JAN **27** 2017

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

API <u>47</u> - 095 _	02206	County Tyler	Dis	strict Centerville	•
Quad Shirley		Pad Name SHR 40		eld/Pool Name N	
Farm name Noble Ener			W		
Operator (as registered w	ith the OOG) No	ble Energy, Inc.			
Address 1000 Noble E	nergy Drive	City Canons	sburg	State PA	Zip <u>15317</u>
Landing Point of	p hole North	Attach an as-drilled plaing 4362847.12 ing 4362825.09 ing 4360267.22	Easting Easting	514245.73 514814.30 515793.93	
Elevation (ft) 771	GL	Type of Well ■Ne	w 🗆 Existing	Type of Report	□Interim <b>■</b> Final
Permit Type   Devia	ted 🗆 Horizo	ntal 💄 Horizontal 6	A	Depth Type	□ Deep ■ Shallow
Type of Operation □ Co	nvert 🗆 Deepe	n 💄 Drill 🗆 Plu	g Back 🛘 🗆 Redrillin	g 🗆 Rework	□ Stimulate
Well Type □ Brine Disp	osal □ CBM <b>■</b> •	Gas □ Oil □ Seconda	ary Recovery	ion Mining 🗆 St	orage 🗆 Other
Type of Completion ■ S  Drilled with □ Cable  Drilling Media Surface	■ Rotary	Mud □Fresh Water			□ Other
Production hole		sh Water   Brine			
Date permit issued12 Date completion activitie Verbal plugging (Y/N) _	s began		ate completion activiti	es ceased	ceased06/22/2015
Please note: Operator is	required to submit	a plugging application	n within 5 days of verb	al permission to p	olug
Freshwater depth(s) ft	35	7 Op	en mine(s) (Y/N) dept	ths	none
Salt water depth(s) ft	None noted for	or Offsets Vo	oid(s) encountered (Y/I	N) depths	none
Coal depth(s) ft	no coal	Ca	vern(s) encountered (	Y/N) depths	none
Is coal being mined in are	ea (Y/N)	N A	PPR	OVE JUSTIN	Pyriewed by:
		DAT	E: 2/3/17		

TYPE OF TRACER(S) USED \_

WERE TRACERS USED □ Yes ■ No

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## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	Well has not	Been Complete			
	vveii ilas ilot	Been Comple			

Please insert additional pages as applicable.

## STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage	Stimulations	Ave Pump		Γreatment	Max Breakdown		Amount of	Amount of	Amount of
No.	Date	Rate (BPM)	Press	ure (PSI)	Pressure (PSI)	ISIP (PSI)	Proppant (lbs)	Water (bbls)	Nitrogen/other (units)
	CEE ATTAC	LIED OTIMU	ATION						
		HED STIMUL							
		ION PER STA	GE						
	RECORD								
	Well not	Complete	No	Data	Available	· ·			
					_				
			_						

Please insert additional pages as applicable.

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API 47- 095	02206	Farm	name_Noble En	ergy, Inc.			Well	number	PEN 2 BHS	
PRODUCING	FORMATION(		DEPTHS							
				TVD			MD			
Please insert ac	dditional pages a	as applicable.	•							
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TE	ST 🗆 I	Flow [	Pump		
SHUT-IN PRE	SSURE Surf	ace	psi Botto	om Hole		_psi	DURA	TION O	F TEST _	hrs
OPEN FLOW	Gas mcf	Oil pd	NGL bpd	_ bpd _						□ Pilot
LITHOLOGY/ FORMATION		BOTTOM DEPTH IN FT TVD		BOTTOM DEPTH IN MD	FT DES					ANTITY <b>AN</b> D IL, GAS, H₂S, ETC'
	0	1,12	0	IVID	1111	LOITE	OID (1 ICL	SHWAII	SK, BKINE, O	IL, GAS, H <sub>2</sub> S, ETC
	SEE ATTACHE									
	FORMATION S	HEET			_					
								Fi.		
						_				
						···-			··· ·· · · · · · · · · · · · · · · · ·	
Please insert ad	ditional pages as	s applicable.			,					
Drilling Contra	ctor Precision D	rilling Company	/							
Address 5400 D	Big Tyler Road		City	Charleston			_ State	WV	_ Zip _2531	3
Logging Compa	any Baker Hugh	es								
	chnology Drive #12		City	Canonsbur	g		_ State	PA	Zip _1531	7
Cementing Con	npany Allied Cer	nentina Compa	anv. LLC							
Address 100 Hop				Clarksburg			_ State	WV	_ Zip <u></u>	1
Stimulating Co.	mpany									
. 11	pany				-		State		Zin	
	ditional pages as						_ State		_ <b>-</b> 214	-
completed by	Regina A Logue	۔ ک		agulaton, Ana	Tele	phone	724-820-		/20/2017	

SHR 40	AHS
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311N 40 AD3		
Formations	Тор	Base
Shale		0 1020
Shale and Sandstone	10	20 1743
Big Lime	17	43 1871
Big Injun	18	71 1978
Price	19	78 2129
Weir	21	29 2233
Shale	22	33 2320
Berea	232	20 2328
Shale	232	28 2509
Sandstone	250	09 2611
Shale	263	11 2747
Sandstone	274	17 2765
Shale	276	3239
Warren	323	3285
Shale and Sandstone	328	3637
Lower Huron	363	4395
Sandstone	439	95 4433
Shale	443	3 4627
Sandstone	462	4683
Shale	468	3 4807
Benson	480	7 4851
Shale	485	5051
Alexander	505	1 5109
Shale	510	9 6050
Cashaqua	605	0 6161
Middlesex	616	1 6195
West River	619	5 6263
Burkett	626	3 6297
Tully	629	7 6300
Hamilton	630	0 6317
Marcellus	631	7 6381
Onondaga	638	1

