

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

July 24, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706483, 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.

Operator's Well No: OXF97 CHS

Farm Name: HAESSLY LAND & TIMBER LLC.

James Martin

API Well Number: 47-1706483

Permit Type: Horizontal 6A Well

Date Issued: 07/24/2014

API Number: 4701706483

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

- 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

WELLW	UKK PI	ERMIT APPLICA	HON	8	526
) Well Operator: Noble Energy, Inc.		494501907	017-Doddridge	West Union	Oxford
4		Operator ID	County	District	Quadrangle
2) Operator's Well Number: OXF 97 CH	S	Well Pa	d Name: OXF9	97	
3) Farm Name/Surface Owner: Haessly Land	and Timber, lers	Public Ros	nd Access: Cour	ty Route 11 8	US Rt. 50
4) Elevation, current ground: 1360	E	levation, proposed	post-construction	on: 1335	
Other	Oil	Und	erground Storag	e	
(b)If Gas Shallow	п	Deep			
Horizontal	п				
5) Existing Pad: Yes or No No	2. 72.				
7) Proposed Target Formation(s), Depth(Marcellus 6858 - 6913' / 55' Thick /			and Associated I	Pressure(s)	k .
3) Proposed Total Vertical Depth: 6903	3'				
) Formation at Total Vertical Depth:	Marcellu	S			
0) Proposed Total Measured Depth: 1	16,806'				
1) Proposed Horizontal Leg Length: 9	,200'				
12) Approximate Fresh Water Strata Dep	oths:	266',503',810'			
13) Method to Determine Fresh Water D	epths:	nearest offset wel	lls		
	one				
15) Approximate Coal Seam Depths: N	one				
16) Approximate Depth to Possible Void	(coal m	ine, karst, other):	None		
17) Does Proposed well location contain directly overlying or adjacent to an active	coal sea		No	V	
(a) If Yes, provide Mine Info: Name:	NA				
Depth:					
Seam:					
Owner	:			Pe	hovion

APR - 7 2014

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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'	CTS
Fresh Water	13 3/8"	New	J-55	54.5	860'	860'	CTS 30% excess Yield =1.18
Coal		New					
Intermediate	9 5/8"	New	J-55	36.0	2962'	2962'	CTS 20% excess Yield = 1,19
Production	5 1/2"	New	HCP-110	20.0	16,806'	16,806'	10% excess Yield = 1.27 TOC=200 above 9.825" shoe
Tubing							
Liners				-			

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438	2730		CTS
Fresh Water	13 3/8"	17.5"	.380	2730	Type 1	30% excess Yield = 1.18
Coal						
Intermediate	9 5/8"	12.38"	.352	3520	Class A	20% excess Yield = 1.19 to surface
Production	5 1/2"	8.75"	.361	12,640	Class A	10% excess Yield = 1.27 TOC=200' above 9.625" shoe
Tubing					_	
Liners						

JCN 4 4-3-2014

PACKERS

Kind:		
Sizes:		
Depths Set:		

Received

APR - 7 2014

10) D. M. H.
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 6903 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 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 - Bow spring centralizers 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 - 1.15% CaCl. Fresh Water - Class A Portland cement with flake and 1.15% CaCl2, 30%

excess yield =1.18. Intermediate- 15.6 ppg Type 1 +2%CaCl, 0.25# Lost Circ 30% excess yield = 1.18. Intermediate - 15. 6ppg 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. 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. 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.

Received

*Note: Attach additional sheets as needed.

APR - 7 2014

Office of Oil and Gas WV Dept. of Environmental Protection



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

Received

APR - 7 2014

AWS Cement Additives- Noble Energy

	Product Name	Product Use	Chemical Name	CAS Number
	Calcium Chloride Flake	Cement Accelerator	Calcium Chloride	10043-52-4
			Potassium Chloride	7447-40-7
			Water	7732-18-5
Surface &			Sodium Chloride	7647-14-5
Intermediate	C-41L	De-foamer	Methyl Alcohol	67-56-1
			Tributyl Phosphate	126-73-8
	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

APR - 7 2014

Office of Oil and Gas

WV Dept. of Environmental Protection

	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.	N/A
D	SPACER			
Kick Off Plug	Dynaflush 2W	Viscosity	No hazardous components.	N/A
Xi Si Si	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

Received

APR - 7 2014

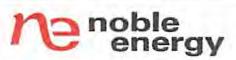
4701706483

DCP-EX1 Extender Sodium metasilicate, anhydrous 6834-922		Product Name	Product's Purpose	Chemical Ingredients	CAS Number
DCP-EX2 Extender Silicon Carbide 1309-37 Silicon Carbide 409-21					6834-92-0
DCP-EX2 Extender Silicon Carbide 409-21 Aluminum Oxide 1344-28 Calcium Oxide 1305-78 Magnesium Oxide 1309-48 Silicon dioxide 14808-6 DCP-FL1 Fluid Loss Agent No hazardous components. N/A DCP-FR2 Friction Reducer No hazardous components. N/A DCP-RT3 Retarder No hazardous components. N/A SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2				- · · · · · · · · · · · · · · · · · · ·	69012-64-2
DCP-EX2 Extender Aluminum Oxide 1344-28 Calcium Oxide 1305-78 Magnesium Oxide 1309-48 Silicon dioxide 14808-6 DCP-FL1 Fluid Loss Agent No hazardous components. N/A DCP-FR2 Friction Reducer No hazardous components. N/A DCP-RT3 Retarder No hazardous components. N/A SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2					
Calcium Oxide 1305-78 Magnesium Oxide 1309-48 Silicon dioxide 14808-6 DCP-FL1 Fluid Loss Agent No hazardous components. N/A DCP-FR2 Friction Reducer No hazardous components. N/A DCP-RT3 Retarder No hazardous components. N/A SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2				=	
Magnesium Oxide Silicon dioxide DCP-FL1 Fluid Loss Agent No hazardous components. N/A DCP-FR2 Friction Reducer No hazardous components. N/A DCP-RT3 Retarder No hazardous components. SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2		DCP-EX2	Extender		
Silicon dioxide 14808-6 DCP-FL1 Fluid Loss Agent No hazardous components. N/A DCP-FR2 Friction Reducer No hazardous components. N/A DCP-RT3 Retarder No hazardous components. N/A SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2					
DCP-FL1 Fluid Loss Agent No hazardous components. N/A DCP-FR2 Friction Reducer No hazardous components. N/A DCP-RT3 Retarder No hazardous components. N/A SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2		!			
SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2				Silicon dioxide	14808-60-7
SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2	ment	DCP-FL1	Fluid Loss Agent	No hazardous components.	N/A
SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2	a Cer	DCP-FR2	Friction Reducer	No hazardous components.	N/A
SPACER Dynaflush 2W Viscosity No hazardous components. N/A DCP-GL1 Suspension Agent Welan Gum 96949-2	roductic	DCP-RT3	Retarder	No hazardous components.	N/A
Dynaflush 2W Viscosity No nazardous components. DCP-GL1 Suspension Agent Welan Gum 96949-2	<u>C</u>	SPACER			
DOI -OLI Odoponolon rigoni		Dynaflush 2W	Viscosity	No hazardous components.	N/A
Fthoxylated alcohols Trade Se		DCP-GL1	Suspension Agent	Welan Gum	96949-22-3
				Ethoxylated alcohols	Trade Secret
		DAP-401	Mutual Solvent	•	Trade Secret
Polyethylene glycol 25322-6		, 0711 .0.	diddi ddiidaa		25322-68-3
		Barite	Weighting Agent		7727-43-7

APR - 7 2014

Office of Oil and Gas

WV Dept. of Environmental Protection:



DRILLING WELL PLAN

OXFD-97C-HS (Marcellus HZ) Macellus Shale Horizontal

Doddridge, WV

					OXFD-9	7C SHL	(Lat/Long)	(26961	8.46N, 1630656.63	E) (NAD27)
Bround Elevation		1335'					(Lat/Long)		6.36N, 1629634.71	
Azm		335.49			X 97 / 1 / 1 / 1		(Lat/Long)		7.02N, 1625818.22	
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	24	20* 94#	Conductor		40	AIR	To Surface	N/A	Ensure the hole is clean at TD.	Stabilize surface fill/soil Conductor casing = 0.43 wall thickness Burst=2730
×	17 1/2	13-3/8" 54.5# J-55 BTC				AIR	15.6 ppg Type 1 + 2% CaCl, 0.25# Lost Circ 30% Excess Yield = 1.18	Bow Spring on first 2 joints then every third joint to 100' form surface	Fill with KCI water once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping	Intermediate casing = 0.3 wall thickness Burst=2730 psi
			Int. Casing		860		11010 - 1.70	Surace	cement.	
x x			Maxton		2214		15.6ppg Class A		Fill with KCI water once	
			Big Injun (Gmbr)		2317		+0.4% Ret, 0.15% Disp, 0.2% AntiFoam,	Bow spring centralizers	drilled to TD. Once casing	Casing to be ran 250' be
	12 3/8	9-5/8* 36# J-55 LTC	Weir		2554	AIR	0.125#/sk Lost Circ	every third joint to 100'	is at setting depth, circulate a minimum of one hole	the 5th Sand. Intermedicasing = 0.352* wall thick
X X		200	Berea Ss		2792		20% Excess Yield=1.19	feet from surface.	volume prior to pumping	Burst=3520 psi
			Int. Casing		2962		To Surface		cement.	
x x			Bayard		2996	8.0ppg -	14 8nna Class A 25:75:0	Rigid Bow Spring every		
	8.75" Vertical		Speechley		3617	9.0ppg	System	third joint from KOP to		
	8.75 Verucal		Riley		4699	SOBM	+2.6% Cement extender, 0.7% Fluid	TOC	Annual Control of the	
		2.5	Benson		5229		Loss additive, 0.45%		Once at TD, circulate at max allowable pump rate	Production casing = 0.3
		5-1/2* 20#	Alexander		5473	12.0ppg- 12.5ppg	high temp retarder, 0.2% friction reducer		for at least 6x bottoms up.	wall thickness Burst=12640 psi
	8.75" Curve	HCP-110	Tully Ls		6831	SOBM			Once on bottom with casing, circulate a minimum	Note: Actual centralize
	10.07	TXP BTC	Hamilton		6850		10% Excess Yield=1.27	Rigid Bow Spring every	of one hole volume prior to	schedules may be chang due to hole conditions
	y y 1		Marcellus		6858	10.0000	11978231141	joint to KOP	pumping cement.	add to flote solidation.
	8.75" - 8.5" Lateral		TD	16806	6903	12.0ppg- 12.5ppg SOBM	TOC >= 200' above 9.625" shoe			
X X			Onondaga		6924			A CONTRACTOR OF THE PARTY OF TH		
	X		XIII	λ		X		X	X	X
F 01-2 @ 69	03° TVD / 7606° MD				emented Lo P-110 TXP	-		+/-920	0' ft Lateral	TD @ +/-6903' TVD +/-16806' MD

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 494501	907
Watershed (HUC 10)_Headw	raters Middle Island Creek	Quadrangle	Oxford	
Elevation 1360'	County 017-Doddridge		District_ West U	Inion
Do you anticipate using more t	han 5,000 bbls of water to complete			No _
If so, please describe	anticipated pit waste.	p-no utilization		
A site of property of the		o V If	so, what ml.?	
Proposed Disposal Me	ethod For Treated Pit Wastes:			
Und Reu Off	d Application ferground Injection (UIC Permit Nu se (at API Number_at next anticipated Site Disposal (Supply form WW-9 f er (Explain_	i well		
Will closed loop system be use	d? If so, describe: yes			
Drilling medium anticipated for	or this well (vertical and horizontal)?	Air, freshwate	er, oil based, etc. Annwar	er based mud through intermediate string then
	e? Synthetic, petroleum, etc.Syntheti			
	medium? Please see attached shee			
	Leave in pit, landfill, removed offs			Received
-If left in pit and plan	to solidify what medium will be used	d? (cement, lii	me, sawdust)	
-Landfill or offsite na	me/permit number? please see attac	ched sheet		APR - 7 2014
on August 1, 2005, by the Offi provisions of the permit are en law or regulation can lead to en I certify under penal application form and all atta obtaining the information, 1 to penalties for submitting false in	and and agree to the terms and cond ce of Oil and Gas of the West Virgin inforceable by law. Violations of any inforcement action. The street of the personally exact characteristic thereto and that, based or believe that the information is true, information, including the possibility	ia Department y term or cond amined and an i my inquiry accurate, and	of Environmental Par lition of the general m familiar with the of those individuals complete. I am av	otestion of the stand that the permit and of other the price of the imperior of the stand of the imperior of the immediately responsible to the immediately
Company Official Signature Company Official (Typed Nar	Dee Swiger/Kim Ward		Luman	Official Seal
Company Official Title Regu				State of West Virginia > Dolores J Swiger > 235 Cottage Avenue > Weston WV 26452 >
Subscribed and sworn before n	ne this 4 day of Q	Disc	:, 2014~	My Comm. Exp. 9-19-23
- WesSurge) <u>\</u>		Notary Publi	07/25/2014
My commission expires 09/19	2023			

470170976483 Operator's Well No.

Proposed Revegetation Tre	atment: Acres Disturbed	3.02 	Prevegetation	pH 6.0
2_3				P**
Lime	Tons/acre or to correct -20-20 or equal	ct to pH		
Fertilizer amount_	500	lbs/acre		
Mulch Hay or S	Straw at 2	Tons/acre		
		Seed Mixtures		
7	Temporary		Per	manent
Seed Type	lbs/acre		Seed Type	lbs/acre
Tali Fescue	40	Tall Fe	scue	40
Ladino Clover	5	Ladino	Clover	5
		_		
Attach: Drawing(s) of road, locatio provided)	on, pit and proposed area for	land application (unle	ss engineered plans	including this info have b
Drawing(s) of road, locatio provided)	on, pit and proposed area for look		ss engineered plans	including this info have b
Drawing(s) of road, locatio provided)			ss engineered plans	including this info have b
Drawing(s) of road, location provided) Photocopied section of investion of investigation	olved 7.5' topographic sheet.		ss engineered plans	including this info have b
Drawing(s) of road, location provided) Photocopied section of inverse plan Approved by:				including this info have b
Drawing(s) of road, location provided) Photocopied section of inverse seed and Pre seed and	olved 7.5' topographic sheet.			including this info have b
Drawing(s) of road, location provided) Photocopied section of inverse provided prov	olved 7.5' topographic sheet.			
Drawing(s) of road, location provided) Photocopied section of inverse plan Approved by:	olved 7.5' topographic sheet.			Receive
Drawing(s) of road, location provided) Photocopied section of inverse seed and Pre seed and	olved 7.5' topographic sheet.			Receive
Drawing(s) of road, location provided) Photocopied section of inverse plan Approved by:	olved 7.5' topographic sheet.			Receive
Drawing(s) of road, location provided) Photocopied section of inverse plan Approved by:	olved 7.5' topographic sheet.			Receive
Drawing(s) of road, location provided) Photocopied section of inverse plan Approved by:	olved 7.5' topographic sheet. wyfas Sewlo- d mulch all cut area, mainta		peration.	APR - 7 2014 Office of Oil and Gas Wy Dept. of Environmental Pr

Site Water/Cuttings Disposal 1706483

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:

Received

Solidification APR - 7 2014
Waste Management, Arden Landfill Permit # 100172

200 Rangos Lane Washington, PA 15301 724-225-1589

Office of Oil and Gas
WV Dept. of Environmental Protection

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



Site Safety Plan
Noble Energy, Inc.
OXF97 Well Pad
Doddridge County, WV
APRIL 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

Received

APR - 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection
07/25/2014

