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

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Office of Oil and Gas

JUN 1 4 2022

API <u>47</u> 051 02	2080 County Mars	hall	District Clay	WV Department of Environmental Protection
Quad Glen Easton	Pad Name Lo		Field/Pool Name	N/A
Farm name Graham H. Lo				ongworth M13H
Operator (as registered with	the OOG) EQT CHAP LLC	C		
Address 400 Woodcliff Drive	· -	Canonsburg	State PA	Zip 15317
Top l	nole Northing 4,410,845.5		asting 523,390.81	,
Landing Point of C	V		sting 523,391.18	
Bottom F	10le Northing 4,410,674.6	Ea	sting 523,423.67	
Elevation (ft) 1270'	GL Type of We	ell New Existing	Type of Rep	ort □Interim ■Final
Permit Type	□ Horizontal 💄 Hori	zontal 6A	Depth Type	□ Deep ■ Shallow
Type of Operation Conve	ert 🗆 Deepen 📕 Drill	□ Plug Back □ Red	rilling Rewor	k 🗆 Stimulate
Well Type □ Brine Disposa	al 🗆 CBM 💄 Gas 🗆 Oil 🗆	Secondary Recovery	Solution Mining	Storage
Type of Completion □ Sing Drilled with □ Cable ■	gle □ Multiple Fluids Pr Rotary	oduced □Brine □Ga:	s □ NGL □ Oi	l Other
Drilling Media Surface ho Production hole			e hole ■ Air □ N	Mud □ Fresh Water □ Brine
Date completion activities b	7/2018 Date drilling contact of the permission grade perm	Date completion ac	Date diffin	ng ceased03/16/2019 N/A
Please note: Operator is req	uired to submit a plugging ap	plication within 5 days of	f verbal permission	to plug
Freshwater depth(s) ft	99,605	Open mine(s) (Y/N) d	lepths	N
Salt water depth(s) ft	576,1998,2102,2139	Void(s) encountered		N
Coal depth(s) ft	583,853	Cavern(s) encounte	•	N
Is coal being mined in area	(Y/N) N			
izi	W. A. & Bancon . S. A. W. W. W. Co.			Reviewed by:
	W W _ 1	4		- 09/09/2022

API 47- 051	02080	Farm na	_{ime} _Graham l	H. Longwe	orth Jr.	w	ell numbe	r_Long\	worth M13H
CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft		Basket Depth(s) (Oid cement circulate (Y/N) * Provide details below*
Conductor	30"	20"	40'	NEW	X-52	78.67#	N/A		Υ
Surface	17-1/2"	13-3/8"	629'	NEW	J-55	54.5#	N/A		Υ
Coal									
Intermediate 1									Υ
Intermediate 2									
Intermediate 3									
Production									
Tubing									
Packer type and de	epth set								
CEMENT	No issues d	uring cement jo		y	Yield	Volun	ne	Cement	WOC
DATA Conductor	of Cement	of Sack			ft ³ /sks)	(ft ³		Top (GL)	(hrs)
Surface		N/A	N/A		N/A	N/A		0	8+
Coal	CLASS A	520	15.6		1.20	624		0	8
Intermediate 1									
Intermediate 2								0	8
Intermediate 3									
Production Production									
									8+
Tubing									
Orillers TD (ft) Deepest formati Plug back proc	ion penetrated edure	ig Injun		Loggers T Plug back					
Kick off depth	(ft)_N/A								
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity		ted/directi na ray		induction tempera		□sonic
Well cored	Yes No	□ Conventi	onal 🗆 Side	wall	W	ere cuttir	ngs collect	ted □ Y	es No
CONDUCTOR- NONE	HE CENTRAL		ENT USED FO	R EACH C	SASING S	TRING			
INTERMEDIATE: ON	SHOE TRACK AND E	VERY 500' FEET TO SU	RFACE						
WAS WELL (COMPLETED A	AS SHOT HOLI	E □Yes □	No D	ETAILS				
WAS WELL (COMPLETED (OPEN HOLE?	□ Yes □ N	o DET	TAILS _				
WEDE TDAC	ERS USED \Box	Ves - No	TYPE OF T	D A CED (C)	HOED				

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Farm name_Graham H. Longworth Jr.

__Well number____

PERFORATION RECORD

	MD ft.	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)
			in the second se					

Please insert additional pages as applicable.

API 47- 051	_ 02080	Farm	name Graham H	. Longworl	th Jr.		Well n	umber_	Longwo	orth M13	ВН	
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		OIL	TEST 🗆]	Flow 🗆	Pump				
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole		psi	DURAT	ION O	F TEST	Γ	hrs	
OPEN FLOW	Gas	Oil	NGL				GAS M	IEASU:	RED B	Y		
	mcf	pd	bpd	bpd		bpd	□ Estin	nated	□ Orif	ice [□ Pilot	
LITHOLOGY/	TOP	BOTTOM	ТОР	BOTTO								
FORMATION	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN MD		DESCRIBE I				-	FITYAND GAS, H₂S, ETC)	
	0		0			TITEOTIE	JOID (TRE	JIWAII	JK, DKII	ve, Oie,	GAS, 1125, ETC)	
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Please insert ad	lditional pages a	s applicable.										
	ctor Highlands I	Orilling LLC										
Address 900 Vir	ginia Street East		City	Charlesto	n		State	WV	Zip	25301		
Logging Comp	any Scientific Di	rilling Internatio	nal									
	chnology Dr Suite		City	Charleroi			State	PA	Zip	15022		
Comontino Com	npany BJ Servic	200					===\		_ т.	_		
Address 124 Vis			City	Bridgepor	1		State	WV	7:	26330		
_	nenting		City				_ State		Z ip .			
	mpany							D.A		10005		
Address Please insert ad	lditional pages a	s applicable.	City	====			State	PA	Zip	16335		
Completed by	Perek Ridgway	·				Telephone	412-205	-3130				
Signature 1	V RN	1	Title M	lanaging Dir	ector o	1 e1epnone of Drillina		Date 10	0/12/202	<u>.</u>		
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API 47- 051 - 02080	Farm name_Graham H. Longworth Jr.	Well number	Longworth M13H	
Drilling ContractorAddress	City	State	Zip	
Logging CompanyAddress	City	State	Zip	
Logging CompanyAddress		State	Zip	

_____ State ____ Zip ____

Drilling Contractor______ City

Well # Longworth M13H Final Formations API# 47-051-02080								
Formation Name Drill Top MD (ftGRD) Drill Top (TVD) (ftGRD) Drill Btm MD (ftGRD) Drill Btm (TVD)								
Sand/Shale	1	1	584	584				
Waynesburg Coal	584	584	584	584				
Sand/Shale	584	584	854	854				
Pittsburgh Coal	854	854	859	859				
Sand/Shale	859	859	1,873	1,867				
Big Lime	1,873	1,867	2,101	2,093				
Big Injun	2,101	2,093	2,151	2,142				

