

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

February 25, 2015

### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-5101809, issued to NOBLE ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: SHL 22 DHS

Farm Name: CONSOL MINING CO. (CONSOL)

API Well Number: 47-5101809

Permit Type: Horizontal 6A Well

Date Issued: 02/25/2015

API Number: 4705101809

### **PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **CONDITIONS**

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: Noble Energy, Inc.	494501907 051 - Marshall Sandhill Valley Grove
	Operator ID County District Quadrangle
2) Operator's Well Number: SHL 22 DHS	Well Pad Name: SHL 22
3) Farm Name/Surface Owner: Noble Energy	, Inc. Public Road Access: Staniford Hill Road County Rte 9
4) Elevation, current ground: 1322'	Elevation, proposed post-construction: 1321.50'
5) Well Type (a) Gas Oi	Underground Storage
Other	
(b)If Gas Shallow	Deep
Horizontal =	JN 11/13/2014
6) Existing Pad: Yes or No No	<i>y</i> ,,
7) Proposed Target Formation(s), Depth(s), A	Anticipated Thickness and Associated Pressure(s):
Marcellus 6641' / 6690' Thick 49' / 4415	psi
8) Proposed Total Vertical Depth: 6680'	
9) Formation at Total Vertical Depth: Marc	ellus
10) Proposed Total Measured Depth: 16,4	13'
11) Proposed Horizontal Leg Length: 8,56°	1'
12) Approximate Fresh Water Strata Depths:	210'
13) Method to Determine Fresh Water Depth	s: nearest offset wells
14) Approximate Saltwater Depths: None	
15) Approximate Coal Seam Depths:	Pittsburgh Coal Seam Existing Perimeter Barrier/ Proposed Interior Barrier
16) Approximate Depth to Possible Void (co	al mine, karst, other): None
17) Does Proposed well location contain coadirectly overlying or adjacent to an active mi	
(a) If Yes, provide Mine Info: Name:	Shoemaker Mine
Depth:	770' - 780'
Seam:	Pittsburgh No. 8
Owner:	Consolidation Coal Company (Murray American Energy Inc.)

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## **CASING AND TUBING PROGRAM**

4705101809

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	30"	New	LS	117#	40'	40'	GTS
Fresh Water	20"	New	J-55	94#	360'	360'	CTS 30% excess Yield =1.18
Coal	13 3/8"	New	J-55	54.5#	1180' due to Red rock issues	1180° due to Red rock issues	CTS 30% excess Yield = 1.18
Intermediate	9 5/8"	New	J-55	36.0#	3139'	3139'	CTS 20% excess Yield = 1.19
Production	5 1/2"	New	P-110	20.0#	16,413'	16,413'	10% excess Yield = 1,27 TOC=200 above 9.625 shoe
Tubing							
Liners							

JN 11/13/2014

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	0.375		Stabilize to surface with fill/soil	to surface
Fresh Water	20"	26"	0.438	2730	Type 1	30% excess Yield = 1.18
Coal	13 3/8"	17.5	0.380	2730	Type 1	30% Excess Yield = 1.18
Intermediate	9 5/8"	12.3/8"	.352	3520	Class A	20% excess Yield = 1.19 to surface
Production	5 1/2"	8.75" - 8.5"	.361	12,640	Class A	10% excess Yield = 1.27 TOC=200' above 9.625" shoe
Tubing						
Liners						

### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

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90 117.37201
19) Describe proposed well work, including the drilling and plugging back of any pilothole 0 5 1 0 1 8 0
Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,680 feet. Drill Horizontal leg - stimulate and be capable of producing from the Benson to the Marcellus Formation. Should we encounter red rock/formation issues set the 13 3/8 into next component formation. Should we encounter a unanticipated void we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:  The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. our maximum pressure is not to exceed 10,000 lbs. Please refer to attached list.
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres):
22) Area to be disturbed for well pad only, less access road (acres):
23) Describe centralizer placement for each casing string:
Conductor - No centralizers used. Fresh Water/Surface - centralized every three joints to surface. Coal - Bow Spring on first two joints then every third joint to 100' from surface. Intermediate - Bow Springs centralizers every third joint to 100' from Surface. Production - Rigid bow springs every third joint from KOP to TOC, rigid bow springs every joint to KOP.

24) Describe all cement additives associated with each cement type:

See attached sheets - Conductor - GTS. Fresh Water - 15.6 ppg Type 1 cement with flake and +2% CaCl, 0.25# lost circ., 30% excess yield = 1.18. Coal-15.6 ppg Type 1 +2% CaCl, 0.25# Lost Circ 30% Excess Yield = 1.18 Intermediate- 15.6 ppg Class A +0.4% Ret, 0.15% Disp, 0.2% Anti Foam, 0.125# sk Lost circ. 20% Excess Yield =1.19 To Surface. Production - 14. 8 ppg Class A 25:75:0 System +2.6% cement extender, 0.7 Fluid Loss additive, 0.45% high temp retarder, 0.2% fiction reducer 10% excess Yield =1.27 TOC >= 200' above 9.625" shoe. See attached approved variance from WV DEP.

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing is run in air. Apart from insuring the hole is clean via air circulation at TD, there are no other conditioning procedures. Coal and Fresh Water/Surface -The hole is drilled w/air and casing is run in air. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate - Once surface casing is set and cemented Intermediate hole is drilled either on air or SOBM and filled w/ KCI water once filled w/ KCI water once drilled to TD. The well is conditioned with KCI circulation prior to running casing. Once casing is at setting depth, the well is circulated a minimum of one hole volume prior to pumping cement. Production - The hole is drilled with synthetic oil base mud and once at TD the hole is circulated at maximum allowable drilling pump rate for at least 6X bottoms up. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

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\*Note: Attach additional sheets as needed.

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	۳	n o	Ne noble energy	<b>\</b> b					SHL-22D-HS (Marcellus HZ) Macellus Shale Horizontal	SHL-22D-HS (Marcellus HZ) Macellus Shale Horizontal	
			1						Marshall County, WV	ounty, WV	
						SHL-2	2D SHL	SHL-22D SHL (Lat/Long)	(5520	(552099.48N, 1698354.6E) (NAD27)	E) (NAD27)
<b>Ground Elevation</b>	ion		1322'	_		SHL-2	2D LP (	SHL-22D LP (Lat/Long)	(55143	(551432.39N, 1695993.66E) (NAD27)	E) (NAD27)
Azm			145°			SHL-22D	BHL	(Lat/Long)	(5444	(544419.7N, 1700904.02E) (NAD27	E) (NAD27)
WELLBORE DIAGRAM	AM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
2000	2000	e c	#T44 #00				ā	To Current	NA	Ensure the hole is clean at	Stabilize surface fill/soil.
		30	30 117#	Conductor	40	40	Y Y	10 Sunace	W.N.	JŪ.	Conductor casing = 0.375 wall thickness
- Constitution of the Cons		26	20"				AIR	15.6 ppg Type 1 + 2% CaCl, 0.25# Lost Circ	Centralized every 3 joints to surface	Fill with KCI water once drilled to TD. Once casing is at setting depth, circulate a	Surfac
	×			Fresh Water Casing	360	360		30% Excess Yield = 1.18		minimum of one hole volume prior to pumping cement.	Burst=2730 psi
			13 3/8" 5/ 5#					15.6 ppg Type 1 + 2% CaCl, 0.25# Lost	Bow Spring on first 2	Fill with KCl water once drilled to TD. Once casing is	Intermediate casing = 0.380*
V	×	17 1/2	J-55 BTC	Pittsburgh Coal	770	780	AIR	30% Excess	joint to 100' form	at setting depth, circulate a	
					/ <b>8</b> 80	/880		Yield = 1.18	surface	minimum of one hole volume prior to pumping cement.	Burst=2730 psi
	×			Big Lime	1636	1829		15.6ppg Class A		č	
	10000		800000000000000000000000000000000000000	Big Injun	1829	2178		+0.4% Ret, 0.15% Disp, 0.2% AntiFoam.	Bow spring centralizers	drilled to TD. Once casing is	
		12 3/8	9-5/8" 36# J-55 LTC	5th Sand Base	2867	2889	AIR	0.125#/sk Lost Circ	every third joint to 100'		the 5th Sand. Intermediate casing = 0.352" wall thickness
******	×							Yield=1,19	ופפר ווסווו אחושכפי	prior to pumping cement.	
	53335			Int. Casing	3139	3139		To Surface			
×				Warren Sand	4173	4188					
)ei		9 75" Vortical		Java	5039	5123	8.0ppg -		Rigid Bow Spring every		
******		o'l'a veillear		Angola	5223	5856	SOBM	14.8ppg Class A 25:75:0	TOC		
∍d				Rhinestreet	5856	6286		System +2 6% Cement extender			
								0.7% Fluid Loss additive,		Once at TD circulate at max	
			5-1/2"	Cashaqua	6286	6384		0.45% high temp retarder, 0.2% friction		allowable pump rate for at	Production casing = 0.361" wall thickness
×		9 75" (1976)	20#	Middlesex	6384	6417	12.0ppg-	reducer		least 6x bottoms up. Once on bottom with casing,	Burst=12640 psi
		0.1.0 Culve	TXPRTC	WEST NIVE	3	*/+6	SOBM	10% Excess		circulate a minimum of one	schedules may be changed
			<u> </u>	Burkett	6474	6498		Yield=1.27	Rigid Bow Spring every	hole volume prior to pumping cement.	due to hole conditions
				i dily Enindskund	0000	2500		TOC >= 200'	John 10 AO		
				Hamilton	6760	1 400		above 9.625" shoe			
		8.75" - 8.5"		Nai Ceius	16442	0000	12.0ppg-				
		Lateral		<u>a</u>	2	0000	SOBM				
	ACCEPTED 1000	X	*********** <b>X</b> *************************	Onondaga	0699	6700	X	804	*	0.000 X 0.000	×
88	1 P @ 668	1 D @ 6680' TVD / 7852'	<b>Y</b>	α	F Hole	75 / 8 5 Hole - Cemented I and String	na Strina				T) @ +/, e6 97: T/D
	9	MD		5-1/-9	2" 20# H(	5-1/2" 20# HCP-110 TXP BTC	BTC		+/-856	+/-8561' ft Lateral	+/-16413' MD

API Number 4'	7 _ 051 -	<b>-</b>	
Operat	or's Well No	. SHL 22 DHS	

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS 4705101809

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Nobl	e Energy, Inc.	c	OP Code 494501907	
Watershed (HUC 10)	Wheeling Creek (undefined)	Quadrangle	Valley Grove	
Elevation 1322'	County_051 - Marshall		District Sandhill	<del></del>
Will a pit be used?	ng more than 5,000 bbls of water to complete the		<del></del>	
_		no utilization		
•	etic liner be used in the pit? Yes No _	If so,	what ml.?	<del>_</del>
Proposed Dis	sposal Method For Treated Pit Wastes:			
	Land Application Underground Injection (UIC Permit Number at next anticipated well) Off Site Disposal (Supply form WW-9 for Other (Explain	ell disposal location	<u>.</u>	
Will closed loop syste	em be used? If so, describe: Yes			
Drilling medium antic	ripated for this well (vertical and horizontal)? A	ir, freshwater, o	oil based, etc. Air/water based mud through in	termediate string then
-If oil based,	what type? Synthetic, petroleum, etc.Synthetic			
Additives to be used i	n drilling medium? Please see attached sheet			
	method? Leave in pit, landfill, removed offsite	, etc.	Re <del>Office c</del>	ceived
	and plan to solidify what medium will be used?		sawdust)	
-	offsite name/permit number? please see attache		DEC	1 5 2014
on August 1, 2005, by provisions of the perr law or regulation can I certify und application form and obtaining the information penalties for submitting Company Official Signature Company Official (Tompany Offi	I understand and agree to the terms and condition the Office of Oil and Gas of the West Virginia mit are enforceable by law. Violations of any to lead to enforcement action. Her penalty of law that I have personally example all attachments thereto and that, based on mation, I believe that the information is true, and false information, including the possibility of enature when the information is true, and the possibility of the possibility of the information is true, and the possibility of the possibi	Department of lerm or condition nined and am famy inquiry of courate, and con	Environmental Protection. It is not the general permit and/camiliar with the information those individuals immediate implete. I am aware that the	submitted on this ly responsible for ere are significant
Subscribed and sworr	before me this 11 day of	<u> </u>	, 20_14	
- Weel	~		Notary Public	02/27/2015
My commission expir	es_09/19/2023			

Proposed Revegetation Treatment: Acres Disturbed	-				l No	Operator's Wel		nc	Noble Energy,
Fertilizer type  Fertilizer amount  Fertilizer amount  Mulch  Hay or Straw at 2  Tons/acre  Seed Mixtures  Temporary  Fermanent  Seed Type  Ibs/acre  Tall Fescue  40  Ladino Clover  5  **alternative seed mixtures are shown on the Site Design.  Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)	0	18	0	1	<b>6</b> 5	Prevegetation pH	21.01		
Fertilizer amount 500lbs/acre								0-20-20 or equal	
Seed Mixtures  Temporary Permanent  Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40  Ladino Clover 5 Ladino Clover 5  **alternative seed mixtures are shown on the Site Design.  Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)								500	
Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40  Ladino Clover 5 Ladino Clover 5  **alternative seed mixtures are shown on the Site Design.  Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)							Tons/acre	Straw at 2	Mulch_ Hay o
Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40  Ladino Clover 5 Ladino Clover 5  **alternative seed mixtures are shown on the Site Design.  Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)							Seed Mixtures		
Tall Fescue 40  Ladino Clover 5  **alternative seed mixtures are shown on the Site Design.  Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)					nt	Permane		Temporary	
Ladino Clover 5  **alternative seed mixtures are shown on the Site Design.  Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)			cre	bs/a	į	Seed Type		lbs/acre	Seed Type
**alternative seed mixtures are shown on the Site Design.  Attach:  Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)					40	escue	Tall Fe	40	Tall Fescue
Attach:  Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided)					5	Clover	Ladino	5	Ladino Clover
Photocopied section of involved 7.5' topographic sheet.	een	nave b	ıfo l	nis ir	ding tl	ess engineered plans inclu	and application (unle		Drawing(s) of road, loca provided)
Plan Approved by: January Wellolow							-	in Tribola	Plan Approved by:
Comments: Pre seed and mulch all cut area, maintain all E & S during operation.						operation.	n all E & S during o	d mulch all cut area, mainta	FIE SEEU 6
Received Office of Oil & Gas	_						ne.		
DEC 1 5 2014							A.5.2		
OCC 1 9 com	_							OEC 19 com	

Field Reviewed?

Title: Oil and Gas Inspector

Ye

Date: 7/24/14

02/27/2015

# **Cuttings Disposal/Site Water**

4705101809

### **Cuttings – Haul off Company:**

Eap Industries, Inc. DOT # 0876278 1575 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

Waste Management 200 Rangos Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19 Cochranton, PA 16314 814-425-7773

### **Disposal Locations:**

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

Westmoreland Waste, LLC Permit # 100277 111 Conner Lane Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R30-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. facility Permit # PAD004835146 / 301071 233 Max Lane Yukon, PA 25968 724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 Received
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Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

4705101809

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

### Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 330-892-0164

### **Disposal Locations:**

Solidification Waste Management, Arden Landfill Permit # 100172 200 Rangos Lane Washington, PA 15301 724-225-1589

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 330-536-6825

Adams #1 Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484

Adams #2 Permit # 34-031-2-7178 740-575-4484

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# Site Safety Plan Noble Energy, Inc. SHL 22 Well Pad

DH5

July 2014: Version 1

7/24/14

For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

Noble Energy, Inc.
Appalachia Offices
333 Technology Drive, Suite 116
Canonsburg, PA 15317-9504

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Office of Oil & Gas
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