WR-35 Rev. 8/23/13 Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 017 06483 County Do		District West Un	ion		
Quad Oxford Pad Name C	Oxf 97	Field/Pool Name N/A			
Farm name Haessly Land & Timber, LLC	97 CHS				
Operator (as registered with the OOG) Noble Energy	gy, Inc.				
Address 1000 Noble Energy Drive City	Canonsburg	State PA	Zip 15317		
As Drilled location NAD 83/UTM Attach an as- Top hole Northing as drilled pl Landing Point of Curve Northing upon comp Bottom Hole Northing	letion of the well. Ea.	stingsting			
Elevation (ft) 1335 GL Type of W	Vell ≜ New □ Existing	Type of Report	■Interim □Final		
Permit Type □ Deviated □ Horizontal ■ Ho	orizontal 6A	Depth Type	□ Deep ■ Shallow		
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Red	rilling Rework	□ Stimulate		
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil	□ Secondary Recovery □ S	Solution Mining Sto	orage 🗆 Other		
Type of Completion □ Single □ Multiple Fluids I Drilled with □ Cable ■ Rotary	Produced □ Brine □Gas	□ NGL □ Oil	□ Other		
Drilling Media Surface hole ■ Air □ Mud □Fres	h Water Intermediate	hole ■ Air □ Mud	□ Fresh Water □ Brine		
Production hole	Brine				
Mud Type(s) and Additive(s) Synthetic Oil Based					
	commenced 12/12/20	FICE OF OUR ED			
		14/4/ Date drilling tivities ceased 017 Departed by Mental Profession			
Date permit issued 07/24/2014 Date drilling	commenced12/12/20	14 _{4A} Date drilling	O5/01/2015		
Verbal plugging (Y/N) Date permission gr	ranted Environ.	Oeloganted by			
		nental part of			
Verbal plugging (Y/N) Date permission go Please note: Operator is required to submit a plugging a	pplication within 5 days of	verbal permission	dug		
Freshwater depth(s) ft266',503',810'	Open mine(s) (Y/N)		N		
Salt water depth(s) ft none noted for offsets	Void(s) encountered	(Y/N) depths	N		
Coal depth(s) ft NA	Cavern(s) encountered		N		
Is coal being mined in area (Y/N) No					
	-		Reviewed by:		

API 47- 017	_ 06483	Farm r	ame_	laessly La	nd & T	imber, l	LLC_We	ll number_	Oxf 97 (CHS
CASING STRINGS	Hole Size	Casing Size	Е		ew or Jsed	Grade wt/ft		Basket Depth(s)		nent circulate (Y/N) ide details below*
Conductor	26"	20"			New		-55	2502.(0)	1.07	ide details below
Surface	17.5"	13 3/8"			New		-55		-	Y
Coal							-		 	
Intermediate 1	12.38"	9 5/8"	29	92.4' !	Vew	HC	K-55			N
Intermediate 2		0 0,0	20	32. 1	1044	110	11-00	<u> </u>		
Intermediate 3					- 6				_	<u> </u>
Production	8-3/4" & 8-1/2"	5 1/2"	16	742.5' !	Vew	D.	110	<u> </u>		
Tubing		0 1/2	10,	172.0	1011	1 -	110			Υ
Packer type and d	epth set									
Comment Details		N		CI.						
CEMENT DATA	Class/Type of Cement	Number of Saci		Slurry wt (ppg)		ield ³/sks)	Volume <u>(ft ³</u>)	_	ement p (MD)	WOC (hrs)
Conductor							124,11	1	(1112)	(113)
Surface	Type 1 / Class	A 692		15.6	1	.18	816.56	6 1	18.5	8
Coal					<u> </u>					
Intermediate 1	Type 1 / Class	A stage (1)	1185	15.6	Stage	(1) 1.18	1398.3	3 1	18.5	8
Intermediate 2					-	()				
Intermediate 3										
Production	Type 1 / Class	A Lead 1043 Ta	il 2578	14.5	lead 1.5	8 Tail 1.27	4922		18.5	8
Tubing					1					
Drillers TD (ft) 16758' Deepest formation penetrated Marcellus Plug back procedure Loggers TD (ft) 16735' Plug back to (ft)										
Kick off depth (ft) 5831' Check all wireline logs run										
Well cored □ Yes □ No Conventional Sidewall Were cuttings collected □ Yes □ No										
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING No centralizers used on conductor. 9 Centralizers on Surface Casing 36 Centralizers on Intermediate String (Bow string centralizers on first two joints then every third joint to 100' from surface). 297 Centralizers on Production String (rigid bow string every joint to KOP, rigid bow spring every third joint from KOP to top of cement). RECEIVED										
								Office	of Oil a	ind Gas
WAS WELL COMPLETED AS SHOT HOLE										
WAS WELL COMPLETED OPEN HOLE?										
WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED										

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API 47- 017 _ 06483 Farm name Haessly Land & Timber, LLC Well number Oxf 97 CHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	well not complete	g.			
		N .			
			<u> </u>		
					
			·		
<u>i</u>					
36					
	(

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)
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	t					E.	AAA DE	partment of
	<u>L</u>			1			IVI/OTIMO	ntal Province:
Please	insert additio	mal nages as an	nlicable	· · · · · · · · · · · · · · · · · · ·				Partment of Intal Protection

Please insert additional pages as applicable.

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	_ 06483	Farm	_{name} Haessly	y Land &	Timber, LL	C Well number Oxf	97 CHS
PRODUCING	FORMATION	<u>(S)</u>	<u>DEPTHS</u>				
				_TVD _		MD	
						_	
Please insert ad	lditional pages	as applicable.					
GAS TEST	□ Build up	□ Drawdown	□ Open Flow	C	OIL TEST	Flow Dump	
SHUT-IN PRE	SSURE Suri	face	_psi Botto	m Hole	psi	DURATION OF TES	Thrs
OPEN FLOW	Gas mc	Oil fpd1	NGL opd	bpd		GAS MEASURED F	
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN F		ROCK TYPE AND RECOR LUID (FRESHWATER, BRI	•
	0		0	AT A D	1112 0111	DOD (FRADITIVITIEM, DRI	(L, OLL, OAS, 1125, L10)
			<u> </u>				<u> </u>
						·	
-							
Please insert ad	ditional pages a	s applicable		<u> </u>			
	ctor Whipstock 2	**	ocision 543 Horizo	ntal Pig			
	Route 403 Hwy			Clymer / Cl	harleston	State PA/WV Zip	15728-7815 / 25313
	any Baker Hug						
Address 400 Te	echnology Drive		City	Canonsbur	g	State PA Zip	£5317 VED
Cementing Con	npany Schlum J. Barry Ct., Suit	berger e 200	City	Canonsbur	ď	State PA Zip.	of Oil and Gas
Stimulating Con			City				15317 N 1-7 2017
Address			City			State	anariment -
	ditional pages a	s applicable.				Environm	Ppartment of ental Protection
Completed by	Dee Swiger					124-020-3001	
Signature	Mill L	ruiger	Title R	egulatory An	iaiysi, III	Date 01/09/20	<u> </u>

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Formations	Тор	Base
Shale and Sandstone	0	2123
Big Lime & Big Injun	2123	2323
Price	2323	2623
Shale and Sandstone	2623	2890
Fourth	2890	2907
Shale and Sandstone	2907	2982
Fifth	2982	2990
Shale and Sandstone	2990	3570
Speechley	3570	3601
Shale	3601	4107
Balltown A	4107	4132
Shale and Sandstone	4132	4321
Balltown B	4321	4378
Shale and Sandstone	4378	4366
Bradford	4366	4377
Shale and Sandstone	4377	4625
Riley	4625	4647
Shale and Sandstone	4647	5157
Benson	5157	5189
Shale and Sandstone	5189	5437
Alexander	5437	5484
Shale	5484	6474
Cashaqua	6474	6602
Middlesex	6602	6651
West River	6651	6727
Burkett	6727	6756
Tully Limestone	6756	6759
Hamilton	6759	6790
Marcellus	6790	6840
Onondaga	6840	

Office of Oil and Gas
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