



west virginia department of environmental protection

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

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

Friday, September 19, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
400 WOODCLIFF DR.
CANONSBURG PA 15317

Re: Permit Modification Approval for HALLIBU 3H
47-103-03703-00-00

Extending 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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: HALLIBU 3H
Farm Name: EQT PRODUCTION COMPANY
U.S. WELL NUMBER: 47-103-03703-00-00
Horizontal 6A New Drill
Date Modification Issued: 9/19/2025

Promoting a healthy environment.

09/19/2025

\$2,500 ck# 0000609792
\$5,000 ck# 0000609687

WW-6B
(04/15)

API NO. 47- 103 - 03703
OPERATOR WELL NO. 3H
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 306686 Wetzel Clay Littleton
Operator ID County District Quadrangle
- 2) Operator's Well Number: 3H Well Pad Name: Hallibu
- 3) Farm Name/Surface Owner: EQT Production Company Public Road Access: CR 7/17
- 4) Elevation, current ground: 1340' Elevation, proposed post-construction: 1340'
- 5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow X Deep _____
Horizontal X
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,571', 52', 2,620 psi
- 8) Proposed Total Vertical Depth: 7,571'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 22,095'
- 11) Proposed Horizontal Leg Length: 13,924'
- 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? Yes _____ No X

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

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Stephen Mccoy

09/19/2025

WW-6B
(10/14)

API NO. 47- 103 - 03703
OPERATOR WELL NO. 3H
Well Pad Name: Hatlibu

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): 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.

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Stephen Mccoy

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09/19/2025

WW-6B
(04/15)

API NO. 47- 103 - 03703

OPERATOR WELL NO. 3H

Well Pad Name: Hallibu

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 OR 3 Bars	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	22095	22095	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

Kind:				
Sizes:				RECEIVED Office of Oil and Gas
Depths Set:				AUG 28 2025

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Stephen
Mccoy

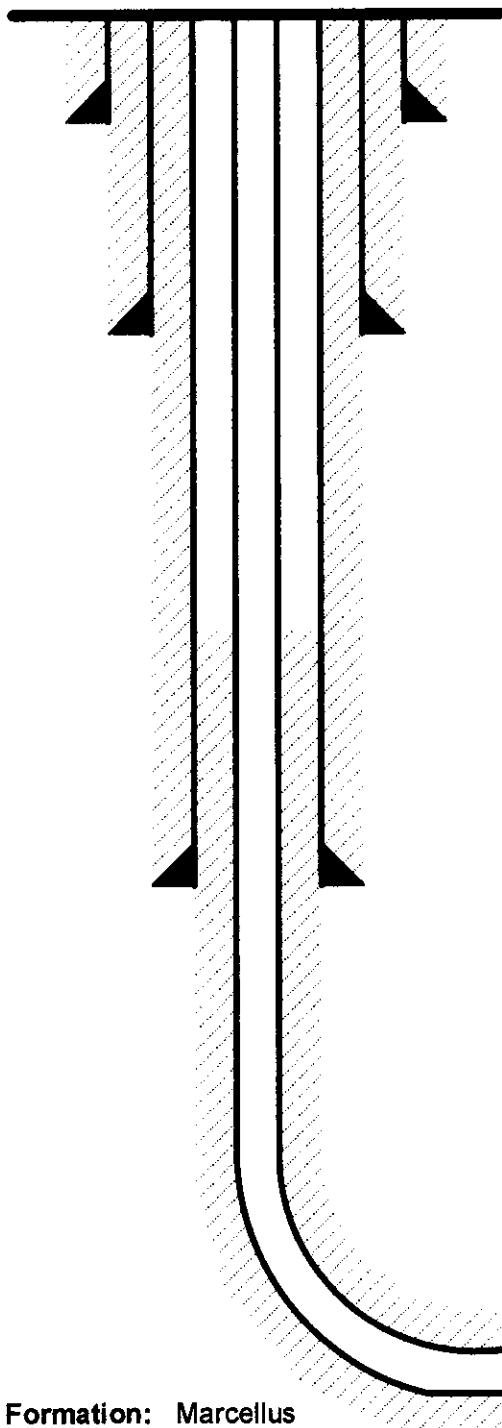
Page 2 of 3 signed by
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09/19/2025

EQT Production**Wellbore Diagram**

Well: Hallibu 3H
Pad: Hallibu
Elevation: 1340' GL 1353' KB

County: Wetzel
State: West Virginia



Conductor @ 53'

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

Surface @ 1,123'

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

Intermediate @ 2,653'

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

Production @ 22,095' MD / 7,571' TVD

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

Formation: Marcellus

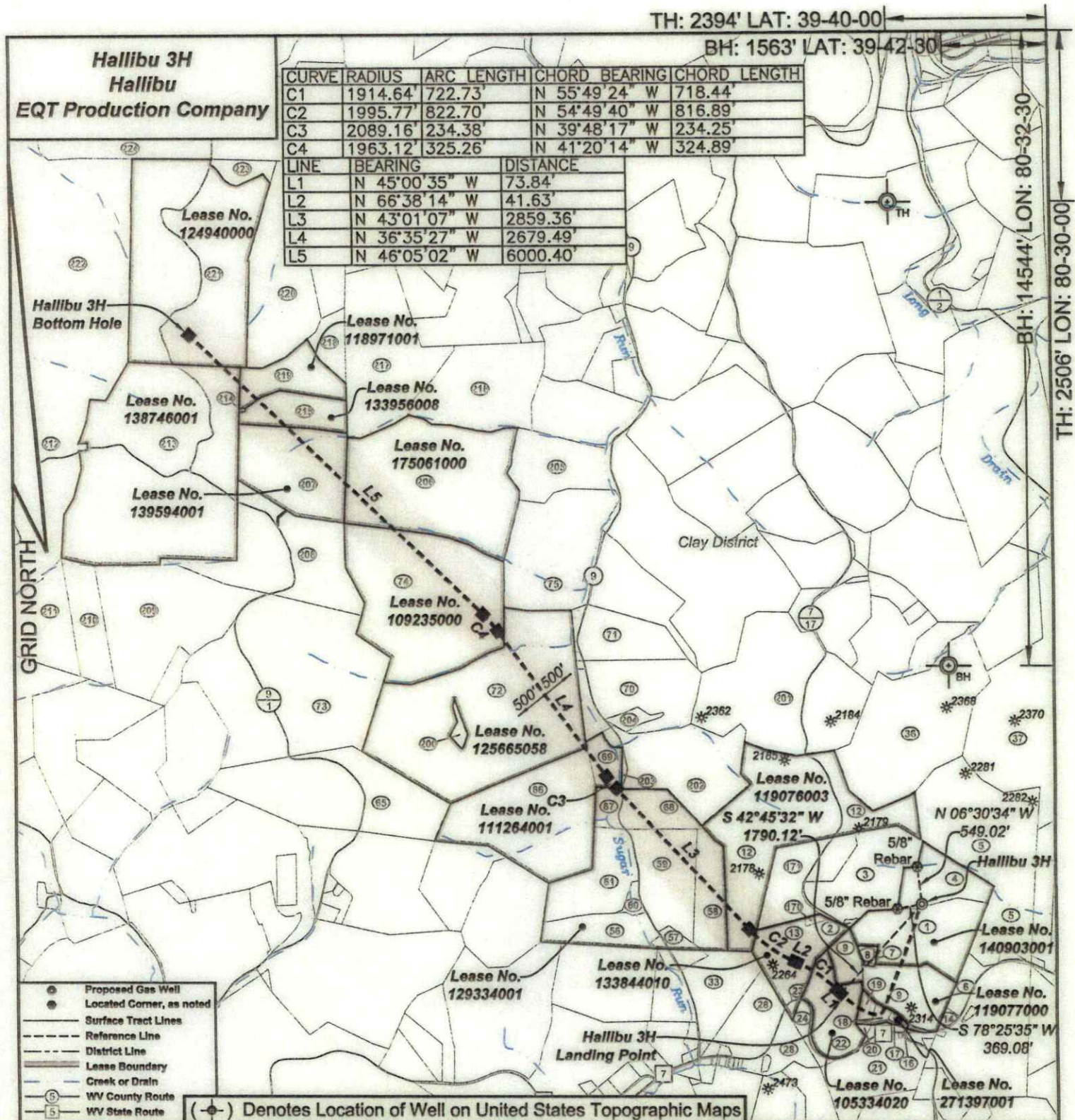
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NOT TO SCALE

09/19/2025



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

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 58-22
DRAWING NO: Hallibu 3H
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

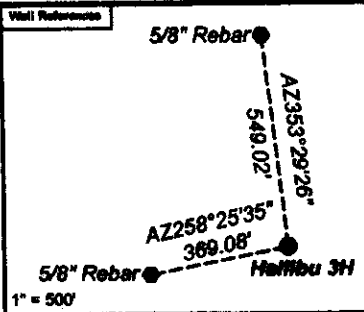
DATE: August 15, 2025
OPERATOR'S WELL NO.: Hallibu 3H
API WELL NO: 47-103-03703
STATE COUNTY PERMIT

WELL 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
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'

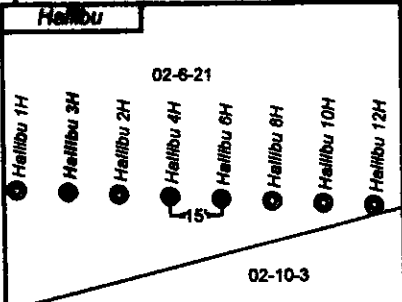
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

Halibu 3H Halibu EQT Production Company

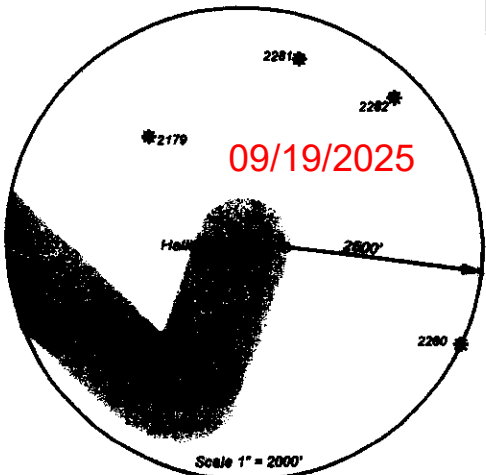
Tract I.D.	Tax Map No.	Parcel No.	County District	Surface Tract Owner	Acres
1	10	3	Wetzel Church	EQT Production Company	38.4
2	7	18.2	Wetzel Clay	Grandview-Doolin PSD	0.38
3	7	18.1	Wetzel Clay	Martha Mason & Carolyn Harlow	30
4	8	21	Wetzel Church	EQT Production Company	21
5	7	19	Wetzel Clay	Robert M. Roberts	73.211
8	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. Ut & Aisha Carole	90.5
13	10	1	Wetzel Church	Drilling Appalachia Corp	24.8
14	10	12.1	Wetzel Church	Patricia C. Spangler	0.5
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	Gehrig Coagray	0.5
21	10	18.2	Wetzel Church	Gay D. Smith	34.21
22	10	1.1	Wetzel Church	Gehrig Coagray	19.25
23	10	1.4	Wetzel Church	Kenneth R. & Jennifer L. Mason	1.08
24	10	1.2	Wetzel Church	Jack D. & Linda Coagray	4
28	12	43	Wetzel Center	Jack D. & Linda Coagray	27.289
33	6	27	Wetzel Clay	John D. Whitshill Life Estate	35.75
36	7	14	Wetzel Clay	Ridgtop Appalachia LLC	85.25
37	7	12	Wetzel Clay	Wilde M. Church	208.35
56	6	33	Wetzel Clay	Peoni Krontz, et al.	17.37
57	6	20.1	Wetzel Clay	Alfred D. Harrison	2.79
58	6	23	Wetzel Clay	Phoedus C. Whitshill Life Estate	14.5
59	6	20	Wetzel Clay	Phoedus C. Whitshill Life Estate	22.33
60	6	18.1	Wetzel Clay	Paul C. Houston II	2.42
61	6	18.2	Wetzel Clay	Rendall A. & Tina R. Muhn	25.485
65	12	7	Wetzel Center	Elizabeth Williams	61.76
66	6	17	Wetzel Clay	Genevieve Booth	84.5
67	6	18	Wetzel Clay	Carol S. Muhn	4.88
68	6	19	Wetzel Clay	Thomas C. Anderson	17
69	6	18	Wetzel Clay	Larry Wiese	10
70	6	14	Wetzel Clay	William L. & Patty A. Joliff	33.741
71	6	13	Wetzel Clay	Susan J. Minor	18.5
72	6	10	Wetzel Clay	Elizabeth Williams	132.75
73	6	24	Wetzel Clay	Kenneth L. Shreve, et al.	100
74	6	9	Wetzel Clay	Donna L. Runner	97.8
75	6	8	Wetzel Clay	Carolyn Shipman	51.982
170	10	1.3	Wetzel Church	Consolidated Gas	0.83
171	7	18	Wetzel Clay	Robin L. Ut & Aisha Carole	28.4
200	18	84	Wetzel Center	Norbury A. Szemore	2.48
201	7	18	Wetzel Clay	Tyler Wilkes	89
202	6	15	Wetzel Clay	Andrew A. Dudzinski	43.375
203	6	15.1	Wetzel Clay	Larry Wiese	0.825
204	6	14.1	Wetzel Clay	Jason L. Joliff	3.239
206	6	5	Wetzel Clay	Raymond V. & Lauren E. Knobbs	30.4
208	6	4	Wetzel Clay	Susan J. Minor	97
207	6	25.1	Wetzel Clay	Michael L. Krontz	40
208	6	25	Wetzel Clay	Michael L. & Allison G. Krontz	77.75
209	6	28	Wetzel Clay	Bruce J. & Nancy L. Watson	68.67
210	6	3	Wetzel Clay	Bruce J. & Nancy L. Watson	22.4
211	8	35	Wetzel Center	Ashley Murphy, et al.	37.8
212	5	31	Wetzel Clay	Charles & Carol Marshall	71.8
213	6	2	Wetzel Clay	Robert & Carolyn Wiedack	198.5
214	5	34	Wetzel Clay	Dallison Lumber Inc.	0.18
215	5	35	Wetzel Clay	Dayton J. Birch, Jr., et al.	21
216	5	54	Wetzel Clay	Raymond V. & Lauren E. Knobbs	47.25
217	5	38	Wetzel Clay	Shaun D. Muhn	84
218	5	37	Wetzel Clay	Michael Krontz & Shaun D. Muhn	11
219	5	36	Wetzel Clay	Dallison Lumber Inc.	21
220	5	24	Wetzel Clay	Miller & Edward Treino	48.25
221	5	25	Wetzel Clay	Clinton D. & Erin K. Besser	124.7
222	5	28	Wetzel Clay	Clinton D. & Erin K. Besser	108
223	5	26	Wetzel Clay	Miller & Edward Treino	8.5
224	5	28	Wetzel Clay	Michael L. & Allison G. Krontz	90



Halibu 3H coordinates are
NAD 27 Lat: 423,884.84 E: 1,716,017.88
NAD 83 UTM N: 4,390,113.58 E: 542,161.88
Halibu 3H Landing Point coordinates are
NAD 27 Lat: 422,870.35 E: 1,714,882.53
NAD 83 UTM N: 4,388,708.97 E: 541,798.11
Halibu 3H Bottom Hole coordinates are
NAD 27 Lat: 432,441.14 E: 1,705,214.92
NAD 83 UTM N: 4,392,834.91 E: 538,827.45
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plot 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.



Lease No.	Owner	Acres
140903601	MCJV Holdings, LLC, et al.	455.90
119077000	Patricia C. Spangler	35
271397001	Patricia C. Spangler, et al.	4.318
105334020	Dale Palm Resources, LLC, et al.	19.25 of 378.53
133844010	CPJ Hydrocarbons, LLC, et al.	26.85
119076903	Douglas Glenn Wintand, et al.	90.5
129334001	Elk Range Royalties II, LP, et al.	140
111264001	Larry Wiese, et al.	135
125685058	RDFS, LLC, et al.	132.75
108235000	Donna L. Runner	97.80
175061000	OXY USA, Inc., et al.	108.4 of 31,151.581
139594001	Green Dot Farm, Inc.	40
133958008	Joann Burch Sarap, et al.	21
116871001	Emory Peak Minerals, LLC, et al.	21.16
136748901	Acropolis, Inc.	153.5
124940000	Green Dot Farm, Inc.	124.8985 of 311.9



**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				

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

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

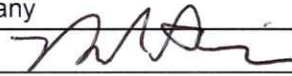
- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

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

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	<u>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>Patricia C. Spangler, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>271397001</u>	Patricia C. Spangler, a widow	4.318 ac	EQT Production Company		OG 401A/603
	<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

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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
				"at least 1/8th per WV Code 22-6-8"	
<u>133844010</u>	<u>CPJ Hydrocarbons, LLC, et al.</u> Joyce Roberts, by Reed Miller AIF Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	26.85 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/294 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"	
<u>119076003</u>	<u>Douglas Glenn Winland, et al.</u> Donald M. Winland and Evelyn L. Winland Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	90.5 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 84A/581 OG 103A/58 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"	
<u>129334001</u>	<u>Elk Range Royalties II, LP, et al.</u> Elizabeth Anderson, Elizabeth Roberts, John Roberts and Catherine Roberts The Fisher Oil Company Carnegie Natural Gas Company Carnegie Production Company	140 ac	The Fisher Oil Company Carnegie Natural Gas Company Carnegie Production Company EQT Production Company		DB 44/565 Unrecorded OG 78A/513 WV SOS
				"at least 1/8th per WV Code 22-6-8"	
<u>111264001</u>	<u>Larry Wise, et al.</u> George W. Sole and Rhoda Sole South Penn Oil Company Hope Natural Gas Company Consolidation Gas Supply Corporation	135 ac	South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation		DB 39/548 OG 9A/230 DB 233/387 OG 66A/69

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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	Consolidated Gas Transmission Corporation		CNG Development Company		OG 67A/453
	CNG Development Company		CNG Producing Company		WV SOS
	CNG Producing Company		Dominion Exploration and Production, Inc.		WV SOS
	Dominion Exploration and Production, Inc.		Antero Resources Appalachian Corporation		OG 95A/937
	Antero Resources Appalachian Corporation		Antero Resources Corporation		MR 121/8
	Antero Resources Corporation		Statoil USA Onshore Properties Inc.		OG 175/531
	Statoil USA Onshore Properties Inc.		Equinor USA Onshore Properties, Inc.		MR 129/313
	Equinor USA Onshore Properties, Inc.		EQT Production Company		OG 240A/518
	<u>RDFS, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>125665058</u>	Ralph Six and Betty Jo Six	132.75 ac	Drilling Appalachian Corporation		OG 86/620
	Ralph Six and Betty Jo Six		Drilling Appalachian Corporation		OG 102A/736
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 124A/9
	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 193A/657
	<u>Donna L. Runner</u>			"at least 1/8th per WV Code 22-6-8"	
<u>109235000</u>	George Howard Runner and Donna L. Runner	97.80 ac	Drilling Appalachian Corporation		OG 111A/425
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 116A/878
	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>OXY USA, Inc., et al</u>			"at least 1/8th per WV Code 22-6-8"	
<u>175061000</u>	BRC Minerals LP, et al	108.4 ac of 31,151.581 ac	BRC Working Interest Company		OG 102A/505

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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	BRC Appalachian Minerals I, LLC		BRC Working Interest Company, LLC		OG 103A/320
	BRC Minerals LP		Chesapeake Appalachia, L.L.C.		OG 103A/470
	BRC Working Interest Company, LLC		Statoil USA Onshore Properties, Inc.		OG 120A/109
	Chesapeake Appalachia, L.L.C.		SWN Production Company, LLC		OG 157A/540
	Chesapeake Appalachia, L.L.C.		SWN Exchange Titleholder, LLC		OG 158A/801
	Statoil USA Onshore Properties, Inc.		SWN Production Company, LLC		Corp. Book 13/296
	SWN Exchange Titleholder, LLC		Antero Exchange Properties, LLC		OG 177A/533
	SWN Production Company, LLC		Antero Exchange Properties, LLC		OG 177A/738
	Statoil USA Onshore Properties, Inc.		Antero Resources Corporation		Corp. Book 13/311
	Antero Exchange Properties, LLC		EQT Production Company		OG 324A/748
	Antero Resources Corporation				
				*at least 1/8th per WV Code 22-6-8"	
<u>139594001</u>	<u>Green Dot Farm, Inc.</u> George Howard Runner and Donna L. Runner	40 ac	Drilling Appalachian Corporation		OG 101A/753
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 103A/88
	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
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 185A/907
				*at least 1/8th per WV Code 22-6-8"	
<u>133956008</u>	<u>Joann Burch Sarap, et al.</u> Joan Burch Sarap	21 ac	EQT Production Company		OG 190A/877
				*at least 1/8th per WV Code 22-6-8"	
<u>118971001</u>	<u>Emory Peak Minerals, LLC, et al.</u> Martin E. Rodgers	21.16 ac	Drilling Appalachian Corporation		OG 110A/205
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 110A/821
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54

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	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 135A/356
	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
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 185A/907
				"at least 1/8th per WV Code 22-6-8"	
<u>138746001</u>	<u>Acropolis, Inc.</u>				
	Acropolis, Inc.	153.5 ac	Drilling Appalachian Corporation		OG 82A/115
	Acropolis, Inc.		Drilling Appalachian Corporation		OG 100A/802
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 103A/58
	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
				"at least 1/8th per WV Code 22-6-8"	
<u>124940000</u>	<u>Green Dot Farm, Inc.</u>				
	Green Dot Farm, Inc.	124.6995 ac of	Drilling Appalachian Corporation		OG 86A/546
	Green Dot Farm, Inc.	311.9 ac	Drilling Appalachian Corporation		OG 101A/674
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 103A/58
	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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