



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, October 15, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
2200 ENERGY DRIVE

CANONSBURG , PA 15317

Re: Permit Modification Approval for HALLIBU 12H
47-103-03707-00-00

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 blue ink signature of H. Jason Harmon, written in a cursive style.

H. Jason Harmon
Acting Chief

Operator's Well Number: HALLIBU 12H
Farm Name: EQT PRODUCTION COMPANY
U.S. WELL NUMBER: 47-103-03707-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/15/2025

Promoting a healthy environment.

10/17/2025

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: 12HWell Pad Name: Hallibu

3) Farm Name/Surface Owner: EQT Production CompanyPublic Road Access: CR 7/17

4) Elevation, current ground: 1340'Elevation, proposed post-construction: 1340'

5) Well Type (a) Gas XOilUnderground StorageOther

(b)If GasShallow XDeepHorizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,571', 52', 2,620 psi

8) Proposed Total Vertical Depth: 8,683'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25,123'

11) Proposed Horizontal Leg Length: 16,440'

12) Approximate Fresh Water Strata Depths: 43', 90'

13) Method to Determine Fresh Water Depths: Offset wells 103-02767, 103-022179 103-00005

14) Approximate Saltwater Depths: 1,902', 2,110', 2,351'

15) Approximate Coal Seam Depths: 730'-733', 969'-972', 1,067'-1,073'

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?

YesNo X

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

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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 Bare	85.6	53	53	45 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1123	1123	1020 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2653	2653	1020 ft^3 / CTS
Production	5 1/2	New	P-110	20	25123	25123	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	5 1/2	8 1/2	0.361	14360	11488	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

PACKERS

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Kind:				SEP 12 2025
Sizes:				WV Department of Environmental Protection
Depths Set:				

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

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

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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): 25.2

22) Area to be disturbed for well pad only, less access road (acres): 16.8

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.

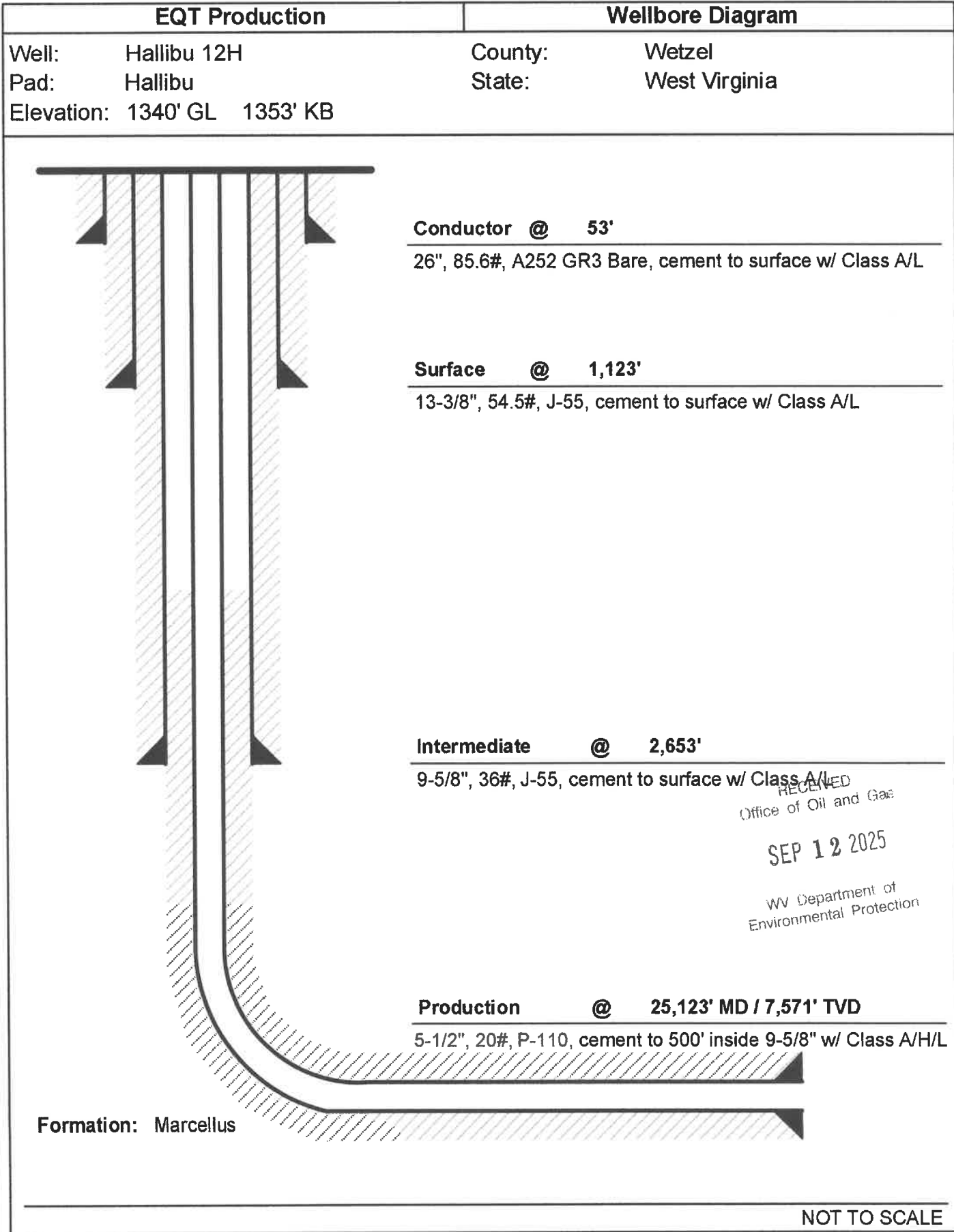
24) Describe all cement additives associated with each cement type:

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

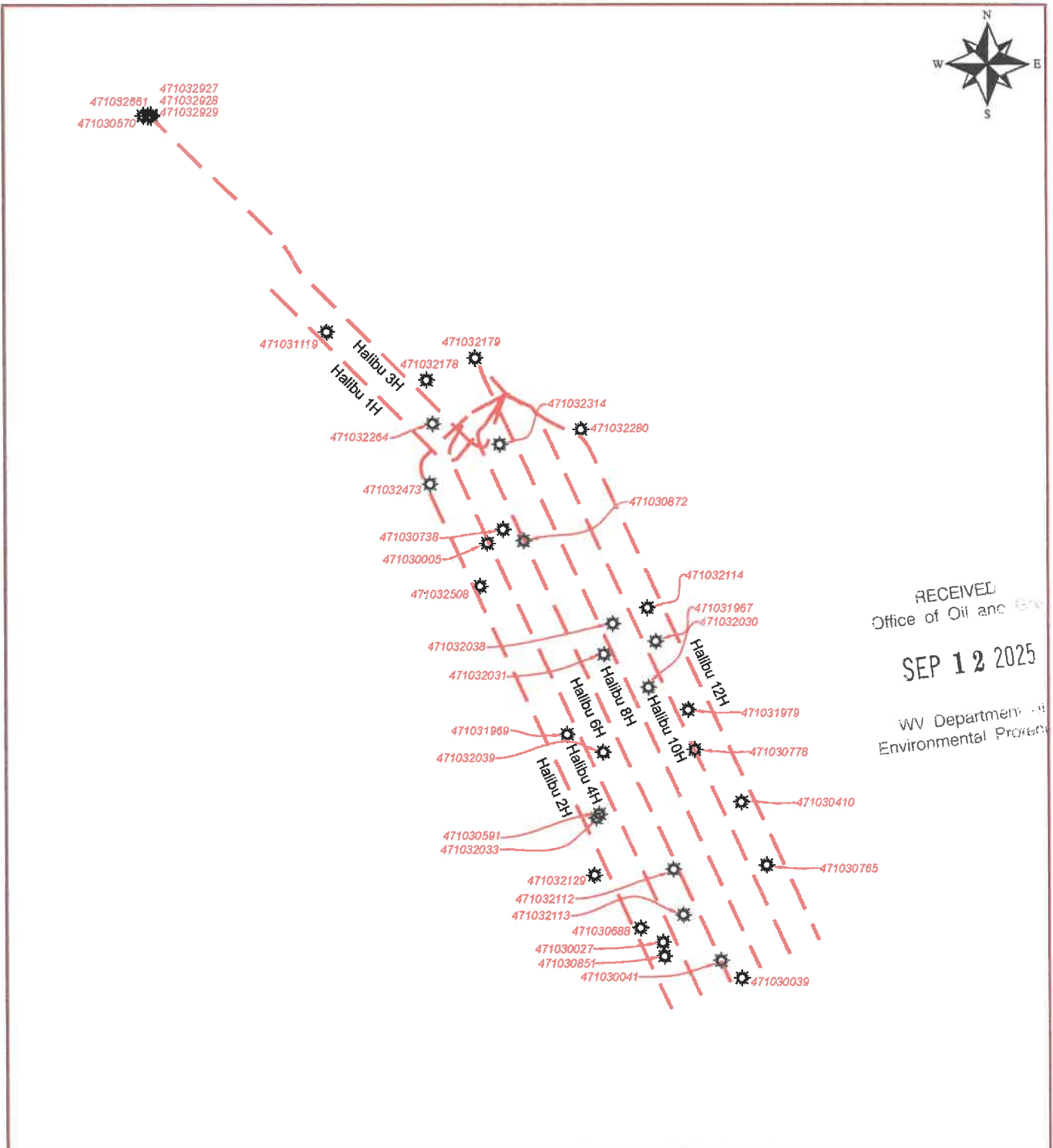
25) Proposed borehole conditioning procedures:

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.



10/17/2025



	EQT Corporation 625 Liberty Avenue Pittsburgh, PA 15222	Legend	4000 2000 0 4000	1 Inch = 116,000 Feet
Halibu		Well Lateral_FM		
Vertical Offsets and Foreign Laterals within 500 Feet		Formation	Scale: 1 Inch = 4000 Feet	
		Geneseo Marcellus Utica Hallibu_Offset_Wells	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.	

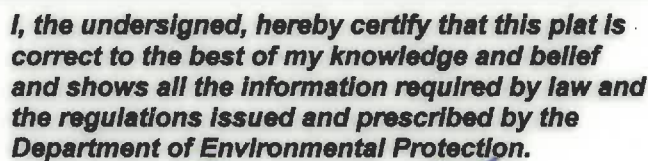
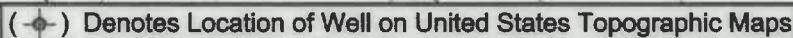
10/17/2025

HALLIBU OFFSET WELL LIST										
UWI	ABAND_DATE	CURRENT OPERATOR	FNL_CLASS	LATITUDE	LONGITUDE	OPER_NAME	PROJ_TD	SPUD_DATE	ELEVATION	TOT_DEPTH
021790000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.662835	-80.511812	DAC	0	7/20/2006	1397	3609
022800000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.656890	-80.500180	DAC	0	9/11/2007	1410	3615
023140000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.655584	-80.508997	DAC	0	12/3/2007	1374	3700
024730000	NA	DRILLING APPALACHIAN	DEVELOPMENT WELL-GAS	39.652139	-80.516503	DAC	0	Never Drilled	1167	3900
022800000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.656890	-80.500180	DAC	0	9/11/2007	1410	3615
007380000	NA	PILLAR ENERGY	UNCLASSIFIED	39.648479	-80.508621	MANUFACTURERS LIGHT AND HEAT	0	2/14/1920	NA	3360
000050000	NA	J&S OIL PROD	DEVELOPMENT WELL-OIL	39.647319	-80.510309	MANUFACTURERS LIGHT AND HEAT	0	1/1/1930	1400	3260
008720000	NA	DIVERSIFIED	UNCLASSIFIED	39.647592	-80.506374	EQUITABLE GAS	0	NA	NA	NA
011190000	NA	EAST RESOURCES	UNCLASSIFIED	39.664864	-80.527948	PENNZOIL	0	7/1/1904	1348	3201
025080000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.643681	-80.510907	DAC	3900	8/10/2009	1381	3671
021140000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.642099	-80.492836	DAC	0	9/17/2005	1384	3700
019670000	NA	CNX	UNSUCCESSFUL/METHANE	39.639343	-80.491897	DYNATEC	0	7/28/2003	1071	NA
020300000	NA	DIVERSIFIED	UNSUCCESSFUL/METHANE	39.635428	-80.492646	DYNATEC	960	2/2/2005	1125	4837
019790000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.633543	-80.488331	DAC	0	10/17/2003	1321	3632
007780000	NA	DIVERSIFIED	UNCLASSIFIED	39.630176	-80.487605	CARNEGIE	0	NA	NA	NA
004100000	NA	PILLAR ENERGY	DEVELOPMENT WELL-GAS	39.625803	-80.482478	TRUMAN SMITH	0	3/28/1955	1056	7696
007650000	NA	DIVERSIFIED	UNCLASSIFIED	39.620584	-80.479683	CARNEGIE	NA	NA	NA	NA
000390000	NA	UNKNOWN	UNCLASSIFIED	39.611163	-80.482324	MANUFACTURERS LIGHT AND HEAT	3245	11/24/1930	1315	3245
000410000	NA	UNKNOWN	DEVELOPMENT WELL-GAS	39.612613	-80.484574	PITTSBURG&WV GAS	NA	NA	1352	3352
008510000	9/25/1997	EQUITRANS	UNCLASSIFIED	39.612892	-80.490737	EQUITRANS LP	NA	NA	1309	NA
000270000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.614063	-80.490949	MANUFACTURERS LIGHT AND HEAT	0	1/1/1930	1250	2354
006880000	NA	DIVERSIFIED	UNCLASSIFIED	39.615223	-80.493387	HOPE NATURAL GAS	0	7/15/1914	NA	3378
021130000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.616383	-80.488700	DAC	0	10/3/2003	1203	3514
021120000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.620153	-80.489826	DAC	0	9/27/2005	1092	3330
021290000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.619573	-80.498451	DAC	0	10/17/2005	1339	3600
020330000	NA	DIVERSIFIED	DEVELOPMENT WELL-METHANE	39.624359	-80.498266	DYNATEC	0	10/10/2004	1221	1254
005910000	NA	F.M. CHISLER	UNCLASSIFIED	NA	NA	NA	0	NA	1240	NA
020390000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.629918	-80.497519	DAC	0	10/3/2004	1442	3679
019690000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.631368	-80.501494	DAC	0	8/27/2003	1433	3596
020380000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.640794	-80.496587	DAC	0	9/27/2004	1398	3653
025080000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.643681	-80.510907	DAC	0	8/10/2009	1381	3671
021780000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.660949	-80.517065	DAC	0	7/11/2006	1515	3609
022640000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.657469	-80.516877	DAC	0	9/19/2007	1349	3597
005700000	NA	UNKNOWN	DEVELOPMENT WELL-DRY	39.682869	-80.548096	JH WAGNER DRILLING	0	12/20/1965	1450	2774
026610000	NA	EQT PROD	DEVELOPMENT WELL-GAS	39.682842	-80.558489	GRENADIER ENERGY	0	11/25/2011	1493	7688
029270000	NA	EQT PROD	DEVELOPMENT WELL-GAS	39.682930	-80.547274	STATOIL	0	11/12/2014	1480	7623
029280000	NA	EQT PROD	DEVELOPMENT WELL-GAS	39.682890	-80.547273	STATOIL	0	11/13/2014	1480	7617
020310000	NA	CNX	UNSUCCESSFUL-METHANE	39.638183	-80.497523	DYNATEC	0	10/23/2004	1141	1485
029290000	NA	EQT PROD	DEVELOPMENT WELL-GAS	39.682881	-80.547272	STATOIL	0	11/15/2014	1480	7612

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TH: 2509' LON: 80-30-00'

GRID NORTH



A circular professional seal for Ben R. Singleton, a Licensed Professional Surveyor in the State of West Virginia. The seal features the name "Ben R. Singleton" at the top, "LICENSED" in the center, "NO. 2092" below it, "STATE OF" below that, and "WEST VIRGINIA" at the bottom. The words "PROFESSIONAL SURVEYOR" are written along the bottom inner edge of the seal. The seal is surrounded by a decorative border of small dots.

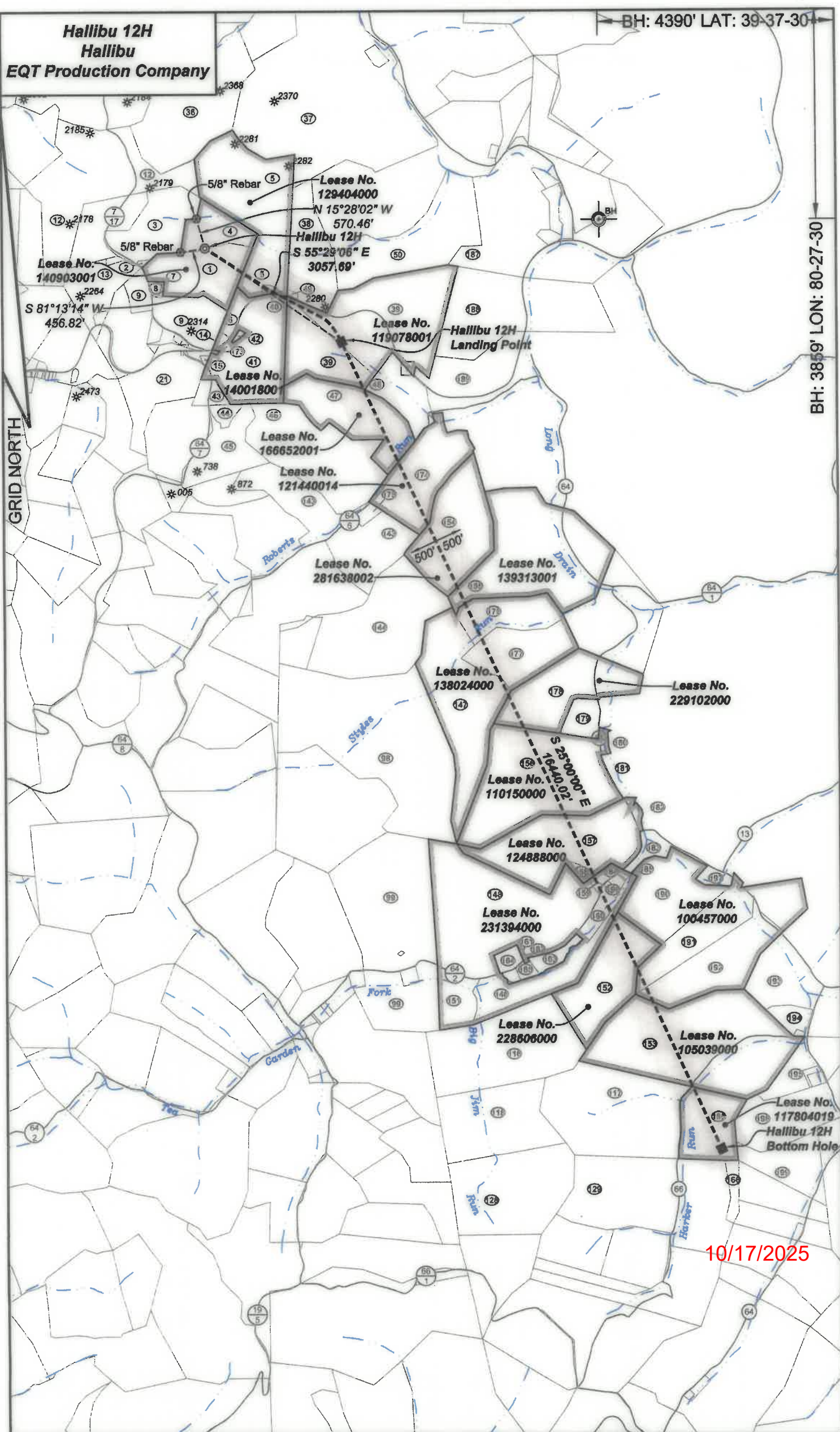
SEAL

Canonsburg, PA 15317

Clarksburg, WV 26301

GRID NORTH

BH: 3859' LON: 80-27-30-

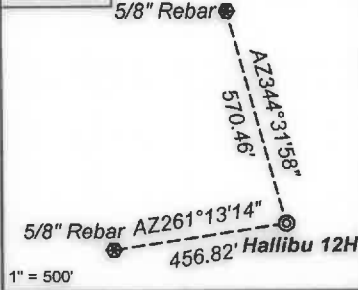


10/17/2025

Hallibu 12H
Hallibu
EQT Production Company

Tract I.D.	Tax/Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	10	3	Wetzel	Church	EQT Production Company	35.4
2	7	18.2	Wetzel	Clay	Grandview-Doolin PSD	0.38
3	7	18.1	Wetzel	Clay	Martha Mason & Carolyn Hamilton	30
4	6	21	Wetzel	Church	EQT Production Company	21
5	7	19	Wetzel	Clay	Robert M. Roberts	73.211
6	10	12.2	Wetzel	Church	Ralph Wright	5.18
7	10	2	Wetzel	Church	EQT Production Company	0.78
8	10	2.1	Wetzel	Church	Thomas E. Brown Life Estate	0.88
9	10	9	Wetzel	Church	Patricia C. Spangler	35
12	7	17	Wetzel	Clay	Robin L. Utt & Alisha Carole	90.5
13	10	1	Wetzel	Church	Drilling Appalachian Corp	24.6
14	10	12.1	Wetzel	Church	Patricia C. Spangler	0.5
15	10	10	Wetzel	Church	Harriet L. Tustin Life Estate	0.52
21	10	18.2	Wetzel	Church	Clay D. Smith	34.21
36	7	14	Wetzel	Clay	Ridgetop Appalachia LLC	85.25
37	7	12	Wetzel	Clay	Wilda M. Church & Peggy Brown	209.35
38	10	4	Wetzel	Church	Lela J. LeMasters	33.09
39	10	13	Wetzel	Church	Jeffery T. Longwell	106.5
40	7	19.1	Wetzel	Clay	Chase H. Sturm	0.799
41	10	12	Wetzel	Church	Harriet L. Tustin	56.32
42	10	11	Wetzel	Church	Eastview Cemetery	1.05
43	10	18	Wetzel	Church	Harriet L. Tustin	5.7
44	10	26.2	Wetzel	Church	Shelby C. Norris	3.739
45	10	26	Wetzel	Church	Robert B. & Rona V. Grimm	25.15
46	10	27	Wetzel	Church	Leona C. Roberts	47.1
47	10	20	Wetzel	Church	Catherine Roberts, et al.	50
48	10	21	Wetzel	Church	Charles L. Matthews	28
49	10	14	Wetzel	Church	Leann L. Sole & Penny L. Harris	0.5
50	10	5	Wetzel	Church	Bruce & Linda Garrison	61.5
98	14	4	Wetzel	Church	Eulalia Ruth Drennen	150
99	14	20	Wetzel	Church	Teagarden Family Trust	117.9
116	14	39	Wetzel	Church	Deborah Fronczek	85
117	18	8	Wetzel	Church	Artful Artesian LLC	80
118	18	7	Wetzel	Church	Deborah Fronczek	59
128	18	13	Wetzel	Church	Osli R. & James D. Summers	74.3
129	18	14	Wetzel	Church	Clint W. Jones	102.5
143	10	34	Wetzel	Church	Aaron Hoekje	41.25
144	10	52	Wetzel	Church	Eulalia Ruth Drennen	78.5
147	14	5	Wetzel	Church	Eulalia Ruth Drennen	67.25
148	14	22	Wetzel	Church	William & Eve Teagarden	155.32
151	14	22.7	Wetzel	Church	Deanne J. Smitzel	16.28
152	14	40	Wetzel	Church	Scott J. Six	50
153	14	41	Wetzel	Church	Artful Artesian LLC	121.9
154	10	36	Wetzel	Church	Donald Cosgray Estate	60.3
155	10	53	Wetzel	Church	Bradford M. & Shelly D. Brown	62
156	14	13	Wetzel	Church	Kenneth J. & Robert L. Barr	90.63
157	14	23	Wetzel	Church	Michael P. & Mary E. Gaho	99.5
158	14	25	Wetzel	Church	Richard D. Tennant	1.7
159	14	22.3	Wetzel	Church	Richard D. Tennant	0.64
160	14	22.9	Wetzel	Church	Richard D. Tennant	8.2
161	14	22.10	Wetzel	Church	Robert E. & Charlotte Marshall	0.43
162	14	22.8	Wetzel	Church	Robert E. & Charlotte Marshall	0.14
163	14	22.13	Wetzel	Church	Scott J. Six	5
164	14	22.11	Wetzel	Church	Robert E. & Charlotte Marshall	5.312
165	14	22.12	Wetzel	Church	William F. & Julie E. Jones	4
166	18	15	Wetzel	Church	Kenneth R. & Jennifer Mason	4.5
173	10	19	Wetzel	Church	Harriet L. Tustin	0.14
174	10	28	Wetzel	Church	Catherine Roberts, et al.	32.6
175	10	35	Wetzel	Church	Aaron Hoekje	3.08
176	10	53.1	Wetzel	Church	Eulalia Ruth Drennen	24.78
177	10	56	Wetzel	Church	Hundred Resources Inc.	35.5
178	14	6	Wetzel	Church	Hundred Resources Inc.	105.08
179	14	7.1	Wetzel	Church	Kenneth J. & Robert L. Barr	9.67
180	14	13.2	Wetzel	Church	Michael Cunningham, et al.	11.25
181	14	13.1	Wetzel	Church	Wayne D. & Rose M. Gail	4.12
182	14	14	Wetzel	Church	Harry E. Bruner	32.77
183	14	43	Wetzel	Church	Toby L. & Brittany A. Burley	10.13
184	14	22.8	Wetzel	Church	Richard D. Tennant	2.18
185	14	22.1	Wetzel	Church	Michael P. & Mary E. Gaho	0.508
186	18	9	Wetzel	Church	David W. Ritz, et al.	41.5
187	6	29	Wetzel	Church	Larry V. Watson, et al.	17.86
188	10	15	Wetzel	Church	Charles Miller	90
189	10	23	Wetzel	Church	John R. Rice	33
190	14	27	Wetzel	Church	William L. Pearce, et al.	42.2
191	14	29	Wetzel	Church	Cody G. Western	54
192	14	42	Wetzel	Church	Cheyenne Hansen	46.7
193	15	34.1	Wetzel	Church	John & Judy Teagarden	28.3
194	15	58	Wetzel	Church	Roger Teagarden	6.5
195	15	60	Wetzel	Church	Kathleen Whitecotton, et al.	22.91
196	14	22.2	Wetzel	Church	Jason M. & Jessica L. Mace	1.23
197	14	26	Wetzel	Church	William L. Pearce, et al.	3
198	15	61	Wetzel	Church	Marcella Ashcraft	68.5
199	19	8	Wetzel	Church	Kenneth R. & Jennifer Mason	36

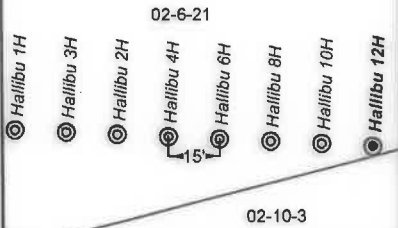
Well References



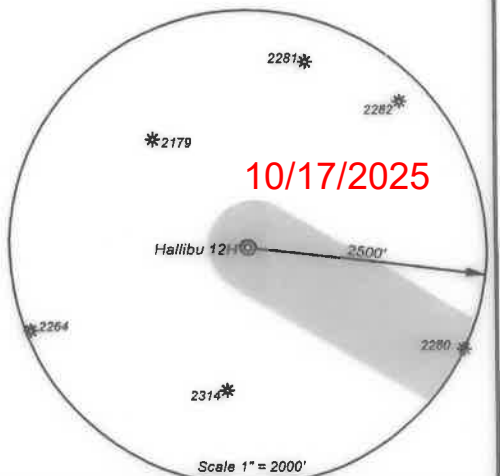
Notes:

Hallibu 12H coordinates are
NAD 27 N: 423,980.31 E: 1,716,107.77
NAD 27 Lat: 39.659696 Long: -80.508378
NAD 83 UTM N: 4,390,112.72 E: 542,189.09
Hallibu 12H Landing Point coordinates are
NAD 27 N: 422,247.72 E: 1,718,627.26
NAD 27 Lat: 39.655017 Long: -80.499361
NAD 83 UTM N: 4,389,597.70 E: 542,965.49
Hallibu 12H Bottom Hole coordinates are
NAD 27 N: 407,348.22 E: 1,725,575.76
NAD 27 Lat: 39.614322 Long: -80.474110
NAD 83 UTM N: 4,385,093.67 E: 545,158.05
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.

Hallibu



Lease No.	Owner	Acres
140903001	MCJV Holdings, LLC, et al.	455.90
129404000	Liberty Holding Company	74
140018001	Bounty Minerals, LLC, et al.	62 of 164.25
119078001	Jeffery Todd Longwell, et al.	106.5
166652001	AMP IV, LP, et al.	50
121440014	Charles L. Matthews, et al.	32.60
281638002	Michael Harold Sole, et al.	60.25
139313001	Ridgewood Development, LLC, et al.	100
138024000	Elemental Resources, LLC, et al.	128
229102000	AMP Fund III, LP, et al.	124
110150000	Acropolis Inc., et al.	90.63
124888000	Three Rivers Royalty II, LLC, et al.	80
231394000	Ridgetop Appalachia, LLC	201
228606000	Scott Jared Six	50
100457000	Black Gold Group, Ltd, et al.	224
105039000	Mindy H. McKibben, et al.	129
117804019	David W. Ritz, et al.	41.54375



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 list				

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Office of Oil and Gas

SEP 12 2025

WV Department of
Environmental Protection

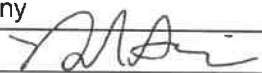
Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

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: Branden Weimer 

Its: Regional Manager - Permitting

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>MCJV Holdings, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>140903001</u>	John M. Hunt and Mary J. Hunt, husband and wife TH Exploration, LLC	455.90 ac	TH Exploration LLC EQT Production Company		OG 209A/757 & 219A/763 OG 258A/333
	<u>Liberty Holding Company</u>			"at least 1/8th per WV Code 22-6-8"	
<u>129404000</u>	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.	74 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 86A/286 OG 124A/9 OG 138A/1 OG 138A/54 OG 153A/695 OG 153A/640 OG 175A/707
	<u>Bounty Minerals, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>140018001</u>	Bounty Minerals, LLC American Petroleum Partners Operating, LLC TH Exploration, LLC	62 ac of 164.25 ac	American Petroleum Partners Operating, LLC TH Exploration, LLC EQT Production Company		OG 218A/762 OG 236A/357 OG 258A/333
	<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>AMP IV, LP, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>166652001</u>	AMP IV, LP	50 ac	EQT Production Company		OG 265A/540

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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>Charles L. Matthews, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>121440014</u>	Charles L. Matthews Antero Resources Corporation	32.60 ac	Antero Resources Corporation EQT Production Company		OG 205A/793 OG 231A/59
	<u>Michael Harold Sole, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>281638002</u>	Michael Harold Sole, dealing in their sole and separate property	60.25 ac	EQT Production Company		OG 410A/48
	<u>Ridgewood Development, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>139313001</u>	Mary A. Sole, et al. Carnegie Natural Gas Company Carnegie Production Company	100 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company		OG 12A/381 OG 78A/513 WVSOS
	<u>Elemental Resources, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>138024000</u>	G. W. Thomas Carnegie Natural Gas Company Carnegie Production Company	128 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company		OG 2A/214 OG 78A/513 WVSOS
	<u>AMP Fund III, LP, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>229102000</u>	S. S. Carney and Louisa Carney, Delmar Oil Company The Philadelphia Company of WV Pittsburgh & West Virginia Gas Company Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Columbia Natural Resources, LLC Chesapeake Appalachia, LLC StatoilHydro USA Onshore Properties Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC SWN Production Company, LLC	124 ac	Delmar Oil Company The Philadelphia Company of WV Pittsburgh & West Virginia Gas Company Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Columbia Natural Resources, LLC Chesapeake Appalachia, LLC StatoilHydro USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC Antero Exchange Properties LLC		DB 55/274 DB 60/198 OG 22A/352 DB 187/321 OG 64A/442 OG 72A/368 CB 12/622 DB 402/446 OG 97A/578 WVSOS OG 157A/540 OG 158A/801 CB 13/296 OG 177A/533

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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	Statoil USA Onshore Properties Inc. Antero Exchange Properties LLC Antero Resources Corporation		Antero Exchange Properties LLC Antero Resources Corporation EQT Production Company		OG 177A/738 CB 13/311 OG 324A/748
	<u>Acropolis Inc., et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>110150000</u>	Acropolis Inc. Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	90.63 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 82A/549 OG 118A/108 OG 138A/1 OG 138A/54 OG 153A/695 OG 153A/640 OG 175A/707
	<u>Three Rivers Royalty II, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>124888000</u>	W. H. Earnshaw and Bessie Earnshaw Carnegie Natural Gas Company Carnegie Production Company	80 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company		OG 2A/247 OG 78A/513 WVSOS
	<u>Ridgetop Appalachia, LLC</u>			"at least 1/8th per WV Code 22-6-8"	
<u>231394000</u>	Ridgetop Appalachia, LLC	201 ac	EQT Production Company		OG 333A/675
	<u>Scott Jared Six</u>			"at least 1/8th per WV Code 22-6-8"	
<u>228606000</u>	Scott Jared Six and Tammy Sue Six, husband and wife	50 ac	EQT Production Company		OG 325A/316
	<u>Black Gold Group, Ltd, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>100457000</u>	Mary E. Earnshaw and her husband, B. Earnshaw J. L. Newman The Philadelphia Company of WV Pittsburgh & West Virginia Gas Company Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Columbia Natural Resources, LLC Chesapeake Appalachia, LLC	224 ac	J. L. Newman The Philadelphia Company of WV Pittsburgh & West Virginia Gas Company Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Columbia Natural Resources, LLC Chesapeake Appalachia, LLC StatoilHydro USA Onshore Properties Inc.		DB 60/190 DB 60/178 OG 22A/352 DB 187/321 OG 64A/442 OG 72A/368 CB 12/622 DB 402/446 OG 97A/578

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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	StatoilHydro USA Onshore Properties Inc.		Statoil USA Onshore Properties Inc.		WVSOS
	Chesapeake Appalachia, LLC		SWN Production Company, LLC		OG 157A/540
	Statoil USA Onshore Properties Inc.		SWN Exchange Titleholder LLC		OG 158A/801
	SWN Exchange Titleholder LLC		SWN Production Company, LLC		CB 13/296
	SWN Production Company, LLC		Antero Exchange Properties LLC		OG 177A/533
	Statoil USA Onshore Properties Inc.		Antero Exchange Properties LLC		OG 177A/738
	Antero Exchange Properties LLC		Antero Resources Corporation		CB 13/311
	Antero Resources Corporation		EQT Production Company		OG 231A/59
				"at least 1/8th per WV Code 22-6-8"	
<u>105039000</u>	<u>Mindy H. McKibben, et al.</u> Rosetta Earnshaw Carnegie Natural Gas Company Carnegie Production Company	129 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company		OG 12A/360 OG 78A/513 WVSOS
				"at least 1/8th per WV Code 22-6-8"	
<u>117804019</u>	<u>David W. Ritz, et al.</u> David W. Ritz and Amy E. Constantine, husband and wife Antero Resources Corporation	41.54375 ac	Antero Resources Corporation EQT Production Company		OG 206A/327 OG 324A/748

Force Pool Tract(s) Within Lease Boundaries

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MEMORANDUM OF OIL AND GAS LEASE

STATE OF WEST VIRGINIA §
COUNTY OF MARION §

LESSOR: Piney Holdings, Inc., a West Virginia corporation
LESSOR'S ADDRESS: 67 Mountain Park Drive
 Fairmont, WV 26554
LESSEE: EQT Production Company, a Pennsylvania corporation
LESSEE'S ADDRESS: 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222
DATE EXECUTED: April 15, 2025
EFFECTIVE DATE OF
LEASE: April 15, 2025

Pursuant to and in accordance with West Virginia Code § 40-1-8, this MEMORANDUM OF OIL AND GAS LEASE is hereby recorded in lieu of the Oil and Gas Lease between the parties hereto **covering those strata and formations lying from the top of the Rhinestreet Shale, down to and including 100 feet below the base of the Marcellus Shale and into the Onondaga Formation.** For clarification, this exception and reservation of rights does not include the geological formation commonly known as the Marcellus Shale, which is the basal formation in the geological formation commonly known as the Hamilton Group, and is generally located below the bottom of the geological formation commonly known as the Tully Limestone. For adequate consideration, Lessor named above, has granted, leased and let to Lessee, named above, for the purpose of investigating, exploring, prospecting, drilling and mining for and producing all of the oil, gas, natural gas liquids (NGL), and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to enter thereon at all times for the purpose of drilling and operating for oil, gas, and water, laying pipelines, setting meters, erecting tanks, installing electric power and telephone facilities, machinery, and structures, and to possess, use and occupy so much of said premises as is necessary and convenient for said purposes and to convey the above named products therefrom or thereto by pipelines or otherwise; also Lessee may use methods and techniques which are not restricted to current technology including the right to conduct geophysical and other exploratory tests; said land being situate in **Church District, Wetzel County, State of West Virginia, Tax Map No. 02-10-45 & 02-10-60** and described as follows, to wit:

And is bounded formerly or currently as follows:

- On the North by lands of: Aaron Hoekje & Andrea Tardivo
- On the East by lands of: Donalt Cosgray Est.
- On the South by lands of: Eulalia R. Drennen
- On the West by lands of: Charles W. Duncil

Said lands and interest being acquired from **Hayhurst Company, a Florida general partnership** by deed dated **October 18, 2010**, and recorded in said County records in Deed Book **423** at Page **860** and and described for the purposes of this agreement as containing a total of Sixty-Four and Ninety-Two One Hundredths (**64.92**) acres, whether actually more or less ("Premises"). Notwithstanding this tax map designation, this lease shall be effective as to the tract actually owned by Lessor whether or not the tax map designation correctly identifies the location of the tract.)

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Accepted for filing
10/17/2025

The Lease is for a primary term of 5 years from the Effective date stated above, and/or as long thereafter as the Premises or lands pooled or unitized therewith are (i) operated in the search for, drilling for, or production of oil or gas, or (ii) shut-in payments are made.

If at any time within the primary term of this lease or any continuation thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease (top lease) covering all or part of the aforescribed lands, Lessee shall have the continuing option by meeting any such offer to acquire such top lease. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royalty consideration to be paid for such lease and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the top lease. Lessee shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lease with Lessor on equivalent terms and conditions. If Lessee fails to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any top lease granted by Lessor in violation of this provision shall be null and void.

The Lease, with all of its terms, covenants and other provisions, is referred to and incorporated into this Memorandum for all purposes. This Memorandum is placed of record for the purpose of giving notice of the Lease.

IN TESTIMONY WHEREOF, the parties executed this lease as of the date first written above.

LESSOR:
PINEY HOLDINGS, INC.



By: Christine Hayhurst Davis
Its: President

LESSEE:
EQT Production Company



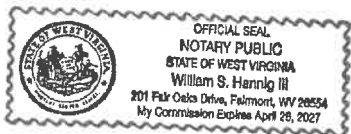
By: Corey C. Peck
Its: Vice President of Land

ACKNOWLEDGEMENTS

STATE OF **WEST VIRGINIA** :
COUNTY OF Marion :

On this the 15 day of April, 2025, before me, the undersigned authority, personally appeared Christine Hayhurst Davis, who acknowledged herself to be the President of **Piney Holdings, Inc.**, and that she as such President, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by herself as President.

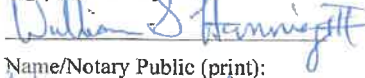
IN WITNESS WHEREOF, I hereunto set my hand and official seal.



My Commission Expires:

April 26, 2027

Signature/Notary Public:



Name/Notary Public (print):

William S. Hannig III

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Office of Oil and Gas
Bureau of Geological and Environmental Protection

10/17/2025

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Nashington :

On this the 20th day of August, 2025, before me, the undersigned authority, personally appeared **Corey C. Peck**, who acknowledged himself to be the Vice President of Land of EQT Production Company, and that he as such Vice President of Land of EQT Production Company, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as Vice President of Land of EQT Production Company.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

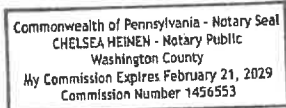
My Commission Expires:

2/21/29

Signature/Notary Public:

Name/Notary Public (print):

Chelsea Heinen



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ENVIRONMENTAL PROTECTION

This Memorandum of Oil and Gas Lease was prepared by and should be returned to:
EQT Production Company, 400 Woodcliff Drive, Canonsburg, PA 15317



EQT Production Company
2200 Energy Drive | Canonsburg, PA 15317

September 3, 2025

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

Re: Hallibu 12H

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.

Sincerely,

Kristen Brooks
EQT Production Company

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Halibu 12H
EQT Production Company
"Lease No. 021021 Adendum"

Lease No.
119078001

Lease No.
021021

Lease No.
166652001

Proposed Well Bore

16.48'



Scale: 1 Inch = 10 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

RESEARCH: NA

SURVEYED: NA

FIELD CREW: NA

DRAWING NO: 12H Adendum
Lease 021021.dwg

PROJECT NO: 58-34-C-22

PREPARED: July 01, 2025

DRAWN BY: Tim Rutledge

Sheet 1 of 1

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Halibu 12H
EQT Production Company
"Lease No. 117804010 Adendum"

Lease No.
105039000

Proposed Well Bore

23.21'

Lease No.
117804010



Scale: 1 Inch = 10 Feet

Lease No.
117804019

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

RESEARCH: NA

SURVEYED: NA

FIELD CREW: NA

DRAWING NO: 12H Adendum
Lease 117804010.dwg

PROJECT NO: 58-34-C-22

PREPARED: July 01, 2025

DRAWN BY: Tim Rutledge

Sheet 1 of 1

SEP 12 2025

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W. J. RUTLEDGE
REGISTERED PROFESSIONAL SURVEYOR

Hallibu 12H
EQT Production Company
"Lease No. 114399000 Addendum"

Lease No.
129404000

Lease No.
114399000

Lease No.
140018001

2.95'

Proposed Well Bore



Scale: 1 Inch = 10 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

RESEARCH: NA

SURVEYED: NA

FIELD CREW: NA

DRAWING NO: 12H Addendum
Lease 114399000.dwg

PROJECT NO: 58-34-C-22

PREPARED: November 26, 2024

DRAWN BY: Tim Rutledge

Sheet 1 of 1

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Lease No.
119078001

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>021021</u>	<u>Charles L. Mathews</u> Charles L. Mathews, herein dealing in his sole and separate property	28 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 419A/351
<u>117804010</u>	<u>Three Rivers Royalty II, LLC, et al.</u> Three Rivers Royalty II, LLC	121.87 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 208A/344
<u>114399000</u>	<u>Eric K. Yost, et al.</u> Kimeric & Company Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	33 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	"at least 1/8th per WV Code 22-6-8"	OG 88A/698 OG 124A/9 OG 138A/1 OG 138A/54 OG 153A/695 OG 153A/640 OG 175A/707

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