Page	of	

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

API 47 - 085 - 10 6 90 County Rito	chie	District Ellenboro	
Quad Pennsboro Pad Name P	EN 20	Field/Pool Name N/	A
Farm name Lawrence & Angela Cokeley		Well Number PEN	
Operator (as registered with the OOG) Noble Energ	y, Inc.		
Address 1000 Noble Energy Drive City	Canonsburg	State PA	Zip 15317
As Drilled location NAD 83/UTM Attach an as-ormal service and service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled plate. As Drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-ormal service as drilled location NAD 83/UTM Attach an as-or	etion of the well. Eas	d deviation survey ting ting ting	
Elevation (ft) 1081 GL Type of W	ell New 🗆 Existing	Type of Report	■Interim □Final
Permit Type □ Deviated □ Horizontal ■ Hor	izontal 6A	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redri	illing Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □	Secondary Recovery S	olution Mining	rage 🗆 Other
Type of Completion □ Single □ Multiple Fluids P. Drilled with □ Cable ■ Rotary	roduced □ Brine □Gas	□ NGL □ Oil	□ Other
Drilling Media Surface hole ■ Air □ Mud □ Fresh	Water Intermediate	hole ■ Air □ Mud	□ Fresh Water □ Brine
Production hole □ Air ■ Mud □ Fresh Water □ I	3rine		
Mud Type(s) and Additive(s) Synthetic Oil Based			
	ommenced_ 10/02/201	Date drilling ce	eased 10/16/2014
Date completion activities beganNot completed	Date completion act	ivities ceased	na
Verbal plugging (Y/N) Date permission gra	anted	Granted by	
Please note: Operator is required to submit a plugging ap	oplication within 5 days of v	verbal permission to pl	RECEIVED of Oil and Gas
Freshwater depth(s) ft398'	Open mine(s) (Y/N)		
Salt water depth(s) ft none noted for offsets	Void(s) encountered	(Y/N) depths	AN 1 N 2017
Coal depth(s) ft NA Is coal being miner in area (Y V)	Cavern(s) encountere	d (Y/N) depths WV [Environn	Department of De
NAME: Meliael Doft		RBDMS	02/03/2017
DATE: 1/30/17		2/2/17	

Page	of
rage	O1

CASING	Hole	Casing			New or	Grade		Basket		ment circulate (Y/ N)
STRINGS Conductor	Size	Size			Used	wt/ft		Depth(s)	* Pro	vide details below*
Surface	26"	20"			New	 	H-36	· · · · · ·		
Coal	17.5"	13 3/8	5 54	18.1'	New	-	J-55			
Intermediate 1	40.00"	0.510		45.51	Nave		N/ 55			<u>Y</u>
Intermediate 2	12.38"	9 5/8	5" 52	45.5'	New	HC	CK-55			Y
Intermediate 2								<u> </u>		
Production	ļ									
Tubing	8-3/4" & 8-1/2"	5 1/2	2" 13,2	256.3'	New	P-	110			Y
	lanth sat									
Packer type and d	epin set									
Comment Details	*approved cem	ent variance	of 2% accelerate	or (S001) 0.2%	Antifoam	(D046) 0.1	25 lb/sk Polye	ster Flake (C	0130)	
CEMENT DATA	Class/Type of Cement		Number of Sacks	Slurry wt (ppg)		(ield 1 ³ /sks)	Volume (ft. ²)		Cement op (MD)	WOC (hrs)
Conductor										
Surface	PJSM Cem	ent	520	15.6	1	.20	624'		0	8
Coal										
Intermediate 1	Type 1 / Clas	SS A stage (1	i) 1010 stage (2) 314	15.6	Stage (1) 1.	92 Stage (2) 1.19	total 2312.	86	0	8
Intermediate 2										
Intermediate 3										
Production	Type 1 / Clas	ss A lead	382 tail 1610	14.8	Lead 1.	62 tail 1.37	total 2824.	54	0	8
Tubing										
Drillers TD (f Deepest forma Plug back pro	ation penetrated	Marcellus				D (ft) <u>13</u> to (ft)	247'			
Kick off depth		· · · · · · · · · · · · · · · · · · ·			_	14.12		•		
Check all wire	eline logs run		aliper d				ional □ ii		e Osor	nic.
			eutron 🗆 r	esistivity		a iay	_ t	emperatur	e □sor	iic .
Well cored	□ Yes □ No	Co	nventional	Sidewall	[W	ere cuttings	collected	□ Yes	□ No
0.1 00.00	_ 1 00	20		Jiwandi	-	•			••	
	HE CENTRAL								s used on co	nductor.
	rface Casing 64 Centralion Production String									
							F.	•		
	<u> </u>									
337 A C 33777 7	COMPT PERS	A C CTTOT	HOY F	V = 31		ET A II C				
WAS WELL	COMPLETED	A2 2HOL	HULE 0	Yes A No	וט י	ETAILS			PE	SEIVED
WAS WELL	COMPLETED	OPEN HO	DLE? - Ye	es 🖪 No	DET	AILS _		0		Ull and Gas
									JAN	1 7 2017
	CERS USED 0	⊐ Yes 🖪	No TY	PE OF TRA	CER(S)	USED _		M	V Do-	artment of all Posterio

WR-	35
Rev.	8/23/13

Page	of	
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Farm name_Lawrence & Angela Cokeley Well number_PEN 20HHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	well not complete				
			_		
	- 1. 1				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
No.	Date	Rate (BPM)	Flessule (FSI)	Tressure (1.51)	1311 (131)	Troppant (103)	Water (ODIS)	ividogerzouier (units)
								-
								-
				_				
			-					
-								
							Dr	
							Office of	CEIVED

Please insert additional pages as applicable.

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WV Department of

Environmental Protection

WR-35 Rev. 8/23/13						Page of
API 47- 085	_ 10190	Farm	_{name} Lawren	ce & Ange	la Cokeley Well	number_PEN 20HHS
PRODUCING	FORMATION(<u>S)</u>	<u>DEPTHS</u>			
			XX.	_TVD _	MD	
					-	
		- 1				
Please insert ac	lditional pages a	s applicable.				
GAS TEST	□ Build up □	Drawdown	□ Open Flow	OI	L TEST Flow	Pump
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi DURA	TION OF TEST hrs
OPEN FLOW	Gas	Oil	NGL	W	ater GAS N	MEASURED BY
	mcf	pd	bpd	bpd	bpd □ Estir	nated □ Orifice □ Pilot
LITHOLOGY/	TOP	ВОТТОМ	TOP	BOTTOM	DESCRIBE BOOK TV	DE AND RECORD QUANTITY AND
FORMATION	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	MD		PE AND RECORD QUANTITYAND SHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0			
	lditional pages a					
Drilling Contra	Nomac 78	3 Drilling		Mt. Morris		PA Zip 15349
Address 171 L	ocust Ave. Ext.		City	IVIL. IVIOTTIS	State	Zip 10049
Logging Comp	Baker Hug	ghes				DA - 15217
Address 400 1	echnology Drive		City	Canonsburg	State	PA Zip 15317
Cementing Con	mpany Schlum	berger				25047
Address 4600	J. Barry Ct., Suit	e 200	City	Canonsburg	State	PA Zip 15317
Stimulating Co	ompany					
Address			City	-	State	ZIBECEN
	dditional pages a	s applicable.			44,64	Office of Oil and Gas Date 01/05/2017
	Dee Swiger	,	, D	agulatam: A = =	Telephone 724-82	20-3061 Gas
Signature	(lu Dwig	W	Title R	egulatory Ana	nyst, III	Date 01100004 1 7 2017

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACI

rironmental Project

Pen 20 Wells		
Formations	Top I	Base
Shale and Sandstone	0	1222
Sandstone	1222	1346
Shale and Sandstone	1336	1506
Sandstone	1506	1548
Shale and Sandstone	1548	1650
Maxton Sand	1650	1733
Shale and Sandstone	1733	1856
Big Lime	1856	1911
Big Injun	1911	2046
Price	2046	2318
Weir	2318	2357
Shale	2357	2637
Gordon	2637	2654
Shale and Sandstone	2654	2834
5th Sand	2834	2846
Shale	2846	2989
Sandstone	2989	3003
Shale	3003	3411
Warren	3411	3473
Shale	3473	3807
Sandstone	3807	3844
Shale and Sandstone	3844	4838
Benson	4838	4900
Shale	4900	5060
Alexander	5060	5128
Shale	5128	5638
Rheinstreet	5638	5964
Cashaqua	5964	6056
Middlesex	6056	6085
West River	6085	6129
Burkett	6129	6172
Tully Limestone	6172	6173
Hamilton	6173	6174
Marcellus	6174	6233
Onondaga	6233	

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