State of West Virginia Department of Environmental Protection - Office of Oil and Gaoffice of Oil and Gao Well Operator's Report of Well Work

WV Department of Environmental Protection

			LOURING LICIOSION			
API <u>47</u> - <u>051</u> - <u>02087</u> County	Marshall	District Washingto	on			
Quad Moundsville Pad Nar	me Hines	Field/Pool Name N/A				
Farm name Donald Hines et UX		Well Number Hin				
Operator (as registered with the OOG) EQT CHA	AP LLC					
Address 400 Woodcliff Drive	City Canonsburg	State PA	Zip 15317			
Top hole Northing 4,41		and deviation survey Easting 525,717.088 Easting 526,312.958				
Elevation (ft) 1125' GL Type	of Well ■New □ Existing	Type of Report	t □Interim ■Final			
Permit Type Deviated Horizontal	Horizontal 6A D Vertica	al Depth Type	□ Deep ■ Shallow			
Type of Operation □ Convert □ Deepen ■ I	Drill □ Plug Back □ R	edrilling Rework	□ Stimulate			
Well Type □ Brine Disposal □ CBM ■ Gas □ G	Dil □ Secondary Recovery	☐ Solution Mining ☐ S	torage Other			
Type of Completion □ Single □ Multiple Flu Drilled with □ Cable ■ Rotary	iids Produced □ Brine □C	Gas □ NGL □ Oil	□ Other			
Drilling Media Surface hole ■ Air □ Mud □ Production hole □ Air □ Mud □ Fresh Water Mud Type(s) and Additive(s)		ate hole ■ Air □ Mud	d □ Fresh Water □ Brine			
Date permit issued10/05/2018 Date dri	lling commenced 03/24/2	Date drining	ceased06/17/2019			
Verbal plugging (Y/N) N Date permissi	on granted N/A	activities ceased Granted by	N/A			
Please note: Operator is required to submit a plugg	ing application within 5 days	of verbal permission to	plug			
Freshwater depth(s) ft 365	Open mine(s) (Y/N)	depths	N			
Salt water depth(s) ft 1039,1595,1632		red (Y/N) depths	N			
Coal depth(s) ft 365,655		tered (Y/N) depths				
Is coal being mined in area (V/N)	Υ	, , , , , ,				

Reviewed

Reviewed by: MJ/C 5/4/20 05/27/2022

API 47- 051	_ 02087	Farm name_Donald Hines et UX				We	Well numberHines M20H			
CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft		Basket Depth(s) (GL)		nt circulate (Y/N) e details below*	
Conductor	30"	20"	50'	NEW	X-52	2 78.6#	N/A		Y	
Surface	17-1/2"	13-3/8"	455'	NEW	J-55	54.5#	N/A		Y	
Coal										
Intermediate 1	12-3/8"	9-5/8"	2010'	NEW	L-8	0 40#	N/A		Υ	
Intermediate 2										
Intermediate 3										
Production							N/A		N	
Tubing							1777			
Packer type and de	epth set									
	uring cement j	ob.								
CEMENT DATA	Class/Type of Cement	Number	Oldii		ield	Volume			WOC	
Conductor	CLASS A	of Sack	s wt (pp		3/sks) N/A	(ft. ²) N/A	Top (C		(hrs)	
Surface	CLASS A	448	15.6		.19		0		8+	
Coal	027.007.1	140	15.0	<u> </u>	.19	533			8	
Intermediate 1	CLASS A	687	15.6		1.19	900				
Intermediate 2			13.0		1.13	820	0		8	
Intermediate 3										
Production										
Tubing										
Drillers TD (ft) Deepest formati Plug back proc	ion penetrated ^h edure	MARCELLUS		Loggers TI Plug back to	` '					
Kick off depth Check all wire		□ caliper □ neutron	□ density □ resistivity		ed/direction		induction temperature	□sonic		
Well cored	Yes No	□ Convention	onal	wall	W	ere cutting	gs collected	Yes 🔳	No	
DESCRIBE T	HE CENTRAL	IZER PLACEMI	ENT USED FO	R EACH CA	ASING ST	TRING =				
	E TRACK AND EVERY									
INTERMEDIATE: ON	SHOE THACK AND E	VERY 500' FEET TO SUF	RFACE							
WAS WELL (COMPLETED A	AS SHOT HOLE	□ Yes □	No DI	ETAILS					
WAS WELL (COMPLETED (OPEN HOLE?	□ Yes □ N	o DET.	AILS					
WERE TRAC	ERS USED	Yes 🗆 No	TYPE OF T	RACER(S)	USED _					

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API	47-	051	_	02087

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)

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)
								· · · · · · · · · · · · · · · · · · ·
				-				
				-				
:								

Please insert additional pages as applicable.

API 47- 051	_ 02087	Farm	name Donald Hi	nes et UX		Well n	umber	Hines M20H
PRODUCING :	FORMATION(<u>S)</u>	<u>DEPTHS</u>					
				TVD		MD		
Please insert ad	ditional pages a	s applicable.		-				
GAS TEST	□ Build up □	Drawdown	□ Open Flow	(DIL TEST 🗖	Flow 🗆	Pump	
SHUT-IN PRE	SSURE Surfa	ace	_psi Botto	m Hole	psi	DURAT	ION O	F TESThrs
OPEN FLOW	Gas	Oil			Water	GAS M	IEASU	RED BY
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN F MD				RECORD QUANTITYAND ER, BRINE, OIL, GAS, H2S, ETC)
	0		0					, , , , , , , , , , , , , , , , , , , ,
Please insert ad	ditional pages a	s applicable.						
Drilling Contra	ctor Highlands D	rilling LLC						
Address 900 Vir			City	Charleston		State	WV	Zip 25301
Logging Comm	any Scientific Dr	illing Internation	nal			<u></u>		
Address 124 Vis		ining internation	City	Charleroi		C4-4-	ΡΔ	7: 15022
-			City	-		State		Zip 15022
	npany BJ Service	es						
Address 1036 E	nenting		City	Bridgeport		State	WV	Zip <u>26330</u>
	mpany							
Address			City	+	0	State		Zip
Please insert ad	ditional pages a	s applicable.						•
Completed by	Derek Ridgway	100			Telephone	412-395	3139	
Signature D	1 P.S	11/18/20-	Title M	anaging Direc				1/18/2021
Submittal of Hy	ydraulic Fracturi	ng Chemical I	Disclosure Infor	mation	Attach copy o	f FRACE	OCUS	Registry

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API 47- 051 - 02087	Farm name_Donald Hines et UX	Well numb	_{er_} Hines M20H
Drilling ContractorAddress		State	7:n
Logging Company	Oily	State	Zip
Address	City	State	Zip
Logging Company			
Address	City	State	Zip
Drilling Contractor			
Address	City	State	Zip

	Well # Hines M20	OH Final Formations API#	47-051-02087	
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	1,596
Big Lime	1,596	1,596	1,658	1,657
Sand/Shale	1,658	1,657	1,832	1,831
Burgoon	1,832	1,831	1,985	1,983
Sand/Shale	1,985	1,983	2,199	2,196
Berea	2,199	2,196	2,220	2,217
Sand/Shale	2,220	2,217	2,456	2,452
Gordon	2,456	2,452	2,531	2,527
Sand/Shale	2,531	2,527	4,978	4,452
Elk	4,978	4,452	4,979	4,453
Sand/Shale	4,979	4,453	5,639	4,954
Rhinestreet	5,639	4,954	5,768	5,049

