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

AUG 0 1 2017

API <u>47 -</u> 051 <u>-</u> 016 Quad Powhatan Point	810 County Pad Nam	ne MND 1	Field/Pool	Name V	Environmental larcellus
Farm name CNX Gas Co			Well Nun	ber MN	D 1 AHS
Operator (as registered with the	ne OOG) Noble En	nergy, Inc.			
Address 1001 Noble En	ergy Way	City Houston	State	Texas	Zip 77070
As Drilled location NAD 87 Top ho Landing Point of Cur Bottom Ho	le Northing 39.8	n as-drilled plat, profile v 50009	Easting80.77	4286	
Elevation (ft) 1152.08	_ GL Type o	of Well BNew 🗆 Exis	ting Type	of Report	■Interim □Final
Permit Type Deviated	□ Horizontal 📕	Horizontal 6A 🗆 Ve	ertical Dept	h Type	□ Deep ■ Shalle
Type of Operation □ Convert	□ Deepen □ Di	rill 🗆 Plug Back	□ Redrilling □	Rework	□ Stimulate
Well Type □ Brine Disposal Type of Completion □ Single Drilled with □ Cable ■ R		il □ Secondary Recove			
Type of Completion □ Single Drilled with □ Cable ■ R Drilling Media Surface hole Production hole □ Air □ N	e 🗆 Multiple Flui otary	ids Produced Brine Fresh Water Intern	□Gas □ NGL	□ Oil	□ Other
Type of Completion □ Single	e Multiple Flui otary Air Mud Flui otary Air Mud Fresh Water	ids Produced	□Gas □ NGL	□ Oil r □ Mud	□ Other □ Fresh Water □ Br
Type of Completion Single Drilled with Cable R Drilling Media Surface hole Production hole Air N Mud Type(s) and Additive(s)	e 🗆 Multiple Flui otary — Air — Mud — F Mud — Fresh Water /2015 — Date drilli	ids Produced	□Gas □ NGL mediate hole □ Ai 31/2015 Dat tion activities cease	□ Oil r □ Mud e drilling c	□ Other □ Fresh Water □ Br
Type of Completion □ Single Drilled with □ Cable ■ R Drilling Media Surface hole Production hole □ Air □ M Mud Type(s) and Additive(s) Date permit issued 03/18/ Date completion activities beg	e Multiple Flui otary Air Mud Flui Mud Fresh Water Air Date drilling Air Date permission	ids Produced	Gas □ NGL mediate hole □ Ai 31/2015 Dat tion activities cease Grante	□ Oil r □ Mud e drilling ced d by	□ Other Breased07/31/201 na
Type of Completion Single Drilled with Cable R Drilling Media Surface hole Production hole Air N Mud Type(s) and Additive(s) Date permit issued 03/18/ Date completion activities beg Verbal plugging (Y/N) Please note: Operator is required.	e Multiple Flui otary Air Mud Flui Mud Fresh Water Mud Fresh Water Date drilling Date Date permission Date Date Table Table Table Date Date Table Table Date Date Table Table Date Date Table Date Date Date Date Table Date Date Date Date	ids Produced	Gas □ NGL mediate hole □ Ai 31/2015 Dat tion activities cease Grante	□ Oil r □ Mud e drilling ced d by ission to p	□ Other Breased07/31/201 na
Type of Completion Single Drilled with Cable R Drilling Media Surface hole Production hole Air N Mud Type(s) and Additive(s) Date permit issued 03/18/ Date completion activities beg	e Multiple Flui otary Air Mud Flui Mud Fresh Water Mud Fresh Water Date drilling Date Date permission Date Date Table Table Table Date Date Table Table Date Date Table Table Date Date Table Date Date Date Date Table Date Date Date Date	ids Produced	Gas □ NGL nediate hole □ Ai 31/2015 Dat tion activities cease Grantee	□ Oil r □ Mud e drilling of ed d by ission to p	□ Other □ Fresh Water □ Breased 07/31/201 na

API 47- 051	_ 01810	Farm na	me_CNX Gas	Company	, LLC ET A	L_Well r	number Mi	ND 1 AHS
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		asket epth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	40'	New	LS/117			
Surface								
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production								
Tubing								
Packer type and d	epth set					I		
Comment Details	*set only the cor	nductor.						
CEMENT	Class/Type	Number	Slurry		'ield	Volume	Ceme	nt WOC
DATA Conductor	of Cement	of Sacks	wt (ppg	g) (ft	³ /sks)	(ft. ²)	Top (M	ID) (hrs)
Surface								
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3							<u> </u>	
Production							-	
Tubing							-	
ruomg			L				<u> </u>	
•				Loggers T	D (ft) 40' to (ft)			
Kick off depth	(ft) NA							
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity		ed/directional ray		uction iperature	□sonic
Well cored	Yes 🗆 No	Convention	nal Sidew	/all	Were o	cuttings c	ollected 🗆	Yes No
DESCRIBE TI	HE CENTRALI	ZER PLACEME	NT USED FOR	R EACH CA	SING STRII	NG		
WAS WELL C	COMPLETED A	AS SHOT HOLE	□ Yes □ ∑	No DE	TAILS		Offic	RECEIVED se of Oil and Gas
WAS WELL C	COMPLETED C	PEN HOLE?	□ Yes □ No	DETA	AILS			AUG 0 1 2017
WERE TRACE	ERS USED 🙃	Yes □ No	TYPE OF TR	ACER(S) U	ISED	-		Department of

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API	47-	051	_	01810

Farm name_CNX Gas Company, LLC ET AL_Well number_MND 1 AHS

PERFORATION RECORD

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

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)
NA								
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Please insert additional pages as applicable.

WV Department of Environmental Protection

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Signature VIII Date 06/19/2017

Completed by Dee Swiger

Telephone 724-820-3061

