

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

Tuesday, December 14, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re:

Permit Modification Approval for 10H

47-103-03414-00-00

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.

Operator's Well Number: 10H

Farm Name: MICHAEL KUHN

U.S. WELL NUMBER: 47-103-03414-00-00

Horizontal 6A New Drill

Date Modification Issued: 12/14/2021

Promoting a healthy environment.

API NO. 47-103 - 03414
OPERATOR WELL NO. 10H
Well Pad Name: Michael Kuhn

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

1) Well Operator: EQT Produc	ction Company	306686	Wetzel	Center	Big Run
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 10h	1	Well Pad	Name: Micha	el Kuhn	
3) Farm Name/Surface Owner: _	Rachel Elizabeth Wyatt & Sheldo	Public Road	d Access: CR	19/3	
4) Elevation, current ground:	1509' (built) Ele	evation, proposed p	oost-construction	on: 1509'	(built)
5) Well Type (a) Gas X Other	Oil	Unde	rground Storag	ge	
(b)If Gas Shall	llow X	Deep			
6) Existing Pad: Yes or No Yes					
7) Proposed Target Formation(s) Marcellus, 7,736', 51', 2,620 PS	=	ipated Thickness a	nd Expected Pr	ressure(s):	
8) Proposed Total Vertical Depth	n: <u>7736'</u>				RECEIVED
9) Formation at Total Vertical D		·			e of Oil and Gas
10) Proposed Total Measured De	epth: 25,616'				C 0 9 2021
11) Proposed Horizontal Leg Le	ngth: 17,418'			W\ Enviro	/ Department of nmental Protection
12) Approximate Fresh Water St	rata Depths:	75', 361'			
13) Method to Determine Fresh	Water Depths:	Offset Wells - 47-	103-01884 & 4	3-103-018	313
14) Approximate Saltwater Dept	hs: 2027', 2100	', 2295', 2369'			
15) Approximate Coal Seam De	pths: 1163'-116	6', 1260'-1266'			
16) Approximate Depth to Possi	ble Void (coal mi	ine, karst, other): _	N/A		
17) Does Proposed well location directly overlying or adjacent to		ms Yes	No	<u>X</u>	
(a) If Yes, provide Mine Info:	Name:				
•	Depth:				
	Seam:				
	Owner:				

API NO. 47-103 - 03414

OPERATOR WELL NO. 10H Well Pad Name: Michael Kuhn

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1316	1316	1210 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2823	2823	1100 ft^3 / CTS
Production	5 1/2	New	P-110	20	25616	25616	500' above intermediate casing
Tubing				-			
Liners							

Bryan Harris 12/8/21

ТҮРЕ	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	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

WW-6B	i
(10/14)	

API NO. 47- 103 - 03414

OPERATOR WELL NO. 10H

Well Pad Name: Michael Kuhn

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

Drill and complete the horizontal portion of this 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): 12.25 acres (2.87 acres previously disturbed)
- 22) Area to be disturbed for well pad only, less access road (acres): 5.17 acres (2.72 acres existing)
- 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 joint from production casing shoe to KOP.

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

Conductor: Class A no additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder,

Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface

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

^{*}Note: Attach additional sheets as needed.

EQT Production Wellbore Diagram Well: County: Wetzel Michael Kuhn 10H State: West Virginia Pad: Michael Kuhn Elevation: 1523' GL 1536' KB Conductor @ 40' 26", 85.6#, A-500, cement to surface w/ Class A 1,316' Surface @ 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I Intermediate 2,823' 9-5/8", 36#, J-55, cement to surface w/ Class A/Type I RECEIVED
Office of Oil and Gas DEC 09 2021 WV Department of Environmental Protection 25,616' MD / 7,736' TVD **Production** 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H Formation: Marcellus 18/017/120) SCALE

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 Attachment

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

RECEIVED
Office of Oil and Gas

DEC 09 2021

WV Department of Environmental Protection

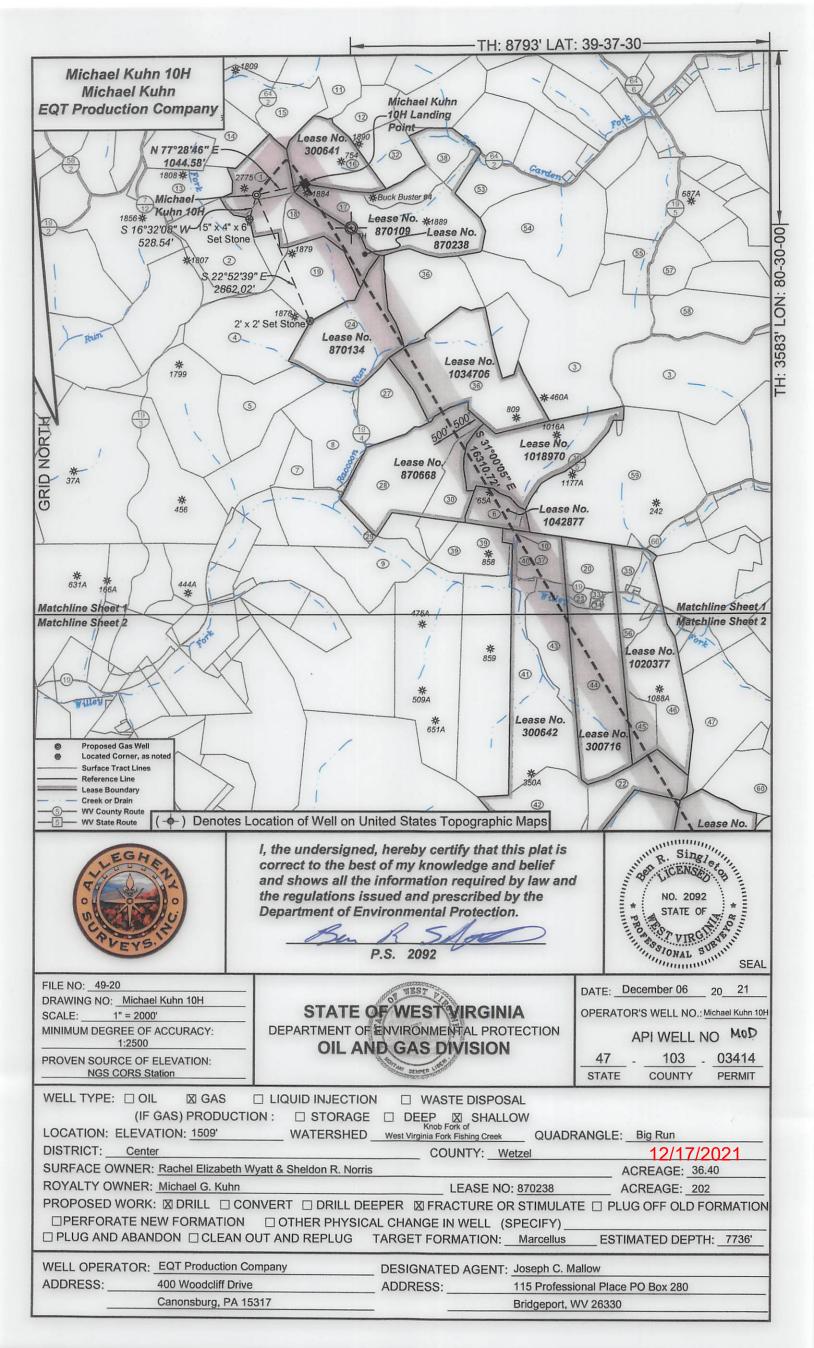
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity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

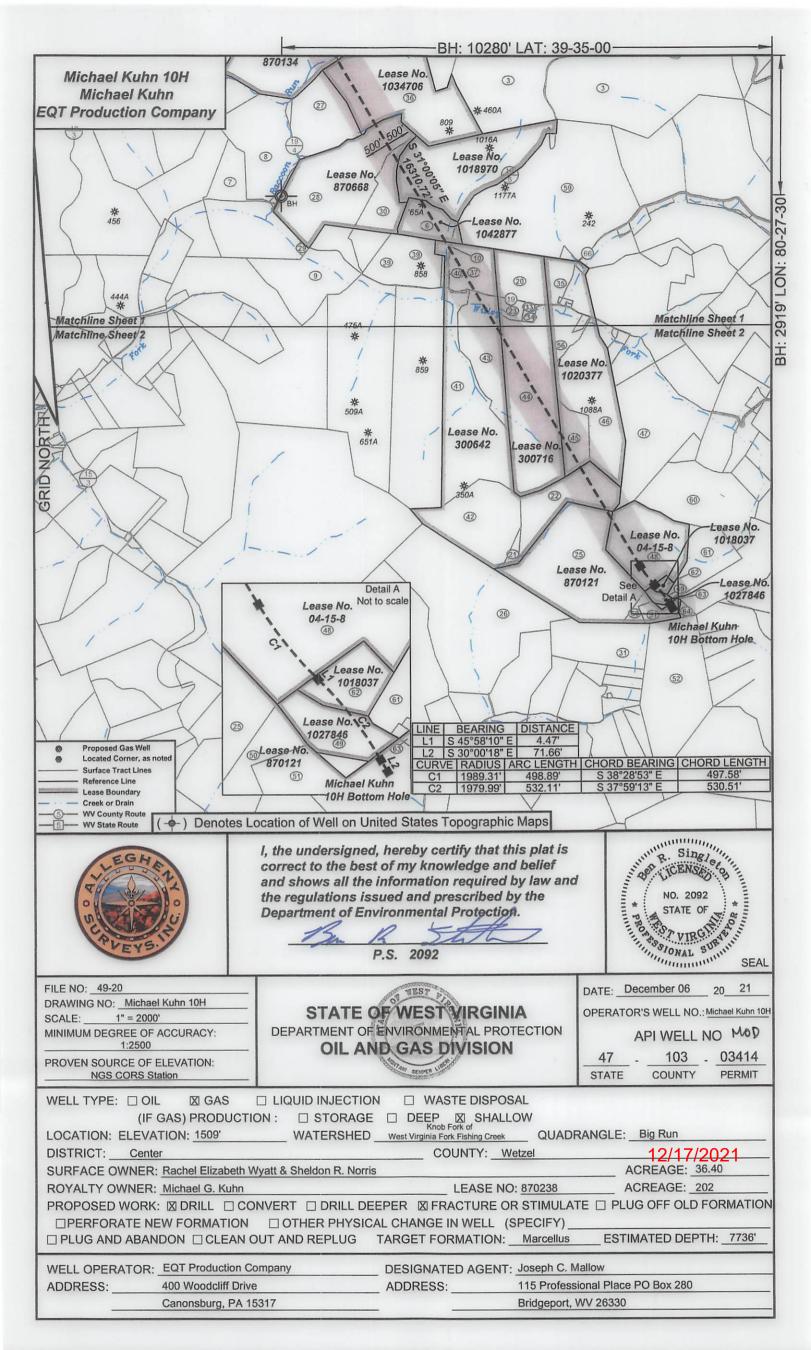
Well Operator: EQT Production Company

By: John Zavatchan

ohn F Zavatchan Its: Project Specialist Permitting

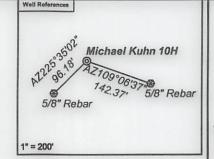
Page 1 of 11





Michael Kuhn 10H Michael Kuhn **EQT Production Company**

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	20	32	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	36.40
2	20	35	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	54.00
3	5	1	Wetzel	Grant	Raccoon Run Properties LLC	370.01
4	4	10	Wetzel	Grant	William B. & Pamela S. Francik	76.78
5	9	3	Wetzel	Grant	William B. & Pamela S. Francik	50.00
6	10	9	Wetzel	Grant	Gregory A. Burdine	22.50
7	9	21	Wetzel	Grant	Gregory & Michael Dulaney	59.90
8	0	4	Wetzel	Grant	Gregory & Michael Dulaney	50.00
9	0	27	Wetzel	Grant	Burl Barr	47.17
10	10	19	Wetzel	Grant	Robert Chipps	2.41
11	20	5	Wetzel	Center	Robert F. & Linda Rix	107.00
12	13	6	Wetzel	Church	William B. & Parnela S. Francik	26.50
13	20	31	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	40.00
14	20	27	Wetzel	Center	Robert E. & Linda E. Rix	48.75
15	20	18	Wetzel	Center	Robert E. & Linda E. Rix	60.10
16	13	8	Wetzel	Church	William B. Francik Jr.	48.44
17	17	1	Wetzel	Church	Buck Buster Hunt Club of WV Inc.	100.00
18	20	36	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	45.00
19	20	37	Wetzel	Center	William B. & Pamela S. Francik	67.50
20	10	21	Wetzel	Grant	John Gump Jr. & Mary Jo. Gump	25.00
21	15	6	Wetzel	Grant	Donald J. D'Lusky, et al.	2.75
22	15	1	Wetzel	Grant	Timothy E. Titus	43.20
23	10	38.1	Wetzel	Grant	Brooks Hineman	5.00
24	4	11	Wetzel	Grant	Liberty Holding Company	89.05
25	15	7	Wetzel	Grant	Timothy E. Titus	115.00
26	15	12	Wetzel	Grant	Donald J. D'Lusky, et al.	147.50
27	9	5	Wetzel	Grant	John E. Selwell	36.50
28	9	12	Wetzel	Grant	Burl Barr	80.26
29	9	21.2	Wetzel	Grant	David W. & Barbara L. Anderson	1.00
30	9	84	Wetzel	Grant	Calvin N. Barr, et al.	32.92
31	15	13	Wetzel	Grant	Donald W. & Disona White	40.00
32	13	0	Wetzel	Church	William B. Francik Jr.	28.00
33	10	49	Wetzel	Grant	Brooks & Donna J. Hinerman	1.28
34	10	30	Wetzel	Grant	Tammy D. Chambers	1.05
35	10	31	Wetzel	Grant	John Gump Jr. & Mary Jo. Gump	16.33
			Wetzel			190.78
36	4	12	Wetzel	Grant	Robert L. McCann Jr. & Andrew S. McCann Billy J. & Frances J. Higgins Irrevocable Trust	21.06
37	10			100000		-
38	13	10	Wetzel	Church	Buck Buster Hunt Club of WV Inc Michael J. & Patricia L. Barber	27.50 35.00
39	10	18	Wetzei	Grant		2.21
40	10	29.1	Wetzel	Grant	Robert Rice	
41	10	29	Wetzel	Grant	Billy J. & Frances J. Huggins Irrevocable Trust	99.31
42	15	5	Wetzel	Grant	Donald J. D'Lusky, et al.	43.20
43	10	29.2	Wetzel	Grant	Randy R. Rex	40.00
44	10	38	Wetzel	Grant	Tammy D. Chambers	89.67
45	10	39	Wetzel	Grant	Tammy D. Chambers	18.36
46	10	32	Wetzel	Grant	Richard E. & Jay A. Griffith	60.00
47	10	40	Wetzel	Grant	Ronald K. Gump & Deloris P. Gump	94.50
48	15	8	Wetzel	Grant	Coastal Forest Resources Company	49.00
49	15	14	Wetzel	Grant	Rich Rager	2.70
50	15	7.2	Wetzel	Grant	Minnie E. O'Bannon	6,00
51	15	7.1	Wetzel	Grant	Donald W. & Dianna White	7.80
52	15	26	Wetzel	Grant	William Jack & Beverly L. Barr	78.22
53	18	1	Wetzel	Church	Andrew Pintus	31.80
54	18	2	Wetzel	Church	David Brickenstein, et al.	98.50
55	18	10	Wetzel	Church	Steven W. & Carolyn L. Blair	19.00
56	10	33	Wetzel	Grant	Brady Grefe	5,56
57	18	11	Wetzel	Church	Thomas E. Kahl	29.00
58	18	17	Wetzel	Church	Cecil Summers	57.30
59	10	2.1	Wetzel	Grant	Richard L. Ebright	139,18
60	15	2	Wetzel	Grant	Coastal Forest Resources Company	61.00
61	15	10	Wetzel	Grant	Coastal Forest Resources Company	29.64
62	15	9	Wetzel	Grant	Coastal Forest Resources Company	2.50
1/4			-			
63	15	15	Wetzel	Grant	Charleston Welding Co LLC	0.21



Notes: Michael Kuhn 10H coordinates are NAD 27 N: 407,834.57 E: 1,709,493,23 NAD 27 Lat; 39,615165 Long; -80,531212 NAD 83 UTM N: 4,385,160,00 E: 540,255.80 NAD 83 UTM N: 4,385,160.00 E: 540,255.80

Michael Kuhn 10H Landing Point coordinates are
NAD 27 N: 408,061.03 E: 1,710,512.98

NAD 27 Lat: 39.615819 Long: 80.527602

NAD 83 UTM N: 4,385,234.19 E: 540,565.33

Michael Kuhn 10H Bottom Hole coordinates are
NAD 27 N: 393,207.43 E: 1,719,589.16

NAD 27 Lat: 39.575321 Long: 80.494803

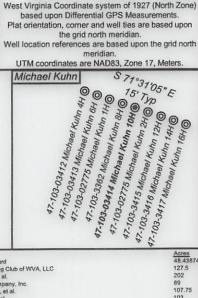
NAD 83 UTM N: 4,380,755.05 E: 543,405.90

West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.

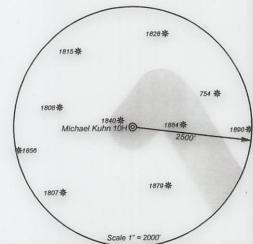
Plat orientation, corner and well ties are based upon
the grid north meridian.

Well location references are based upon the grid north
meridian.

meridian.
UTM coordinates are NAD83, Zone 17, Meters Michael Kuhn



Lease No.	Owner	Acres
300641	Beulah Deloris Ballard	48.43874
870109	Buckbusters Hunting Club of WVA, LLC	127.5
870238	Michael G. Kuhn, et al.	202
870134	Liberty Holding Company, Inc.	89
1034706	Andrew S. McCann, et al.	107.75
870668	Valerie D. Preat, et al.	103
1018970	Three Rivers Royalty, LLC, et al.	75
1042877	Liberty Holding Company	22.775
300642	Waco Oil & Gas Co., Inc., et al.	256
300716	Bounty Minerals LLC, et al.	122
1020377	Patrick Harold Hasenbuhler, et al.	110
300842	Oxy USA Inc., et al.	256
870121	Beverly Kay Campbell, et al.	117
04-15-8	Stone Hill Minerals Holdings, LLC	49
1018037	Coastal Forest Resources Company d/b/a Coastal Timberlands Company, et al.	2.5
1027846	Rich Rager	2.75





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

	minimin,	
THE STREET	R. Single	Thurston * Thurston
1 28	NO. 2092	
*	STATE OF	* =
111808	PVIRCIT	0 3
11/1	ONAL SURVE	111.

FILE NO: 49-20 DRAWING NO: Michael Kuhn 10H	STATE OF WEST VIRGINIA
SCALE: 1" = 2000'	
MINIMUM DEGREE OF ACCURACY: 1:2500	DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION
PROVEN SOURCE OF ELEVATION: NGS CORS Station	SEASTER LIGHT OF THE PROPERTY

DATE:	December 06	_ 20_	21
OPERA	TOR'S WELL NO.:	Micha	el Kuhn 10H
	API WELL I	NO	MOD

03414 103 47 PERMIT STATE COUNTY

(IF	GAS LIQUID INJE GAS) PRODUCTION : STOP TION: 1509' WATERS	RAGE DEEP SHALLO	
DISTRICT: Cente		COUNTY: Wet	12/17/2021
SURFACE OWNER:	Rachel Elizabeth Wyatt & Sheldon R.		ACREAGE: 36.40
ROYALTY OWNER:	Michael G. Kuhn	LEASE NO:	870238 ACREAGE: 202
	☑ DRILL ☐ CONVERT ☐ DRII		STIMULATE PLUG OFF OLD FORMATION PECIFY)
			Marcellus ESTIMATED DEPTH: 7736'
WELL OPERATOR:	EQT Production Company	DESIGNATED AGENT: J	oseph C. Mallow
ADDRESS:	400 Woodcliff Drive	ADDRESS: 1	15 Professional Place PO Box 280
	Canonsburg, PA 15317		Bridgeport, WV 26330

Operator's Well N	O.	N	ell	We	ors	era	On	
-------------------	----	---	-----	----	-----	-----	----	--

Michael Kuhn 10H

WW-6	Δ1	atta	chm	ent

ease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc. Re	oyalty	Book/Page
			" a	at least 1/8th per	
870238	Michael G. Kuhn			/V Code 22-6-8"	
<u> </u>	Michael G. Kuhn, a single man	202 ac	Drilling Appalachian Corporation		OG 77A/56
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 118A/108 & 136A/53
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707
000044	Davilah Dalaria Dallard			at least 1/8th per	
<u>300641</u>	41 <u>Beulah Deloris Ballard</u> David Ballard and Malinda Ballard. husband and wife		•	/V Code 22-0-6	DB 58/165
		48.43874 ac	The Carter Oil Company		DB 91/1
	The Carter Oil Company		The Hope Natural Gas Company		DB 233/387
	Hope Natural Gas Company Consolidation Gas Supply Corporation		Consolidation Gas Supply Corporation Consolidated Gas Transmission Corpor	ration	OG 66A/69
	Consolidated Gas Transmission Corporation		CNG Transmission Corporation	ration	Corp. Book 13/151
	CNG Transmission Corporation		Eastern States Oil & Gas, Inc.		OG 76A/232
	Eastern States Oil & Gas, Inc.		Blazer Energy Corp.		Corp. Book 12/253
	Blazer Energy Corp.		Eastern States Oil & Gas. Inc.		Corp. Book 12/259
	Eastern States Oil & Gas, Inc., Blazer Energy Corp., et al.		EQT Production Company		Corp. Book 13/14
				at least 1/8th per	
<u>870109</u>	Buckbusters Hunting Club of WVA, LLC			VV Code 22-6-8"	
	Buck Buster Hunting Club of West Virginia, Inc.	127.5 ac	Drilling Appalachian Corporation		OG 80A/244
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 118A/108 & 136A/53
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707
870238	Michael G. Kuhn, et al.			at least 1/8th per VV Code 22-6-8"	
0/0230	Michael G. Kuhn, a single man	202 ac		VV 0006 22-0-0	OG 77A/56
	Drilling Appalachian Corporation	202 au	Drilling Appalachian Corporation Grenadier Energy Partners, LLC		OG 118A/108 & 136A/5
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707
	States Cort Officials Frequency inc.		Est Floodston Company		OG HUMIUI

*	8	ıt	le	a	st	1	/8	tŀ	p	e

<u>870134</u>	Liberty Holding Company, Inc. Liberty Holding Company, Inc. Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	89 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 79A/316 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
<u>1034706</u>	Andrew S. McCann, et al. Andrew S. McCann	107.75 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 216A/189
<u>870668</u>	Valerie D. Preat, et al. Freda Watts Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	103 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 82A/123 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
<u>1018970</u>	Three Rivers Royalty, LLC, et al. Three Rivers Royalty, LLC	75 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 179A/57
<u>1042877</u>	Liberty Holding Company Liberty Holding Company, a West Virginia Corporation Antero Resources Corporation	22.775 ac	Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 182A/373 OG 231A/59
<u>300642</u>	Waco Oil & Gas Co., Inc., et al. F.F. Morgan & M.V. Morgan, his wife The Carter Oil Company Hope Natural Gas Company Consolidation Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc., Blazer Energy Corp., et al.	256 ac	The Carter Oil Co. The Hope Natural Gas Company Consolidation Gas Supply Corporati Consolidated Gas Transmission Co CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. EQT Production Company		DB 79/101 OG 1A/198 DB 233/387 OG 66A/69 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 Corp. Book 13/14

"at least 1/8th per

200746	Pounts Minarda II O at al			st 1/8th per ode 22-6-8"	
<u>300716</u>	Bounty Minerals LLC, et al. Ara Long	122 ac	Hope Natural Gas Company	Oue 22-0-0	OG 2A/42
	Hope Natural Gas Company	122 44	Consolidation Gas Supply Corporation		DB 233/387
	Consolidation Gas Supply Corporation		Consolidated Gas Transmission Corporation	^	OG 66A/69
	Consolidated Gas Transmission Corporation		CNG Transmission Corporation	1	Corp. Book 13/151
	CNG Transmission Corporation		Eastern States Oil & Gas. Inc.		OG 76A/232
	Eastern States Oil & Gas, Inc.				Corp. Book 12/253
	Blazer Energy Corp.		Blazer Energy Corp. Eastern States Oil & Gas, Inc.		Corp. Book 12/259
	Eastern States Oil & Gas, Inc., Blazer Energy Corp., et al.		·		Corp. Book 13/14
	Eastern States On & Gas, Inc., Diazer Energy Corp., et al.		EQT Production Company		Corp. Book 13/14
				ast 1/8th per	
<u>1020377</u>	Patrick Harold Hasenbuhler, et al.			ode 22-6-8*	
	Lester L. Ice and Gertrude C. Ice, husband and wife	110 ac	Hope Natural Gas Company		OG 48A/229
	Hope Natural Gas Company		Consolidation Gas Supply Corporation		DB 233/387
	Consolidation Gas Supply Corporation		Consolidated Gas Transmission Corporation	n	OG 66A/69
	Consolidated Gas Transmission Corporation		CNG Transmission Corporation		Corp. Book 13/151
	CNG Transmission Corporation		Invitation Energy, Inc.		OG 74A/538
	Invitation Energy, Inc.		Joe O'Ferrell		OG 125A/982 & 136A/861
	Joe O'Ferreil		Standard Oil Company, Inc.		OG 125A/984 & 136A/863
	Standard Oil Company, Inc.		EQT Production Company		OG 186A/286 & 188A/31
			"at lea	ast 1/8th per	
300642	Oxy USA Inc., et al.		WV C	ode 22-6-8"	
	F.F. Morgan & M.V. Morgan, his wife	256 ac	The Carter Oil Co.		DB 79/101
	The Carter Oil Company		The Hope Natural Gas Company		OG 1A/198
	Hope Natural Gas Company		Consolidation Gas Supply Corporation		DB 233/387
	Consolidation Gas Supply Corporation		Consolidated Gas Transmission Corporation	n	OG 66A/69
	Consolidated Gas Transmission Corporation		CNG Transmission Corporation		Corp. Book 13/151
	CNG Transmission Corporation		Eastern States Oil & Gas, Inc.		OG 76A/232
	Eastern States Oil & Gas, Inc.		Blazer Energy Corp.		Corp. Book 12/253
	Blazer Energy Corp.		Eastern States Oil & Gas, Inc.		Corp. Book 12/259
	Eastern States Oil & Gas, Inc., Blazer Energy Corp., et al.		EQT Production Company		Corp. Book 13/14
			"at lea	ast 1/8th per	
<u>870121</u>	Beverly Kay Campbell, et al.		WV C	ode 22-6-8"	
	Mary Eloise Kimble, widow	117 aç	Drilling Appalachian Corporation		OG 84A/535
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 118A/108 & 136A/538
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707

<u>04-15-8</u>	Stone Hill Minerals Holdings, LLC Stone Hill Minerals Holdings, LLC	49 ac	TH Exploration, LLC	"at least 1/8th per WV Code 22-6-8"	OG 272A/148
<u>1018037</u>	Coastal Forest Resources Company d/b/a Coastal Timberlands Company, et al. Coastal Forest Resources Company d/b/a Coastal Timberlands Company	2.5 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 180A/862
1027846	Rich Rager Rich Rager, a widower, appearing herein by and through Regina S. Rager, Agent and Attorney-In-Fact by Power of Attorney dated June 27, 2000	2.75 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 239A/589

ease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
				"at least 1/8th per	
<u>870241</u>	Shiben Estates, Inc			WV Code 22-6-8"	
	Shiben Estates, Inc	67.5 ac	Grenadier Energy Partners, LLC		OG 123A/780
	Grenadier Energy Partners, LLC		Drilling Appalachian Corporation		OG 125A/319
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707
				"at least 1/8th per	
<u>870834</u>	Shiben Estates, Inc., et al.			WV Code 22-6-8"	
	Shiben Estates, Inc.	60.75 ac	Grenadier Energy Partners, LLC		OG 123A/790
	Grenadier Energy Partners, LLC		Drilling Appalachian Corporation		OG 125A/319
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.		OG 138A/54
	Statoil USA Onshore Properties Inc.		EQT Production Company		OG 175A/707
				"at least 1/8th per	
<u>993341</u>	Three Rivers Royalty II, LLC, et al.			WV Code 22-6-8"	
	Three Rivers Royalty II, LLC	137 ac	EQT Production Company		OG 235A/151

EXHIBIT "A"

TH Leases – to be assigned from TH to EOT:

Lessor	Lessee	Lease Date	County	State	Recording Bk/Pg	Instrument No.	Parcel ID	Gross Ac.
ARVIL F HAWKINS AND MARGIE E HAWKINS	TH EXPLORATION,	3/3/2017	WETZEL	wv	184A/415	221853	4-25-43.3	30
ARVIL F HAWKINS AND MARGIE E HAWKINS	TH EXPLORATION,	3/16/2017	WETZEL	WV	188A/783	229300	4-25-43.2	38
JANET ROSE HILLBERY	TH EXPLORATION,	3/16/2017	WETZEL	WV	184A/948	222844	4-25-30,2	38
CLARENCE SILAS HILLBERY, JR	TH EXPLORATION,	3/16/2017	WETZEL	WV			4-25-30.2	38
WILLIAM B FRANCIK AND PAMELA S FRANCIK	TH EXPLORATION,	3/25/2018	WETZEL	WV			4-30-60	43
THOMAS J IACOBONI	TH EXPLORATION,	3/26/2018	WETZEL	WV			4-30-60	43
BETTY LOU LOMBARDO	TH EXPLORATION, LLC	10/11/2018	WETZEL	WV	218A/404	260216	1-7-11.1, 1-7- 14	54.9
PATTY ANN NOVOTNY	TH EXPLORATION,	10/13/2018	WETZEL	WV	218A/400	260214	1-7-11.1, 1-7-	54.9
PEGGY JO DUSKY AND RAYMOND G DUSKY	TH EXPLORATION,	10/22/2018	WETZEL	WV	222A/484	265929	1-7-11.1, 1-7- 14	54.9
DENNIS R WYLIE AND AVRIL M WYLIE	TH EXPLORATION,	10/13/2018	WETZEL	WV	221 A/122	263286	1-7-11.1, 1-7- 14	54.9
BOUNTY MINERALS LLC	TH EXPLORATION,	4/26/2018	WETZEL	WV	215A/233	258057	1-16-55	15.3
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION, LLC	10/1/2016	WETZEL	WV			2-6-12, 2-6- 13, 2-6-23, 2- 6-24, 2-10-5	194
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION, LLC	10/1/2021	WETZEL	WV	Pending	Pending	1-11-1, 1-11- 2, 1-11-3, 1- 11-4, 1-11- 15, 1-11-16, 1-11-5, 1-11-	142.1

							17, 1-11-18, 1-11-19	
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Weizel	wv	Pending	Pending	1-15-55, 1- 19-3, 1-19- 3.3, 1-19-2	42.75
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Wetzel	wv	Pending	Pending	1-14-42	30.19
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Wetzel	wv	Pending	Pending	3-4-30, 3-4- 31	20.42
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION, LLC	8/1/2020	Wetzel	wv	252A-104	294225	1-8-7, 4-9-5, 4-14-33, 1-8- 17	385.5
Lemasters Keystone Trust	TH Exploration, LLC	10/2/2018	Wetzei	wv	226A-389	272225	1-10-22, 1- 10-23, 1-10- 21	130
Red Stone Resources, LLC	TH Exploration, LLC	8/31/2018	Wetzel	wv	219A-455	261079	5-4-22	63.5
Bradley Baker	TH Exploration, LLC	12/1/2017	Wetzel	wv	201A-143	244556	4-28-59	46.95
Stone Hill Mineral Holdings, LLC	TH Exploration, LLC	8/1/2020	Wetzel	WV	252A-107	294226	4-13-37, 4- 13-37.1, 4- 12-15.1, 4- 13-36, 4-18- 5, 4-12-5.1, 4-19-36, 4- 19-34, 4-19- 35, 4-12-14, 4-12-29, 4- 18-2	227.58
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Wetzel	WV	Pending	Pending	3-2-10, 3-2- 11	13.025
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Wetzel	WV	Pending	Pending	1-14-31	13.031
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION, LLC	10/1/2021	Wetzel	wv	Pending	Pending	3-2-5	15.75
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Wetzel	WV	Pending	Pending	3-2-39	10.75

RECEIVED
Office of Oil and Gas

DEC 09 2021

STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION, LLC	10/1/2021	Wetzel	WV	Pending	Pending	3-4-1, 3-4-55, 3-2-56, 3-4- 56, 3-4-3,	23.25
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Wetzel	WV	Pending	Pending	3-3-9, 3-3-10, 3-3-10.1	9.85
STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION,	10/1/2021	Wetzel	wv	Pending	Pending	4-15-8	49
BOUNTY MINERALS LLC	TH EXPLORATION,	2/6/2018	WETZEL	WV	208A-455	251442	4-24-22	60,125

Permitting Letter

November 16, 2021

WV Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Re: Permitting Letter - Assignment of Oil and Gas Leases between TH Exploration, LLC and EQT Production Company

Dear Director:

By this letter, we are advising you that, EQT Production Company ("EQT") and TH Exploration, LLC ("TH") have entered into an Acreage Trade Agreement dated November 3, 2021 ("Trade Agreement") for the assignment of certain oil and gas leases situate in Wetzel County, West Virginia. Such oil and gas leases are identified in Exhibit "A" hereto (the "Oil and Gas Leases").

Subject to the Trade Agreement, the parties agreed to allow certain pre-closing operations to be conducted on each party's respective Oil and Gas Leases as set forth below in relevant part:

5.2 Permit Applications and Development. Each of TH and EQT agree to allow the other Party, without objection, to make regulatory permit applications, by EQT, in the case of the TH Leases, and by TH, in the case of the EQT Leases, to be acquired by such Party pursuant to the Transaction and, upon receipt of all necessary permits and governmental approvals, to proceed to develop such Oil and Gas Leases and extract, produce and market the Hydrocarbons therefrom, in each case prior to Closing (with respect to each Party, "Pre-Closing Operations"). The Parties agree to execute a letter on the Execution Date noticing the WV DEP of the Pre-Closing Operations pursuant to the form attached hereto as Exhibit H (the "Permitting Letter"). [...]

RECEIVED
Office of Oil and Gas

DEC 09 2021

WV Department of Environmental Protection

This letter is the Permitting Letter referenced above. The Oil and Gas Leases will be transferred by and between TH and EQT on or before December 20, 2021. Please accept this letter as notice of the pending assignment and agreement by the parties to allow for such pre-closing operations.

If you have any questions concerning this matter, please contact the undersigned or Todd Klaner, Director Permitting at tklaner@eqt.com or by phone at (412) 303-2213.

Sincerely,

EQT_Production Company

Corry Peck

By: Corey C. Peck
Its: Authorized Agent



[SIGNATURE PAGE FOLLOWS]

Office of Oil and Gas

DEC 0 9 2021

TH Exploration, LLC

By: Dave Buchanan Its: VP – Land

> RECEIVED Office of Oil and Gas

DEC 0 9 2021

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Michael Kuhn (BIG467)

County: Wetzel

May 14, 2021

RECEIVED Office of Oil and Gas

DEC 0.9 2021

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Michael Kuhn (BIG467) pad: 4H, 6H, 8H, 10H, 12H, 14H and 16H.

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

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

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

1. Communications with Well Operators

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

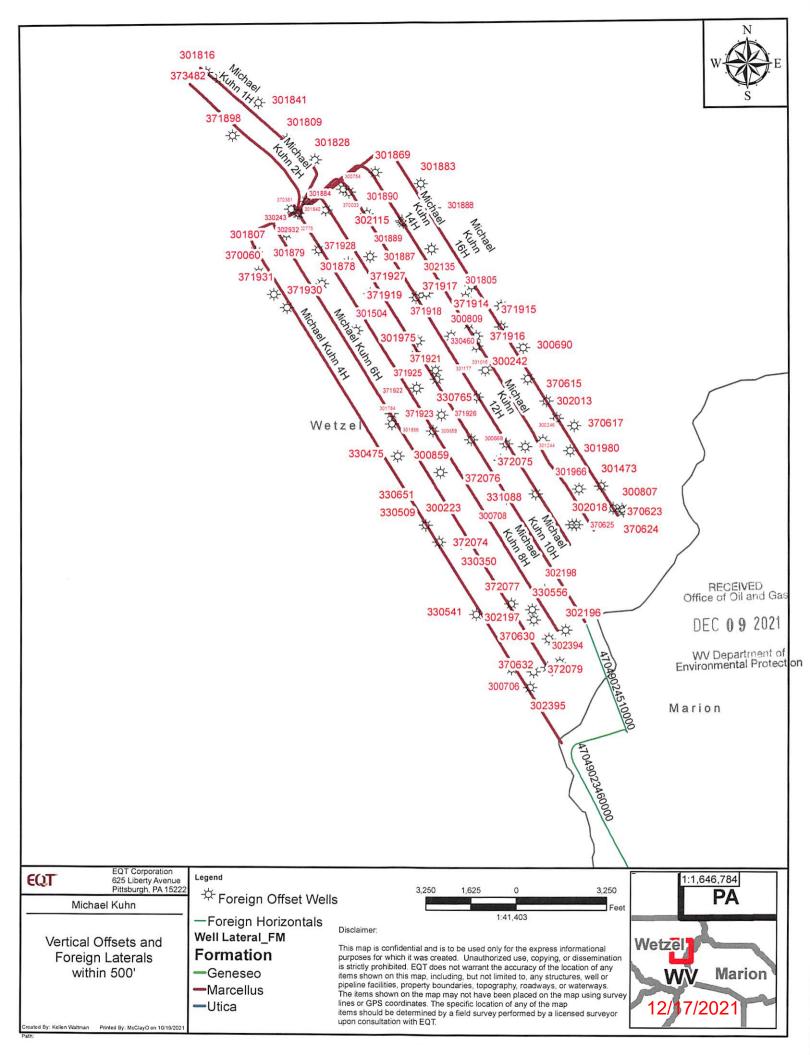
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

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

2. Reporting

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



UWI	ACT_STATUS	CURR_OPER	FNL_CLASS	FNL_STAT	INIT_CLASS	LATITUDE	LONGITUDE OPER_NAME	DATUM	ELEVATION	TOT_DEPTH TVD	
			DEVELOPMENT WELL-GAS	GAS-WO	DEVELOPMENT REDRILL	39.61517270	-80.53132350 GRENADIER ENERGY PARTNERS LLC		1533.00 1532.00	13730.00 13450.00	7740.00 7680.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.61513990 39.59206100	-80.53116000 STATOR USA ONSHORE PROP INC -80.50243960 HADDAD & BROOKS INC	NAD27 NAD27	1532.00 983.00	8010.00	0.00
	Completed Wells/WHCS Completed Wells		DEEPER POOL WILDCAT-DISCOVERY DEVELOPMENT WELL-GAS	GAS-WO	DEEPER POOL WILDCAT DEVELOPMENT RECOMPLETION	39.59206100	-80,50243960 APPLIED MECHANICS	NAD27	983.00		0.00
			SHALLOWER POOL WILDCAT-DISCOVERY	GAS-WO	SHALLOWER POOL WILDCAT RECOMPLETION	39.59206100	-80.50243960 CNG TRANSMISSION CORP	NAD27	983.00	8010.00	0.00
			PILOT HOLE	PILOT	PILOT HOLE	39.61517270	-80.53132350 GRENADIER ENERGY PARTNERS LLC		1533.00	7911.00	0.00 0.00
	Completed Wells/WHCS		DEVELOPMENT WELL-OIL	OIL	DEEPER POOL WILDCAT	39.60352650	-80.52398230 SHELDON & ASSOC	NAD27 NAD27	960.00 1576.00		0.00
			DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	GAS GAS	DEVELOPMENT WELL DEVELOPMENT WELL	39.61542870 39.61151060	-80.52772870 DAC CORP -80.52866650 DAC CORP	NAD27	1545.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.61552780	-80.53213150 DAC CORP	NAD27	1519.00	3759.00	0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.61150940	-80.51424120 DAC CORP	NAD27	1574.00		0.00
			DEVELOPMENT WELL-GAS	GAS	NEW FIELD WILDCAT	39.57798480	-80.50004190 DAC CORP	NAD27 NAD27	1525.00 1450.00		0.00 0.00
		DIVERSIFIED PRODUCTION LLC DIVERSIFIED PRODUCTION LLC		GAS GAS	DEVELOPMENT WELL DEVELOPMENT WELL	39.60671300 39.62036380	-80.50992900 DAC CORP -80.52904090 DAC CORP	NAD27	1288.00		0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.61503400	-80.52247900 DAC CORP	NAD27	1402.00	3673.00	0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.61136470		NAD27	1209.00		0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.62606390	-80.53618990 DRILLING APPALACHIAN -80.52829230 DAC CORP	NAD27 NAD27	1400.00 1409.00		0.00 0.00
		DIVERSIFIED PRODUCTION LLC DIVERSIFIED PRODUCTION LLC		GAS GAS	DEVELOPMENT WELL DEVELOPMENT WELL	39.60317160 39.61078450		NAD27	1175.00		0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.61557340	-80.51386540 DAC CORP	NAD27	1381.00	3628.00	0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.61789550	-80.51555250 DAC CORP	NAD27	1175.00		0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.59364990		NAD27 NAD27	1372.00 1567.00		0.00 0.00
		DIVERSIFIED PRODUCTION LLC DIVERSIFIED PRODUCTION LLC		GAS GAS	NEW FIELD WILDCAT DEVELOPMENT WELL	39,57505380 39,60105930		NAD27	1384.00		0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.61905760		NAD27	1258.00		0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.57404180		NAD27	1015.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.59481790		NAD27 NAD27	1285.00 1365.00		0.00 0.00
		DUNN-MAR OIL & GAS CO MANUFACTURERS LIGHT & HEAT	UNCLASSIFIED DEVELOPMENT WELL-GAS	UNXWN ABD-GW	UNCLASSIFIED DEVELOPMENT WELL	39.57607600 39.60411200		NAD27	1462.00		0.00
			DEVELOPMENT WELL-GAS	ABD-GW	DEVELOPMENT WELL	39.58742100		NAD27	1328.00		0.00
302115	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.61412150	-80.51780010 DAC CORP	NAD27	1242.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.62239580		NAD27	1182.00		0.00 0.00
			DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL) DEVELOPMENT WELL-GAS	D&AW ABD-GW	DEVELOPMENT DEEPENING DEVELOPMENT WELL	39.59438320 39.58566700		NAD27 NAD27	937.00 1401.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.58785200		NAD27	1029.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.57083180		NAD27	1109.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.59162600		NAD27	1027.00		0.00 0.00
			DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.56842400 39.58442100		NAD27 NAD27	1064.00 1148.00		0.00
			DEVELOPMENT WELL-GAS UNCLASSIFIED	ABD-GW UNKWN	DEVELOPMENT WELL UNCLASSIFIED	39.58697400		NAD27	0.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.58436890		NAD27	1299.00		0.00
			DEVELOPMENT WELL-GAS	ABD-GW	DEVELOPMENT WELL	39.58742100		NAD27	1182.00		0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.57027100		NAD27 NAD27	979.00 1120.00		0.00 0.00
			DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	ABD-GW ABD-GW	DEVELOPMENT WELL DEVELOPMENT WELL	39.59119400 39.58813500		NAD27	1205.00		0.00
			DEVELOPMENT WELL-GAS	ABD-GW	DEVELOPMENT WELL	39.61309900		NAD27	1224.00	3013.00	0.00
			DEVELOPMENT WELL-GAS	GAS	DEVELOPMENT WELL	39.59277900		NAD27	0.00		0.00
			DEVELOPMENT WELL-GAS	ABD-GW	DEVELOPMENT WELL	39.58260300		NAD27 NAD27	1427.00		0.00 0.00
		DIVERSIFIED PRODUCTION LLC ALLIANCE PETROLEUM CO LLC	DEVELOPMENT WELL-GAS	GAS GAS	DEVELOPMENT WELL DEVELOPMENT WELL	39.61716300 39.59438320		NAD27	937.00		0.00
			DEVELOPMENT WELL-GAS	ABD-GW	DEVELOPMENT WELL	39.58586100		NAD27	1043.00		0.00
	Completed Wells/WHCS		DEVELOPMENT WELL-GAS	ABD-GW	DEVELOPMENT WELL	39.61426740	-80.51798710 DAC CORP	NAD27	1175.00		0.00
		DIVERSIFIED PRODUCTION LLC		GAS	DEVELOPMENT WELL	39.60177800		NAD27	0.00		0.00 0.00
		MANUFACTURERS LIGHT & HEAT MANUFACTURERS LIGHT & HEAT		ABD-GW ABD-GW	DEVELOPMENT WELL DEVELOPMENT WELL	39.60193500 39.59874200		NAD27 NAD27	1223.00 1165.00		0.00
			DEVELOPMENT WELL-GAS	ABD-CB	DEVELOPMENT WELL	39.59871700		NAD27	1244.00		0.00
		UNKNOWN	DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)	D&A-G	DEVELOPMENT WELL	39.59254600		NAD27	1177.00		0.00
			PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.58958600		NAD27	0.00		0.00 0.00
			UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.58275290 39.57665700		NAD27 NAD27	0.00		0.00
			UNCLASSIFIED UNCLASSIFIED	UNXWN	UNCLASSIFIED UNCLASSIFIED	39.56998100		NAD27	0.0		0.00
			UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.58595800	-80.49130500 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
			UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.58436100		NAD27	0.0		0.00
			UNCLASSIRED	UNKWN	UNCLASSIFIED UNCLASSIFIED	39.57317400 39.58566700		NAD27 NAD27	0.0		0.00 0.00
			UNCLASSIFIED UNCLASSIFIED	UNXWN	UNCLASSIFIED	39.57564100		NAD27	0.0		0.00
	Completed Wells	UNKNOWN	UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.57041600	-80.49973500 UNXNOWN	NAD27	0.0	0.00	0.00
			PSEUDO-ORIGINAL WELL - UNXNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.60293900		NAD27	0.0		0.00
			PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.59524700 39.60932500		NAD27 NAD27	0.0 0.0		0.00 0.00
			PSEUDO-ORIGINAL WELL - UNXNOWN CLASS PSEUDO-ORIGINAL WELL - UNXNOWN CLASS	PSEUDO PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS PSEUDO-ORIGINAL WELL - UNKNOWN CLASS			NAD27	0.0		0.00
			PSEUDO-ORIGINAL WELL - UNXNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.50750700 HOPE NATURAL GAS	NAD27	1349.0	0.00	0.00
			PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS			NAD27	0.0		0.00
301816			UNCLASSIFIED	UNXWN	UNCLASSIFIED UNCLASSIFIED	39.62907600 39.62282290		NAD27 NAD27	0.0	0.00	0.00
			UNCLASSIFIED UNCLASSIFIED	UNXWN	UNCLASSIFIED	39.62849500		NAD27	0.0	0.00	0.00
		MANUFACTURERS LIGHT & HEAT		UNKWN	UNCLASSIFIED	39.60714800		NAD27	0.0	0.00	\$70.∞
			UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.61019600		NAD27	0.0	0.00	Z 0.00
			UNCLASSIFIED UNCLASSIFIED	UNKWN	UNCLASSIFIED UNCLASSIFIED	39.60584200 39.60714800		NAD27 NAD27	0.0	0.00	6. Z.w
			UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.59234400		NAD27	0.0	0.00	3,5000
			UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.59074700		NAD27	0.0	0.00	\$ 000 m
											* \(\sigma \) \(\sigma \)
											23 6 34
										á	Office of City of Office of Office of City of Office of City of Office of Office of Office of City of Office of City of Office of Office of Office of Office of Office of Offi
										.0	
										Ō.	~ ~ ~ ?A
										7	~ ~~
											กั

371915 371916 371914	Completed Wells Completed Wells Completed Wells	UNXNOWN UNXNOWN UNXNOWN	UNCLASSIFIED UNCLASSIFIED UNCLASSIFIED	UNKWN UNKWN UNKWN	UNCLASSIFIED UNCLASSIFIED UNCLASSIFIED	39.60381000 39.60293900 39.60584200	-80.50543300 UNXNOWN -80.50361800 UNXNOWN -80.50543300 UNXNOWN	NAD27 NAD27 NAD27	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
371917	Completed Wells	UNKNOWN	UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.60787400	-80.50918000 UNKNOWN	NAD27	0.00	0.00	0.00
371918	Completed Wells	UNKNOWN	UNCLASSIFIED	UNXWN	UNCLASSIFIED	39.60714800	-80.51498700 UNKNOWN	NAD27	0.00	0.00	0.00
371921	Completed Wells	CARNEGIE NATURAL GAS CORP	UNCLASSIFIED	UNXWN	UNCLASSIFIED	39.60250300	-80.51611100 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
371922	Completed Wells	CARNEGIE NATURAL GAS CORP	UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.59785900	-80.51629810 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
371923	Completed Wells	UNKNOWN	UNCLASSITIED	UNKWN	UNCLASSIFIED	39.59539190	-80.51948300 UNKNOWN	NAD27	0.00	0.00	0.00
371925	Completed Wells	UNKNOWN	UNCLASSIFIED	UNXWN	UNCLASSIFIED	39.59960100	-80.51386300 UNKNOWN	NAD27	0.00	0.00	0.00
371926	Completed Wells	UNKNOWN	UNCLASSIFIED	UNXWN	UNCLASSIFIED	39.59698800	-80.50861800 UNKNOWN	NAD27	0.00	0.00	0.00
371919	Completed Wells	UNKNOWN	UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.60671300	-80.51629810 UNXNOWN	NAD27	0.00	0.00	0.00
370615	Completed Wells	UNKNOWN	UNCLASSIFIED	UNKWN	UNCLASSIFIED	39.59655300	-80.49973500 UNKNOWN	NAD27	0.00	0.00	0.00
370617	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNXWN	UNCLASSIFIED	39.59408500	-80.49617600 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
Horizontais											
	ACT_STATUS CX Completed Wells CX Completed Wells	CURR_OPER EQT PRODUCTION CO EQT PRODUCTION CO	FNL_CLASS DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	INIT_CLASS DEVELOPMENT WELL DEVELOPMENT WELL		LONGITUDE OPER_ 39.56398000 -80.48958100 EQT PR 39.56399560 -80.48968610 EQT PR	RODUCTION CO KB		3610.00	WELL_NAME 7770.00 WV 514744 BRO 7835.00 HS GLO76	WER ET AL



December 8, 2021

Via FedEx Overnight

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

RE:

Well Work Permit Modification Michael Kuhn 10H Well Permit Number 47-103-03414 Center District, Wetzel County, WV RECEIVED Office of Oil and Gas

DEC 0 9 2021

WV Department of Environmental Protection

WVDEP Recipient,

Attached please find following information to modify the existing Well Work Permit for this well:

- · Check in the amount of \$5,000 for the expedited permit fee
- Completed Form WW-6B and supporting documents, approved by the Oil and Gas Inspector
- · Revised Well Bore Diagram
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Hydraulic Fracturing Monitoring Plan

EQT is proposing to extend the lateral from the previously permitted length.

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

Best Regards,

John Zavatchan

Project Specialist - Permitting

jzavatchan@eqt.com

724-746-9073

12/17/2021



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Expedited Modification Horizontal H6A Well Work Permit (API: 47-103-03414)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Dec 15, 2021 at 11:08 AM

To: John <JZavatchan@eqt.com>, Todd <fklaner@eqt.com>, Erin Spine <espine@eqt.com>, "Shrum, Becky" <bshrum@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, "Harris, Bryan O" <bryan.o.harris@wv.gov>, Scott Lemley <slemley@wvassessor.com>

I have attached a copy of the newly issued well permit number "P7S2U". This will serve as your copy.

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

