



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 8, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
2200 ENERGY DRIVE

CANONSBURG , PA 15317

Re: Permit Modification Approval for HALLIBU 4H
47-103-03704-00-00

Extended lateral

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: HALLIBU 4H
Farm Name: EQT PRODUCTION COMPANY
U.S. WELL NUMBER: 47-103-03704-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/8/2025

Promoting a healthy environment.

10/10/2025

Ch# 609656
2500 00

WW-6B
(04/15)

API NO. 47- 103 - 03704
OPERATOR WELL NO. 4H
Well Pad Name: Hallibu

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

1) Well Operator: EQT Production Company

306686WetzelClayLittleton

Operator IDCountyDistrictQuadrangle

2) Operator's Well Number: 4HWell 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: 7,571'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26,464'

11) Proposed Horizontal Leg Length: 17,809'

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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WV Department of
Environmental Protection

Stephen Mccoy
Page 1 of 3
Digitally signed by Stephen Mccoy
Date: 2025.07.08 07:52:44 -04'00'

10/10/2025

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	26464	26464	600' 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							

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PACKERS

Kind:				WV Department of Environmental Protection
Sizes:				
Depths Set:				

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill 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.

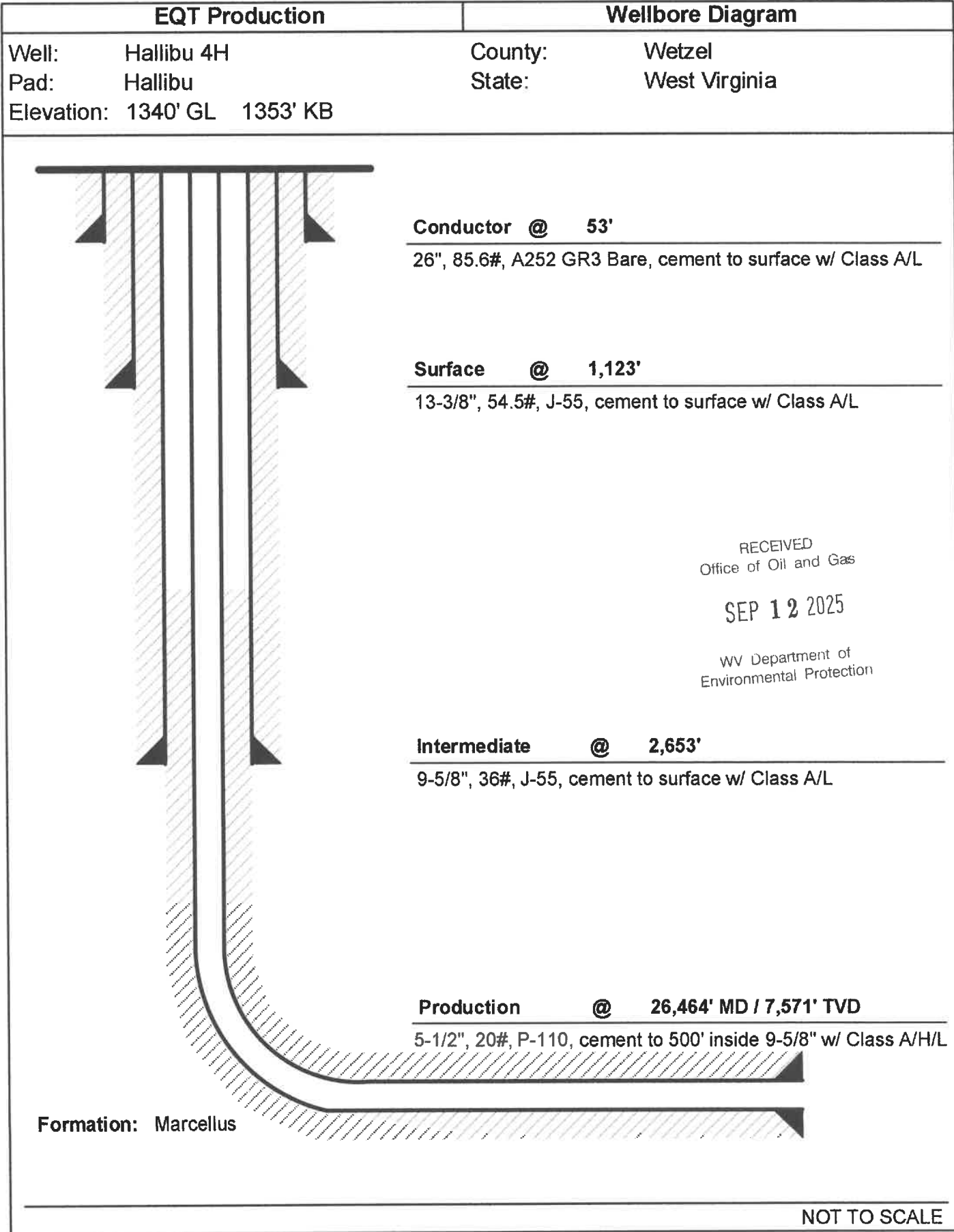
24) Describe all cement additives associated with each cement type:

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.

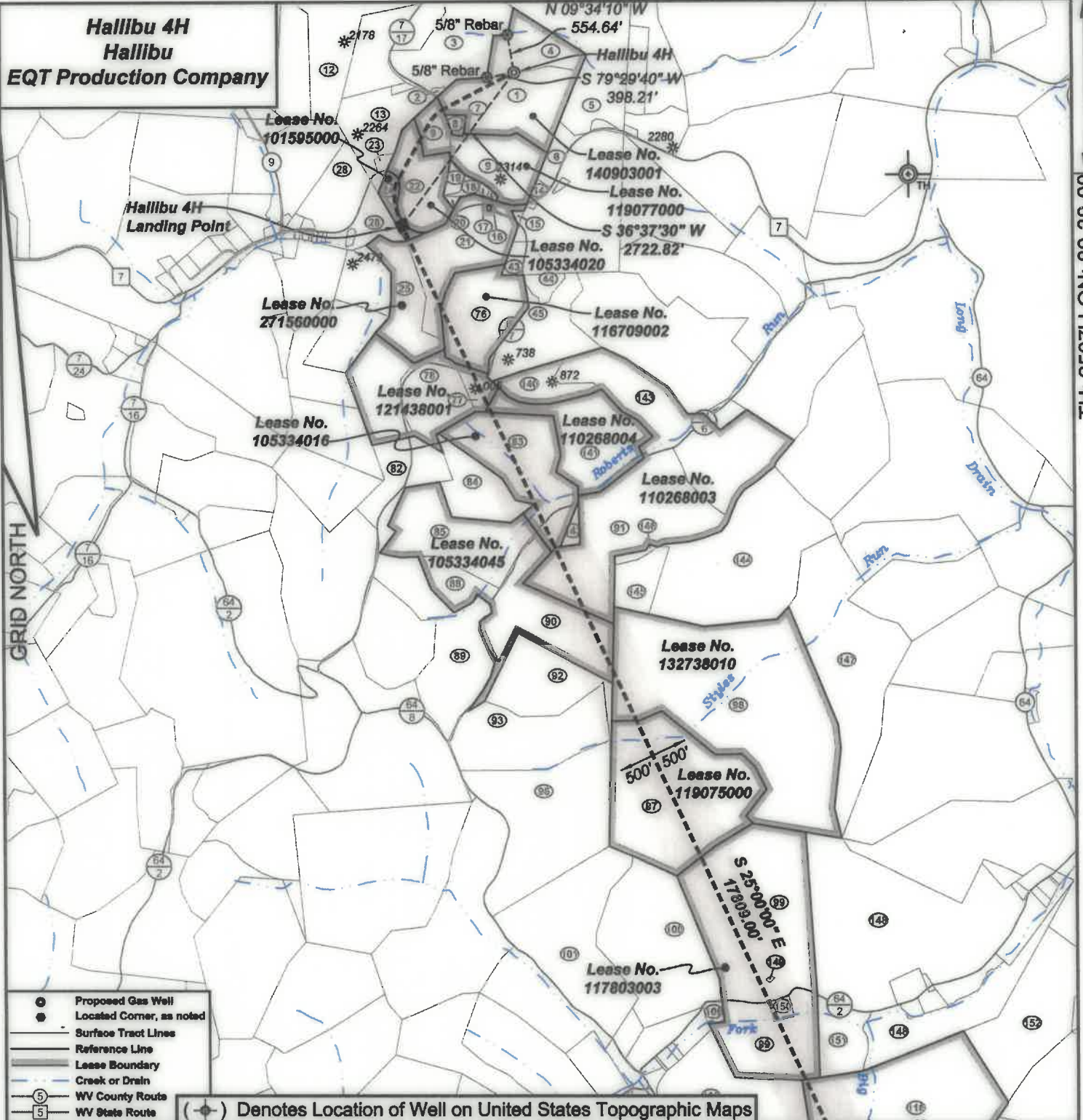


HALLIBU OFFSET WELL LIST										
UWI	ABAND_DATE	CURRENT OPERATOR	FNL_CLASS	LATITUDE	LONGITUDE	OPER_NAME	PROJ_TD	SPUD_DATE	ELEVATION	TOT_DEPTH
021790000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.662835	-80.511812	DAC	0	7/20/2006	1397	3609
022800000	NA	DIVERSIFIED	DEVELOPMENT WELL-GAS	39.656890	-80.500180	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: 2364' LAT: 39-40-00

TH: 2507' LON: 80-30-00



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: 58-22

DRAWING NO: Hallibu 4H

SCALE: 1" = 2000'

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: August 21 20 25

OPERATOR'S WELL NO.: Hallibu 4H

API WELL NO

47 - 103 - 03704
STATE COUNTY PERMITWELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1340' WATERSHED Shriver Run of Long Drain QUADRANGLE: Littleton

DISTRICT: Clay COUNTY: Wetzel

10/10/2025

SURFACE OWNER: EQT Production Company

ACREAGE: 21

ROYALTY OWNER: MCJV Holdings, LLC, et al.

LEASE NO: 140903001

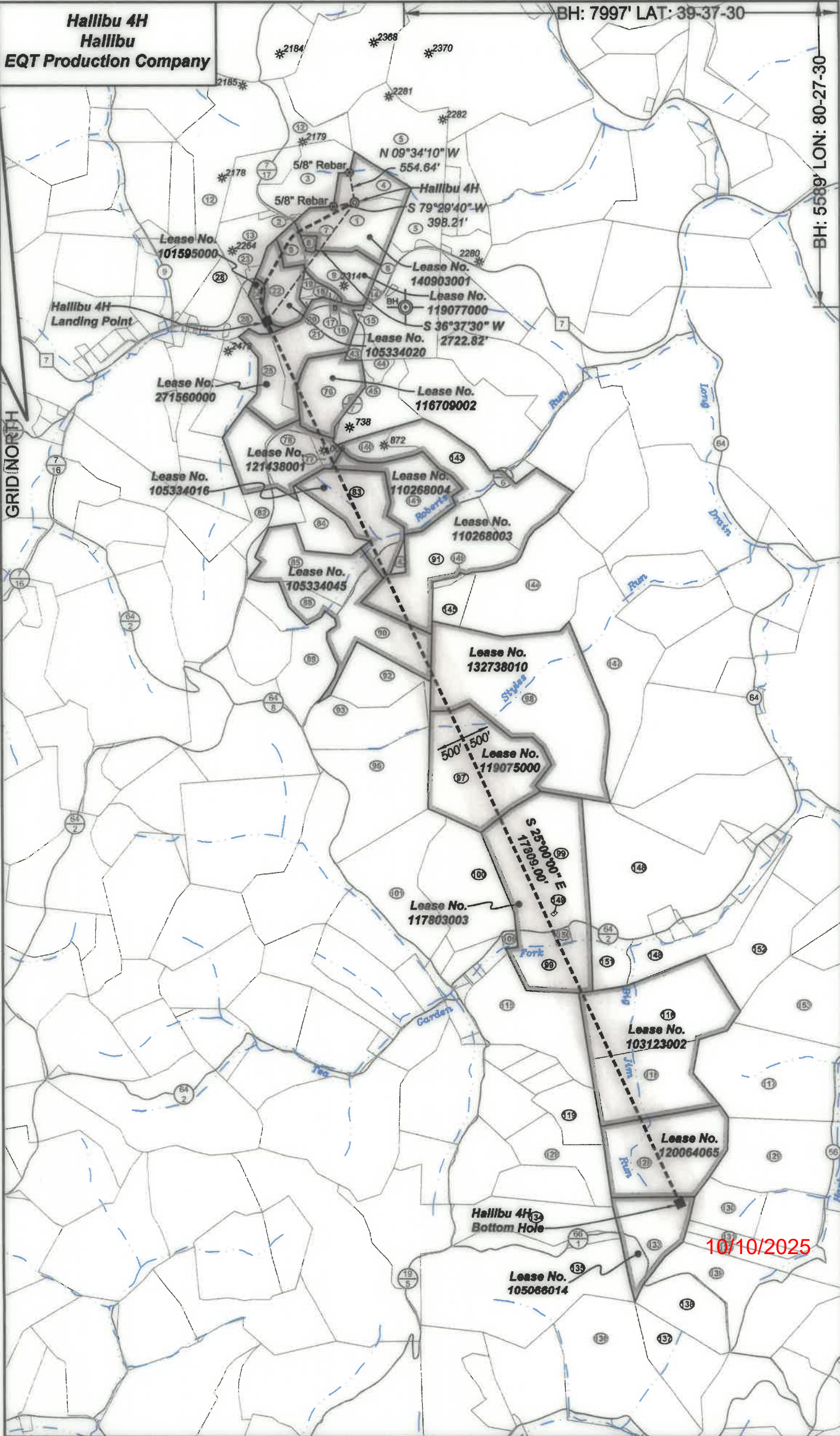
ACREAGE: 455.90

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: 7571'

WELL OPERATOR: EQT Production Company

DESIGNATED AGENT: Joseph C. Mallow

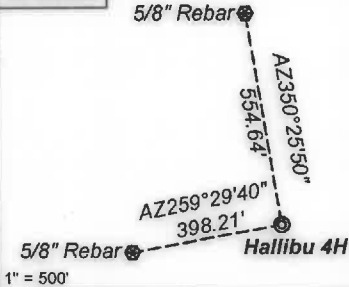
ADDRESS: 400 Woodcliff Drive
Canonsburg, PA 15317ADDRESS: 427 Midstate Drive
Clarksburg, WV 26301



Hallibu 4H
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	36.4
2	7	18.2	Wetzel	Clay	Grandview-Doolin PSD	0.38
3	7	18.1	Wetzel	Clay	Martha Messon & Carolyn Hankton	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	24.8
14	10	12.1	Wetzel	Church	Patricia C. Spangler	0.5
15	10	10	Wetzel	Church	Harriet L. Tustin Life Estate	0.52
16	10	9.5	Wetzel	Church	John Rice	0.25
17	10	9.3	Wetzel	Church	John Rice	0.25
18	10	9.1	Wetzel	Church	John Rice	2.22
19	10	9.2	Wetzel	Church	John Rice	1.28
20	10	9.4	Wetzel	Church	Gahrig Cosgray	0.5
21	10	18.2	Wetzel	Church	Clay D. Smith	34.21
22	10	1.1	Wetzel	Church	Gahrig Cosgray	19.25
23	10	1.4	Wetzel	Church	Kenneth R. & Jennifer L. Messon	1.08
24	10	1.2	Wetzel	Church	Jack D. & Linda Cosgray	4
25	10	18.1	Wetzel	Church	Clay D. Smith	22.92
26	9	8	Wetzel	Church	Mark Ransom	43.3
27	9	8.1	Wetzel	Church	Aemon A. & Flora J. Burley	18
28	12	43	Wetzel	Center	Jack D. & Linda Cosgray	27.289
29	12	43.1	Wetzel	Center	Timmy R. & Tamra J. Sapp	0.25
30	9	19	Wetzel	Church	Sharon Goddard	Lot 6
31	9	1.1	Wetzel	Church	Irene P. Kyle	0.461
32	12	41	Wetzel	Center	Irene P. Kyle	1.13
33	6	27	Wetzel	Clay	John D. Whitehill Life Estate	35.75
34	12	24.3	Wetzel	Center	Matthew L. Kennedy	4.61
35	12	24	Wetzel	Center	Matthew L. Kennedy	87.87
43	10	18	Wetzel	Church	Harriet L. Tustin	5.7
44	10	26.2	Wetzel	Church	Shelby C. Norris	3.739
45	10	28	Wetzel	Church	Robert B. & Rona V. Grimm	25.15
76	10	26.1	Wetzel	Church	Robert & Rona Grimm	30.75
77	10	32	Wetzel	Church	Sheridan L. Taylor	5.75
78	10	31	Wetzel	Church	Sheridan L. Taylor	25
82	10	43.1	Wetzel	Church	Calvin C. & Carol S. Cecil	18.5
83	10	44	Wetzel	Church	Charles W. Duncil	53
84	10	43	Wetzel	Church	Charles W. Duncil	20
85	10	48	Wetzel	Church	Norman C. Cosgray	41.5
88	10	47	Wetzel	Church	Bertha Cosgray	10.6
89	14	2	Wetzel	Church	Charles W. Duncil	28
90	10	49	Wetzel	Church	Lorrie D. Cosgray	39.5
91	10	51	Wetzel	Church	Joe & Mary Joann Sockman	46.5
92	14	3	Wetzel	Church	Martha Shifflet	30
93	14	10	Wetzel	Church	Patricia C. Spangler	41.7
96	14	44	Wetzel	Church	Joseph C. & Nancy S. Swihart	88.77
97	14	12	Wetzel	Church	Eulalia Ruth Drennen	80.5
98	14	4	Wetzel	Church	Eulalia Ruth Drennen	150
99	14	20	Wetzel	Church	Teagarden Family Trust	117.9
100	14	19	Wetzel	Church	Jack L. Orinfield Jr., et al.	72.82
101	14	18	Wetzel	Church	Brian Erin Miller	61.25
106	14	19.3	Wetzel	Church	Nathan M. Zirkle	1.8
115	14	19.2	Wetzel	Church	Jack L. Orinfield Jr., et al.	58
116	14	38	Wetzel	Church	Deborah Fronczek	85
117	18	8	Wetzel	Church	Artful Artesian LLC	80
118	18	7	Wetzel	Church	Deborah Fronczek	59
119	18	6	Wetzel	Church	Mark R. Vincent II	23.5
126	18	12	Wetzel	Church	Cecil R. & James D. Summers	32.5
128	18	13	Wetzel	Church	Cecil R. & James D. Summers	74.3
129	18	14	Wetzel	Church	Clint W. Jones	102.5
130	18	20	Wetzel	Church	William E. Mullett	23.3
131	18	22	Wetzel	Church	Kenneth E. Yost, et al.	11.5
132	18	24	Wetzel	Church	Linda L. Shadden	48.03
133	18	19	Wetzel	Church	Harold C. Richmond	45.12
134	18	17	Wetzel	Church	Cecil Summers	57.3
135	5	1	Wetzel	Grant	Raccoon Run Properties LLC	370.01
136	10	5	Wetzel	Grant	Janet Marie Park	99.94
137	10	8	Wetzel	Grant	Janet Marie Park	37
138	10	7	Wetzel	Grant	Janet Marie Park	38
139	18	25	Wetzel	Church	Bryant M. Nicholas	88
140	10	33	Wetzel	Church	Aaron Hoekje	13.4
141	10	45	Wetzel	Church	Aaron Hoekje	37.55
142	10	44.1	Wetzel	Church	Joe & Mary Joann Sockman	2
143	10	34	Wetzel	Church	Aaron Hoekje	41.25
144	10	52	Wetzel	Church	Eulalia Ruth Drennen	78.5
145	10	50	Wetzel	Church	Eulalia Ruth Drennen	10.9
146	10	50.1	Wetzel	Church	Joe & Mary Joann Sockman	2
147	14	5	Wetzel	Church	Eulalia Ruth Drennen	67.25
148	14	22	Wetzel	Church	William & Elva Teagarden	155.32
149	14	21	Wetzel	Church	Teagarden Cemetery	NA
150	14	20.1	Wetzel	Church	Teagarden Family Trust	2.068
151	14	22.7	Wetzel	Church	Deanna J. Smiltzel	16.28
152	14	40	Wetzel	Church	Scott J. Six	50
153	14	1	Wetzel	Church	Artful Artesian LLC	121.9

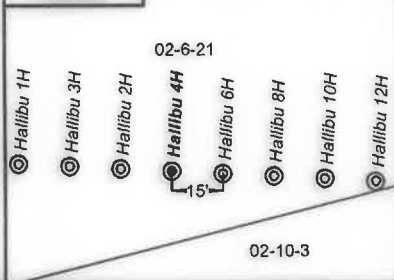
Well References



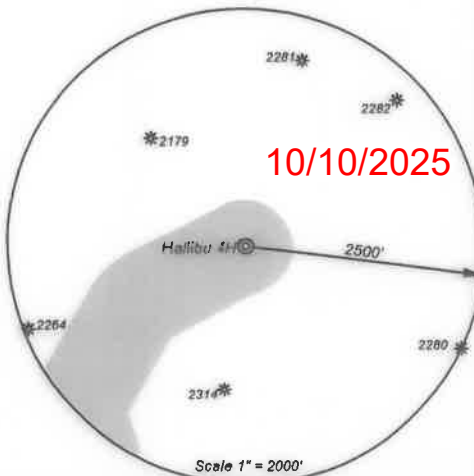
Notes:

Hallibu 4H coordinates are
NAD 27 N: 423,983.20 E: 1,716,047.84
NAD 27 Lat: 39.659702 Long: -80.508591
NAD 83 UTM N: 4,390,113.30 E: 542,170.82
Hallibu 4H Landing Point coordinates are
NAD 27 N: 421,798.04 E: 1,714,423.61
NAD 27 Lat: 39.653653 Long: -80.514272
NAD 83 UTM N: 4,389,439.28 E: 541,687.06
Hallibu 4H Bottom Hole coordinates are
NAD 27 N: 405,657.69 E: 1,721,950.61
NAD 27 Lat: 39.609573 Long: -80.488911
NAD 83 UTM N: 4,384,580.21 E: 544,062.18
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
119077000	Patricia C. Spangler	35
105334020	Date Palm Resources, LLC, et al.	19.25 of 376.53
101595000	Nancy Dawn Cosgray, et al.	4 of 173.77554
271560000	Clay D. Smith	59.3
116709002	Patricia C. Spangler	30.75 of 278.75
121438001	Rosa Lea Krebs, et al.	64
110268004	Piney Holdings, Inc., et al.	64.92
105334016	Keith David Duncil, et al.	103.0875
110268003	Piney Holdings, Inc., et al.	93.15
105334045	Rex A. Rush, et al.	91.6 of 196.30
132738010	Five Star Resources, LLC, et al.	150
119075000	Stone Hill Minerals Holdings, LLC	80.5
117803003	Three Rivers Royalty II, LLC, et al.	120
103123002	Diamond Energy Acquisition Group, LLC, et al.	144
120064065	Piney Holdings, Inc., et al.	74.143375
105066014	William T. Dent, et al.	45.125



**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
-------------------------	-----------------------	-----------------------	---------	-----------

**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: _____
By: _____
Its: _____



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>Patricia C. Spangler</u>			"at least 1/8th per WV Code 22-6-8"	
<u>119077000</u>	Patricia Spangler Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	35 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 89A/227 OG 124A/9 OG 138A/1 OG 138A/54 OG 153A/695 OG 153A/640 OG 175A/707
	<u>Date Palm Resources, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>105334020</u>	Jack David Cosgray and Linda Cosgray, his wife Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	19.25 ac of 376.53	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 106A/530 OG 108A/762 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>101595000</u>	Nancy Dawn Cosgray, a single woman Antero Resources Corporation	4 ac of 173.77554 ac	Antero Resources Corporation EQT Production Company		OG 206A/905 OG 231A/59

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>Clay D. Smith</u>			"at least 1/8th per WV Code 22-6-8"	
<u>271560000</u>	Clay D. Smith	59.30 ac	EQT Production Company		OG 397A/869
	<u>Patricia C. Spangler</u>			"at least 1/8th per WV Code 22-6-8"	
<u>116709002</u>	Patricia Spangler	30.75 ac of 278.75 ac	Antero Resources Corporation		OG 191A/47
	Antero Resources Corporation		EQT Production Company		OG 231A/59
	<u>Rosa Lea Krebs, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>121438001</u>	S.S. Main	64 ac	The Wheeling Natural Gas Company		DB 107/107
	Wheeling Natural Gas Company		The Manufacturers Light & Heat Company		OG 9A/138
	Wheeling Natural Gas Company		The Manufacturers Light & Heat Company		DB 206/208
	Manufacturers Light and Heat Company		Columbia Gas Transmission Corp		DB 263/164
	Columbia Gas Transmission Corp		Columbia Natural Resources, LLC.		OG 72A/368
	Columbia Natural Resources, LLC		Chesapeake Appalachia, LLC		DB 402/446
	Chesapeake Appalachia, LLC		Statoilhydro USA Onshore Properties, Inc.		OG 97A/578
	Chesapeake Appalachia, LLC		SWN Production Company		OG 157A/540
	Statoilhydro USA Onshore Properties, Inc.		Statoil USA Onshore Properties, Inc.		WV SOS
	Statoil USA Onshore Properties, Inc.		SWN Exchange Titleholder, LLC		OG 158A/801
	Statoil USA Onshore Properties, Inc.		Antero Exchange Properties, LLC.		OG 177A/738
	SWN Exchange Titleholder, LLC		SWN Production Company		CB 13/296
	SWN Production Company		Antero Exchange Properties, LLC.		OG 177A/533
	Antero Exchange Properties, LLC.		Antero Resources Corporation		CB 13/311
	Antero Resources Corporation		EQT Production Company		OG 231A/59
	Antero Resources Corporation		EQT Production Company		OG 231A/158
	<u>Piney Holdings, Inc., et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>110268004</u>	Piney Holdings, Inc.	64.92 ac	EQT Production Company		Memorandum of Oil and Gas Lease dated April 15, 2025
	<u>Keith David Duncil, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>105334016</u>	Keith David Duncil	103.0875 ac	Antero Resources Corporation		OG 200A/237
	Antero Resources Corporation		EQT Production Company		OG 231A/59

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>Piney Holdings, Inc. et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>110268003</u>	Piney Holdings, Inc. Antero Resources Corporation	93.15 ac	Antero Resources Corporation EQT Production Company		OG 277A/151 OG 324A/748
	<u>Rex A. Rush, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>105334045</u>	Madolin Rush Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc., et al	91.6 ac of 196.30 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC 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 88A/182 OG 124A/9 OG 136A/538 OG 138/1 OG 138A/54 OG 153A/640 OG 153A/695 OG 175A/707
	<u>Five Star Resources, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>132738010</u>	Five Star Resources, LLC	150 ac	EQT Production Company		OG 309A/173
	<u>Stone Hill Minerals Holdings, LLC</u>			"at least 1/8th per WV Code 22-6-8"	
<u>119075000</u>	Lucille L. Haines Sharon H. Kerr Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	80.5 ac	Drilling Appalachian Corporation 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 79A/532 OG 136A/396 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>117803003</u>	Three Rivers Royalty II, LLC.	120 ac	EQT Production Company		OG 227A/148

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>Diamond Energy Acquisition Group, LLC, et al</u>			"at least 1/8th per WV Code 22-6-8"	
<u>103123002</u>	Garrett Dale Pethel	144 ac	Drilling Appalachian Corporation		OG 83A/655
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 118A/108
	Garrett Dale Pethel		Drilling Appalachian Corporation		OG 122A/434
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 153A/695
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 153A/640
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707
	<u>Piney Holdings, Inc., et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>120064065</u>	Piney Holdings, Inc.	74.143375 ac	EQT Production Company		OG 416A/76
	<u>William T. Dent, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>105066014</u>	William T. Dent and Roberta E. Dent	45.125 ac	Antero Resources Corporation		OG 181A/671
	Antero Resources Corporation		EQT Production Company		OG 231A/59

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>Keith David Duncil, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>105334008</u>	Keith David Duncil	20 ac of 213.3ac	Drilling Appalachian Corporation		OG 88A/146
	Keith David Duncil		Drilling Appalachian Corporation		OG 100A/730
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 124A/9
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 136A/538
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 128A/285
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 138/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 138A/54
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 153A/640
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 153A/695
	Statoil USA Onshore Properties, Inc., et al		EQT Production Company		OG 175A/707
	<u>Master Mineral Holdings I, LP, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>105334020</u>	Jack David Cosgray and Linda Cosgray, his wife	29.23 ac of 376.53	Drilling Appalachian Corporation		OG 106A/530
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 108A/762
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 153A/695
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 153A/640
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707

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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10/10/2025

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.

Christine Hayhurst Davis

By: Christine Hayhurst Davis
Its: President

LESSEE:
EQT Production Company

Corey C. Peck

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

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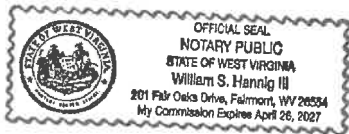
WV Department of
Environmental Protection

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:
William S. Hannig III

Name/Notary Public (print):
William S. Hannig III

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:

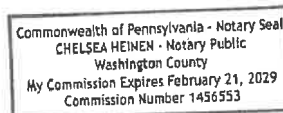
2/21/29

Signature/Notary Public:

[Signature]

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 4H

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,

A handwritten signature in blue ink that reads "Kristen Brooks".

Kristen Brooks
EQT Production Company

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10/10/2025

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
				"at least 1/8th per WV Code 22-6-8"	
<u>105334008</u>	<u>Keith David Duncil, et al.</u>				
	Keith David Duncil	20 ac of 213.3ac	Drilling Appalachian Corporation		OG 88A/146
	Keith David Duncil		Drilling Appalachian Corporation		OG 100A/730
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 124A/9
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 136A/538
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 128A/285
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 138/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 138A/54
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 153A/640
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 153A/695
	Statoil USA Onshore Properties, Inc., et al		EQT Production Company		OG 175A/707
				"at least 1/8th per WV Code 22-6-8"	
<u>105334020</u>	<u>Master Mineral Holdings I, LP, et al.</u>				
		29.23 ac of			
	Jack David Cosgray and Linda Cosgray, his wife	376.53	Drilling Appalachian Corporation		OG 106A/530
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 108A/762
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 153A/695
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 153A/640
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707

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Halibu 4H
EQT Production Company
"Lease No. 105334020 Adendum"

Lease No.
105334020

Lease No.
101595000

41.92'

Proposed Well Bore

Lease No.
271560000



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

Sheet 1 of 1

DRAWING NO: 4H Adendum
Lease 105334020.dwg
PROJECT NO: 58-34-C-22
PREPARED: July 01, 2025
DRAWN BY: Tim Rutledge

WV Department of
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Halibu 4H
EQT Production Company
"Lease No. 105334008 Adendum"



Lease No.
105334008

Lease No.
10533016

Proposed Well Bore

1.69'



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: 4H Adendum Lease 105334008.dwg
RESEARCH: NA	PROJECT NO: 58-34-C-22
SURVEYED: NA	PREPARED: July 01, 2025
FIELD CREW: NA	DRAWN BY: Tim Rutledge
Sheet 1 of 1	

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 WV Department of
 Environmental Protection