## State of West Virginia

Department of Environmental Protection - Office of Oil and Gasoffice of Oil and Oil an

Well Operator's Report of Well Work

		=111	ROUMenies.	
API <u>47</u> <u>051 02088 County</u> Marshall	District V	Vashingto	n	
Quad Moundsville Pad Name Hines	Field/Poo	1 Name N	/ <b>A</b>	
Farm name_Donald Hines et UX		nber Hine		
Operator (as registered with the OOG) EQT CHAP LLC				
Address 400 Woodcliff Drive City Canonsburg	State	PA	Zip	15317
As Drilled location NAD 83/UTM Attach an as-drilled plat, profil  Top hole Northing 4,417,382.033	le view, and deviation  Easting 525.7			
Landing Point of Curve Northing	Easting			
Bottom Hole Northing 4,417,460.900	Easting 526,14	16.415		
Elevation (ft) 1125' GL Type of Well New DE	xisting Type	of Report	□Interim	■Final
Permit Type □ Deviated □ Horizontal ■ Horizontal 6A □	Vertical Dep	th Type	□ Deep	Shallow
Type of Operation □ Convert □ Deepen ■ Drill □ Plug Back	□ Redrilling □	Rework	□ Stimula	ite
Well Type □ Brine Disposal □ CBM	overy	ning 🗆 St	orage 🗆 C	Other
Type of Completion □ Single □ Multiple Fluids Produced □ Brine  Drilled with □ Cable ■ Rotary	e □Gas □ NGL	□ Oil	□ Other _	
Drilling Media Surface hole	ermediate hole 💄 A	ir □ Mud	□ Fresh	Water □ Brine
Date drining commenced		ate drilling	ceased	06/10/2019
Date completion activities began Date comp	3/24/2019 Da pletion activities ceas	sed	ceased	
Date completion activities began Date completion activities began Date completion activities began Date completed Date part date date date date date date date dat	pletion activities cease  VA Grante  5 days of verbal perr	seded by	N/A	
Date completion activities began Date completed	pletion activities cease  I/A Granto  5 days of verbal perreceives (Y/N) depths	seded bynission to p	N/A	
Date completion activities began Date completed	pletion activities cease  VA Grante  5 days of verbal perr	seded bynission to poths	N/A olug N	



Reviewed by:

API 47- 051	02088	Farm name_Donald Hines et UX				We	Well number_Hines M21H			
CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft		Basket Depth(s) (GL)	Did cement circ		
Conductor	30"	20"	50'	NEW	X-5	2 78.6#	N/A		Υ	
Surface	17-1/2"	13-3/8"	457'	NEW	J-5	5 54.5#	N/A	,	Y	
Coal										
Intermediate 1	12-3/8"	9-5/8"	2036'	NEW	L-8	30 40#	N/A		Υ	
Intermediate 2										
Intermediate 3										
Production							N/A		N	
Tubing										
Packer type and de	epth set						-			
CEMENT	uring cement  Class/Type	Numbe		y ,	Yield	Volum	e Ceme	ent	WOC	
DATA Conductor	of Cement	of Sacl			t <sup>3</sup> /sks)	(ft 3)	Top (C		(hrs)	
Surface	CLASS A	N/A	N/A		N/A	N/A	0		8+	
Coal	CLASS A	412	15.6	3	1.19	490	0		8	
Intermediate 1	01 400 4									
Intermediate 2	CLASS A	687	15.6	5	1.19	820	0		8	
Intermediate 3										
Production				_						
Tubing										
Orillers TD (ft)	6015'									
` '	ion penetrated !	MARCELLUS		Loggers TI						
Plug back proc				Plug back (	0 (II) <u>WA</u>					
Kick off depth	(ft) 1026'									
Check all wire		□ caliper □ neutron	□ density □ resistivity		ed/directi a ray		induction temperature	□sonic		
Well cored	Yes No	□ Conventi	onal	wall	W	ere cutting	gs collected	Yes 📕 No		
DESCRIBE TI	HE CENTRAL	IZER PLACEM	ENT USED FO	R EACH C	ASING S	TRING				
	E TRACK AND EVERY									
INTERMEDIATE: ON	SHOE TRACK AND E	VERY 500' FEET TO SU	RFACE							
WAS WELL O	COMPLETED .	AS SHOT HOLI	∃ □Yes □	No Di	ETAILS					
WAS WELL O	COMPLETED	OPEN HOLE?	□Yes □ N	o DET	AILS _					
WERE TRAC	ERS USED [	Yes 🗆 No	TYPE OF T	RACER(S)	USED _					

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1 ago	OI.

API	47	051	0	2088
API	4/-		-	

Farm name\_Donald Hines et UX

\_Well number\_\_\_\_

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Torritation(b)

Please insert additional pages as applicable.

## STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
								19
								1

Please insert additional pages as applicable.

API 47- 051 - 02088		Farm	Farm name Donald Hines et UX					Well 1	Well number_Hines M21H				
PRODUCING	<u>FORMAT</u>	ION(S	ì	<u>DEPTHS</u>	5								
						_ TVD			MD				
			===11										
									======				
Please insert ac	lditional pa	iges as	applicable.										
GAS TEST	□ Build u	p □I	Orawdown	□ Open	Flow		OII	LTEST 🗆 1	Flow [	2 Pump			
SHUT-IN PRE	SSURE	Surfac	e	psi	Botto	m Hole		psi	DURA	ΓΙΟΝ Ο	F TES	Г	hrs
OPEN FLOW	Gas		Oil di	]	NGL		W	ater	GAS N	⁄IEASU	RED B	Y	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH II NAME T	N FT	BOTTOM DEPTH IN FT TVD	TO: DEPTH MI	IN FT	BOTTO DEPTH II MD							NTITYAND _, GAS, H <sub>2</sub> S, ETC)
	0			0								, 01	5, 0710, 1175, 510)
					_								
				+									
				-									
							-						
		-		+									
Please insert ad	ditional na	nge ac	annlicable										
	-	_											
Drilling Contra Address 900 Via			Illing LLC			ObIt-				1807			
					City	Charlesto	on		State		Zip	25301	
Logging Comp		ific Drill	ing Internation	nal									
Address 124 Vis	sta Drive				City	Charleroi			State	PA	Zip _	15022	2
Cementing Cor	npany BJ	Service	S										
Address 1036 E	ast Main Stre	eet			City	Bridgepo	rt		State	WV	Zip	26330	)
	menting mpany										1.		
Address	parry				City	+	_		State	_	Zip		
Please insert ac	lditional pa	iges as	applicable.								—- <b>∠</b> ¹₽ .		
Completed by	Derek Ric	gway	its w					Telephone	412-395	-3139			
Signature 2	l R	Z	11 18	202) T	itle M	anaging Di	rector	of Drilling		Date 1	1/18/202	21	
			Link										

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API 47- 051 - 02088	Farm name_Donald Hines et UX	Well numb	er_Hines M21H
Drilling Contractor	C'A.		
Audioss	City	State	Zip
Logging Company			
Address	City	State	Zip
Logging Company			
Address	City	State	Zip
Drilling Contractor			
Address	O'I	State	Zip

	Well# Hines M2	1H Final Formations API	# 47-051-02088	
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	366	366
Waynesburg Coal	366	366	369	369
Sand/Shale	369	369	656	656
Pittsburgh Coal	656	656	662	662
Sand/Shale	662	662	1,596	1,594
Big Lime	1,596	1,594	1,658	1,656
Sand/Shale	1,658	1,656	1,832	1,829
Burgoon	1,832	1,829	1,985	1,981
Sand/Shale	1,985	1,981	2,199	2,193
Berea	2,199	2,193	2,220	2,214
Sand/Shale	2,220	2,214	2,456	2,450
Gordon	2,456	2,450	2,531	2,524
Sand/Shale	2,531	2,524	4,978	4,739
Elk	4,978	4,739	4,979	4,740
Sand/Shale	4,979	4,740	5,639	5,276
Rhinestreet	5,639	5,276	6,015	5,587

