Received Office of Oil & Gas

WR-35 Rev. 8/23/13 JAN 27 2017

Page ___ of ___

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 _	02213	County Tyler	Di	strict Centerville)
Quad Shirley		Pad Name SHR 40	Fie	eld/Pool Name N	A
Farm name Noble Ener			W		
Operator (as registered w	ith the OOG) N	oble Energy, Inc.			
Address 1000 Noble E	nergy Drive		burg	State PA	Zip 153 1 7
To Landing Point or	D 83/UTM op hole Nort f Curve Nort n Hole Nort	Attach an as-drilled pla hing 4362833.07 hing 4362889.34 hing 4360453.82	Easting	eviation survey 5 514245.49 5 515038.24 5 515971.01	
Elevation (ft) 771	GL	Type of Well ■New	v Existing	Type of Report	□Interim ■Final
Permit Type Devia		ontal Horizontal 6A			□ Deep ■ Shallow
Type of Operation □ Con	nvert 🗆 Deepe	en 🛔 Drill 🗆 Plug	Back Redrillin	g □ Rework	□ Stimulate
Well Type □ Brine Dispe	osal □ CBM ■	Gas □ Oil □ Seconda	ry Recovery	ion Mining □ Sto	orage Other
Type of Completion ■ S Drilled with □ Cable Drilling Media Surface Production hole □ Air Mud Type(s) and Additiv Synthetic Oil Based	■ Rotary hole ■ Air □ ■ Mud □ Fre	Mud □Fresh Water			□ Other
Date permit issued12					eased05/23/2015
Verbal plugging (Y/N) _	N Date	permission granted			
Please note: Operator is re	equired to submit	a plugging application	within 5 days of verba	al permission to pl	ug
Freshwater depth(s) ft _	357	7 Open	n mine(s) (Y/N) deptl	ns	none
Salt water depth(s) ft	None noted for	r Offsets Void	l(s) encountered (Y/N	l) depths	none
Coal depth(s) ft	no coal	Cave	ern(s) encountered (Y	/N) depths	none
s coal being mined in area	a (Y/N)	APP	ROV	/ED	Reviewed by:
		NAME: <	3/17	~ 30 yell more l	
		Activity S S System IN	-/ · /		

API 47- 095	02213	Farm name_	Noble Energ	y, Inc.	Well	number_SHR	40 EHS
CASING STRINGS	Hole Size	Casing Size		ew or Grade	_	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36	20	40			zepai(s)	1 TOVIGE details Delow
Surface	17 1/2	13 3/8	493.6	N J-5	55 54.5#		Y
Coal							<u> </u>
Intermediate 1	13 3/8	9 5/8 2	225.6	V HC	K-55 36#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4	5 1/2 16	5,034.7	V P-	110 20#		Y
Tubing							<u> </u>
Packer type and de	epth set						
Comment Details CEMENT	Class/Type	Number	Slum	Viola			
DATA	of Cement	of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume <u>(ft ³</u>)	Cement Top (MD	WOC (hrs)
Conductor						1	(113)
Surface	Class A	420	15.6	1.20	69.5	0	8
Coal							
Intermediate 1	Class A	898	15.6	1.18	168.0	0	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead 1110 Tail 2495	Lead 15.0 Tail 15.4	Lead 1.26 Tail 1.22	Lead 249.0 Tail 544.	0 4000.0	8
Tubing							
=	ion penetrated Macedure Not a Pilot Ho			ggers TD (ft) 16, g back to (ft) No			
Check all wirel	` '	•		deviated/directi gamma ray		uction nperature [⊐sonic
Well cored	Yes □ No	□ Conventional	□ Sidewall	W	ere cuttings co	ollected 💄 Ye	es □ No
Surface - 4 centralizers use	d, one every third joint Interme	ER PLACEMENT U adiate - 26 centralizers - bow spring of oring every third joint from KOP	entralizers on every joint to	KOP, on every third joint fro	TRING Condu	uctor - No centralizer	's used. Fresh Water/Surface-
WAS WELL C	OMPLETED AS	SHOT HOLE 🗆	Yes 🖪 No	DETAILS			
WAS WELL CO	OMPLETED OPI	EN HOLE? □ Ye	s 🖪 No	DETAILS			
WERE TRACE	RS USED □ Ye	es 🛎 No TYF	PE OF TRACE	R(S) USED			

WR-	35
Rev.	8/23/13

of

API 47- 095 - 02213	Farm name Noble Energy, Inc.	Well numberSHR 40 EHS
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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			
	VVCII II as II ot	Deen Comple			
-					

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)		Treatment ure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	SEE ATTAC	HED STIMUL	ATION						
	INFORMAT	ION PER STA							
	RECORD								
	Well not	Complete	No	Data	Available				
ļ									
									-

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13								Page	_ of
API 47- 095	5 _ 02213	Farm	n name Noble Er	nergy, Inc.		Well numb	er_PEN 2 BHS	i	
PRODUCING	FORMATION(S))	DEPTHS						
				TVD		MD			
-				 _		 .			
									
Please insert a	dditional pages as	applicable.							
GAS TEST	□ Build up □ □	Drawdown	□ Open Flow		OIL TEST	Flow □ Pum	p		
SHUT-IN PRE	ESSURE Surfac	e	psi Bott	om Hole	psi	DURATION	OF TEST	hrs	
OPEN FLOW	Gas mcfpd		NGL bpd	_ bpd _	Water bpd	GAS MEAS □ Estimated	URED BY Orifice	□ Pilot	
LITHOLOGY/ FORMATION		BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN MD	FT DESCRIBE	ROCK TYPE ANI LUID (FRESHWA'			ETC)
	0		0						
	SFE ATTACHED FORMATION SH								
D1									
	ditional pages as a	• •							
Drilling Contract Address 5400 D	ctor Precision Drilli Big Tyler Road	ng Company		Charleston		G \\\\\	~: 0E242		
			City	Charleston		_ State	Zip _25313		
00 0	Baker Hughes chnology Drive #120		City	Canonsburg	3	_State PA_	Zip <u>15317</u>		_
Cementing Com Address 100 Hop	npany Allied Cemer pe Street	nting Compa		Clarksburg		_State _WV	Zip 26301		
	npany								
Address Please insert add	ditional pages as ar		City			State	Zip		
		, p 1104010.							
Completed by Signature	regina A Logue	Loque	Title Re	gulatory Anal	Telephone	724-820-3559	1/20/2017		
	0	0							
Submittal of Hy	draulic Fracturing	Chemical D	usclosure Infor	mation	Attach copy of	FRACEOCUS	Registry		

SHR	40	EHS

Formations	Тор В	ase	
Shale	0	1020	
Shale and Sandstone	1020	1743	
Big Lime	1743	1871	
Big Injun	1871	1978	
Price	1978	2129	
Weir	2129	2233	
Shale	2233	2320	
Berea	2320	2328	
Shale	2328	2509	
Sandstone	2509	2611	
Shale	2611	2747	
Sandstone	2747	2765	
Shale	2765	3239	
Warren	3239	3285	
Shale and Sandstone	3285	3637	
Lower Huron	3637	4395	
Sandstone	4395	4433	
Shale	4433	4627	
Sandstone	4627	4683	
Shale	4683	4807	
Benson	4807	4851	
Shale	4851	5051	
Alexander	5051	5109	
Shale	5109	6050	
Cashaqua	6050	6161	
Middlesex	6161	6195	
West River	6195	6263	
Burkett	6263	6297	
Tully	6297	6300	
Hamilton	6300	6317	
Marcellus	6317	6381	
Onondaga	6381		

