



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, April 1, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
2200 ENERGY DRIVE

CANONSBURG , PA 15317

Re: Permit Modification Approval for LONGWELL 5H
47-103-03700-00-00

Lateral Extension with Forced Pooling

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.

H. Jason Harmon
Acting Chief

Operator's Well Number: LONGWELL 5H
Farm Name: JEFFERY TODD LONGWELL
U.S. WELL NUMBER: 47-103-03700-00-00
Horizontal 6A New Drill
Date Modification Issued: 04/01/2026

Promoting a healthy environment.

04/03/2026

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 Church Hundred
Operator ID County District Quadrangle

2) Operator's Well Number: 5H Well Pad Name: Longwell

3) Farm Name/Surface Owner: Jeffery Todd Longwell Public Road Access: SR-7 Mountaineer Highway

4) Elevation, current ground: 1,435' Elevation, proposed post-construction: 1,435' (built)

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,711', 54', 2,620 psi

8) Proposed Total Vertical Depth: 7,711'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 29,217'

11) Proposed Horizontal Leg Length: 21,296'

12) Approximate Fresh Water Strata Depths: 138', 551', 1,140', 1,147', 1,164'

13) Method to Determine Fresh Water Depths: Offset Wells - 103-30559, 103-00005, 103-00119, 103-30354

14) Approximate Saltwater Depths: 1,366', 1,941', 2,205', 3,329'

15) Approximate Coal Seam Depths: 823'-826', 1,061'-1,064', 1,162'-1,168'

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

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

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

Depth: _____

Seam: _____

Owner: _____

OK# 609977
2500⁰⁰

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	26	New	A252	85.6	53	53 ✓	45 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1218	1218 ✓	1100 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2716	2716 ✓	1000 ft ³ / CTS
Production	5 1/2	New	P-110	20	29217	29217 ✓	500' above intermediate casing
Tubing							
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	26	30	0.312	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	5 1/2	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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 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): 16.83 acres

22) Area to be disturbed for well pad only, less access road (acres): 11.78 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

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25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

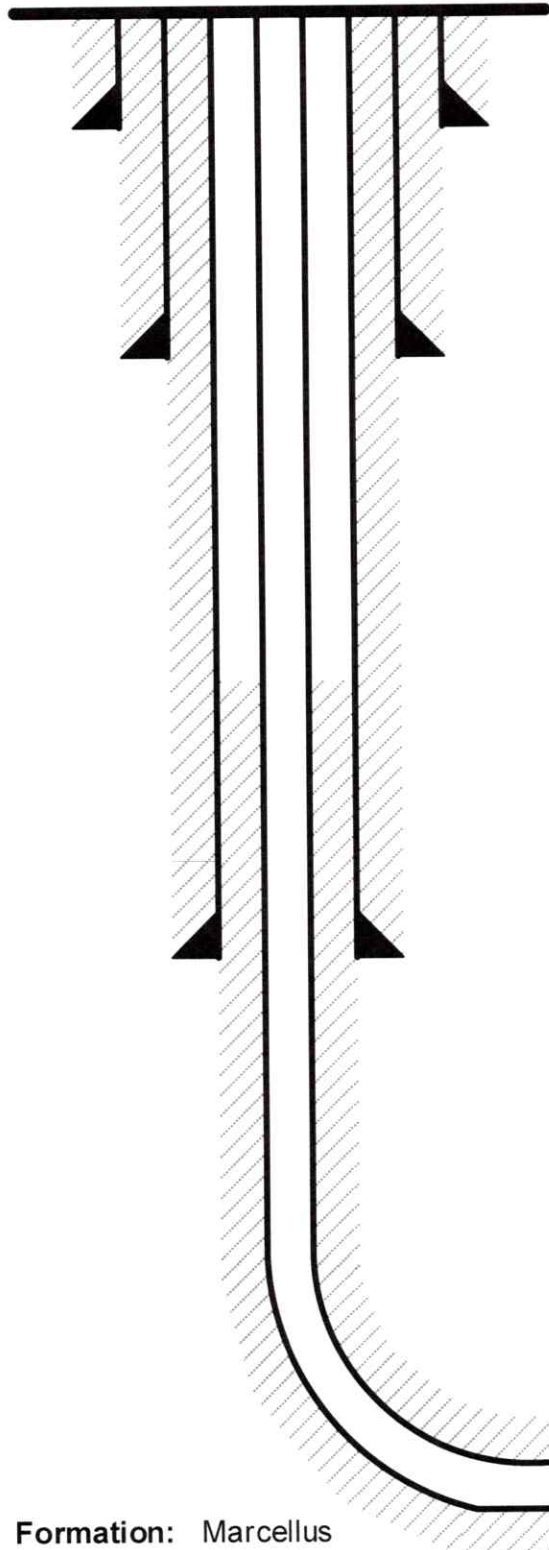
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Longwell 5H
Pad: Longwell
Elevation: 1435' GL 1448' KB

County: Wetzel
State: West Virginia



Conductor @ 53'

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

Surface @ 1,218'

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

Intermediate @ 2,716'

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

Production @ 29,217' MD / 7,711' TVD

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

Formation: Marcellus

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Office of Oil and Gas
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West Virginia Department of Environmental Protection

Stephen Mccoy
Digitally signed by Stephen Mccoy
Date: 2026.02.25 18:06:49 -05'00'

04/03/2026 NOT TO SCALE

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Longwell
County: Wetzel

February 26, 2026

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 Longwell pad: 3H, 5H, 9H & 11H.

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

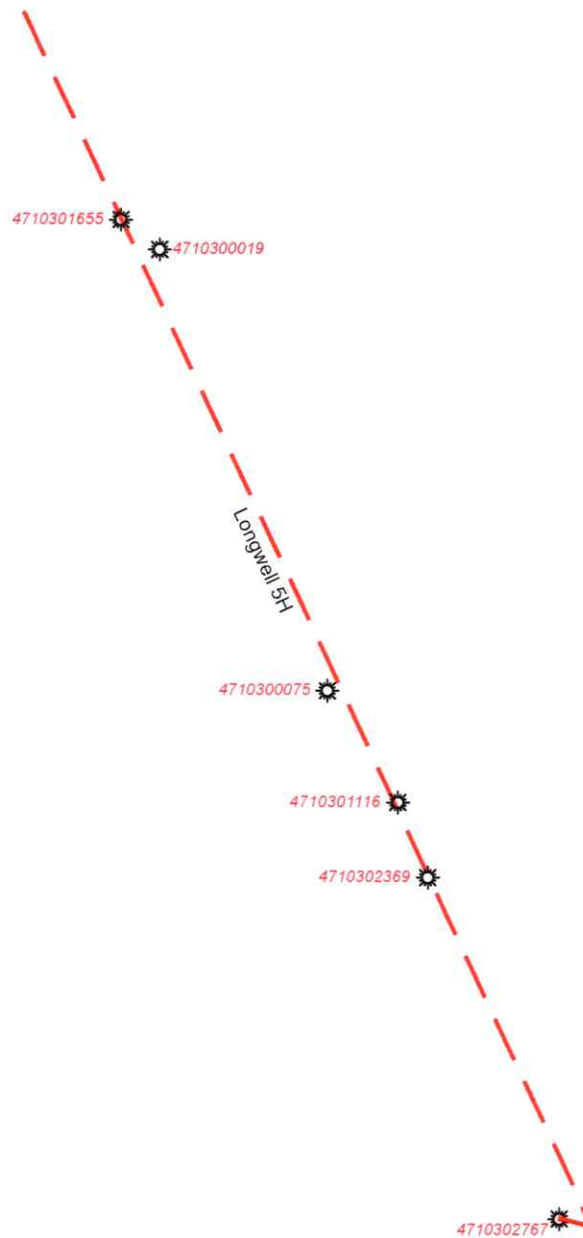
2. Reporting

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
2200 Energy Drive
Canonsburg, PA 15317

Longwell 5H

Vertical Offsets and
Foreign Laterals
within 500 Feet

Legend

Well Lateral_FM

Formation

— Geneseo

— Marcellus

— Utica

⚙ Longwell_Offset_Wells

3000 1500 0 3000



Scale: 1 Inch = 3000 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

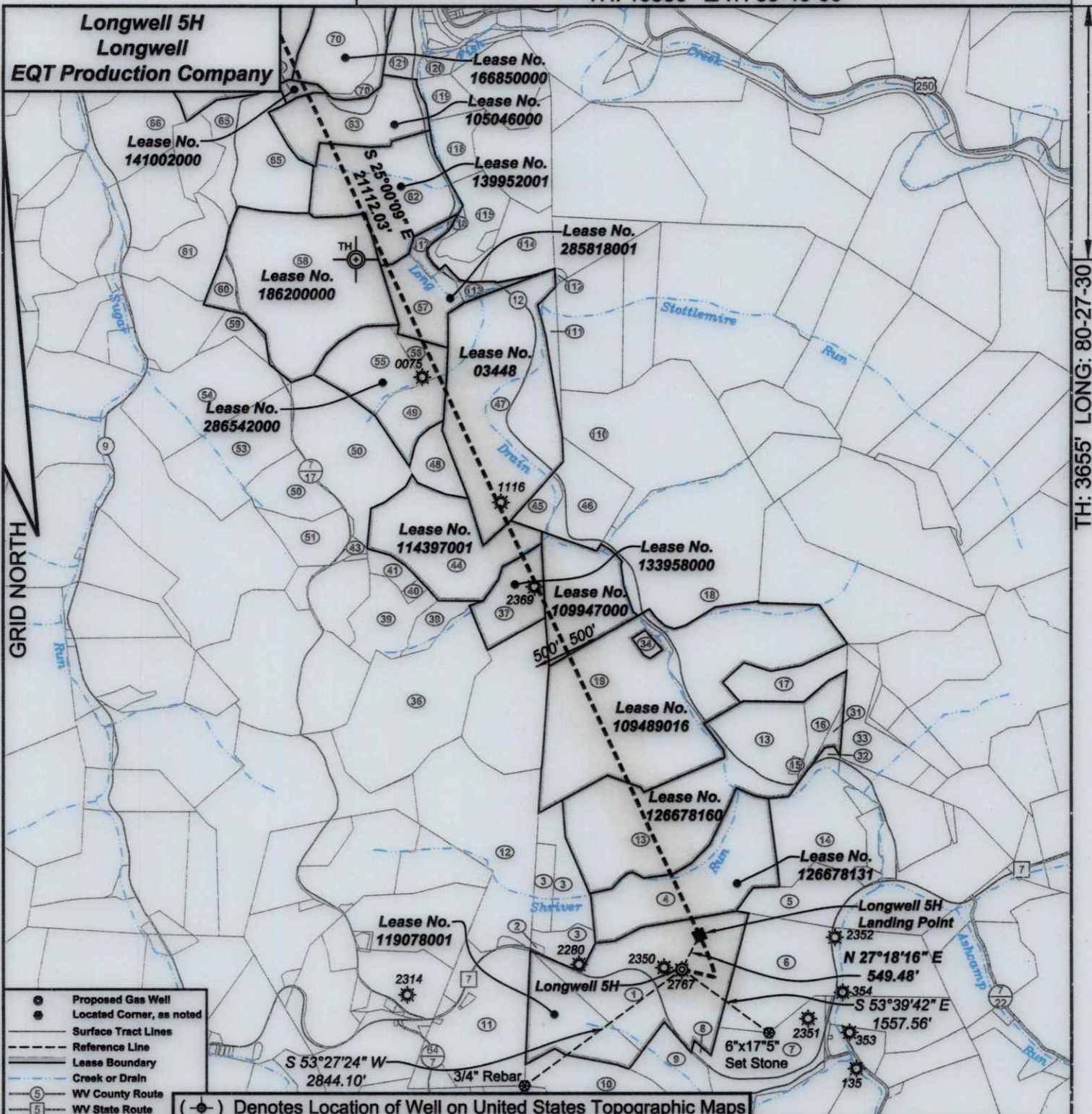


04/03/2026

UWI	ABA	CURR_OPER	ELEV_RF_CD	FIELD_NAME	FNL_CLASS	LATITUDE	LONGITUDE	OPER_NAME	PROJ_TD	SPUD_DATE	ELEVATION	TOT_DEPTH
✓02350	NA	Diversified Production LLC	Ground	Littletn-Sgr Rn	Development Well	39.65659900	-80.49565700	DAC, Inc	3900.00	5/3/2006	1426.00	3660.00
✓02767	NA	EQT Production Company	Ground	Littletn-Sgr Rn	Development Well	39.656615	-80.495124	Grenadier Energy Partners LLC	7650.00	8/8/2012	1428.00	7820.00
✓02369	NA	DAC Energy, LLC	Ground	NA	Unclassified	39.671835	-80.502469	DAC Energy, Inc	3900.00	NA	1207.00	NA
✓01116	NA	Tribune Resources, LLC	NA	Littletn-Sgr Rn	Unclassified	39.675210	-80.504495	Pennzoil Company	3136.00	11/16/1905	NA	3136.00
✓00075	NA	Operator Unknown	Ground	Littletn-Sgr Rn	Development Well	39.680140	-80.508624	Manufacturers Light and Heat Co	NA	8/17/1933	1060.00	3004.00
✓00019	NA	Operator Unknown	Ground	Littletn-Sgr Rn	Development Well	39.699716	-80.518574	Philadelphia Oil Company	NA	4/27/1929	1070.00	2958.00
✓01655	NA	Noumenon Corporation	Topo Estimat	Littletn-Sgr Rn	Development Well	39.701021	-80.520827	Noumenon Corp, a WV Corp	2995.00	NA	1060.00	2995.00

TH: 10356' LAT: 39-40-00

TH: 3655' LONG: 80-27-30



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

Ben R. Singleton

P.S. 2092



FILE NO: 14-24
 DRAWING NO: Longwell 5H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: March 03 20 26
 OPERATOR'S WELL NO.: Longwell 5H
 API WELL NO
 47 - 103 - 03700
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built: 1435' WATERSHED Long Drain of West Virginia Fork Fish Creek QUADRANGLE: Hundred
 DISTRICT: Church and Clay COUNTY: Wetzel
 SURFACE OWNER: Jeffery Todd Longwell ACREAGE: 106.50
 ROYALTY OWNER: Jeffery Todd Longwell, et al LEASE NO: 119078001 ACREAGE: 106.50
 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: 7,711'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 2200 Energy Drive ADDRESS: 427 Midstate Drive
 Canonsburg, PA 15317 Clarksburg, WV 26301

04/03/2026

Longwell 5H
Longwell
EQT Production Company

GRID NORTH

Lease No.
218583000

Lease No.
295443001

1655
Lease No.
03816

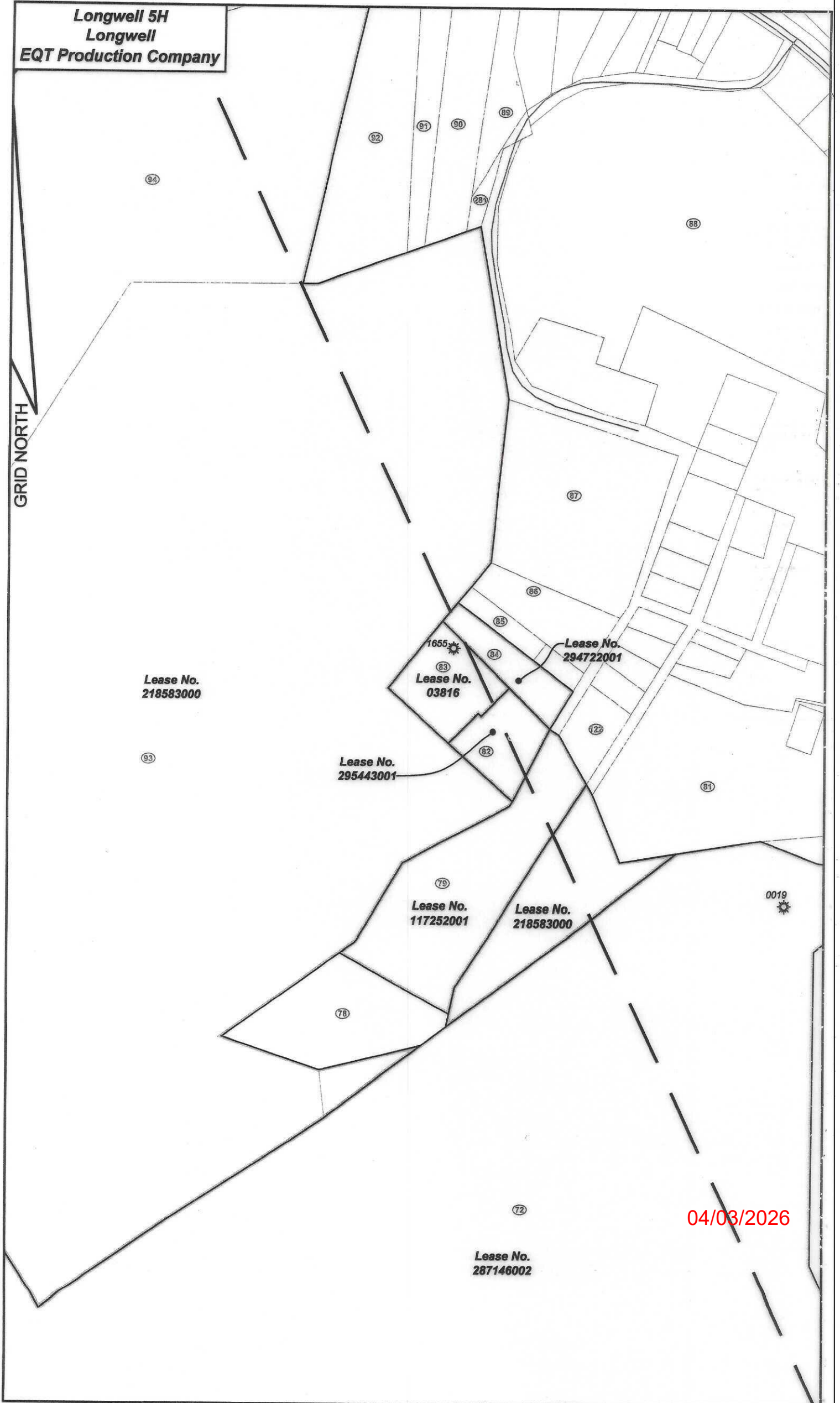
Lease No.
294722001

Lease No.
117252001

Lease No.
218583000

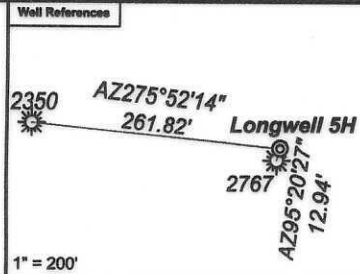
Lease No.
287146002

04/03/2026



Longwell 5H
Longwell
EQT Production Company

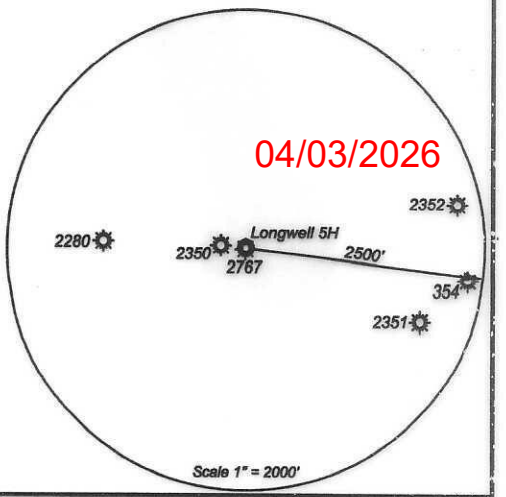
Tract I.D.	Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	10	13	Wetzel	Church	Jeffery T Longwell	106.5
2	10	11	Wetzel	Church	Leann L. Harris & Penny L. Sole	0.5
3	10	4	Wetzel	Church	Leia J. LeMasters	33.09
4	10	5	Wetzel	Church	Bruce & Linda Garrison	61.5
5	8	29	Wetzel	Church	Larry V. Watson, et al.	17.86
6	10	15	Wetzel	Church	Charles L. Miller	80
7	10	23	Wetzel	Church	John R. Rice	33
8	10	22	Wetzel	Church	Pell Hill Chapel	1.8
9	10	21	Wetzel	Church	Charles L. Mathews	20
10	10	20	Wetzel	Church	Catherine Roberts, et al.	50
11	10	12	Wetzel	Church	Harriet I. Tuslin	56.32
12	7	19	Wetzel	City	McLach Land LLC	73.211
13	6	23	Wetzel	Church	Bruce & Linda Garrison	124
14	6	25	Wetzel	Church	Larry V. Watson, et al.	40.83
15	8	24	Wetzel	Church	Shirley Cemetery	0.88
16	6	12	Wetzel	Church	Edward M. Baldauf, et al.	9.04
17	7	11	Wetzel	City	Edward M. Baldauf, et al.	20.5
18	7	8	Wetzel	City	Paul R. Curry, et al.	130
19	7	12	Wetzel	City	Wilda M. Church & Peggy Brown	209.35
31	6	13	Wetzel	Church	Edward M. Baldauf, et al.	2.9
32	6	14.1	Wetzel	Church	Edward M. Baldauf, et al.	1.24
33	8	15	Wetzel	Church	Edward M. Baldauf, et al.	28.5
34	7	12.1	Wetzel	City	Wilda Church	2.15
36	7	14	Wetzel	City	Ridgetop Appalachia LLC	85.25
37	7	13	Wetzel	City	Howard W. Peirish, Jr.	24.5
39	7	15	Wetzel	City	Larry Majors & Steve Armstrong	32.4
40	7	15.2	Wetzel	City	Stephen Armstrong	1.7
41	7	15.1	Wetzel	City	Paul Parker	4.74
43	7	2.1	Wetzel	City	Howard W. Peirish, Jr.	2
44	7	4	Wetzel	City	Howard W. Peirish, Jr.	52.5
45	7	6	Wetzel	City	Stephen T. Varner	7
46	7	7	Wetzel	City	William A. Myers II	28.8
47	4	48	Wetzel	City	Stephen T. Varner	115.3
48	7	5	Wetzel	City	Stephen T. Varner	12.8
49	4	50.1	Wetzel	City	Richard L. Wise	23.05
50	7	3	Wetzel	City	Morris Family Irrevocable Trust	71.3
51	7	2.5	Wetzel	City	Bernard W. Schmitt	15.82
53	7	1	Wetzel	City	Trust of The Atonement Inc.	43
54	1	51	Wetzel	City	Trust of The Atonement Inc.	61.5
55	4	50	Wetzel	City	Richard L. Wise	28.2
56	4	48	Wetzel	City	Jack & Linda Mason	7.46
57	4	33	Wetzel	City	Jack & Linda Mason	19.08
58	4	32	Wetzel	City	Coastal Forest Resources Company	92
59	4	31	Wetzel	City	Brian K. Rollan	10
60	4	32.1	Wetzel	City	Cokie M. Dilton	8
61	4	29	Wetzel	City	Goldie M. Britton	26
62	4	25	Wetzel	City	Ralph M. Crouse	56.5
63	4	28	Wetzel	City	Susan J. Minor	58.3
64	4	27	Wetzel	City	Susan J. Minor	3.3
65	4	28	Wetzel	City	Susan J. Minor	51.3
66	5	18	Wetzel	City	Cynthia I. Shipman, et al.	44.5
67	1	2	Wetzel	City	Bradley A. Calp	16.9
68	4	2.1	Wetzel	City	Bradley A. Calp	1
69	4	3	Wetzel	City	Bradley A. Calp	42.5
70	4	1	Wetzel	City	Godwin Living Trust	48.5
71	2L	66	Wetzel	City	Kenneth C. Shrove, et al.	17
72	4	1	Wetzel	City	Gregory B. Null	116.3
73	5	15	Wetzel	City	Charles H. & Penny J. Hamilton	15.58
74	5	18	Wetzel	City	EQI Gathering LLC	1.69
75	5	15.1	Wetzel	City	Carl B. & Sharon Marshall	0.175
76	5	13	Wetzel	City	Lee Booth, et al.	1
77	5	14	Wetzel	City	Robert P. Roberts	65
78	4	55	Wetzel	City	Tony A. Moore	1
79	4	58	Wetzel	City	Robert W. Carrison	2.17
80	1L	24	Wetzel	City	Catherine Hamilton	1.79
81	1L	25	Wetzel	City	William A. McGilumphy, et al.	3.25
82	8	15	Wetzel	City	Rita Roberts	0.54
83	8	16	Wetzel	City	LUU Corporation	0.88
84	8	14	Wetzel	City	Ananias A. Derby	0.42
85	8	12	Wetzel	City	Robert W. Carrison	0.17
86	8	11	Wetzel	City	Christine Robinson, et al.	0.564
87	1L	16	Wetzel	City	Robert P. Roberts	2.0526
88	2	53	Wetzel	City	Rita Roberts	7
89	8	28	Wetzel	City	Candy Simms, et al.	0.43
90	8	27	Wetzel	City	Candy Simms, et al.	0.944
91	8	28.1	Wetzel	City	Jamie L. Nolan, et al.	0.57
92	8	28	Wetzel	City	Jamie L. Nolan, et al.	1.93
93	2	56	Wetzel	City	Rita Roberts	37.9
94	2	55.2	Wetzel	City	Robert J. & Sylvia Schurr	37.28
95	2	55.1	Wetzel	City	Clenna J. McDougal	2.721
96	2	29	Wetzel	City	William L. Wharton	4.1
97	2	27	Wetzel	City	William L. Wharton	6
98	2	28	Wetzel	City	William L. Wharton	20
100	2	28	Wetzel	City	Evelyn L. Wharton	3.1
101	2	25.1	Wetzel	City	Bradley L. Stella L. State	1.21
102	2	21	Wetzel	City	Eric M. Wade, et al.	11.62
103	2	83	Wetzel	City	CNX Land LLC	81.94
104	2	20	Wetzel	City	Kevin N. Soles, et al.	137.2
105	2	31	Wetzel	City	Tamara Fischer-Sprowls, et al.	20
106	2	32	Wetzel	City	Tamara Fischer-Sprowls	2.2
107	2	19.1	Wetzel	City	Kevin N. Soles	3
108	2	19	Wetzel	City	Donna D. Soles	101.4
109	2	6	Wetzel	City	Sarah F. Fitzgerald Finkle, et al.	160
110	4	46	Wetzel	City	William Myers	77.7
111	4	42	Wetzel	City	Tim Williams	8
112	4	40	Wetzel	City	Ily Lake	0.5
113	4	39	Wetzel	City	Jennifer .bbcs	4.4
114	4	38	Wetzel	City	FN Murphy	20.2
115	4	36	Wetzel	City	Dallison Lumber Inc.	11.8
116	4	35	Wetzel	City	Walter Longwell	1.2
117	4	34	Wetzel	City	William White	8.5
118	4	24	Wetzel	City	Dallison Lumber Inc.	10.3
119	4	53	Wetzel	City	Maureen Mackey	7.05
120	4	53.1	Wetzel	City	Maureen Mackey	3.4
121	4	57	Wetzel	City	David Milk	9.88
122	1L	28	Wetzel	City	Hubert Garrison	0.01
123	2	30	Wetzel	City	Lillian Wise	0.5
124	2	61	Wetzel	City	Tamara Fischer-Sprowls	0.5
281	8	22	Wetzel	City	Candy Simms, et al.	0.54



Notes:
 Longwell 5H coordinates are
 NAD 27 N: 422,823.51 E: 1,719,828.82
 NAD 27 Lat: 39.656634 Long: -80.495116
 NAD 83 UTM N: 4,389,779.23 E: 543,328.64
 Longwell 5H Landing Point coordinates are
 NAD 27 N: 423,311.77 E: 1,720,080.87
 NAD 27 Lat: 39.657982 Long: -80.494240
 NAD 83 UTM N: 4,389,929.27 E: 543,402.95
 Longwell 5H Bottom Hole coordinates are
 NAD 27 N: 442,445.35 E: 1,711,157.67
 NAD 27 Lat: 39.710234 Long: -80.526708
 NAD 83 UTM N: 4,395,713.11 E: 540,587.22
 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.

- Longwell 11H ©
- Longwell 9H ©
- Longwell 7H ©
- Longwell 5H ©
- Longwell 1H ©
- Longwell 3H ©

Lease No.	Owner	Acres
119078001	Jeffery Todd Longwell, et al.	106.5
126678131	Nancy Dawn Cosgray, et al.	61.5
126678160	Stone Hill Mineral Holdings, LLC, et al.	194
109489016	Peggy Church Brown, et al.	170
109947000	Peggy Church Brown, et al.	31,307,949 of 140
133958000	Liberty Holding Company	24.50 of 97.71
114397001	Thomas J. Iacoboni, Trustee of the Thomas J. Iacoboni Revocable Trust Agreement, dated 5/15/2018, et al.	52.50
03448	Steve Varner	115.30 of 153.33
286542000	Liberty Holding Company	58.71
285818001	Country Roads Minerals LLC, et al.	36
139952001	Michael J. Prendergast, et al.	56.5
186200000	Three Rivers Royalty, II, LLC, et al.	92 of 250
105046000	Mary Joliffe Henry, et al.	38.25
141002000	Ronald K. Minor, et al.	3.25
166850000	AMP IV, LP, et al.	48.5
105334069	Bounty Minerals, LLC, et al.	59.40 of 464.95
287146002	William J. Grottenleck, III, et al.	116.25
218583000	Bounty Minerals, LLC, et al.	89.409
117252001	Mary K. Joliffe, et al.	3.17
295443001	Rita C. Roberts, et al.	0.5414
03816	EBTB Corporation, et al.	0.6837
294722001	W. Renee Speeler, et al.	0.42
287538000	West Virginia Division of Natural Resources	17,084,151 of 38,187
131495009	Three Rivers Royalty II, LLC, et al.	28,2375
290600001	Charlotte Maxine Burdine	1.25
294368000	CNX Gas Company, LLC	60.45
299193002	Tamara Fischer-Sprowls, et al.	20
286584000	Ridgetop Appalachia, LLC	137.425



**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				

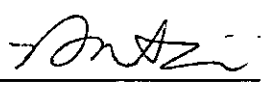
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NATURAL RESOURCES

**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: Branden Weimer 
 Its: Regional Manager - Permitting

"at least 1/8th per WV
Code 22-6-8"

Peggy Church Brown, et al

109947000

George Church, et ux
George Church, et ux
W.D. Straight
W.L. Haworth
Chalmers Oil and Gas
Carnegie Natural Gas Company
Carnegie Production Company

31.307949 ac
of 140 ac

W.D. Straight
W.D. Straight
W.L. Haworth
Chalmers Oil and Gas
Carnegie Natural Gas Company
Carnegie Production Company
EQT Production Company

OG 12A/44
OG 4A/159
OG 4A/161
OG 6A/146
unrecorded assignment
OG 78A/513
MB 150/160

Liberty Holding Company

133958000

Liberty Holding Company
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Drilling Appalachian Corporation
Statoil USA Onshore Properties Inc.

24.50 ac
of 97.71 ac

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

OG 127/244
OG 124A/9
OG 138A/1
OG 138A/54
OG 153A/695
OG 153A/640
OG 175A/707

"at least 1/8th per WV
Code 22-6-8"

**Thomas J. Iacoboni, Trustee of the Thomas J. Iacoboni
Revocable Trust Agreement, dated 5/15/2018, et al**

114397001

Thomas J. Iacoboni, a married man dealing in his sole and
separate property
Drilling Appalachian Corporation
Grenadier Energy Partners
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Drilling Appalachian Corporation
Statoil USA Onshore Properties

52.50 ac

Drilling Appalachian Corporation
Grenadier Energy Partners
Statoil USA Onshore Properties
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

OG 86A/414
OG 124A/9
OG 138A/1
OG 138A/54
OG 153A/695
OG 153A/640
OG 175A/707

"at least 1/8th per WV
Code 22-6-8"

Steve Varner

03448

Henry Sole
South Penn Oil Company
South Penn Natural Gas Company

115.30 ac
of 153.33 ac

South Penn Oil Company
South Penn Natural Gas Company
Pennzoil Company

DB 51/139
OG 33A/455
WVSOS

"at least 1/8th per WV
Code 22-6-8"

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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>Jeffery Todd Longwell, et al</u>			"at least 1/8th per WV Code 22-6-8"	
✓ <u>119078001</u>	Kathy Lee Longwell Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	106.5 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 90A/182 OG 124A/9 OG 138A/1 OG 138A/54 OG 153A/695 OG 153A/640 OG 175A/707
	<u>Nancy Dawn Cosgray, et al</u>			"at least 1/8th per WV Code 22-6-8"	
✓ <u>126678131</u>	Nancy Cosgray, a single woman Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	61.5 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 134A/671 OG 135A/541 OG 138A/1 OG 138A/54 OG 153A/695 OG 153A/640 OG 175A/707
	<u>Stone Hill Mineral Holdings, LLC, et al</u>			"at least 1/8th per WV Code 22-6-8"	
✓ <u>126678160</u>	Stone Hill Mineral Holdings, LLC TH Exploration, LLC	194 ac	TH Exploration, LLC EQT Production Company		OG 252A/369 OG 289A/811
	<u>Peggy Church Brown, et al</u>			"at least 1/8th per WV Code 22-6-8"	
✓ <u>109489016</u>	Peggy Brown Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	170 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 127A/429 OG 124A/9 OG 138A/1 OG 138A/54 OG 153A/695 OG 153A/640 OG 175A/707

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Pennzoil Company
 Pennzoil Company
 Pennzoil Products Company
 Pennzoil Exploration and Production Company
 PennzEnergy Exploration and Production, LLC
 Devon Energy Production Company
 Stephen T. Varner and Cynthia S. Varner, h/w
 East Resources, Inc.
 HG Energy, LLC
 American Energy-Marcellus, LLC
 Ascent Resources-Marcellus, LLC
 Tribune Resources, LLC

Pennzoil Products Company DB 319/397
 Pennzoil Products Company DB 322/577
 Pennzoil Exploration and Production Company DB 363/384
 PennzEnergy Exploration and Production, LLC CB 12/177
 Devon Energy Production Company CB 12/278
 East Resources, Inc. DB 370/580
 East Resources, Inc. OG 88A/521
 HG Energy, LLC OG 118A/253
 American Energy-Marcellus, LLC OG 153A/238
 Ascent Resources-Marcellus, LLC MB 114/619
 Tribune Resources, LLC CB 13/421
 EQT Production Company Force Pooled Tract

"at least 1/8th per WV
 Code 22-6-8"

✓ **286542000**

Liberty Holding Company

Liberty Holding Company
 SWN Production Company, LLC and
 Equinor USA Onshore Properties, Inc.

58.71 ac

SWN Production Company, LLC

OG 320A/937

EQT Production Company

OG 415A/536

"at least 1/8th per WV
 Code 22-6-8"

✓ **285818001**

Country Roads Minerals LLC, et al

Country Roads Minerals LLC

36 ac

EQT Production Company

OG 415A/917

"at least 1/8th per WV
 Code 22-6-8"

✓ **139952001**

Michael J. Prendergast, et al

Michael J. Prendergast
 TH Exploration, LLC

56.5 ac

TH Exploration, LLC

OG 217A/540

EQT Production Company

OG 258A/333

"at least 1/8th per WV
 Code 22-6-8"

✓ **186200000**

Three Rivers Royalty, II, LLC, et al

J.W. and S.A. Newman
 South Penn Oil Company
 Hope Natural Gas Company
 Consolidated Gas Supply Corporation
 Consolidated Gas Transmission Corporation
 CNG Transmission Corporation
 Dominion Transmission, Inc.
 CONSOL Energy Holdings LLC VI

92 ac of
 250 ac

South Penn Oil Company
 Hope Natural Gas Company
 Consolidated Gas Supply Corporation
 Consolidated Gas Transmission
 Corporation
 CNG Transmission Corporation
 Dominion Transmission, Inc.
 CONSOL Energy Holdings LLC VI
 CONSOL Energy Holdings XVI

OG 44/500
 OG 9A/230
 DB 233/387
 OG 66A/69
 Corp 13/151
 Corp 13/158
 MR 96/307
 MR 96/307

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	CONSOL Energy Holdings LLC XVI CONSOL Gas Company CNX Gas Company, LLC Noble Energy, Inc. Noble Energy, Inc. HG Energy II Appalachia, LLC Antero Resources Corporation		CONSOL Gas Company CNX Gas Company LLC Noble Energy, Inc. HG Energy II Appalachia, LLC HG Energy II Appalachia, LLC Antero Resources Corporation EQT Production Company	Corp 13/114 MR 96/307 OG 126A/486 OG 203A/664 OG 209A/141 OG 256A/882 OG 269A/533
✓ <u>105046000</u>	<u>Mary Jolliffe Henry, et al</u> Mary Jolliffe Henry	38.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8" OG 249A/304
✓ <u>141002000</u>	<u>Ronald K. Minor, et al</u> Ronald K. Minor and Patricia Minor	3.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8" OG 255A/892
✓ <u>166850000</u>	<u>AMP IV, LP, et al</u> AMP IV, LP	48.5 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8" OG 267A/757
✓ <u>105334069</u>	<u>Bounty Minerals, LLC, et al</u> CBC Holdings, LLC Driling Appalachian Corporation Statoil USA Onshore Properties	59.40 ac of 464.95 ac	Driling Appalachian Corporation Statoil USA Onshore Properties EQT Production Company	"at least 1/8th per WV Code 22-6-8" OG 113A/946 OG 153A/640 OG 175A/707
✓ <u>287146002</u>	<u>William J. Grottendieck, III, et al</u> Virginia Grottendieck, Conservator for the Estate of William J. Grottendieck, III	116.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8" OG 429A/655
✓ <u>218583000</u>	<u>Bounty Minerals, LLC, et al</u> Bounty Minerals, LLC CNX Gas Company, LLC	69.409 ac	CNX Gas Company, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8" OG 274A/624 OG 434A/733
✓ <u>117252001</u>	<u>Mary K. Jolliffe, et al</u> Mary K. Jolliffe	3.17 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8" OG 251A/96

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295443001	<u>Rita C. Roberts, et al</u> Rita C. Roberts	0.5414 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 438A/810
03816	<u>EBTB Corporation, et al</u> EBTB Corporation	0.6837 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	Force Pooled Tract
294722001	<u>W. Renee Speeler, et al</u> W. Renee Speeler, Trustee of the W. Renee Speeler Trust	0.42 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 435A/504
287538000	<u>West Virginia Division of Natural Resources</u> West Virginia Division of Natural Resources	17.084151 ac of 38.187 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 424A/155
131495009	<u>Three Rivers Royalty II, LLC, et al</u> Ronald H. Wharton et ux Antero Resources Corporation	28.2375 ac	Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 182A/179 OG 231A/22
290600001	<u>Charlotte Maxine Burdine</u> Charlotte Maxine Burdine	1.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 432A/8
294368000	<u>CNX Gas Company, LLC</u> CSX Transportation, Inc., successor to The Chesapeake and Ohio Railway Company, successor to The Baltimore and Ohio Railroad Company, et al Consolidation Coal Company CNX Gas Company, LLC	60.45 ac	Consolidation Coal Company CNX Gas Company, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 324/211 DB 400/1 OG 434A/719
299193002	<u>Tamara Fischer-Sprowls, et al</u> Tamara Fischer-Sprowls	20 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 445A/420

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"at least 1/8th per WV
Code 22-6-8"

✓ 286584000 **Ridgetop Appalachia, LLC**
Ridgetop Appalachia, LLC
SWN Production Company, LLC and
Equinor USA Onshore Properties, Inc.

137.425 ac

SWN Production Company, LLC

OG 320A/652

EQT Production Company

OG 415A/536

Force Pooled Tract(s) Within Lease Boundaries

PROPERTY OF
EQUINOR USA ONSHORE PROPERTIES, INC.
FEB 27 2025
EQUINOR USA ONSHORE PROPERTIES, INC.



February 26, 2026

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

Re: Longwell 5H 6A1 Addendum

Dear Mr. Brewer,

This letter and supporting documentation serve as EQT Production Company's addendum to the WW-6A1 form associated with this well. The lease included on this addendum is a lease in which EQT "claims the right to extract, produce or market the oil or gas", but does not propose to encounter the lease with the proposed wellbore. EQT would like to report this lease as part of our Well Work Permit Application, as it is located within 50' of our proposed permitted wellbore.

If EQT does encounter this lease, an application for a permit modification will be filed with the West Virginia DEP, Office of Oil and Gas.

If you have any questions, please do not hesitate to contact me at 724-250-0180 or OPishioneri@eqt.com

Sincerely,

A handwritten signature in blue ink, appearing to read 'Olivia Wilson'.

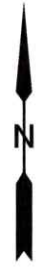
Olivia Wilson
Project Specialist - Permitting

Enc.

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WV Department of
Environmental Protection

04/03/2026

Longwell 5H
EQT Production Company
 "Detail of Lease No. 283627000"



Lease No.
218583000

Proposed Well Bore

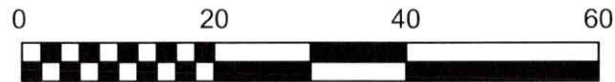
20.64'

Lease No.
283627000

Lease No.
294722001

Lease No.
03816

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 NATURE AND FORESTRY



Scale: 1 Inch = 20 Feet



Birch River Office
 Phone: (304) 649-8606
 Fax: (304) 649-8608

237 Birch River Road
 Birch River, WV 26610
 www.alleghenysurveys.com

PARTY CHIEF: NA	DRAWING NO: 5H Adendum Lease 283627000.dwg
RESEARCH: NA	PROJECT NO: 14-34-C-24
SURVEYED: NA	PREPARED: January 27, 2026
FIELD CREW: NA	DRAWN BY: Tim Rutledge

Sheet 1 of 1

Longwell 5H

EQT Production Company

"Detail of Lease No. 283905001"



Lease No.
283905001

Lease No.
218583000

Proposed Well Bore

3.60'

APPROVED BY:
 DATE: FEB 27 2026
 PROJECT: 14-34-C-24
 DRAWING: 5H Adendum
 Lease 283905001.dwg



Scale: 1 Inch = 1 Foot



Birch River Office
Phone: (304) 649-8606
Fax: (304) 649-8608

237 Birch River Road
Birch River, WV 26610
www.alleghenysurveys.com

PARTY CHIEF: NA

DRAWING NO: 5H Adendum
Lease 283905001.dwg

RESEARCH: NA

PROJECT NO: 14-34-C-24

SURVEYED: NA

PREPARED: January 27, 2026

FIELD CREW: NA

Sheet 1 of 1

DRAWN BY: Tim Rutledge

WW-6A1 attachment

Operator's Well No.

Longwell 5H

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>283627000</u>	Robert W. Garrison Robert W. Garrison	0.1653 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 409A/726
<u>283905001</u>	Susan Dupuy, et al John Dupuy and Susan Dupuy	1.93 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 409A/910

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NATURAL RESOURCES



February 26, 2026

Via FedEx Overnight Delivery

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

RE: Horizontal Well Work Permit Application Modification
Longwell 5H
Church & Clay District, Wetzel County, WV

WVDEP Recipient,

Attached please find the Well Work Permit Application for the well referenced above. You will find the following included with this submittal:

- Check in the amount of \$2,500.00 for H6A well permit fee
- Completed WW-6B and supporting documents, approved by the O&G Inspector
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Hydraulic Fracturing Monitoring Plan
- Offset Well Map and Table

EQT is proposing to extend this lateral from the previously permitted length. Please note that EQT is planning to utilize force pooling & has applications currently pending commission review.

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

Best Regards,

Olivia Wilson
Project Specialist – Permitting
OPishioneri@eqt.com
724-250-0180

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FEB 27 2026
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Environmental Protection

04/03/2026