Is coal being mined in area (Y/N)

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

_{47 -} 051 02158 County Marshall District Washington API Field/Pool Name NEAvironmental Protection Ouad Moundsville Pad Name Hines Farm name Donald Hines et UX Well Number Hines M13H 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, profile view, and deviation survey Northing 4,417,405.08 Top hole Easting 525,708.36 Landing Point of Curve Northing Easting Northing 4,417,766.84 Easting 526,339.59 Bottom Hole Elevation (ft) 1125' GL Type of Well ■New □ Existing Type of Report □Interim ■Final Permit Type □ Deviated □ Horizontal Horizontal 6A □ Vertical Depth Type □ Deep Shallow Type of Operation □ Convert □ Deepen Drill □ Plug Back □ Redrilling □ Rework □ Stimulate Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Secondary Recovery □ Solution Mining □ Storage □ Other Type of Completion □ Single □ Multiple Fluids Produced

Brine □Gas □ NGL □ Oil □ Other Drilled with

Cable Drilling Media Surface hole ■ Air □ Mud □ Fresh Water Intermediate hole Air Mud Fresh Water Brine □ Fresh Water □ Brine Mud Type(s) and Additive(s) 02/22/2019 Date permit issued 03/21/2019 05/27/2019 Date drilling commenced Date drilling ceased Date completion activities began Date completion activities ceased Verbal plugging (Y/N) Date permission granted N/A N/A Granted by Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug 365 Ν Freshwater depth(s) ft Open mine(s) (Y/N) depths 1039,1595,1632 Salt water depth(s) ft___ Void(s) encountered (Y/N) depths 365,655 Coal depth(s) ft Cavern(s) encountered (Y/N) depths



Reviewed by: 5/11/3 (05/27/2022)

API 47- 051	_ 02158	Farm name_Donald Hines et UXWell number_Hines M13H							
CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft		Basket Depth(s) (GL)		circulate (Y/N) details below*
Conductor	30"	20"	50'	NEW	X-52	78.6#	N/A		Y
Surface	17-1/2"	13-3/8"	460'	NEW	J-55	5 54.5#	N/A		Υ
Coal									
Intermediate 1	12-3/8"	9-5/8"	2039'	NEW	L-8	80 40#	N/A		Υ
Intermediate 2									
Intermediate 3								1	
Production							N/A	-	N
Tubing							1		
Packer type and de	epth set								
Comment Details No issues d	uring cement jo	ob.							
CEMENT	Class/Type	Number			Yield	Volum		ent	WOC
DATA Conductor	of Cement	of Sacks			t ³/sks)	(ft ³			(hrs)
Surface	CLASS A	N/A	N/A		N/A	N/A			8+
Coal	CLASS A	448	15.6	5	1.19	533	0		8
Intermediate 1	CLASS A	007	45.0						
Intermediate 2	CLASS A	687	15.6	5	1.19	817	0		8
Intermediate 3									
Production									
Tubing									
	6365'								
Drillers TD (ft)	ion penetrated M	ARCELLIS		Loggers T	1 /				
Plug back proc		ANOLLEGS		Plug back	to (ft) N/A				
ring back proc	edule								
Kick off depth Check all wire	•	□ caliper □ neutron	□ density □ resistivity		ted/directi a ray		induction temperature	□sonic	
Well cored	Yes No	□ Convention	onal 🗆 Side	wall	W	ere cuttin	igs collected	⊐ Yes 📕 1	No
DESCRIBE TO	HE CENTRALI	ZER PLACEME	ENT USED FO	R EACH C	ASING S	TRING			
	E TRACK AND EVERY								
INTERMEDIATE: ON	I SHOE TRACK AND EV	'ERY 500' FEET TO SUR	IFACE						
WAS WELL (COMPLETED A	AS SHOT HOLE	□ Yes □	No D	ETAILS	-			
WAS WELL	COMPLETED (PEN HOLE?	□ Yes □ N	lo DET	AILS _				
WERE TRAC	ERS USED 🗆	Yes □ No	TYPE OF T	RACER(S)	USED _				

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Lugo	O.

API	47	051	02158
ΑГΙ	4/-		

Farm name____Donald Hines et UX

_Well number____Hines M13H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					1 Officeron(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)
								1

Please insert additional pages as applicable.

API 47- 051	_ 02158		Farm	name_Donald F	lines et UX			Well n	umber_	Hines M	113H		
PRODUCING	FORMATI	ON(S)		<u>DEPTHS</u>	TVD			MD					
			-			_							
Please insert ad	lditional pa	ges as ap	plicable.										
GAS TEST	□ Build up	□ Dra	wdown	□ Open Flow		OIL	ΓEST □]	Flow 🗆	Pump				
SHUT-IN PRE	SSURE	Surface		_psi Bott	om Hole_		psi	DURAT	ION OI	F TEST	·	hrs	
OPEN FLOW	Gas		Oil	NGL bpd		Wate	er	GAS M	IEASUI	RED B	Y	□ Pilot	
LITHOLOGY/ FORMATION	TOP DEPTH IN NAME T	FT DE	BOTTOM EPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTO DEPTH II MD	NFT I						VTITYAND , GAS, H₂S, ETC)	
	0	-		0									_
					-								_
													_
													_
					+								_
													_
													_
Please insert ad	lditional pa	ges as ap	plicable.										
Drilling Contra			ng LLC										
Address 900 Vir	ginia Street E	ast		City	Charlesto	on		State	WV	_ Zip _	25301		
Logging Comp Address 400 Te				City	7 Canonsb	urg		State	PA	Zip _	15317		
Cementing Cor	mpany BJ S	Services											
Address 1036 E	ast Main Stre			City	Bridgepo	rt		State	WV	Zip	26330	l	
	menting mpany												
Address				City	, +			State		Zip			
Please insert ad	lditional pa	ges as ap	plicable.										
Completed by	Derek Rid	gway				-	Геlephone	412-395	-3139				
Signature 1	I R	V	1/18/20	Title _	Managing Di				Date 11	/18/202	1	====\vi	

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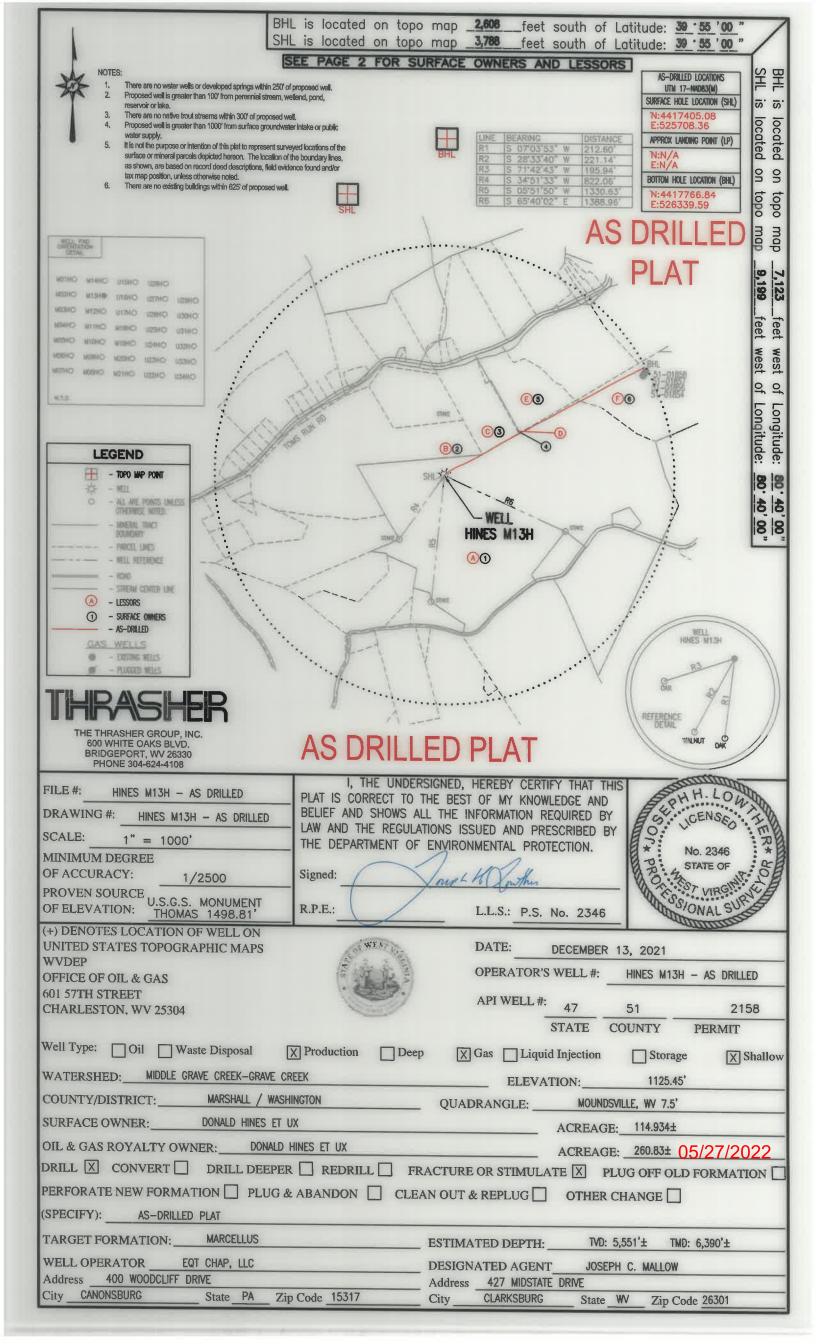
_____State ____Zip__

City

Drilling Contractor

Address

	Well # Hines M1	3H Final Formations API	# 47-051-02158	
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	1,658
Sand/Shale	1,658	1,658	1,832	1,832
Burgoon	1,832	1,832	1,985	1,985
Sand/Shale	1,985	1,985	2,199	2,199
Berea	2,199	2,199	2,220	2,220
Sand/Shale	2,220	2,220	2,456	2,454
Gordon	2,456	2,454	2,531	2,528
Sand/Shale	2,531	2,528	4,978	4,483
Elk	4,978	4,483	4,979	4,484
Sand/Shale	4,979	4,484	5,639	4,982
Rhinestreet	5,639	4,982	6,365	5,526



HINES M13H PAGE 2 OF 2

AS DRILLED PLAT

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2*	ARNIE N. GOODNIGHT ET UX	14-12/25
3*	EDWARD DAVID KNUTH ET UX	14-12/27
4*	EDWARD DAVID & KATHY JO KNUTH	14-12/28.1
5*	TOBIAS G. & JESSICA D. BROWN	14-12/28
6		11 12/20

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
В	LYNN ELLEN COOK	14-12/25
	WILLIAM F. RULONG	
	CHARLES BURTON RULONG	
	GARY MORRISON	1
	ELIZABETH Y. MORRISON	1
	ROGER GLEN RULONG	
	TRUSTEES LIMESTONE PRESBYTERIAN CHURCH	1
	CLYDE DOWLER ET UX	1
	DRU ELLA FOX	1
	LAURA J. REYES	1
	DALE FRANCIS FURBEE	1
	HAROLD DEAN FURBEE	
	JOHN T. MORRIS	
	ETHEL M. RULONG	
	RICHARD J. RULONG	
	ROBERT L. RULONG	1
	TERRY LEE RULONG	1
	TRACEY LYNN RULONG	
С	EULALIA MAE SIMMONS	14-12/27
D	EULALIA MAE SIMMONS	14-12/28.1
E	EULALIA MAE SIMMONS	14-12/28
F		11 12/20

AS-DRILLED LOCATIONS UTM 17-NADB3(M)
SURFACE HOLE LOCATION (SHL)
N:4417405.08 E:525708.36
APPROX LANDING POINT (LP)
N:N/A E:N/A
BOTTOM HOLE LOCATION (BHL)
N:4417766.84 E:526339.59

05/27/2022

* - DENOTES PARCEL WITHIN 30 FEET OF WELL BORE

