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>095</u> <u>- 02210</u>	County Tyler	District Centervil	le	
Quad Shirley	Pad Name SHR 40	Field/Pool Name NA		
Farm name Noble Energy, Inc.		Well Number SH	IR 40 HHS	
Operator (as registered with the OOG)	Noble Energy, Inc.			
Address 1000 Noble Energy Drive	City Canonsburg	State PA	Zip 15317	
	Attach an as-drilled plat, profi orthing 4362848.76	le view, and deviation survey Easting 514254.87		
_	rthing 4362799.48	Easting 514824.11		
Bottom Hole No	rthing 4360267.22	Easting 515793.93		
Elevation (ft) 771 GL	Type of Well ■New □ B	existing Type of Repor	t □Interim ≜ Final	
Permit Type Deviated Hori	zontal 💄 Horizontal 6A 🛛	Vertical Depth Type	□ Deep ■ Shallow	
Type of Operation □ Convert □ Dee	pen ■ Drill □ Plug Back	□ Redrilling □ Rework	□ Stimulate	
Well Type □ Brine Disposal □ CBM	■ Gas □ Oil □ Secondary Rec	overy Solution Mining S	torage □ Other	
Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Air Production hole □ Air ■ Mud □ F Mud Type(s) and Additive(s) Synthetic Oil Based	□ Mud □Fresh Water Int resh Water □ Brine	ermediate hole ■ Air ■ Mu	d □ Fresh Water □ Brine	
Date permit issued 12/18/2014 Date completion activities began Verbal plugging (Y/N) N Date	NIA	3/09/2015 Date drilling pletion activities ceased	ceased06/28/2015	
Please note: Operator is required to subm			plug	
Freshwater depth(s) ft3	57 Open mine	(s) (Y/N) depths	none	
Salt water depth(s) ftNone noted	for Office to	countered (Y/N) depths	none	
Coal depth(s) ft no coa	Cavern(s)	encountered (Y/N) depths	none	
Is coal being mined in area (Y/N)	N 1			
5 ()	AD		Reviewed by:	

□ Yes 💄 No

DETAILS

TYPE OF TRACER(S) USED __

WAS WELL COMPLETED OPEN HOLE?

WERE TRACERS USED □ Yes ■ No

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API 47- 095 - 02210 Farm name Noble Energy, Inc. Well numb	SHR 40 HHS
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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			
	vvoii nas not	Been complete			

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)		reatment 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						
		ION PER STA	GE						
	RECORD			-					
	Well not	Complete	No	Data	Available				

Please insert additional pages as applicable.

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API 47- 095	_ 02210	Farm	name Noble En	ergy, Inc.		Well 1	number	PEN 2 BHS	
PRODUCING		<u>N(S)</u>	<u>DEPTHS</u>						
Please insert ac	lditional pages	as applicable.							
GAS TEST	□ Build up	□ Drawdown	□ Open Flow	O	IL TEST 🗆	Flow [Pump		
SHUT-IN PRE	SSURE Su	rface	_psi Botto	om Hole	psi	DURAT	TION O	F TEST	hrs
OPEN FLOW		Oil efpd1	NGL opd	v _ bpd	Vater bpd	GAS M	IEASU nated	RED BY Orifice	□ Pilot
LITHOLOGY/ FORMATION	DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	DEPTH IN FT MD						ANTITYAND L, GAS, H ₂ S, ETC)
	0 SEE ATTACH	1ED	0						
	FORMATION					1.			
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Please insert ad	ditional pages	as applicable.							
		Drilling Company							
Address 5400 D		- Timing Company	City	Charleston		State	WV	Zip 25313	3
		L				State		_ Zip	
Logging Compa Address 400 Tea			City	Canonsburg		Ctata	ΡΔ	~· 1531⁻	7
				Canonabarg		State		_ Zip _15317	
Cementing Con Address 100 Hop		ementing Compa		Clarksburg		State	WV	_ Zip _26301	<u> </u>
Stimulating Cor	npany								
Address			City			State		_ Zip	
Please insert add	ditional pages	as applicable.							

Title Regulatory Analyst

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Completed by Regina A Logue

Attach copy of FRACFOCUS Registry

Date 01/20/2017

Telephone 724-820-3559

SHR 4	40 I	HHS
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Formations	Тор	Base
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	

