

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

August 05, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-8510129, 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 GHS

Farm Name: COKELEY, LAWRENCE & ANGEL

API Well Number: 47-8510129

Permit Type: Horizontal 6A Well

Date Issued: 08/05/2014

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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

- 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

4708510129

- 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.
- 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.
- 10. 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 <u>DEPOOGNotify@wv.gov</u> within 30 days of commencement of drilling.

47 0-8/5 120142/80600

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

10000
5/57/20

			, 0,11121			1	331
1) Well Operat	tor: Noble E	nergy, Inc.		494501907	085-Ritchie	Clay	Ellenboro
				Operator ID	County	District	Quadrangle
2) Operator's Well Number: PEN 20 GHS			HS	Well Pa	d Name: PEN	20	
3) Farm Name	/Surface Ow	ner: Lawrence	B. and Angel	a Cokeley Public Roa	ad Access: Bo	nds Cree	k
4) Elevation, c	urrent groun	d: 1081	· E	levation, proposed	post-constructi	on: 1028	.7
5) Well Type	(a) Gas		Oil _	Und	erground Storag	ge	
	Other						
	(b)If Gas	Shallow		Deep			
		Horizontal	_=_				
6) Existing Pac	d: Yes or No	No					
	arget Formati 6178 - 6239			cipated Thickness a	and Associated	Pressure(s)):
8) Proposed To	otal Vertical	Depth: 622	20'				
) Formation a	nt Total Verti	cal Depth:	Marcellu	IS			
10) Proposed	Гotal Measur	ed Depth:	12435'				
11) Proposed I	Horizontal Le	eg Length:	5646'				
12) Approxima	ate Fresh Wa	ter Strata De	pths:	398'			
13) Method to	Determine F	resh Water I	Depths:	nearest offset we	lls		
14) Approxima	ate Saltwater	Depths: 1	244'				
15) Approxima	ate Coal Sear	n Depths: _r	none				
16) Approxima	ate Depth to	Possible Voi	d (coal m	nine, karst, other):	none		
17) Does Prop directly overly					No	V	
(a) If Yes, pr	ovide Mine I	nfo: Name	:				
Annual Section		Depth	:				
		Seam:				R	ECEIVED
		Owne	r:			Office	of Oil and Gas
							T C 1907.3%

WV Department of Environmental Protection
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18)

CASING AND TUBING PROGRAM

4708510129

TYPE	Size	New or	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu.
		<u>Used</u>		<u></u>			<u>Ft.)</u>
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 slurry CTS
Production	5 1/2"	New	HCP-110	20.0	12435'	12435'	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 skrry, (800) of 15.6 ppg Class A tal skrry comented to surface
Production	5 1/2"	8.75"	.361	12,640	Class A	lead skury to 2007 to recover SOBM, 14.8 ppg Clase A tel skury to ireide intermediate casing
Tubing		· -				
Liners						

PACKERS

Kind:		
Sizes:		
Depths Set:		PECEIVED

Office of Other Gas

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.
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): 7.0
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. Fresh Water - 15.6 Type 1+ 2% CaCl,0.25# lost Circ. 40%excess yield =1.18. Intermediate- 50 bbls 10 ppg spacer, 12.0 ppg lead slurry, (800') of 15.6 ppg Class A tail slurry cemented to surface. 120 bbls spacer with density and rheology hieirarchy lead slurry to 2000' to recover SOBM, 14.8 ppg Class A tail slurry to inside intermediate casing.
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 w/ KCl water and a minimum of one 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 hole is filled w/ KCl 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 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.
*Note: Attach additional sheets as needed.

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. 1 2014

 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 slight waterpartment of formulation. Typically our sand volumes will be between 250,000 and 60任何如何中的结果的自己的 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:

1) 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

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AWS	Cement	Additives-	Noble	Energy
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1 53		Product Name	Product Use	Chemical Name	CAS Number
4708	Surface &	Calcium Chloride Flake	Cement Accelerator	Calcium Chloride Potassium Chloride Water Sodium Chloride	10043-52-4 B 7447-40-7 D PUB 7732-18-5 D PUB 7647-14-5 D F
	Intermediate	C-41L	De-foamer	Methyl Alcohol Tributyl Phosphate	67-56-1 0 5 2 126-73-8 C 0
		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

<u> </u>	Product Name	Product's Purpose	Chemical Ingredients	CAS Number
•	DCP-AC2	Accelerator	Calcium Oxide	1305-78-8
	DCP-FR2	Friction Reducer	No hazardous components.	N/A
•	DCP-RT1	Retarder	No hazardous components.	s setion
Đ,	SPACER			d Gay
Kick Off Plug	Dynaflush 2W	Viscosity	No hazardous components.	VEI land land artm
X Ş	DCP-GL1	Suspension Agent	Welan Gum	Trate Secret
	DAP-401	Mutual Solvent	Ethoxylated alcohols	Graß Secret S 2
			Alkoxylated terpene	Trate Secret
			Polyethylene glycol	25322-68-3

Produ	ict Name	Product's Purpose	Chemical Ingredients	CAS Number 5
DC	P-EX1	Extender	Sodium metasilicate, anhydrous	CAS Number 5
DC	P-EX2	Extender	Silicon dioxide Iron Oxide Silicon Carbide Aluminum Oxide Calcium Oxide Magnesium Oxide Silicon dioxide	1309-48-4 14808-60-7
DC	P-FL1	Fluid Loss Agent	No hazardous components.	N/A
DC	P-FR2	Friction Reducer	No hazardous components.	N/A
DC	P-RT3	Retarder	No hazardous components.	N/A
SP	ACER			
Dynat	flush 2W	Viscosity	No hazardous components.	N/A
DC	P-GL1	Suspension Agent	Welan Gum	96949-22-3
DA	P-401	Mutual Solvent	Ethoxylated alcohols Alkoxylated terpene Polyethylene glycol	Trade Secret Trade Secret 25322-68-3
В	arite	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 casing 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 AnalystyED

Office of Oil and Gas

MAY 21 2014

0 1 5	9 n	oble energy					Ma	OG WELLBORE arcellus Shale Hor Ritchie County, Ground Elevation	izontal WV	uc
			PENS-20G SH	IL (Lat/Lon	g)			3.95N, 1568293.82I		7 F
ound Elevation	10:	29'	PENS-20G LI	P (Lat/Long	1)	10		0.41N, 1568793.79I		9
○ Azm	32	20*	PENS-20G BH	IL (Lat/Lon	g)		(31034	5.67N, 1565164.47I		P P O
0 _	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 ball Glean at	Sabilize shace II/s Conductor of sing II/o wall this kness
	17.5*	13-3/5" 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 KCI waterince drilled to TD. Once casing is at setting depth, orculate a minimum of one hole yolume prior to pumping	S 'S
			Surface Casing		550		Yield = 1.18		cement.	
			Maxton Sand Big Lime	1670.5 1870.5	1739.5 2342					Casing to be ra below the Alexander. Intermediate casi = 0.352" wall thickness Burst=3520 psi Collapse 2980 p
			Big Injun	1930.5	2477.5		50 bbls 10 ppg		Once at TD, circulate	
			Weir Sand	2349	2383.5	Accepted to	spacer, 12.0 ppg	Bow Spring centralizers on every	at least 2x bottoms up. Once casing is at	
	12.25"	9-5/8" 36# HCK-55	Gordon Sand	2652	2658	SOBM 8.0 - 8.5	lead slurry, (800') of 15.6 ppg Class	joint to KOP, one	setting depth,	
	16.60	втс	5th Sand	2853.5	2865.5	PPS	A tail slurry	every third joint from KOP to 100' from	of one hole volume	
			Warren Sand	3440.5	3503.5		cemented to surface.	surface	pripr to pumping	
			Rencon	4852	4914	1	2015.140		cement	

8.75/8.5* Hole - Cemented Long String 5-1/2* 20# HCP-110 TXP BTC

12435

4914

5129

5974

6239

120 bbls spacer

with density and

rheology heirarchy,

lead slurry to 2000

to recover SOBM,

14.8 ppg Class A

tail slurry to inside

intermediate

casing

SOBM 12.5- 13.0

ppg

Rigid Bow Spring

every third joint from

KOP to TOC

Rigid Bow Spring

every joint to KOP

Once at TD, circulate

at max allowable

pump rate for at least

6x bottoms up. Once

on bottom with

casing, circulate a

minimum of one hole

volume prior to

pumping cement.

Production casing =

0.361" wall

thickness

Burst=12640 psi

Note:Actual

centralizer

schedules may be

changed due to hole

conditions

5229 TVD

Benson

Alexander

Intermediate Casing

Rhinestreet

Marcellus

TD

5-1/2" 20# HCP-

110 TXP BTC

8.75/8.5"

4852

5064

5641

6178

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

4708510129

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Noble Energy, Inc.		OP Code 494501907
Watershed (HUC 10) North Fort	k Hughs River / Bonds Creek Qua	drangle Ellenboro
Elevation 16 g1	County_085-Ritchie	District Clay
Will a pit be used? Yes	1 5,000 bbls of water to complete the p	
If so, please describe anti- Will a synthetic liner be	T T	utilization of a pit If so, what ml.?
The state of the s	od For Treated Pit Wastes:	If so, what hit.
Underg Reuse Off Site	application ground Injection (UIC Permit Number (at API Number_at next anticipated well be Disposal (Supply form WW-9 for disposal)	
Will closed loop system be used?	If so, describe: Yes	
Drilling medium anticipated for the	nis well (vertical and horizontal)? Air,	freshwater, oil based, etc. SOBM
	Synthetic, petroleum, etc.Synthetic	
Additives to be used in drilling me	edium? Please see attached sheet	
	eave in pit, landfill, removed offsite, e	c. Landfills
	solidify what medium will be used? (c	
-Landfill or offsite name	permit number?please see attached s	neet
on August 1, 2005, by the Office of provisions of the permit are enfortlaw or regulation can lead to enfort I certify under penalty application form and all attachmobtaining the information, I belipenalties for submitting false info	of Oil and Gas of the West Virginia Do reeable by law. Violations of any terr reement action. of law that I have personally examin- nents thereto and that, based on my	
Company Official Signature		Official Seal
	Dee Swiger / Jess CA Loka	Notary Public State of West Virginia Dolores J Swiger
Company Official Title Regula	Nery Allayst III	235 Collage Avenue Weston WV 26452
Subscribed and sworn before me	this day of MACC	, 20 / /
My commission expires	9-19-2023	Notary Public 08/08/20

			
	atment: Acres Disturbed		on pH <u>6.6</u>
Lime 2-3	Tons/acre or to correct to p	н	
Fertilizer type	-10-20 or equal		
Fertilizer amount_	500	lbs/acre	
Mulch_ Hay or S	Straw at 2Tons	:/acre	
	<u>Se</u>	ed Mixtures	
7	Cemporary	Pe	rmanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Orawing(s) of road, locatio	n, pit and proposed area for land a	pplication (unless engineered plan	ns including this info have be
Orawing(s) of road, location or ovided) Photocopied section of invented in the control of invented in	on, pit and proposed area for land a colved 7.5' topographic sheet.	pplication (unless engineered plar	ns including this info have be
Orawing(s) of road, location provided) Photocopied section of inverse Plan Approved by:			
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Drawing(s) of road, location provided) Photocopied section of inverse provided provided section of inverse provided provided by:	olved 7.5' topographic sheet.	all oil are	ea montain
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Drawing(s) of road, location provided) Photocopied section of inverse provided provided section of inverse provided provided by:	olved 7.5' topographic sheet.	all oil are	ea montain
provided)	Down War Down War Essed Mulch Aurry apris	all and are	RECEIVED fice of Oil and Gas

Site Water/Cuttings Dispose 0 0 8 5 1 0 1 2 9

Cuttings

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:

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Solidification

MAY 21 2014

Waste Management, Arden Landfill Permit # 100172
200 Rangos Lane
WV Department of
Washington, PA 15301
Environmental Protection

724-225-1589

b

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 EIVED
Office of Oil and Gas

MAY 21 2014



