WR-35 Rev. 8/23/13

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 01688 County Monor	igalia Dis	strict Clay	
Quad Blacksville, WV Pad Name Coa	stal Fie	eld/Pool Name	
Farm name Coastal Forest Resources Company		ell Number 13H	
Operator (as registered with the OOG) Northeast Natura	ıl Energy LLC		
Address 707 Virginia Street, E., Suite 1200 City Ch	narleston	State WV	Zip 25301
Top hole Northing 4395406.8		568198.1	
Landing Point of Curve Northing 4395668.9		568325.1	
Bottom Hole Northing 4397091.0	Easting	567253.1	
Elevation (ft) 1,420' GL Type of Well	■New □ Existing	Type of Report 🗆 I	nterim Final
Permit Type Deviated Horizontal Horizontal	ontal 6A 🛛 Vertical	Depth Type	Deep Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redrillin	ig □ Rework 🛔	Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Se	econdary Recovery Solut	tion Mining 🗆 Storag	ge 🗆 Other
Type of Completion □ Single ■ Multiple Fluids Proc	luced Brine Gas	□ NGL □ Oil □ 0	Other
Drilled with □ Cable ■ Rotary			
•			
Drilling Media Surface hole ■ Air □ Mud □Fresh W	ater Intermediate hole	e ■Air □Mud □	Fresh Water 🗆 Brine
Production hole 🗆 Air 📕 Mud 🗆 Fresh Water 🗆 Bri	ne		
Mud Type(s) and Additive(s) Synthetic Based Mud for horizontal section, B!O-BASE 365, CALCIUM C	HLORIDE POWDER, G-SEAL PL	US, HRP, LIME, M-I WATE	E (BARITE), M-I-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CA	RB 250, VERSATHIN HF, VERSAWET	, VG-PLUS, VINSEAL MEDIU	M, WALNUT NUT PLUG MEDIUM
Date permit issued 10/28/2014 Date drilling con	nmenced 11/21/2014	Date drilling ceas	
Date completion activities began12/21/2015	Date completion activiti	ies ceased1/3	3/2016
Verbal plugging (Y/N) Date permission grant	ed	Granted by	
Please note: Operator is required to submit a plugging appli	ication within 5 days of verb	al permission to plug	
Freshwater depth(s) ft1,243'	Open mine(s) (Y/N) dept	ths	RECEIVED
Salt water depth(s) ft 2,510'	Void(s) encountered (Y/I	N) depths	e o N s and Gas
Coal depth(s) ft600', 1,200'	Cavern(s) encountered (N
Is coal being mined in area	OVED	Wy	Department of
NAME: Hay	1) Kin	-i viiODI	mental Projection
DATE: 12/16/2	vil		02/03/20
·			

API 47-061	01688	F	arm name_(Coastal Fo	orest Resou	rces Com	oany _{Wel}	I number 10	3H		
CASING STRINGS	Hole Size	Casing Size		Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/ N) de details below*	
Conductor	30	24	Ĭ	50	N	N.	/A	N/A		Y to surface	
Surface	17.5	13 3/8	31	,380′	N	54	1.5	N/A	1	/ 40 bbl return	
Coal							j				
Intermediate 1	12.25	9 5/8	2	,732'	. N	4	0	N/A	Y	Y 15 bbi return	
ntermediate 2	ž.							•			
ntermediate 3						V.					
roduction	8.5	5.5	(4)	1,728'	N	2	0	N/A	Esti	mated top 2000'	
ubing								-		,	
acker type and d	lepth set										
Comment Details											
CEMENT DATA	Class/Type of Cement		Number of Sacks	Slurry wt (pp		Yield t ³/sks)	Volume (ft ²)	Тор		WOC (hrs)	
Conductor Surface	4,500 psi ready	mix	36.4			.75	27.27		TS	48	
Coal	Class A	- 51	1,054	15.2		1.27	1,271	C	TS	. 8	
		- 59		ļ							
ntermediate 1	Ciass A		889	15.2		1.26	1,074	t CT	TS		
				ļ							
ntermediate 3				1							
roduction ubing	50/50 Premium NE - 1.3% R-3.3	% MPA 170	2,804	14.5		1.17	2,661	Estimate	ed 2,000'	48	
Plug back pro		wide CokUS			Plug back	ιο (π) ΝΑ					
Check all wire	line logs run		_	lensity esistivity	□ deviat ■ gamm	ted/directio a ray		nduction temperature	□sonic	;	
Well cored [Yes 🖪 No	Co	iventional	Sidev	vail	We	re cutting	s collected	■ Yes =	No	
Surface: bow spring cent Intermediate: bow spr	HE CENTRAL ralizers every 3rd joint or ap ring centralizers every 3 lied spiral centralizers e	rox 120' rd joint or aprox	120'								
WAS WELL (COMPLETED	AS SHOT	HOLE =	Yes □	No Di	ETAILS 2	29 stages, 40	shots per stage	BEA	FIVED	
WAS WELL	COMPLETED	OPEN HO	LE? DY	es 🛮 No	o DET	AILS				and Gas	
WERE TRAC	ERS USED [Yes =	No TY	PE OF TI	RACER(S)	USED		W	V Depa	or Culb	
								Eliviro	nment	ertment of al 192/192/1 8/	

API 47-061 01688

Farm name Coasta! Forest Resources Company Well number 13H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1					Please See Attachment
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	5			10	
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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)
		j	}			Please	See	Attachment
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Please insert additional pages as applicable.

WV Department of Environmental Police 17

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Submittal of Hydraulic Fracturing Chemical Disclosure Information