02/03/2017

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



API <u>47</u> <u>061 </u> 01686	County Mononga	alia Di	istrict Clay	
Quad Blacksville, WV	_{Pad Name} Coasta	al Fi	eld/Pool Name	
Farm name Coastal Forest Resource		W	Vell Number 5H	
Operator (as registered with the OOG)	Northeast Natural E	Energy LLC		
Address 707 Virginia Street, E., St			State WV	Zip 25301
As Drilled location NAD 83/UTM Top hole	Attach an as-drilled	l plat, profile view, and d Eastin	leviation survey	
	Northing 4395494.8		g 568229.4	
Bottom Hole N	Northing 4397100.4	Easting	g 566998.3	
Elevation (ft) 1,420 GL	Type of Well	New □ Existing	Type of Report	Interim ■Final
Permit Type Deviated Ho	rizontal 📱 Horizont	al 6A 🗆 Vertical	Depth Type	Deep 🖪 Shallow
Type of Operation □ Convert □ De	eepen 🛢 Drill 🗆 🗎	Plug Back 🗆 Redrillii	ng □ Rework 🛚	Stimulate
Well Type \Box Brine Disposal \Box CBM	■ Gas □ Oil □ Seco	ndary Recovery	tion Mining Stora	ige 🗆 Other
Type of Completion □ Single ■ Mult	tiple Fluids Produc	ed ■ Brine ■Gas		Other
Drilled with □ Cable ■ Rotary			21.02 201 2	<u> </u>
Dimed with E cubic E roomy				
Drilling Media Surface hole ■ Air	□ Mud □Fresh Wate	er Intermediate hol	le ■ Air 🗆 Mud	□ Fresh Water □ Brine
Production hole □ Air ■ Mud □	Fresh Water Brine			
Mud Type(s) and Additive(s) Synthetic Based Mud for horizontal section, BIC	D-BASE 365, CALCIUM CHL	ORIDE POWDER, G-SEAL PL	LUS, HRP, LIME, M-I WAT	TE (BARITE), M-I-X !I MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM REN	TAL, MEGAMUL, SAFE-CARB	250, VERSATHIN HF, VERSAWE	T, VG-PLUS, VINSEAL MEDI	UM, WALNUT NUT PLUG MEDIUM
Date permit issued 10/28/2014	Date drilling comm	enced 12/14/2014	Date drilling cea	ased 4/7/2015
Date completion activities began	12/8/2015	Date completion activit	ties ceased 12	/15/2015
Verbal plugging (Y/N) D	ate permission granted		Granted by	
Please note: Operator is required to sul	omit a plugging applica	tion within 5 days of verl	bal permission to plu	g
				MECEIVED
Freshwater depth(s) ft	1,243'	Open mine(s) (Y/N) dep	oths Offic	e of Oil and Gas
Salt water depth(s) ft 2,		Void(s) encountered (Y/		
Coal depth(s) ft 600, 1		Cavern(s) encountered (N 2016
Is coal being mined in array	PEON		WV	Department of
	21 011	4		
NAME:	Joseph 10			02/03/201
DATE:	Harry 16			

WR-35 Rev. 8/23/13

API 47- 061	01686	Farm name	Coastal F	orest Res	ources	Well nur	mber_5H_	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Bask Depti		Did cement circulate (Y/N) * Provide details below*
Conductor	30	24	50'	N	N/A	ż	N/A	Y to surface
Surface	17.5	13 3/8	1,387'	N	54.5		N/A	Y 45 bbis
Coal								
Intermediate 1	12.25	9 5/8	2,794'	N	40		N/A	Y 15 bbls
Intermediate 2								
Intermediate 3								
Production	8.5	5.5	15,373'	N	20		N/A	
Tubing							1	·
Packer type and d	epth set	I						
Comment Details		Monto	SI		77-11		0	Wod
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg		/ield :3/sks)	Volume (ft.3)	Cement Top (MI	
Conductor	4,500 psi ready mix	36.4			.75	27.27	CTS	48
Surface	Class A	1,192	15.2	,	.27	1,271	CTS	8
Coal					0			V
Intermediate 1	Class A	906	15.2		1.26	1,074	CTS	8
Intermediate 2								
Intermediate 3			110					
Production	50/50 Premium NE - 1.3% R-3.3% MPA 1	79 2,960	14.5	-	.17	2,661	CTS	48
Tubing								
Drillers TD (fit Deepest forma Plug back pro Kick off depth	tion penetrated Mar cedure	cellus		Loggers T Plug back	D (ft) 15,360' to (ft) N/A			
Check all wire	line logs run	_	density resistivity	□ deviat	ed/directional	l □ induc □ temp		□sonic
Well cored	Yes No	Conventional	Sidew	all	Were	cuttings col	lected	Yes □ No
Surface: bow spring centre Intermediate: bow spr	HE CENTRALIZE silizers every 3rd joint or aprox 120 ing centralizers every 3rd join ied spiral centralizers every or	t or aprox 120'				_		
WAS WELL O	COMPLETED AS	SHOT HOLE	∄Yes □]	No Di	ETAILS 34 S	itages, 40 Shots	per Sta	RECEIVED De of Oil and Gas
WAS WELL (COMPLETED OPE	N HOLE?	Yes ■ No	DET.	AILS			OCT 1 9 2016
WERE TRAC	ERS USED - Ye	s II No 7	YPE OF TR	ACER(S)	JSED		W _V Envire	Department of nmental Protection

API 47- 061 _ 01686

Farm name Coastal Forest Resources

_Well number_5H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1					Please See Attachment
1 6					
	# #		-		
i)		7		
	Ï				
					1-73-
					- 430-1
0	i .			501	

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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)
TE.		·	£		Please	See	Attachment
			(i				
						1	
					0.		
					1/		
						DEARN	
			1		0.00	HECEIV	/ED
			1 1		Offi	ce of Oil	and Gas
			Date Rate (BPM) Pressure (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs) Please Please	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs) Water (bbls) Please See

Please insert additional pages as applicable.

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Please insert additional pages as applicable

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Drilling Contractor Pioneer 63						
Address 1250 NE Loop 410 Suite 1000	City	Sar. Antonio		tate	TX	Zip 78209
Logging Company Baker Hughes						
Address 837 Philippi Pike	City	Clarksburg	S	State	WV	Zip <u>26301</u>
Cementing Company CalFrac Well Services						
Address 717-17 Street, Suite #1445	City	Denver	S	tate	CO	MEGENED
Stimulating Company Schlumberger					Offic	PAGENTED OF OII and Gas
Address 1080 US-33	City	Weston	S	State	WV	0 Zip 26452 - 9 316
Please insert additional pages as applicable.						oci - 9 316
Completed by Zack Arnold Signature	Title G	eneral Manager	Telephone 304 r - Operations	4.212. E ŋ	0¥3⁄2√ Yato <u>r</u>	Department of Mental Protection
						- 41011