

### 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

May 27, 2014

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-8510090, 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

Operator's Well No: PEN 20 HHS

Farm Name: COKELEY, LAWRENCE & ANGEL

API Well Number: 47-8510090

Permit Type: Horizontal 6A Well

Date Issued: 05/27/2014

# **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. Failure to adhere to the specified permit conditions may result in enforcement action.

# **CONDITIONS**

- 1. The Office of Oil and Gas has approved your permit application, which includes your addendum. Please be advised that the addendum is part of the terms of the well work permit, and will be enforced as such. The Office of Oil and Gas must receive a copy of all data collected, and submitted in a timely fashion, but no later than the WR35 submittal.
- 2. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE regarding this proposed activity.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.

# PERMIT CONDITIONS 4708510090

- 8. 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.
- 9. 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.

### Noble Energy Addendum

#### Pennsboro PEN-20 site proposed well procedures

- Intermediate casing has been revised to extend below the Alexander.
- The two Marcellus wells operated by Antero will be plugged prior to any fracing operations.
- Operators of all offset wells will be contacted for monitoring as per tables below:

#### Offset Deep Wells (Alexander or deeper):

API	TD	Lease	Current Operator	TVD_SS	Formation
4708505459	5500	Homer Hammett 1	TRIAD HUNTER LLC	-4470	Rhinestreet Sh
4708505457	5504	Herschel Pifer 1	PETRO MARK INC	-4484	Rhinestreet Sh
4708507977	5453	John A Smith 9	PARDEE EXPLORATION CO	-4391	Alexander
4708509636	6072	Russell E Fox Sr	ANTERO RESOURCES	-5256	Marcellus Sh
4708509672	6300	Russell Fox Sr	ANTERO RESOURCES	-5238	Marcellus Sh
4707301462	5477	PEIPHER H ET AL	PETRO MARK INC	-4517	Rhinestreet Sh

- Noble will contact these operators prior to fracturing, offer to assess the surface pressure handling capabilities of their equipment and offer recommendation for upgrading prior to fracing operations commence.
- Noble will continuously keep the above offset well operators appraised about the proximity and progress in fracing the horizontal Marcellus wells underlying their deep vertical wells.
- Noble will offer to monitor the above wells during fracing operations within 500' of the vertical well location and notify all appropriate vested parties in the event of a watered out or anomalously high pressure detected.

#### **Description of Monitoring**

Pressure transducers, and/or visual monitoring of existing pressure gauges, shall be conducted no less frequently than once every four hours while fracing operations are being conducted within 500' of the vertical well in question. For the deepest wells in the Rhinestreet and Marcellus we may recommend shutting in the wells for pressure monitoring.

- Well communication will likely be in one of two forms: a) a higher than expected pressure is found at an offset well, or b) the offset well is watered out and indicates a zero pressure.

  Anything more than 100 psi above expected pressures or at 0 psi would be considered an event.
- Our fracturing treatments will be designed to reach close to 90 bpm, use a slick water formulation. Typically our sand volumes will be between 250,000 and 600,000 pounds of sand per stage.
- The plan is to fracture all of the laterals prior to flowback procedures. However, in the event of an event, we will cease pumping that frac stage and continue with the following stage until that lateral is fully stimulated. If we see high pressure in excess of 500 psi above normal flowing

tubing pressure in any monitored well, we will immediately cease fracing operations and flow back the stimulated lateral to alleviate pressure seen in the offset well prior to commencing operations again.

#### Contingency:

 Offset wells watering out – We are recommending that an affected offset operator wait for Noble to complete operations on that particular lateral including flowback to alleviate potential pressure surges before any offset operator intervenes to swab the affected well and bring it back on production

4708510090

## STATE OF WEST VIRGINIA

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

337 494501907 085-Ritchie Clay Ellenboro Noble Energy, Inc. 1) Well Operator: Operator ID County District Ouadrangle 2) Operator's Well Number: PEN 20 HHS Well Pad Name: PEN 20 3) Farm Name/Surface Owner: Lawrence B, and Angela Cokeley Public Road Access: Bonds Creek 4) Elevation, current ground: [108] Elevation, proposed post-construction: 1028.7 Oil Underground Storage 5) Well Type (a) Gas Other (b)If Gas Shallow Deep Horizontal 6) Existing Pad: Yes or No No 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s): Marcellus 6178 - 6239 / 61' Thick / 4118 psi 8) Proposed Total Vertical Depth: 6220' Marcellus 9) Formation at Total Vertical Depth: 13237' 10) Proposed Total Measured Depth: 11) Proposed Horizontal Leg Length: 6598' 398' 12) Approximate Fresh Water Strata Depths: 13) Method to Determine Fresh Water Depths: nearest offset wells 14) Approximate Saltwater Depths: 15) Approximate Coal Seam Depths: none 16) Approximate Depth to Possible Void (coal mine, karst, other): none 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No V (a) If Yes, provide Mine Info: Name: Depth: Seam: Owner:

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Environmental Protection

18)

# **CASING AND TUBING PROGRAM**

4708510090

TYPE	Size	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	New	LS	94	40'	40'	GTS
Fresh Water	13 3/8"	New	J-55	54.5	550'	550'	15.6 ppg Type 1 40% excess Yield = 1,18
Coal		New		_			
Intermediate	9 5/8"	New	HCK-55	36.0	5229'	5229'	15.6 ppg Class A tail slumy CTS
Production	5 1/2"	New	HCP-110	20.0	13237'	13237'	14.8 ppg Class A tail sturry to inside intermediate casing
Tubing							
Liners							

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	0.25		GTS	GTS
Fresh Water	13 3/8"	17.5"	.380	2730	Type 1	15.6 ppg Type 1 40% excess Yield = 1.18
Coal						
Intermediate	9 5/8"	12.25"	.352	3520	Class A	50 bbis 10 ppg spacer, 12.0 ppg lead skirty, ( 600) of 15.6 ppg Class A Lad skirty comented to surface.
Production	5 1/2"	8.75"	.361	12,640	Class A	lead skery to 2000' to recover 608M, 14.6 ppg Class A tall skery to essate intermediate cealing
Tubing						
Liners						

# **PACKERS**

Kind:		
Sizes:		
Depths Set:	Offi	RECEIVED

WV Department of Environmental Protection

# 4708510090

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:	
Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6220 feet. Drill Horizontal leg - stimulate and produce the Marcellus Formation. Should we encounter a unanticipated void we will install a minimum of 20'	
of casing below the void but not more than 50' 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.	
Please see attached list.	
10.0	_
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 - Bow spring centralizers every three joints to surface. Intermediate	_
- Bow Springs centralizers every joint to KOP, one every third joint from KOP to 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 - Grout to Surface 1.15% CaCl. Fresh Water - Class A Portland cement with flake and 1.	
15% CaCl2, 30%excess yield =1.18. Intermediate- 15.6 ppg Class A +0.4% Ret, 0.15% Disp, 0.2% AntiFoam, 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% friction reducer 10% excess Yield=1.27 TOC>=200' above 9.625" shoe.	
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. Fresh Water -The hole is drilled w/air and casing is run in air. Once casing is on bottom, the hole is filled with the later with the later and casing is run in air.	
hole volume is circulated prior to pumping cement. Coal - The hole is drilled w/air and casing is run in air. Once casing is at setting depth the bole is filled w/ KCI water and a minimum of one hole volume is circulated prior to pumping cement. Intermediate - Once surface casing is set and cemented	
Intermediate hole is drilled either on air or SOBM and filled w/ KCl water once filled w/ KCl water once drilled to TD. The well is conditioned with KCl	
circulation prior to running casing. Once casing is at setting depth, the well is circulated a minimum of one hole volum தீ நீழ் நீழ் நீழ் முற்றிற்ற	
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	

\*Note: Attach additional sheets as needed.

bottoms up. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

WV Department of Environmental Protection

<b>AWS Cement</b>	Additives-	<b>Noble</b>	<b>Energy</b>
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)  -		AWS Cement Addi	itives- Noble Energy	Compared to the second	- 511591
ဂ	Product Name	Product Use	Chemical Name	CAS Nichbert 0	2
Surface &		Cement Accelerator	Calcium Chloride Potassium Chloride Water Sodium Chloride	7447-404 O S Ed C	onmental r
Intermedia	C-41L	De-foamer	Methyl Alcohol Tributyl Phosphate	67-56-1 <b>5</b> 126-73-8	
Ī	Pol-E-Flake	LCM	Polyester	Non-Hazardous	_

	Bentonite Gel	Viscosifier	Crystalline Silica, Quartz	14808-60-7	
Spacer	Baro-Seal	LCM	Mixture	Non-Hazardous	
	Pol-E-Flake	LCM	Polyester	Non-Hazardous	

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Product Name	Product's Purpose	Chemical Ingredients	CAS Number 5 7
DCP-AC2	Accelerator	Calcium Oxide	CAS Vermber 2014 8-8 120051 Protecti
DCP-FR2	Friction Reducer	No hazardous components.	RECEIVEDE Offic) of O) offic) offic
DCP-RT1	Retarder	No hazardous components.	## ## ## ## ## ## ## ## ## ## ## ## ##
SPACER			E O
Dynaflush 2W	Viscosity	No hazardous components.	N/A
DCP-GL1	Suspension Agent	Welan Gum	96949-22-3
DAP-401	Mutual Solvent	Ethoxylated alcohols	Trade Secret
		Alkoxylated terpene	Trade Secret
		Polyethylene glycol	25322-68-3

				1889 SS		
	Product Name	Product's Purpose	Chemical Ingredients	CASCOLUMBBER 20 CASCOLUMBBER 2		
	DCP-EX1	Extender	Sodium metasilicate, anhydrous			
			Silicon dioxide	69012-64-2		
			Iron Oxide	1309-37-1		
			Silicon Carbide	409-21-2		
	DCP-EX2	Extender	Aluminum Oxide	1344-28-1		
			Calcium Oxide	1305-78-8		
			Magnesium Oxide	1309-48-4		
			Silicon dioxide	14808-60-7		
ment	DCP-FL1	Fluid Loss Agent	No hazardous components.	N/A		
ဗ န	DCP-FR2	Friction Reducer	No hazardous components.	N/A		
Production Cernent	DCP-RT3	Retarder	No hazardous components.	N/A		
	SPACER					
	Dynaflush 2W	Viscosity	No hazardous components.	N/A		
	DCP-GL1	Suspension Agent	Welan Gum	96949-22-3		
			Ethoxylated alcohols	Trade Secret		
	DAP-401	Mutual Solvent	Alkoxylated terpene	Trade Secret		
			Polyethylene glycol	25322-68-3		
	Barite	Weighting Agent	Inorganic barium salt	7727-43-7		



#### 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 dep.wv.gov

October 31, 2013

Schlumberger Attn: Daniel L. Sikorski 4600 J Barry Court Suite 200 Canonsburg, PA 15317

RE: Cement Variance Request

Dear Sir:

This agency has approved a variance request for the cement blend listed below to be used on surface and coal protection easing only. The variance cannot be used without an oil and gas operator requesting its use on a permit application and approved by this agency:

- 2% Accelerator (S001)
- 0.2% Antifoam (D046)
- 0.125 lb/sk Polyester Flake (D0130)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely,

James Peterson

Environmental Resources Analyst

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Office of Oil and Gas

FEB 2-4 2014

WV Department of Environmental Protection

n	noble energy						PENS-20H WELLBORE DIAGRAM  Marcellus Shale Horizontal  Ritchie County, WV  Ground Elevation 1029'											
			PENS-20H SHI	_ (Lat/Lon	g)			).58N, 1568308.59I		2014 tment of Protection								
ound Elevation	102	29'	PENS-20H LP	(Lat/Long	1)			5.59N, 1568990.55I	144	3.4 apart								
Azm	14	0°	PENS-20H BHI	_ (Lat/Lon	g)		(299851	.86N, 1573231.14I		G G G								
	HOLE	CASING	GEOLOGY	TVD Top	TVD Bottom	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS								
	26*	20- 52#	Conductor		40	AIR	Grouted to surface	N/A	Ensure the hole is claim at TD.	Stabilize surface fills Conductor casing = 6 wall thickness								
			Conductor		40				S. T. Service									
	17.5*	.5* 13-3/8* 54.5# J-55 BTC				AIR	15.6 ppg Type 1 + 2% CaCl, 0.25# Lost Circ 40% Excess	Bow Spring every 3 joints to surface	Fill with KCl water once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping	Protect freshwater, Surface casing = 0.38 thick, Burst=2730 ps								
			Surface Casing		550		Yield = 1,18		cement.									
			Maxton Sand	1670.5	1739.5					Casing to be ran below the Alexander. Intermediate casing = 0.352" wall thickness Burst=3520 psi,								
			Big Lime	1870.5	2342					Collapse 2980 p								
			Big Injun	1930.5	2477.5		50 bbls 10 ppg spacer, 12.0 ppg SOBM 8.0 - 8.5 lead slurry, (800') ppg of 15.6 ppg Class	joint to KOP, one	setting depth,									
			Weir Sand	2349	2383.5													
	12.25"	9-5/8" 36# HCK-55	Gordon Sand	2652	2658													
	12.25	12.23	12.23	12.25	BTC	5th Sand	2853,5	2865.5	ppg	A tail slurry	every third joint from KOP to 100' from	of one hole volume						
											Warren Sand	3440.5	3503.5	1	cemented to surface.	surface	pripr to pumping	
												Benson	4852	4914		surface.	1	cement
			Alexander	5064	5129													
			Intermediate Casing	52	229 TVD													
			Rhinestreet	5641	5974		120 bbls spacer with density and rheology heirarchy,	Rigid Bow Spring every third joint from KOP to TOC	Once at TD, circulate at max allowable pump rate for at least	0,361" wall								
	8.75/8.5**	.75/8.5" 5-1/2" 20# HCP- 110 TXP BTC	Marcellus	6178	6239	SOBM 12.5- 13.0 ppg	14.8 ppg Class A tail slurry to inside	Rigid Bow Spring	6x bottoms up. Once on bottom with casing, circulate a minimum of one hole	Burst=12640 ps Note:Actual centralizer								
			TD		13237		intermediate casing	every joint to KOP	volume prior to pumping cement.	changed due to hole conditions								

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

## FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Noble Energy, Inc.		OP Code 494501907	_
Watershed (HUC 10) North For	rk Hughs River / Bonds Creek Quad	drangle Ellenboro	
Elevation	County 085-Ritchie	District_Clay	_
Do you anticipate using more that Will a pit be used? Yes			
If so, please describe an	tiorpared pri musici.	utilization of a pit	_
Will a synthetic liner be	used in the pit? Yes No	If so, what ml.?	
Proposed Disposal Meth	nod For Treated Pit Wastes:		
Under Reuse Off Si	Application ground Injection ( UIC Permit Number_ (at API Number_at next anticipated well te Disposal (Supply form WW-9 for dis (Explain_		
Will closed loop system be used?	? If so, describe: Yes		
	this well (vertical and horizontal)? Air, i	freshwater, oil based, etc. Advivator based mid through intermediate strict	ag then
	Synthetic, petroleum, etc.Synthetic	35 05 21 10 00 30 00 20 00 00	
	nedium? Please see attached sheet		
	Leave in pit, landfill, removed offsite, et	c. Landfills	
	solidify what medium will be used? (co		
And the second of the second of the second of	e/permit number?please see attached sh		
on August 1, 2005, by the Office provisions of the permit are enfo law or regulation can lead to enfo I certify under penalty application form and all attach obtaining the information, I bel	of Oil and Gas of the West Virginia De precable by law. Violations of any term precement action. of law that I have personally examine ments thereto and that, based on my	s of the GENERAL WATER POLLUTION PER partment of Environmental Protection. I understan or condition of the general permit and/or other and am familiar with the information submit inquiry of those individuals immediately response, and complete. I am aware that there are no or imprisonment.	and that the rapplicable tted on this consible for
Company Official Signature	Smyr	mmeenen	7
Company Official (Typed Name	Dee Swiger	office Notory Public	as
Company Official Title Regula	atory Analyst III	Dolores J Swiger 235 Cottage Avenue Weston WV-20452	1
Subscribed and sworn before me		Environmental Prote	of ection 5/30/2014
My commission expires	-19-2023		

Proposed Revegetation Tre	eatment: Acres Disturbed	18.9 Prevegetat	tion pH 6.0
•	_	ect to pH	
10-	-10-20 or equal		
	500		
Fertilizer amount 500		lbs/acre	
MulchHay or S	Straw at 2	Tons/acre	
		Seed Mixtures	
1	Гетрогагу	1	Permanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
**alternative seed mixtures	s are shown on the Site Des	<del></del>	
Orawing(s) of road, location or ovided)	on, pit and proposed area for	r land application (unless engineered plet.	lans including this info have bed
Orawing(s) of road, location or ovided)  Photocopied section of inverse process of the process o	olved 7.5' topographic shee	et.	<u></u>
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Drawing(s) of road, location provided)  Photocopied section of inverse provided prov	olved 7.5' topographic shee	et.	RECEIVED Office of Oil and Gas
Photocopied section of inverse Plan Approved by:	Dein When rent of milds	all out orea s	ranton al

# Site Water/Cuttings Disposal

# <u>Cuttings</u>

# Haul off Company:

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

# **Disposal Locations:**

Apex Environmental, 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 (Allied Waste) R30-07900105-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

MAX Environmental Technologies, Inc. facility 233 Max Lane Yukon, PA 25698 724-722-3500

# Water

## Haul off Company:

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

#### **Disposal Location:**

Solidification Office of Oil and Gas Waste Management, Arden Landfill Permit # 100172 200 Rangos Lane Washington, PA 15301 724-225-1589

FEB 24 2014 WV Department of

**Environmental Protection** 

**RECEIVED** 

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



Site Safety Plan
Noble Energy, Inc.
PEN20 Well Pad
Ritchie County, WV
February 2014: Version 1

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 Davida Car 2-20-14

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Office of Oil and Gas

FEB 24 2014

WV Department of Environmental Protection

05/30/2014



