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

WV Department of Environmental Protection

			CIVII	Olitherital Florection
API <u>47</u> _ 051 _ 01903	County Marshall	Di	strict Clay	
Quad Glen Easton	Pad Name Longwo		eld/Pool Name N/A	
Farm name Graham H. Longworth	Jr.		Vell Number Longwo	orth M03H
Operator (as registered with the OOG)	EQT CHAP LLC			
Address 400 Woodcliff Drive	City Cano	nsburg	State PA	Zip 15317
As Drilled location NAD 83/UTM Top hole	Attach an as-drilled Northing 4,410,840.45	plat, profile view, and d	leviation survey g 523,381.97	
	Northing 4,411,243.01		g 523,347.91	
Bottom Hole	Northing 4,412265.24		g 522,493.94	
Elevation (ft) 1270' GL	Type of Well	New □ Existing	Type of Report □I	nterim a Final
Permit Type Deviated He	orizontal 🚇 Horizonta	l 6A □ Vertical	Depth Type □	Deep A Shallow
Type of Operation □ Convert □ □	eepen 🖣 Drill 🗆 P	Plug Back □ Redrillir	ng 🗆 Rework 🗆	Stimulate
Well Type □ Brine Disposal □ CBM	I ■ Gas □ Oil □ Secon	ndary Recovery	ıtion Mining □ Storaş	ge 🗆 Other
Type of Completion □ Single □ Mul Drilled with □ Cable ■ Rotary	tiple Fluids Produce	ed □ Brine □Gas	□ NGL □ Oil □	Other
Drilling Media Surface hole 🛚 🛎 Air	☐ Mud ☐ Fresh Wate	r Intermediate hol	le Mair □ Mud :	□ Fresh Water □ Brine
	Fresh Water Brine		.v Elim Elima	Tresh water _ Dime
Mud Type(s) and Additive(s)	Dinio			
Synthetic Oil Based Mud 12.5 ppg barium sulfate, sodium chlor	ride, xanthan gum, polyanionic cellulose.	modified starch, sodium hydroxide, pho	neghonates and alkyl phophetes divi	taraldohyda aalutian laalaiyaa kuduusida
partially hydrolyzed polyacrylamide/polyacrylate, potassium				
Date permit issued 03/03/2017	Date drilling comme	-	Date drilling ceas	sed 03/11/2018
Date completion activities began		Date completion activit		NI/A
Verbal plugging (Y/N) N	Date permission granted	N/A	Granted by	N/A
Please note: Operator is required to su	abmit a plugging applicat	ion within 5 days of verb	bal permission to plug	
Freshwater depth(s) ft	99,605 _{Ot}	pen mine(s) (Y/N) depth	18	N
Salt water depth(s) ft 1576,199	9 2102 2120	Void(s) encountered (Y/		N
• ` '	050	Cavern(s) encountered (•	N
Is coal being mined in area (Y/N)				
				D

Reviewed

Reviewed by:

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft		Basket Depth(s) (GL)		circulate (Y/ N
Conductor	30"	20"	40'	NEW		218#	N/A	Tiovide	Y
Surface	17-1/2"	13-3/8"	630'	NEW		54.5#	N/A	1	Y
Coal									
ntermediate 1	12-3/8"	9-5/8"	2187'	NEW	L-80) 40#	N/A		Υ
ntermediate 2									
ntermediate 3									
roduction	8-1/2"	5-1/2"	11,517'	NEW	P-11	0 20#	N/A		N
Tubing									
acker type and o	depth set			11					
CEMENT DATA Conductor	Class/Type of Cement	Numbe of Sack	r Slu s wt (p	ppg) (1	Yield ft ³ /sks)	Volum (<u>ft ³</u>)	e Cen Top (WOC (hrs)
Surface	CLASS A	17BBLS			N/A		- ()	8+
Coal	CLASS A	483	15.	.6	1.20	579	()	8
ntermediate 1		-							
ntermediate 2	CLASS A	738	15.	.6	1.19	878	- ()	8
ntermediate 3									
roduction	01.400.11/01.400.1								
ubing	CLASS H/CLASS I	H 783/106	14.7/	15.2 1.1	14/1.15	892/12	20 21	44	8+
rillers TD (ft	11,537'								
• ,	tion penetrated MARG	CELLUS		Loggers Ti Plug back					
Lick off depth	n (ft) 5483'								
Check all wire	eline logs run	□ caliper □ neutron	□ density □ resistivity		ted/directio a ray		induction temperature	□sonic	
Well cored	□ Yes □ No	□ Convention	onal 🗆 Side	ewall	We	ere cutting	gs collected	□ Yes □	No
	THE CENTRALIZE	ER PLACEMI	ENT USED FO	OR EACH C	ASING ST	RING _			
DESCRIBE T		TO SURFACE							
CONDUCTOR- NONE	OE TRACK AND EVERY 500'		DE A O.E.						
CONDUCTOR- NONE SURFACE- ON SHI INTERMEDIATE: O	OE TRACK AND EVERY 500' N SHOE TRACK AND EVER' SHOE TRACK AND EVERY								
CONDUCTOR- NONE SURFACE- ON SHI INTERMEDIATE: O PRODUCTION: ON	N SHOE TRACK AND EVER	IOINT TO ABOVE TO	000	No D	ETAILS				

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API	47_	051		01903
AT I	4/-		_	

Farm name_Graham H. Longworth Jr.

_Well number_____M03H

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.

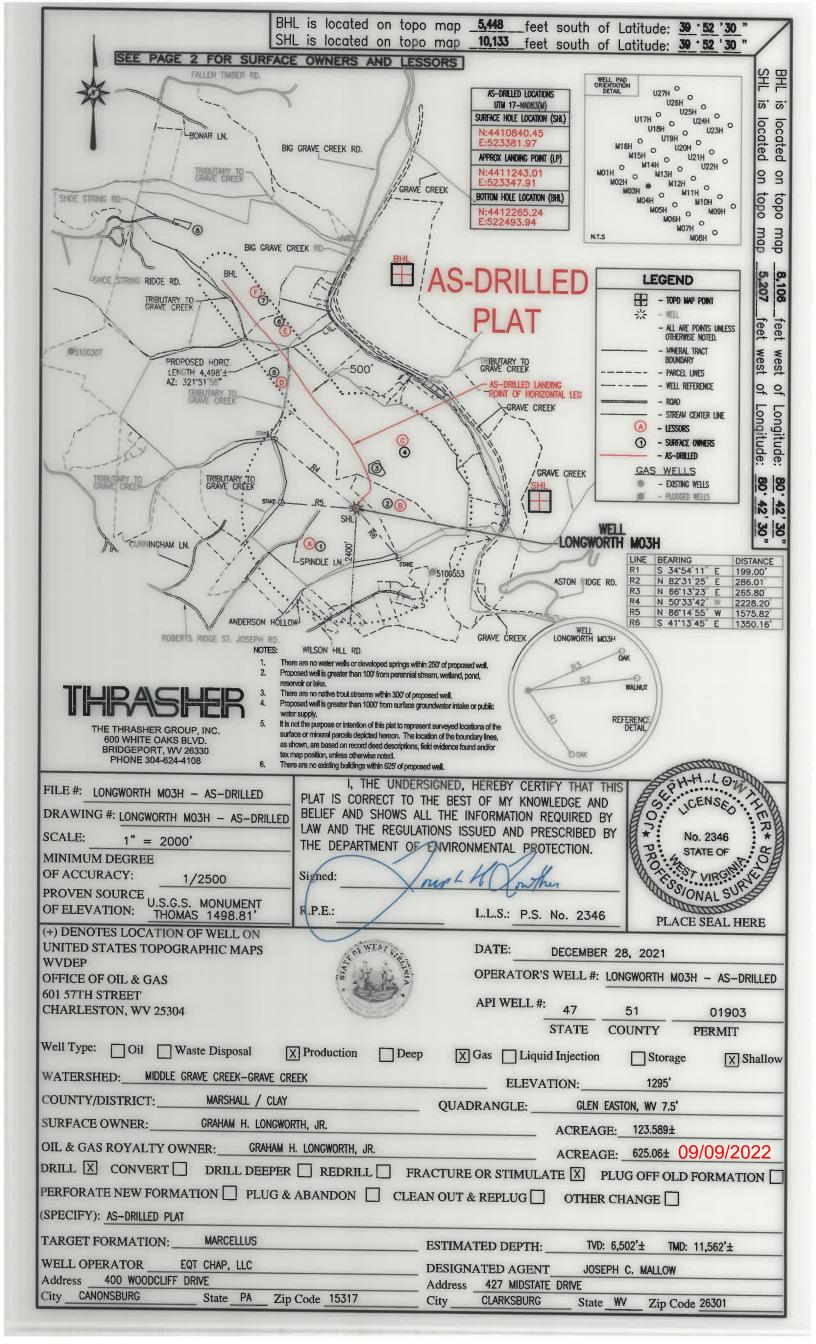
API 47- 051	_ 01903	Farm 1	name Graham H	l. Longwort	h Jr.		Well r	number_	Longworth N	Л 03Н
PRODUCING	FORMATION(<u>S)</u>	<u>DEPTHS</u>							
				TVD			MD			
					-					
Please insert ac	lditional pages a	s applicable.								
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL	TEST 🗆	Flow [Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole		psi	DURAT	TION O	F TEST	hrs
OPEN FLOW		Oil	NGL				GAS M	1EASU	RED BY	
	mcf	ipd l	opd	_ bpd _		bpd	□ Estin	nated	□ Orifice	□ Pilot
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTON	M					
FORMATION	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN MD						ANTITYAND IL, GAS, H ₂ S, ETC)
	0		0	IVID		TITEOFFI	ZOID (FKE	SUMAII	ER, BRINE, O	IL, GAS, H ₂ S, ETC)
	-				-					
					-					
		<u></u>			_					
					-					
Please insert ac	lditional pages a	is applicable.								
Drilling Contro	ıctor Highlands I	Drilling LLC								
Address 900 Vi		Jilling LLO	City	Charlestor	า		Stata	WV	Zip 2530	11
:			City				state		Zip	71
	Baker Hugh									
Address 400 Te	echnology Dr Suite	100	City	Canonsbu	rg		State	PA	Zip _1531	7
Cementing Con	mpany BJ Service	ces								
Address 1036 E	ast Main Street		City	Bridgeport			State	WV	Zip 2633	30
	menting								_ •	
Address	mpany		City		-		State		Zip	
	ditional pages a	ıs applicable.	City				State			
	Dorok Did									
	Derek Ridgway		pertia h.A.	onogin- Di-		Telephone			0.14.0.10.000.1	
Signature L	~ KU	7	Itle _W	anaging Dire	ector C	מחווות וי		Date _	0/12/2021	

WR-35 Rev. 8/23/13 API 47- 051 - 01903 Farm name_	Graham H. Longworth Jr.		Page of _
Ari 4/ Farm name_	Chanani in Longworth of	_Well number_	Longworth M03H
Drilling Contractor Precision Drilling Address 10350 Richmond Ave. Suite 700	City Houston	State TX	Zip 77042
Logging Company Scientific Drilling Internal Address 124 Vista Drive	tional City Charleroi	State PA	Zip 15022
Logging CompanyAddress	City	_State	_ Zip

Address _____ City ____ State ___ Zip ____

Drilling Contractor_____

	Well # Lor	ngworth M03H Final Forr	nations API# 47-051-01	1903
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	583	583
Waynesburg Coal	583	583	583	583
Sand/Shale	583	583	853	853
Pittsburgh Coal	853	853	858	858
Sand/Shale	858	858	1,872	1,870
Big Lime	1,872	1,870	2,100	2,098
Big Injun	2,100	2,098	2,182	2,180
Sand/Shale	2,182	2,180	2,819	2,816
Gantz	2,819	2,816	2,880	2,877
Gordon	2,880	2,877	2,960	2,957
50F	2,960	2,957	3,009	3,006
Sand/Shale	3,009	3,006	3,088	3,085
Bayard	3,088	3,085	3,453	3,448
Sand/Shale	3,453	3,448	5,255	5,213
Alexander	5,255	5,213	5,692	5,642
Elks	5,692	5,642	6,365	6,202
Sonyea	6,365	6,202	6,492	6,284
Middlesex	6,492	6,284	6,532	6,309
Genesee	6,532	6,309	6,612	6,360
Geneseo	6,612	6,360	6,650	6,382
Tully	6,650	6,382	6,737	6,428
Hamilton	6,737	6,428	6,910	6,489
Marcellus	6,910	6,489	11,537	6,519



MO3H PAGE 2 OF 2 AS-DRILLED PLAT

	LESSOR	DIST-TM/PAR		
A	GRAHAM H. LONGWORTH, JR. ET AL	4-11/1		
В	GRAHAM H. LONGWORTH, JR. ET AL	4-11/2		
	LISA NICEWARNER			
	JULIA RODGERS			
	KEITH FRIESE			
	MARK FREISE			
	ANTHONY FREISE			
	JAMES FRIESE			
	HENRY FREISE			
	STEVEN FRIESE			
	GRAHAM H. LONGWORTH, JR. ET AL	4-12/16		
	SHERI L. EVRAETS FAMILY TRUST			
	LISA NICEWARNER			
	JULIA RODGERS			
	KEITH FRIESE			
	MARK FREISE			
	ANTHONY FREISE			
	JAMES FRIESE			
	HENRY FREISE			
	STEVEN FRIESE			
)	BRETT A. ANDREWS ET UX	4-12/19		
	MARY ANN BAKER	4-12/10		
	ULMAN TRUST MARY ANN BAKER TRSTE			
	DIOCESE OF WHEELING - CHARLESTON			
	ROBERT S. WUERTHELE			
	MARK K. WUERTHELE			
	JEFFREY A. WUERTHELE			
	MICHAEL D. WUERTHELE ET UX			
	SISTERS OF ST. FRANCIS PROV OF GOD			
	SUSAN ZIDAR ET VIR			
	VICKIE L. MARKEY IRREVOCABLE TRST			
	JMK IREV TRST	4-12/3		
	PURPLEBURGH VENTURES LLC	1 12/3		
	MARCELLUS TX MINERAL PRINRS LTD			

	SURFACE OWNER	DIST-TM/PAR
1_	GRAHAM H. LONGWORTH, JR.	4-11/1
2	GRAHAM H. LONGWORTH, JR.	4-11/2
3	DANIEL C., SR. & JEANNETTE L. LONGWORTH	4-12/16.1
4	DANIEL C. LONGWORTH	4-12/16
5	CODY M. JARRETT	4-12/19
6	THOMAS HAUGHT ET AL	4-12/10
7	MERLE CHAPLIN ET UX	4-12/3
В	MERLE R. & JEAN E. CHAPLIN	4-12/3.1



09/09/2022



THE THRASHER GROUP, INC. 600 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 PHONE 304-624-4108