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

API <u>47</u> 061 01710	County Monon	galia	_{District} Clay	
Quad Blacksville, WV	Pad Name Cam		Field/Pool Name	
Farm name Ellen F. Campbell			Well Number	1H
Operator (as registered with the OOG)	Northeast Natura	l Energy, LLC		
Address 707 Virginia Street East, S	Guite 1200 City Ch	arleston	State WV	Zip 25301
	Northing 4394766.9	led plat, profile viev	v, and deviation surve Easting 569970.9	y
	Northing 4394751.6		Easting 569708.3	
Bottom Hole N	Northing 4396924.7		Easting <u>568262.6</u>	
Elevation (ft) 1,293.6' GL	Type of Well	■New □ Existing	g Type of Rep	oort ∎Interim □Final
Permit Type Deviated Ho	orizontal 💄 Horizo	ntal 6A 🛭 Verti	cal Depth Type	e 🗆 Deep 📱 Shallow
Type of Operation □ Convert □ D	eepen 🗂 Drill	□ Plug Back □ 1	Redrilling Rewo	rk 🗆 Stimulate
Well Type □ Brine Disposal □ CBM	☐ Gas □ Oil □ Se	condary Recovery	□ Solution Mining □	☐ Storage ☐ Other
Type of Completion □ Single □ Mul Drilled with □ Cable ■ Rotary	tiple Fluids Prod	uced 🗆 Brine 🗆	Gas □ NGL □ O	il 🗆 Other
Drilling Media Surface hole Air Production hole Air Mud Mud Type(s) and Additive(s) Synthetic Based Mud - Horizontal Section M-I-X II MEDIUM, MEGADRIL P SYSTEM, MEGADRIL PS	Fresh Water Brin	CIUM CHLORIDE PO	WDER, G-SEAL PLUS,	· · · · ·
				TO STATE THE STORY, WINDOWN THE TENDENT THE STORY
Date permit issued 6/17/2015	Date drilling com	menced 7/20/2	2015 Date drill	ing ceased2/16/2016
Date completion activities began	12/8/2016	Date completion	activities ceased	4/4/0047
Verbal plugging (Y/N) [Date permission grante	ed	Granted by	
Please note: Operator is required to su	bmit a plugging applic	cation within 5 days	s of verbal permission	to plug
Freshwater depth(s) ft	1,190'	Open mine(s) (Y	/N) depths	N
<u> </u>	000'	Void(s) encounte	red (Y/N) depths	Office of Silver
Coal depth(s) ft 200';	940'		ntered (Y/N) depths _	N and Gas
Is coal being mined in area (Y/N)				APR 0 3 2017
			graves of the e	WV Department of Vironmental Protection 05/26/201

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API 47- 061	01710	Fari	n name_E	llen F.	Campbell		Wel	l number_1	1	
CASING STRINGS	Hole Size	Casing Size	Γ	Depth	New or Used	Grade wt/ft		Basket Depth(s)	Did cement circulate (\) * Provide details belo	
Conductor	30	24		50	N		N/A	N/A	Y to surface	
Surface	17.5	13 3/8	1	,262	N		54.5		Y 38 bbl return	'n
Coal										
Intermediate 1	12.25	9 5/8	2,	427'	N		40	N/A	Y 20 bbl return	'n
Intermediate 2										
Intermediate 3				-						
Production	8.5	5.5	17	',340'	N		20	N/A	Y 10 bbl return	 n
Tubing	N/A	2-3/8		,559	N		4.7	N/A	N/A	
Packer type and o	lepth set	N/A				_1				
Comment Details	3									
CEMENT DATA	Class/Type of Cement		mber Sacks	Sluri wt (pr		Yield ft ³ /sks)	Volume (ft 3)		nent WOC (MD) (hrs)	
Conductor	4,500 psi ready	mix 3	6.4			.75 27.2		27 CTS	TS 48	1
Surface	Class A	1,	054	15.2	2	1.27	1.27 1,271		TS 8	
Coal										
Intermediate 1	Class A	8	89	89 15.2		1.26 1,074		C-	TS 8	
Intermediate 2										
Intermediate 3										
Production	50/50 Premium NE - 1.3% R-3.3%	MPA 170 2,	804	14.5	5	1.17	2,661	C.	TS 48	
Tubing										
Drillers TD (f Deepest forma Plug back pro Kick off depth Check all wire	ation penetrated ocedure		er □d	ensity	Plug back		ional □ i	nduction emperature	□sonic	
DESCRIBE T	Yes No THE CENTRALI	Conve IZER PLACE	entional	Side	wall	W	Vere cutting	•	■ Yes □ No	
Intermediate: bow sp	ring centralizers every 3r	d joint or aprox 120		D to KOP the	n bow spring fron	n KOP to 9 5/8"	every forth joint o	r aprox 140'		
WAS WELL	COMPLETED A	AS SHOT HO	DLE =	Yes 🗆	No I	ETAILS		Office of	CEIVED Oil and Gas	
WAS WELL	COMPLETED (OPEN HOLE	? □ Y€	es 🖪 N	Jo DET	TAILS _		APR	0 3 2017	
WERE TRAC	ERS USED 🗆	Yes 💄 No	TY.	PE OF T	RACER(S)	USED _	Env	WV Dep.	artment of	
			*****			·			- roughly	

Farm name Ellen F. Campbell API 47- 061 _ 01710 __Well number_1H

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)
						The Pile	GEIVED	
						Office of	Oil	
							and	Gas
						AFR	0 3 2017	
						1.6.76 -	- 40//	
Please	insert addition	onal pages as a	pplicable.		E	WV Dep.	artment c)f
							'Utec	tion

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API 47- 061 - 01710		Farm	_{name} Ellen F.	Campbel	<u> </u>	Well number_1H			
PRODUCING FORMATION(S)		<u>S)</u>	DEPTHS						
Marcellus			8,092.07'	TVD	17,363'	MD			
-					*				
(211									
-					***************************************				
Please insert ac	lditional pages a	s applicable.				-			
GAS TEST 🗆 Build up 🗆 Drawdown			■ Open Flow O		OIL TEST Flow Pump				
SHUT-IN PRE	SSURE Surf	ace 3889	psi Botto	m Hole	psi	DURATION	OF TEST 48 hrs		
OPEN FLOW Gas Oil 4992 mcfpd			NGL Water bpd bpd						
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN MD	FT DESCRIBE R) RECORD QUANTITYAND TER, BRINE, OIL, GAS, H ₂ S, ETC)		
	0		0			Please	see Attachment		
11									
									
									
							,		
Please insert ac	 ditional pages a	s applicable.							
Drilling Contra	actor Nabors								
Address CO Rd	7		City	Jane Lew		_ State _WV	Zip _26378		
	any KLX Energy V. Veterans Memor		0.,	Bridgeport		State WV	Zip 26330		
Address 6072 V	v. votorans memor		City			_State _WV	Zip		
Cementing Con Address 1080 L	mpany Schlumbe JS 33	erger	City	Weston		_State _WV	Zip <u>26452</u>		
Stimulating Co	mpany Baker I	Hughes							
Address 837 Ph		<u>~</u>	City	Clarksburg	_	State WV	Zip 26301		
	lditional pages a	s applicable.	•				*		
Completed by	, Zack Arnold				Telenhone	304-203-8059			
Signature	70/		Title _G	eneral Mana	ger - Operations		31 mARI7		
Submittal of H	ydraulic Fractur	ing Chemical l	Disclosure Info	rmation	Attach copy of	FRACFOCU	S Registry		