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

APR 5 2022

			MIN BULDEE
API <u>47</u> - <u>051</u> <u>01933</u> County M	larshall	District Washington	WV Department of Environmental Protection
Quad Moundsville Pad Name	Hines	Field/Pool Name N/A	
Farm name Donald Hines et UX		Well Number Hines	M11H
Operator (as registered with the OOG) EQT CHAP	LLC		
Address 400 Woodcliff Drive Ci	ty Canonsburg	State PA	Zip 15317
As Drilled location NAD 83/UTM Attach an a Top hole Northing 4,417,3	as-drilled plat, profile view, a	nd deviation survey asting 525,708.14	
Landing Point of Curve Northing 4,418,1	96.39 Ea	sting 526,589.23	
Bottom Hole Northing 4,420,3	853.27 Ea	sting 524,779.60	
Elevation (ft) 1125' GL Type of	`Well ■New □ Existing	Type of Report	Interim Final
Permit Type Deviated Horizontal I	Horizontal 6A	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Dril	ll □ Plug Back □ Red	lrilling Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil	□ Secondary Recovery □	Solution Mining Store	age Other
Type of Completion □ Single □ Multiple Fluid	s Produced □ Brine □Ga	s 🗆 NGL 🗆 Oil 🖂	Other
Drilled with □ Cable ■ Rotary			
Drilling Media Surface hole ■ Air □ Mud □Fr	esh Water Intermediat	e hole ■ Air □ Mud	□ Fresh Water □ Brine
Production hole ■ Air ■ Mud □ Fresh Water	□ Brine		E Billio
Mud Type(s) and Additive(s)			
Synthetic Oil Based Mud 12.6 ppg barium sulfate, sodium chloride, xanthan gum, polyan	ionic cellulose, modified starch, sodium hydroxi	de, phosphonates and alkyl phophates, o	lutaraldahyda salutian, calaium hydrovida
partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbo			
Date permit issued08/15/2017 Date drilling	ng commenced12/14/20	17 Date drilling ce	ased06/24/2018
Date completion activities began	Date completion as	ctivities ceased	
Verbal plugging (Y/N)N Date permission	granted N/A	Granted by	N/A
Please note: Operator is required to submit a plugging	g application within 5 days of	verbal permission to plu	g
Freshwater depth(s) ft 365	Open mine(s) (Y/N) o	lenths	N
Salt water depth(s) ft 1039,1595,1632	Void(s) encountered	*	N
Coal depth(s) ft 365,655	Cavern(s) encounter	` ' 1	N
Is coal being mined in area (Y/N)			-

Reviewed

Reviewed by: MJK 5/4/2022

Rev. 8/23/13 API 47- 051 CASING STRINGS		Farm nar	_{me_} Donald H	lines et LD				
STRINGS	Hole			inics et Oz	(W	ell number_Hir	nes M11H
Candina		Casing Size	Depth (GL)	New or Used	Grade wt/ft		Basket Depth(s) (GL)	Did cement circulate (Y/ N * Provide details below*
Conductor	30"	20"	45'	NEW		218.82#	N/A	Y
Surface	17-1/2"	13-3/8"	397'	NEW	-	5 54.5#	N/A	Y
Coal						7 0 11.011	14/7	<u> </u>
Intermediate 1	12-3/8"	9-5/8"	1988'	NEW	1-8	0 40#	N/A	Y
Intermediate 2						1011	1975	
Intermediate 3								
Production	8-1/2"	5-1/2"	17,834'	NEW	D 1	10 20#	N/A	
Tubing		0 1/2	17,004	INCAA	F-1	10 20#	N/A	N
Packer type and de	epth set							
producing for CEMENT	mation. No issue	s during cerr	nent job.		Yield	Volum		00' TVD above the
DATA	of Cement	of Sacks			t ³ /sks)	(ft ³)		
Conductor	CLASS A	N/A	N/A		N/A	N/A	0	
Surface	CLASS A	344	15.6		1.20	412	0	8
Coal								
Intermediate 1	CLASS A	627	15.6		1.19	746	0	8
Intermediate 2								
Intermediate 3								
Production	CLASS H/CLASS H	776/230	6 14.7/15	5.2 1.1	3/1.15	876/26	51 164	14 8+
Tubing								
Drillers TD (ft) Deepest formati Plug back proce	17,875' on penetrated MARC edure	ELLUS		Loggers TI Plug back t			,	'
Kick off depth		□ caliper □ neutron	□ density □ resistivity	deviat	ed/directi a ray		induction temperature	□sonic
Well cored	Yes No	□ Convention	nal	wall	W	ere cuttin	gs collected	Yes No
CONDUCTOR- NONE	HE CENTRALIZE		NT USED FO	R EACH C	ASING S	TRING		
	E TRACK AND EVERY 500' T SHOE TRACK AND EVERY		FACE					
	HOE TRACK AND EVERY JO							
WAS WELL C	COMPLETED AS S	SHOT HOLE	□ Yes □	No Di	ETAILS			

WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED _

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API 47- 051 - 01933

Farm name _____Donald Hines et UX

_Well number____Hines M11H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from	Perforated to	Number of	
INO.		MD ft.	MD ft.	Perforations	Formation(s)
1	6/26/18	17733	17638		Marcellus
2	2/3/19	17600	17438	70	Marcellus
3	2/3/19	17400	17238	50	Marcellus
4	2/4/19	17200	17038	50	Marcellus
5	2/4/19	17000	16838	50	Marcellus

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)
11	2/3/19			4910		399544	11916	
2	2/3/19			5031		401646	9284	
3	2/3/19			4532		402206	9448	
4	2/3/19			4440		403002	9441	
5	2/4/19			3419		405840	9348	
						+		

Please insert additional pages as applicable.

API 47- 051	_ 01933	Farm i	name Donald Hi	nes et UX		Well numb	per_Hines M11H	
PRODUCING	FORMATION(S	<u>S)</u>	<u>DEPTHS</u>					
				TVD		MD		
						====		
Please insert ad	lditional pages a	s applicable.						
GAS TEST	□ Build up □	Drawdown	□ Open Flow	OI	LTEST 🗆 F	Flow 🗆 Pur	mp	
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION	N OF TEST	hrs
OPEN FLOW	Gas	Oil	NGL opd	W	ater	GASMEA	STIPED BY	
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD			ND RECORD QUANTIT ATER, BRINE, OIL, GA	
	0		0					
Please insert ad	lditional pages a	s applicable.						
	ctor Highlands E	* *						
Address 900 Vir		Jaming LLO	City	Charleston		State WV	Zip 25301	
							Zip	
	any Baker Hugh chnology Dr Suite		G':	Cananahura		o DA	15017	
Address 100 10	omiology Dr Oute	100	City	Canonsburg		_State PA	Zip _15317	
	npany BJ Service	es						
Address 1036 E	ast Main Street nenting		City	Bridgeport		State WV	Zip 26330	
	mpany							
Address			City	+		State	Zip	
Please insert ad	lditional pages a	s applicable.						
Completed by	John Zavatchan				Telenhone	724-746-9073		
Signature	MA	9/	Title Pr	oject Specialist - Per			4/1/2022	
Submitted of H	ydraulic Fracturi	ing Chemical I	Disclosure Info	mation A	attach copy of	f FRACFOC	US Registry	

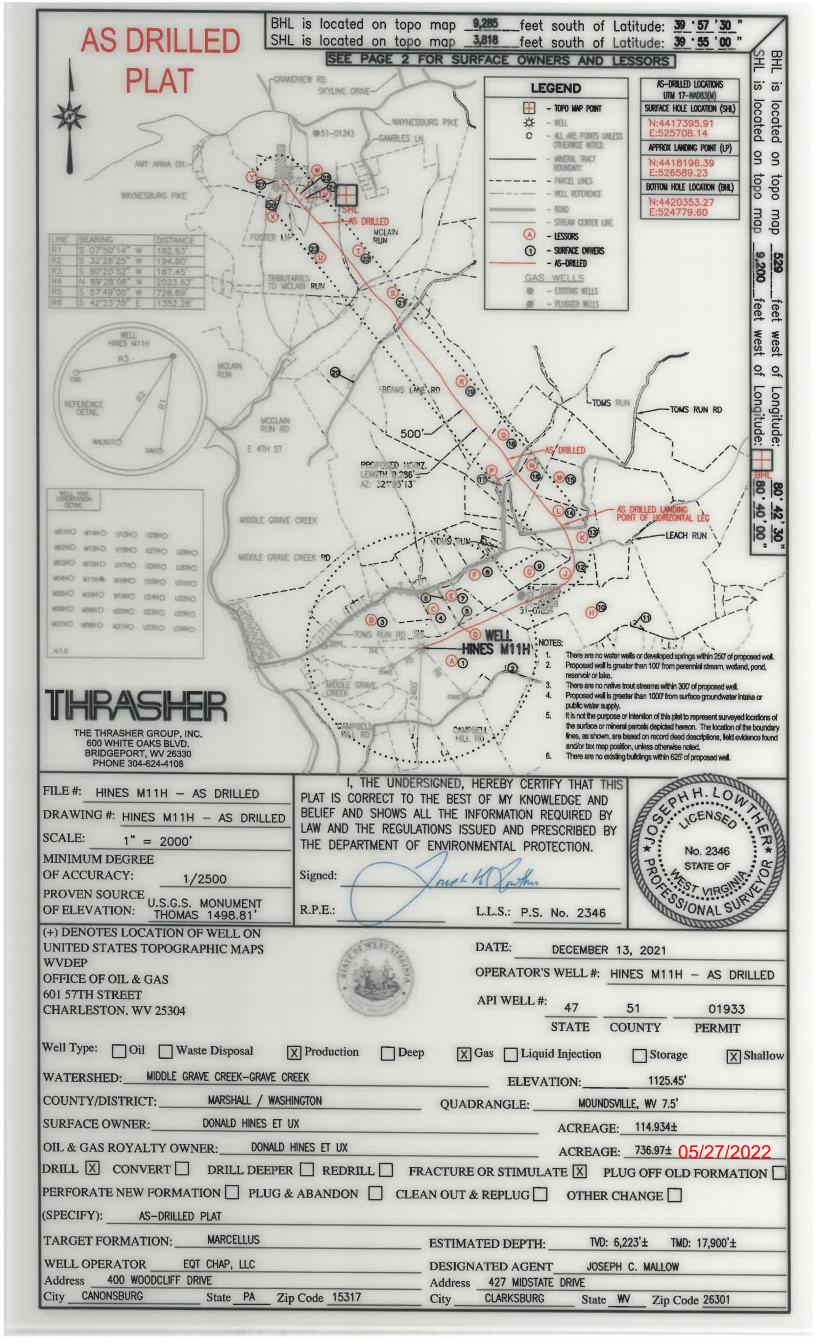
WR-35 Page of Rev. 8/23/13 API 47- 051 _ 01933 Farm name Donald Hines et UX _____Well number Hines M11H Drilling Contractor Precision Drilling Address 10350 Richmond Ave. Suite 700 City Houston State TX Zip 77042 Logging Company Scientific Drilling International State PA Zip 15022 Address 124 Vista Drive City Charleroi Logging Company Address City State _____Zip ____ Drilling Contractor

State Zip

City

Address

		1H Final Formations API		
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	365	365
Waynesburg Coal	365	365	368	368
Sand/Shale	368	368	655	655
Pittsburgh Coal	655	655	661	661
Sand/Shale	661	661	1,595	1,595
Big Lime	1,595	1,595	1,657	1,657
Sand/Shale	1,657	1,657	1,831	1,831
Burgoon	1,831	1,831	1,984	1,984
Sand/Shale	1,984	1,984	2,198	2,198
Berea	2,198	2,198	2,219	2,219
Sand/Shale	2,219	2,219	2,455	2,453
Gordon	2,455	2,453	2,530	2,526
Sand/Shale	2,530	2,526	4,977	4,320
Elk	4,977	4,320	4,978	4,321
Sand/Shale	4,978	4,321	5,638	4,737
Rhinestreet	5,638	4,737	7,583	5,954
Sonyea	7,583	5,954	7,758	6,040
Middlesex	7,758	6,040	7,833	6,072
Genesee	7,833	6,072	7,929	6,111
Geneseo	7,929	6,111	7,991	6,137
Tully	7,991	6,137	8,073	6,171
Hamilton	8,073	6,171	8,293	6,247
Marcellus	8,293	6,247	17,875	6,287



HINES M11H PAGE 2 OF 2 AS DRILLED

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX.	14-12/30
2	TERRY L. DERROW ET UX.	14-12/30.3
3	ARNIE N. GOODNIGHT ET UX.	14-12/25
4	*EDWARD DAVID KNUTH ET UX.	14-12/27
5	*EDWARD DAVID & KATHY JO KNUTH	14-12/28.1
6	FNMA	14-12/27.1
7	*FNMA	14-12/28
8	*JODI LYNN & TERRY A. HARDING	14-12/29
9	ROGER A. BRADY	14-9/36
10	OKEY L. RINE, JR.	14-11/1
11	STEVEN M. LAVENSKI	14-11/1.1
12	ROGER A. BRADY	14-9/35
13	JAMES M. HOOKER	14-9/33
14	JAMES M. HOOKER	14-9/32
15	*JAMES M. HOOKER	14-9/32.1
16	KEVIN DREW & RAYETTA RINE	14-9/31
17	KEVIN DREW RINE ET UX.	14-9/31.4
18	TERRY A., SR. & GLORIA G. WOOD	14-9/29
19	RAY WILLIAM NEEHOUSE ET UX.	14-9/21
20	RICHARD N. & SHARON L. SWISHER	14-9/20.1
21	ALAN NEIL & BRENDA CROW	14-9/20
22	G. ROBERT SCANLON ET UX.	14-7/47
23	DAVID LEE WHITE ET UX.	14-8/39
24	CURTIS W. WEST JR. ET UX.	14-8/37
25	BERRY A. WHITE	14-8/36.1
	CHARLES LAWRENCE MARTIN	14-8/38
27	PATRICIA METZ ET AL-LIFE	14-8A1/5

AS-DRILLED LOCATIONS UTM 17-HAD83(M)	S
SURFACE HOLE LOCATION	(SHL)
N:4417395.91 E:525708.14	
APPROX LANGING POINT	(LP)
N:4418196.39 E:526589.23	
BOTTOM HOLE LOCATION (BHL)
N:4420353.27 E:524779.60	

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
В	WILLIAM F. RULONG	14-12/25
	CHARLES BURTON RULONG	
	ROGER GLEN RULONG	
	TRUSTEES LIMESTONE PRESBYTERIAN CHURCH	
	CLYDE DOWLER ET UX	
	GARY MORRISON	
	ELIZABETH Y. MORRISON	
	LAURA J. REYES	
	ROBERT L. RULONG	
	DALE FRANCIS FURBEE	
	HAROLD DEAN FURBEE	1
	JOHN T. MORRIS	
	DRU ELLA FOX	
	LYNN ELLEN COOK	i i
	ETHEL M. RULONG	
	TERRY LEE RULONG	
	RICHARD J. RULONG	-
	TRACEY LYNN RULONG	
C	*EULALIA MAE SIMMONS	14-12/27
D	*EULALIA MAE SIMMONS	14-12/28.1
E	*EULALIA MAE SIMMONS	14-12/28
F	*JODI LYNN HARDING ET VIR	14-12/29
G	ROGER AND LINDA BRADY	14-9/36
Н	OKEY L. RINE JR.	14-11/1
J	ROGER AND LINDA BRADY	14-9/35
K	SHERI L. EVRAETS TRST DATED 12/29/2010	14-9/33
	BOUNTY MINERALS II ACQUISITIONS LLC	
L	SHERI L. EVRAETS TRST DATED 12/29/2010	14-9/32
	BOUNTY MINERALS II ACQUISITIONS LLC	
М	*SHERI L. EVRAETS TRST DATED 12/29/2010	14-9/32.1
	*BOUNTY MINERALS II ACQUISITIONS LLC	
N_	KEVIN RINE ET UX	14-9/31
Р	KEVIN RINE ET UX	14-9/31.4
Q	TERRY WOOD ET UX	14-9/29
R	RAY AND MARY NEEHOUSE	14-9/21
S	ALAN AND BRENDA CROW	14-9/20
Τ	ROBERT SCANLON ET UX	14-7/47
U	DAVID AND GENELDA WHITE	14-8/39
٧	CURTIS W. WEST ET UX	14-8/37
W	BERRY WHITE	14-8/36.1
X	CHARLES LAWRENCE MARTIN ET UX	14-8/38
Y	PATRICIA L. METZ	14-8A1/5

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

05/27/2022



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