACE OWNER: Ruth Koontz, Life Estate & Michael Koontz, Remainderman

ACREAGE: 84

ROYALTY OWNER: Stone Hill Minerals Holdings, LLC, et al.

LEASE NO: 121109001

ACREAGE: 330

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: 7576'

WELL OPERATOR: EQT Production Company

DESIGNATED AGENT: Joseph C. Mallow

ADDRESS: 2200 Energy Drive

ADDRESS: 427 Midstate Drive

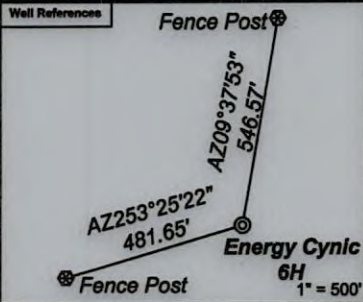
Canonsburg, PA 15317

Clarksburg, WV 26301

01/23/2026

Energy Cynic 6H
Energy Cynic
EQT Production Company

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	5	10	Wetzel	Qay	Michael L. Koontz Life Estate	64
2	5	8	Wetzel	Qay	Wayne Carmint Realty LLC	52
3	1	32	Wetzel	Qay	Thomas Wade, Est.	50
4	1	34	Wetzel	Qay	Florence Casconl	19
5	2	24	Wetzel	Qay	Cora Hix	147.35
6	5	12	Wetzel	Qay	Daniel L. Reggia	30
7	5	11	Wetzel	Qay	Barry J. & Elizabeth A. Frankel	80
8	5	27.1	Wetzel	Qay	Shaun D. Kuhn	18
9	5	9	Wetzel	Qay	Michael L. Koontz Life Estate	48
10	5	28	Wetzel	Qay	Michael L. & Allison G. Koontz	90
11	5	7	Wetzel	Qay	Wayne W. & Dena P. Carmint	24.5
12	5	6	Wetzel	Qay	Wayne Carmint Realty LLC	7
13	5	3	Wetzel	Qay	Liberty Holding Company	16.39
14	5	5	Wetzel	Qay	Katherine S. Wharton	Lot
15	1	30	Wetzel	Qay	Wayne Carmint Realty LLC	3.67
16	1	29	Wetzel	Qay	Wayne Carmint Realty LLC	41.8
17	1	23	Wetzel	Qay	S&R Investments	107.27
25	1	31	Wetzel	Qay	Wayne Carmint Realty LLC	2
26	1	20	Wetzel	Qay	Wayne Carmint Realty LLC	21.8
27	1	19	Wetzel	Qay	Wayne Carmint Realty LLC	17.5
28	1	33	Wetzel	Qay	Larry D. Roberts	70.5
31	5	27	Wetzel	Qay	Michael L. & Allison G. Koontz	54.5
33	5	25	Wetzel	Qay	Clinton D. & Erin K. Blosser	124.7
34	5	26	Wetzel	Qay	Millie A. & Edward W. Trevino	6.5
35	5	24	Wetzel	Qay	Millie A. & Edward W. Trevino	48.25
36	5	36	Wetzel	Qay	Dallison Lumber Inc.	21
38	5	21	Wetzel	Qay	EQT Gathering LLC	35
39	5	22	Wetzel	Qay	Millie A. & Edward W. Trevino	2.75
40	5	23	Wetzel	Qay	Millie A. & Edward W. Trevino	33
41	5	37	Wetzel	Qay	Michael Koontz	11
42	5	20	Wetzel	Qay	Barry J. & Elizabeth A. Frankel	52
43	5	19	Wetzel	Qay	Barry J. & Elizabeth A. Frankel	43.46
44	5	39	Wetzel	Qay	Barry J. & Elizabeth A. Frankel	17.5
45	5	21	Wetzel	Qay	EQT Gathering LLC	18.51
46	5	41	Wetzel	Qay	EQT Gathering LLC	44.2
47	5	38	Wetzel	Qay	Michael L. & Allison G. Koontz	64
48	5	35	Wetzel	Qay	Joann Sarap, et al.	21
49	6	25.1	Wetzel	Qay	Michael Koontz	40
50	6	4	Wetzel	Qay	Susan J. Minor	97
51	5	54	Wetzel	Qay	Raymond V. & Lauren E. Knobbs	47.25



Notes:
Energy Cynic 6H coordinates are
NAD 27 N: 438,895.72 E: 1,706,757.500
NAD 27 Lat: 39.700350 Long: -80.542201
NAD 83 UTM N: 4,394,609.24 E: 539,264.65
Energy Cynic 6H Landing Point coordinates are
NAD 27 N: 439,108.63 E: 1,704,990.76
NAD 27 Lat: 39.700878 Long: -80.548489
NAD 83 UTM N: 4,394,665.09 E: 538,725.31
Energy Cynic 6H Bottom Hole coordinates are
NAD 27 N: 432,401.70 E: 1,708,118.45
NAD 27 Lat: 39.682565 Long: -80.537099
NAD 83 UTM N: 4,392,637.69 E: 539,712.26
West Virginia Coordinate system of 1C33 (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.

Energy Cynic
Energy Cynic 16H ©
Energy Cynic 14H ©
Energy Cynic 12H ©
Energy Cynic 10H ©
Energy Cynic 8H ©
Energy Cynic 6H ©
Energy Cynic 4H ©
Energy Cynic 2H ©

Lease No.	Owner	Acres
121109001	Stone Hill Minerals Holdings, LLC, et al.	339
175061000	OXY USA Inc., et al.	70.00 of 31,151.501
287538000	West Virginia Division of Natural Resources	38.1877
140034001	William Roger Phillips, et al.	10.67
240631000	Delorse A. Homer	52.25
284684002	Millie A. Howard Trevino	42.238
138846000	AMP V, LP, et al.	101.46
114284000	Michael L. Koontz, et al.	64



**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

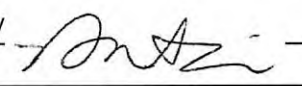
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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

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

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

Well Operator: EQT Production Company
By: Branden Weimer 
Its: Regional Manager - Permitting

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
<u>175061000</u>	<u>OXY USA Inc., et al.</u> BRC Appalachian Minerals I LLC BRC Appalachian Minerals I, LLC BRC Minerals LP BRC Working Interest Company, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. SWN Exchange Titleholder, LLC SWN Production Company, LLC Statoil USA Onshore Properties, Inc. Antero Exchange Properties, LLC Antero Resources Corporation	70.00 ac and 38.25 ac of 31,151.581 ac	BRC Working Interest Company LLC BRC Working Interest Company, LLC Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC SWN Production Company, LLC Antero Exchange Properties, LLC Antero Exchange Properties, LLC Antero Resources Corporation EQT Production Company	*at least 1/8th per WV Code 22-6-8"	OG 102A/505 OG 103A/320 OG 103A/470 OG 120A/109 OG 157A/540 OG 158A/801 Corp. Book 13/296 OG 177A/533 OG 177A/738 Corp. Book 13/311 OG 269A/533
<u>287538000</u>	<u>West Virginia Division of Natural Resources</u> West Virginia Division of Natural Resources	38.187 ac	EQT Production Company	*at least 1/8th per WV Code 22-6-8"	OG 424A/155
<u>140034001</u>	<u>William Roger Phillips, et al</u> Priscilla Faith Phillips TH Exploration, LLC TH Exploration, LLC	10.67 ac	TH Exploration, LLC EQT TGH Exploration, LLC EQT TGH Exploration, LLC	*at least 1/8th per WV Code 22-6-8"	OG 211A/886 MB 153/704 MB 154/899
<u>240631000</u>	<u>Delorse A. Horner</u> Delorse A. Horner, a widow TH Exploration, LLC TH Exploration, LLC	52.25 ac	TH Exploration, LLC. EQT TGH Exploration, LLC EQT TGH Exploration, LLC	*at least 1/8th per WV Code 22-6-8"	OG 285A/67 MB 153/704 MB 154/899
<u>284684002</u>	<u>Millie A. Howard Trevino</u> Millie A. Howard Trevino, et ux	42.238 ac	EQT Production Company	*at least 1/8th per WV Code 22-6-8"	OG 415A/181
<u>138846000</u>	<u>AMP V, LP, et al</u> Carl B. Marshall, et ux Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc.	101.46 ac	Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc. EQT Production Company	*at least 1/8th per WV Code 22-6-8"	OG 84A/383 OG 153A/640 OG 175A/707
<u>114284000</u>	<u>Michael L. Koontz, et al</u> Michael Koontz, et ux Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc.	64.00 ac	Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc. EQT Production Company	*at least 1/8th per WV Code 22-6-8"	OG 83A/56 OG 153A/640 OG 175A/707

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EQT Production Company
EQT CHAP LLC
EQT Aurora LLC
EQT TGHL Exploration LLC
625 Liberty Avenue
Suite 1700
Pittsburgh, PA 15222
Attn: Greg Godbey

Re: Leasehold Commitment Agreement

Energy Cynic South 1 – 2Units
Energy Cynic 2H, 4H, and 6H
Wetzel County, West Virginia

Hallibu North Unit
Hallibu 3H
Wetzel County, West Virginia

Dear Greg:

This letter (this "**Leasehold Commitment Agreement**") shall serve as a formal agreement between EQT Production Company, a Pennsylvania company with an address of 2200 Energy Drive, Canonsburg, PA 15317 ("EQT") and Expand Appalachia LLC, an Oklahoma limited liability company, a subsidiary of Expand Energy Corporation, sole manager, with an address of 10000 Energy Drive, Spring, Texas 77389 ("EXE"), Equinor USA Onshore Properties Inc., a Delaware corporation, whose address is 2107 City West Blvd, Houston, Texas 77042 ("EQNR") (EXE and EQNR are collectively referred to as "EXE/EQNR") regarding certain tracts of land and leases in Wetzel County, West Virginia, as described in the attached Exhibit "A", wherein EXE/EQNR may own a leasehold or fee interest in the oil and gas rights (the "**Subject Tracts**"). Intending to be legally bound hereby, the parties agree as follows:

On September 1, 2025, SWN Production Company, LLC merged with and into Expand Appalachia LLC, the surviving entity; and EXE/EQNR and EQT executed an Acreage Trade Agreement on June 27, 2025 ("Trade Agreement") with respect to certain tracts in Marshall and Wetzel Counties, West Virginia, covering the leasehold and fee interests owned by each company, and it has come to EQT's attention that the Subject Tracts, which EQT and EXE/EQNR included in said Trade Agreement, are located within EQT's Energy Cynic South 1-2 Units and Hallibu North Unit (the "**Units**"). EQT plans to drill the above described wells (the "**Wells**") in these Units and the wellbore laterals for such Wells may reach the Subject Tracts prior to EXE/EQNR and EQT closing the aforementioned Trade Agreement. EQT intends to drill the Wells to the Marcellus Formation. As used herein, "**Marcellus Formation**" means all depths and formations from 500' above the top of the Tully formation as seen at 6943' MD in the log for the BIG57H1 well located in Wetzel County, WV (API# 4710302414) down to 200' below the top of the Onondaga formation as seen in the aforementioned well log at a depth of 7117' MD.

Subject to the terms and conditions of this Leasehold Commitment Agreement, EXE/EQNR consents to and grants EQT all of EXE/EQNR's rights to make regulatory permit applications and, upon receipt of all necessary permits and governmental approvals, to proceed to develop such Oil and Gas Leases and Fee Interests and extract, produce and market the Hydrocarbons therefrom.

As noted above, EXE/EQNR and EQT executed a Trade Agreement, and the parties included the Subject Tracts among those interests to be assigned or leased by EXE/EQNR to EQT. Within ten days following the earliest to occur (on a Subject Tract-by-Subject Tract basis) of the following (as applicable, the "**Conveyance Date**"): (a) the date that a Subject Tract is fully and finally excluded from the assignment or lease to occur pursuant to the Trade Agreement;

Expand Energy Corporation

10000 Energy Drive / Spring, TX 77389

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or (b) the date that the Trade Agreement is terminated in accordance with its express terms, the following items in clauses (1) and (2) below shall occur (each being deemed to occur simultaneously and each being a condition to the other). For clarity, those Subject Tracts that have not been assigned or leased to EQT pursuant to a Trade Agreement on or before the applicable Conveyance Date are, collectively, the "**EXE/EQNR Remaining Tracts**".

- (1) EQT and EXE/EQNR shall execute, acknowledge, and deliver to one another (i) an assignment, bill of sale, and conveyance pursuant to which EXE/EQNR will assign to EQT all of EXE/EQNR's right, title, and interest in and to the EXE/EQNR Remaining Tracts to which it owns leasehold, limited to the Marcellus Formation, and or (ii) an oil and gas lease pursuant to which EXE/EQNR will lease to EQT all of EXE/EQNR's right, title, and interest in and to the EXE/EQNR Remaining Tracts to which it owns fee interests, limited to the Marcellus Formation.
- (2) EQT shall pay to EXE/EQNR, by wire transfer of immediately available funds to an account designated in writing by EXE/EQNR, an amount equal to (y) the sum of the net acres for the EXE/EQNR Remaining Tracts (which shall be equal to the number set forth in Exhibit "A" under the column heading "Lease Net Acres" for each such EXE/EQNR Remaining Tract), *multiplied by* (z) \$10,000.00.

EQT shall be fully responsible for and shall release, defend, indemnify and hold EXE/EQNR harmless from and against any and all losses, expenses, damages, injuries, claims or obligations and liabilities (including attorneys' fees) arising from or relating to EQT's activities and operations under this Leasehold Commitment Agreement.

This Leasehold Commitment Agreement is governed by the laws of West Virginia. This Leasehold Commitment Agreement may be executed in counterparts, which when taken together, will form one instrument. **Neither Party shall be liable to the other Party for any special, incidental, consequential, punitive or exemplary damages related to, arising out of, or connected with this Leasehold Commitment Agreement.** This Leasehold Commitment Agreement, together with the Trade Agreement, represent the entire agreement of the Parties with respect to the subject matter hereof and supersedes all prior verbal and/or written agreements with respect to the subject matter hereof.

If the above terms and conditions of this Leasehold Commitment Agreement are acceptable to you, please indicate your approval in the space provided below and return an executed copy of this Leasehold Commitment Agreement to the attention of the undersigned.

Should you have any questions, please contact the undersigned at (346) 535-0802 or by email at gavin.nadeau@expandenergy.com.

Respectfully,

Expand Appalachia LLC



Gavin Nadeau, RPL
Sr. Staff Landman

[SIGNATURE PAGE TO FOLLOW]

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EXE:

EXPAND APPALACHIA LLC

By Expand Energy Corporation, sole manager

Signed by:

Derek Cutright

By: Derek Cutright

Its: Vice President

Initial Initial Initial Initial
YM DW GN PMB

EQNR:

EQUINOR USA ONSHORE PROPERTIES INC.

DocuSigned by:

Eric Luszczy

By: Eric Luszczy

Its: Manager – Land

Initial
EL

EQT:

EQT PRODUCTION COMPANY

DocuSigned by:

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

DS DS
GG ME

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Exhibit "A"

Attachment to and made a part of that certain Leasehold Commitment Agreement, dated October 20, 2025, by and between EXE/EQNR and EQT.

Original Lessor	Original Lessee	BK/PG	Lease Effective Date	County	Assigned Gross Acres	Assigned Net Acres	Tracts Conveyed
Stone Hill Minerals Holding, LLC	TH EXPLORATION, LLC	261A/890	5/3/2021	Wetzel	1.190485	1.190485	03-0001-0023-0000
PINEY HOLDINGS INC	SWN PRODUCTION COMPANY, LLC	261A/91	4/1/2021	Wetzel	9.311497	9.311497	03-0001-0029-0000
Stone Hill Minerals Holding, LLC	TH EXPLORATION, LLC	261A/890	5/3/2021	Wetzel	9.311497	0.000000	03-0001-0029-0000
KATHERINE SUE WHARTON SOLES	SWN PRODUCTION COMPANY, LLC	286A/492	1/17/2022	Wetzel	2.671395	1.335698	03-0001-0030-0000
KATHERINE SUE WHARTON SOLES	SWN PRODUCTION COMPANY, LLC	286A/492	1/17/2022	Wetzel	5.537590	2.768795	03-0005-0006-0000
Expand Appalachia LLC	N/A (Fee Interest)	417/333 417/199	10/23/2008	Wetzel	28.580000	4.763334	03-0007-0018-0000
Stone Hill Minerals Holding, LLC	TH EXPLORATION, LLC	261A/890	5/3/2021	Wetzel	5.110000	5.110000	03-0001-0028-0000
Liberty Holding Company Inc	SWN PRODUCTION COMPANY, LLC	320A/929	3/3/2023	Wetzel	16.390000	16.390000	03-0005-0003-0000

40.869809

End of Exhibit "A"

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