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

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API <u>47</u> 051 01764	County Marshall	1	District Franklin	
Quad Powhatan Point	Pad Name MND 9	9 V	Field/Pool Name Marce	llus/Burkett
Farm name Consolidation Coal			Well Number MND 99	V
Operator (as registered with the OOG)	Noble Energy, Inc.			
Address 1000 Noble Energy Drive	e City Cano	nsburg	State PA	Zip 15317
Landing Point of Curve	Attach an as-drilled Northing 4410361.28 Northing vertical well vertical well	Easti	I deviation survey ing 518299.66 ing	
Elevation (ft) 1112.00 GL	Type of Well	lew □ Existing	Type of Report □Int	erim <b>B</b> Final
Permit Type	orizontal 🗆 Horizontal	6A • Vertical	Depth Type 🗆 I	Deep  Shallow
Type of Operation □ Convert □ D	Deepen ■ Drill □ P	lug Back   Redril	lling   Rework   St	timulate
Well Type □ Brine Disposal □ CBM	1 ■ Gas □ Oil □ Secon	dary Recovery	olution Mining	■ OtherObservation Well
Type of Completion □ Single □ Mul Drilled with □ Cable ■ Rotary	ltiple Fluids Produce	d □ Brine □Gas	□ NGL □ Oil ■ Ot	her observation well
Drilling Media Surface hole ■ Air Production hole ■ Air □ Mud □ Mud Type(s) and Additive(s)		AP NAME:	PROV	Fresh Water Brine  Brine  Thomaton
Date permit issued06/05/2014	Date drilling comme	<b>DATE:</b> 9/04/2014	Date drilling ceased	9/21/2014
Date completion activities began N/A	_			
		5	Granted by	
Please note: Operator is required to su	ıbmit a plugging applicati	on within 5 days of ve		
Freshwater depth(s) ft5	18', 655'	nen mine(s) (Y/N)	RECEIVED	
Salt water depth(s) ft	none	oid(s) encountered (	HECEIVED Fine of Oil and Gas	None
care marci arpin(c) in		Cavern(s) encountered	Dro -	None
Is coal being mined in area (Y/N)		1A	/\ / -	Reviewed by:
		-11/11	V Department of onmental Protection	n 07/01/201

# APPPOPULED NAME:

Privionmental Fragolish

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API	47- 051 _	01764	Farm name Consolidation Coal	Well number_MND 99 V
		•		<del></del>

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
110.	02/04/2015	6250	6252	5	Burkett
	02/03/2015	6275	6277	5	Marcellus
	01/17/2015	6360	6362	5	Marcellus
	01/16/2015	6392	6394	5	Marcellus

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)
	None-	Diserva	tion well					
			·					
						RECEI'	/ED and Gas	
						DEC 1.7	2015	
					Er	WV Depar	ment of	n

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	_ 01764	Farm	<sub>name</sub> Consoli	dation Coa	al	Well number_	MND 99 \	/
						-		
PRODUCING		<u>s)</u> -	<u>DEPTHS</u>					
N/A - Observati	on well			_ TVD _		MD		
		<del></del>						
ATT			22					
Please insert ad	ditional pages a	s applicable.						
		1.00	□ Open Flow	(	DIL TEST 🗆	Flow □ Pump		
SHUT-IN PRES	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION O	F TEST	hrs
OPEN FLOW	Gas	Oil			Water	GAS MEASUI	RED BY	
LITHOLOGY	TOD	DOTTOM	TOD	POTTON				
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN F	T DESCRIBE	ROCK TYPE AND F	RECORD OUA	ANTITYAND
TOTAL TITOL	NAME TVD	TVD	MD	MD				L, GAS, H <sub>2</sub> S, ETC)
See attached sheet	0		0					
				•				
Please insert ad								
Drilling Contra	ctor Whipstock	Natural Gas S						_
Address 13646	Route 403 Hwy N		City	Clymer		State PA	_ Zip _1527	8
Logging Compa	any N/A - Obser	rvation well						
Address			City	8		State	_ Zip	
Cementing Con	anany Allied Ce	menting Co. LL	_C					
Address 100 Ho	pe Street		City	Clarksburg		State _WV	_ Zip _2630	1
Stimulating Co	mpany N/A - C	Observation wel	I					
Address						State	_ Zip	
Please insert ad	ditional pages a	s applicable.						
Completed by	Dee Swiger				Telephone	724-820-3061		
Signature	tee ?		Title R	egulatory Ana	lyst, III	Date	2/8/5	0 <del>7/</del> 01/2016
	00						175	07/01/2016

Formation	Тор	Base
Shale and Sandstone	0	606
Pittsburgh Coal	606	616
Shale and Sandstone	616	1069
Dunkard Sand	1069	1090
Shale	1090	1239
Gas Sand	1239	1310
Shale	1310	1379
1st Salt Sand	1379	1395
Shale	1395	1502
2nd Salt Sand	1502	1531
Shale and Sandstone	1531	1661
Maxton Sand	1661	1708
Shale	1708	1726
Big Lime	1726	1798
Big Injun	1798	2068
Price	2068	2166
Murrysville	2166	2273
Shale and Sandstone	2273	2811
Gordon	2811	2841
Shale and Sandstone	2841	3362
Fifth Sand	3362	3415
Shale and Sandstone	3415	4217
Warren Sand	4217	4226
Shale	4226	4943
Java Shale	4943	5027
Pipe Creek Shale	5027	5102
Angola Shale	5102	5686
Rhinestreet	5686	6005
Cashaqua	6005	6077
Middlesex	6077	6100
West River	6100	6161
Burkett	6161	6185
Tully Limestone	6185	6211
Hamilton	6211	6246
Marcellus	6246	6299
Onondaga	6299	6305
Huntersville	6305	

### RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection 07/01/2016