

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

March 25, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101737, 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: MND 3 AHS

Farm Name: CONSOL MINING CO., LLC

API Well Number: 47-5101737

Permit Type: Horizontal 6A Well

Date Issued: 03/25/2014

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. 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.
- 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 fill material shall be within plus or minus 2% of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. 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.

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

					51	3	550
1) Well Operate	or: Noble Er	nergy, Inc) .	494501907	Marshall	Franklin	Powhatan Point
A Carrie aluce				Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number: N	IND 3 AHS	S	Well Pa	d Name: MNE	3	
3) Farm Name/	Surface Owner:	Consol Mining	Co., LLC	Public Roa	nd Access: CR	2/1	
4) Elevation, cu	irrent ground:	1128.39	El	evation, proposed	post-constructi	on: 1112'	
5) Well Type	(a) Gas		Oil	Und	erground Stora	ge	
	Other						
	(b)If Gas Sh	allow		Deep			
	Н	orizontal _			M	Let	MORPHAN
6) Existing Pad	: Yes or No ye	es-building i	now		U	21/19	1/21/2014
College State College		A COLUMN TO SERVICE STATE OF THE PERSON SERVICE STATE SERV		ipated Thickness a			in thickness, 3909# pressure.
8) Proposed To	C 7-4.5 %						
9) Formation at	Total Vertical	Depth: Ma	arcellus	5			
10) Proposed T	otal Measured I	Depth: 14	,071'				
11) Proposed H	lorizontal Leg I	ength: 9,3	378'				
12) Approxima	te Fresh Water	Strata Depth	ns:	165' and 298'			
13) Method to	Determine Fresl	Water Dep	oths:	Offset well data			
14) Approxima	te Saltwater De	pths: Nor	ne note	d in offsets			
15) Approxima	te Coal Seam D	epths: 612	2' Pittst	ourgh Base			
16) Approxima	te Depth to Pos	sible Void (coal mi	ine, karst, other):	None anticipated	l, drilling in pil	llar-mine maps attached
17) Does Propo directly overlyi	osed well location			Yes 🗸	No		
(a) If Yes, pro	vide Mine Info	: Name:	Irelar	nd Mine		PE	CEIVED
		Depth:	Base	at 612' at deepes	st point		Oll and Gas
		Seam:	Pittst	ourgh			
		Owner:	Murra	ay American Ener	gy (Previously	Consol)EB	1 8 2014
							partment of

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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'	CTS
Fresh Water	20"	New	LS	94#	400	400'	CTS
Coal	133/8"	New	J-55	54.5#	1062'	1062'	CTS
Intermediate	9 5/8"	New	J-55	36#	2600'	2600'	CTS
Production	5 1/2"	New	P110	20#	14,071'	14,071'	TOC 200' above 9 625 casing shoe
Tubing			1 (6-1				
Liners							

Ser 1/21/14

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	0.375		Type 1/Class A	1.2
Fresh Water	20"	26"	.438	2730	Type 1/Class A	1.2
Coal	13 3/8"	17 1/2"	.380	2730	Type 1/Class A	1.2
Intermediate	9 5/8"	12 3/8"	.352	3520	Type 1/Class A	1.19
Production	5 1/2"	8 3/4" & 8 1/2"	.361	12,640	Type 1/Class A	1.27
Tubing						
Liners						

PACKERS

Kind:	
Sizes:	RECEIVED
Depths Set:	Office of Oil and Gas

FEB 1 8 2014

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 6279 feet. Drill Horizontal leg - stimulate and produce the Marcellus Formation. If we should encounter an unanticipated void we will install casing at a
minimum of 20' 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. See
attached list. Maximum pressure not to exceed 10,000 lb.
15.6
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres):
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25) Proposed borehole conditioning procedures:

*Surface and Coal string WVDEP approved variance attached.

Conductor-The hole is drilled w/air and casing is run on air. Apart from insuring the hole is clean via air circulation at TD, there are no other conditioning procedures. Surface-The hole is drilled w/air and casing is run on air Ecution with Dwater once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume programment Castral hole is drilled and cased w/air or on Freshwater based mud. Once casing is at setting depth, the hole 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 with KCI water once drilled to TD. Production-The hole is drilled with SOBM and once to TD, circulated at maximum 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.

WV Department of

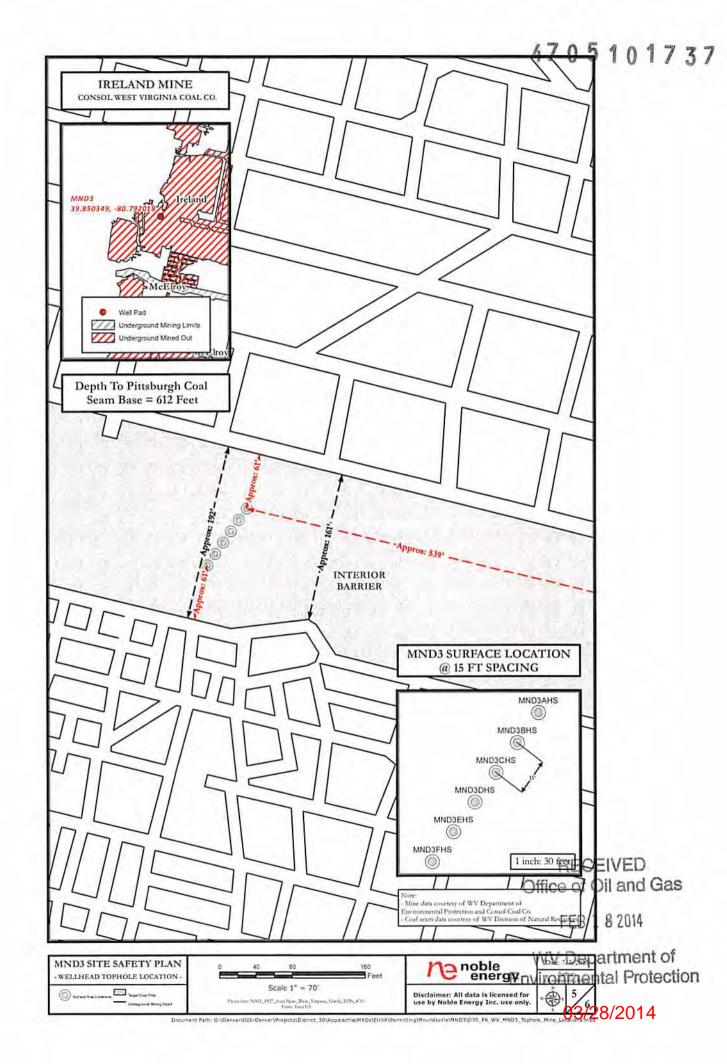
Environmental Protection

^{*}Note: Attach additional sheets as needed.

noble energy							DRILLING WELL PLAN MND-3A-HS (Marcellus HZ) Macellus Shale Horizontal Marshall County, WV (494491.46N, 1637238.16E) (NAD27)			
							at/Long)		8.39N, 1638728.08E	
Ground Elevation 1112'							at/Long)			
Azm		128,678	128.678° MND-3A BHL (Lat/Long) (490151.41N, 1642			COMMENTS				
WELLBORE DIAGRAM	KOLE	CASING	GEOLOGY	MD	TVD	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTA
WELLBURE DAGGEST	36	30" 1170				AIR	To Surface	N/A	Ensure the hole is clean at TD.	Stabilize surface fill/soil. Conductor casing * 0.375° wa thickness
x x	20	20° 948	Conductor	40	40	AIR	15.6 ppg Type 1 + 2% CarCl, 0.256 Lost Carc 30% Excess Yold = 1.16	Centralized every 3 joints to surface	Fill with ICCI water onco drilled to TD. Once casing is at setting depth, circulate a minimum of one toole volume prior pumping coment.	Surface casing = 0 438" wai theteness Burst=2730 psi
	17 1/2	13-3/8" 54.5# J-55 BTC	Pittsburgh Coal	602	602 1062	RZA	15.6 ppg Type 1 + 2% CeCl, 0.259 Lost Circ 30% Excess Yield = 1.18	Bow Spring on first 2 joints then overy third joint to 100' form surface	Fill with KCI water once drilled to TD. Once casing is at acting depth, circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.380 was thickness Burst=2730 psi
	123/0	9-5/6" 308 J-55 LTC	Price Formation Wer Sand	2190	2190	AIR	15 8ppg Class A +0.4% Ret, 0.15% Disp. 0.2% AntiForm, 0.1258/nk Lost Circ 20% Excess Yield=1.19 To Surface	Bow spring centralizers every third joint to 100' feet from surface.	Fill with KCI water once distinct to TD. Once casing is all setting depth, circulate a minimum of one hole volume prior to pumping coment.	Casing to be ran 250' belo the 5th Sand: Intermediate casing = 0.352" wall thickne Burst=3520 psi
	X 8.75" Vertical		Speechloy Jav8 Angola Rheinstreet	2500	2600 3506 4985 5193 5758	8.0ppg - 9.0ppg SOBM	14.8ppg Class A 25:75:0 System			
x x		5-1/2" 208 HCP-110 TXP-BTC	Sonyea Cashaqua Modiesex West River Burketi Tudy Limestone Hamilton		6055 6074 6080.5 8128 6170 6197 6206	12.0ppg- 12.5ppg SOBM	• 2.6% Cement extender 0.7% Fluid Loss adjative, 0.45% high temp retarder, 0.2% friction reducer 10% Excess Yield=1.27 TOC >= 200* shows 9.825* shoe	Rigid Bow Spring over joint to KOP	Once at TD, circulate at max attends by pump rate for at least fix bottoms up. Once on bottom with casing, circulate a minamunt of one hote votume prior to pumping coment.	Production casing = 0.361 wall thickness Burst=12040 psi Note: Actual centralizer schedules may be change due to hole conditions
	8.75" - 0.5" Lateral		Marcefus TD Occordage	6226 14071 6290	6226 6279 6290	12.0ppg- 12.5ppg SOBM				
X X	X 279 TVD / 7210	<u> </u>	A 875/5	S Holo - C	CP-110 TX	ong String	<u> </u>	+1-6	355° O Lateral	1D @ ++6279 TVD

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API Number 47	•
Operator's Wo	ell No. MND 3 AHS

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) Short Creek-Ohio River (HUC 10) Quadrangle Powhatan Point
Elevation 721' Post Construction County Marshall District Franklin
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
If so, please describe anticipated pit waste: Closed Loop-No pit will be utilized Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number)
Underground Injection (UIC Permit Number) Reuse (at API Number TBD-Next anticipated well)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? If so, describe: Yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air thru coal string, then SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please see attached
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfills
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?Please see attached
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature
Company Official (Typed Name) Laura Adkins RECEIVED
Company Official Title Regulatory Analyst Office of Oil and Gas
Subscribed and swam before me this 17th day of FEBRUARY , 20 14
My commission expires 9(3 2014 Notally Built State of the
CARLESTEN VI 2344

Chemical List Including CAS#'s

Type: Friction Reducer (DWP-612)
Chemical Component as listed on MSDS: Long Chain Polyacrylamide
CAS: N/A

Type: Biocide (DWP-944)

1st Chemical Component as listed on MSDS: 2,2-Dibromo-3-nitrilopropionamide
CAS: 10222-01-2

2rd Chemical Component as listed on MSDS: Polyethylene Glycol Mixture
CAS: 25322-68-3

Type: Scale Inhibitor (DAP-901)

1st Chemical Component as listed on MSDS: Methanol

CAS: 67-56-1

2nd Chemical Component as listed on MSDS: Phosphoric Acid Ammonium Salt

CAS: Trade Secret

3rd Chemical Component as listed on MSDS: Ammonium Chloride

CAS: 12125-02-9

4th Chemical Component as listed on MSDS: Organic Phosphonate

CAS: Trade Secret

5th Chemical Component as listed on MSDS: Amine Salt

CAS: Trade Secret

6th Chemical Component as listed on MSDS: Oxyalkylated Polyamine

CAS: Trade Secret

Type: Surfactant (DWP-938)
Chemical Component as listed on MSDS: Soap
CAS: N/A

Type: Hydrochloric Acid Chemical Component as listed on MSDS: Hydrochloric Acid CAS: 7647-01-0

Type: PA Breaker (DWP-690)
Chemical Component as listed on MSDS: Hydrogen Peroxide
CAS: Trade Secret

Type: Gel Slurry (DWP-111)
Chemical Component as listed on MSDS: Viscosifier
CAS: N/A

Type: Oxidizer Breaker (DWP-901)
Chemical Component as listed on MSDS: Ammonium Persulfate
CAS: 7727-54-0

Type: Buffer (DWP-204)
Chemical Component as listed on MSDS: Formic Acid
CAS: 64-18-6

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Site Water/Cuttings Disposal

Cuttings

Haul off Company:

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

MAX Environmental Technologie 233 Max Lane Yukon, PA 25698 PAD004835146

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

Water

Haul off Company:

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

Disposal Location:

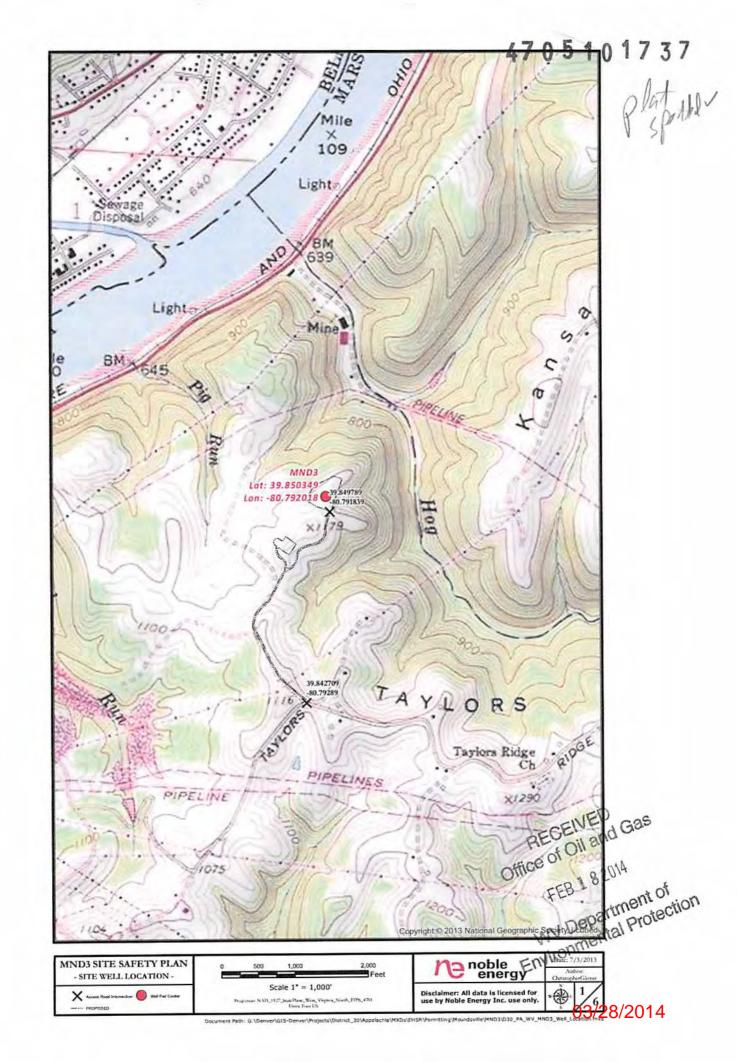
Solidification RECEIVED
Waste Management, Arden Landfill Permit # 1001 Affice of Oil and Gas
200 Rangos Lane
Washington, PA 15301 FEB 1 8 2014
724-225-1589

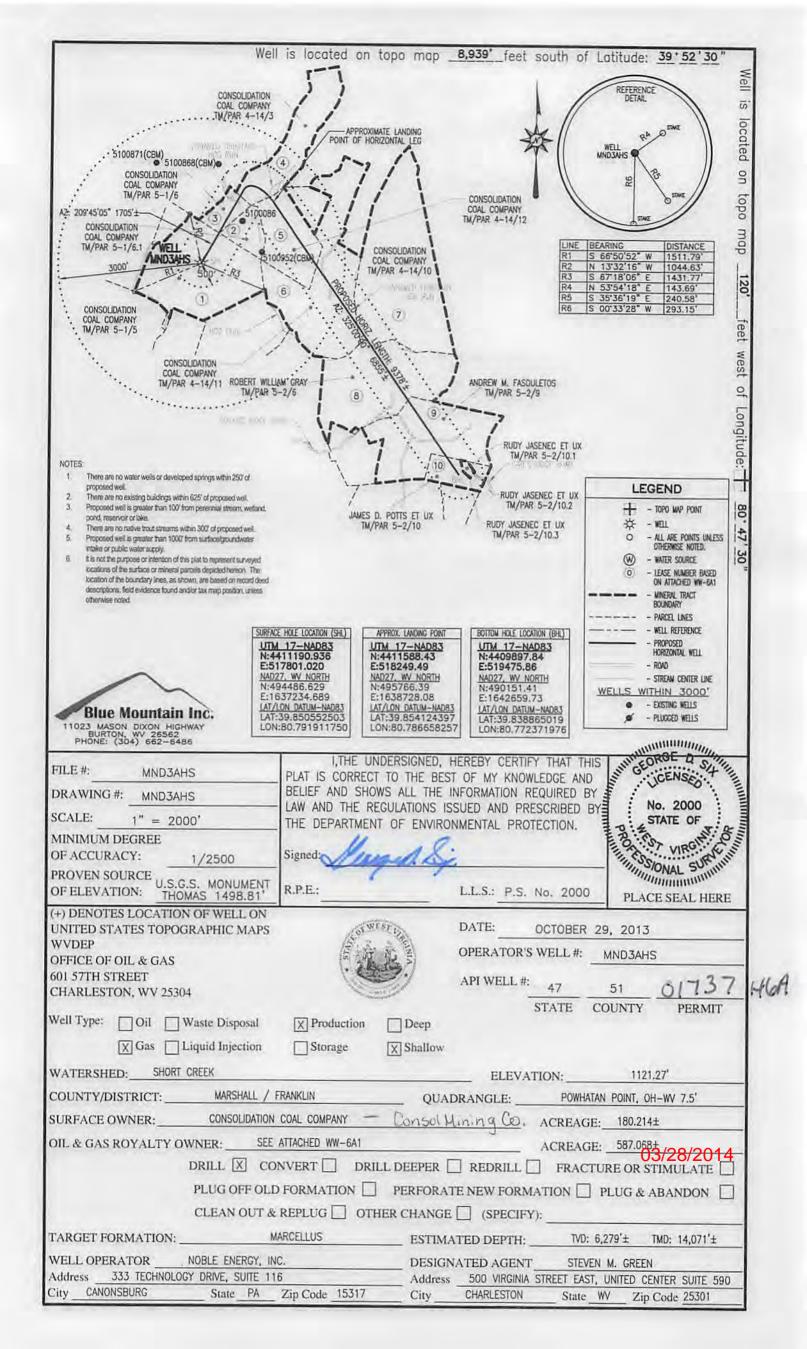
Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20753
6065 Arrel-Smith Road
Lowelville, OH 44436

Form WW-9

Operator's Well No. MND 3 AHS

Noble Energy, Inc	2.		
Proposed Revegetation Treatm	nent: Acres Disturbed	15.6 acres Prevegetation	n pH
Lime 2 to 3	Tons/acre or to corr	rect to pH	
Fertilizer type		_	
Fertilizer amount 50	straw at 2	lbs/acre	
Mulch_ 11dy OI	Straw at 2	Tons/acre	
		Seed Mixtures	
Ten	porary	Per	rmanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
See site plans t	for full list	See site plans f	or full list
Plan Approved by: Jim N	icholson WV	OOG State Inspector	James Turbolar
Comments:		Eage	1 Oke Fl
			DEOCHUED
			RECEIVED Office of Oil and Gas
			RECEIVED Office of Oil and Gas





EROSION & SEDIMENT CONTROL PLAN FOR

MND 3 WELL PAD FRANKLIN DISTRICT, MARSHALL COUNTY, WV

GENERAL NOTES

- TE SEED AND MALDY ALL DISTURBED AREAS PER DETAILS IN THIS PLAN
- 18. ALL CLEARED THEE CHACKICS SHALL BE PLACED ON UPHAL SEE OF COMPOST FILTER SCOOL AND NOT STOCKPALD CH-STE.
- TI. NO WORK SHALL HE DONE OUTSIDE THE LIMITS OF DISTURBANCE OR IN PROTECTED AVEAS

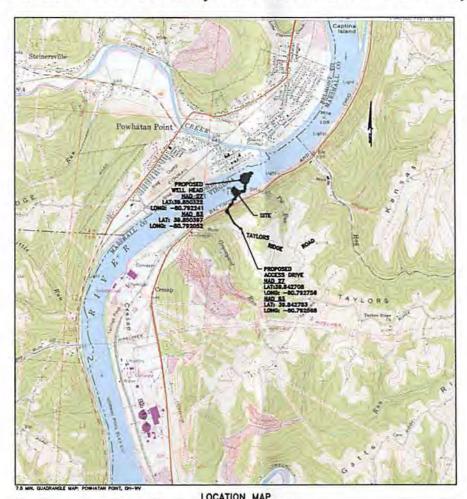
DIRECTIONS TO THE SITE

CUT & FILL

	MILL PAG	MILL ACCESS	TANK PAG	TANK ACCESS	TOTAL SITE
CUT	+31,800 C.Y.	+11,349 G.T.	+5,293 C.Y.	+1,100 C.T.	+50,592 C.Y.
STONE	. ATET CY.	+ 2,007 C.Y.	41,227 C.Y.	+ 242 C.Y.	+ 7.8G3 C.Y.
FLL	-34,794 C.Y.	- 1,282 C.Y.	-6.961 C.Y.	- 184 C.Y.	-43.211 C.Y.
10K COMPACTION	- Atms C.Y.	- 968 C.Y.	- 896 C.Y.	- 210 CY.	- 5.050 CY
TOPSON.	- 5.064 C.Y.	- 3.040 CY.	-1.464 CY	- 357 CY.	- 8.825 CY
NET	- 7.064 C.Y.	* BOSS CY	-2.601 C.Y.	41.581 C.Y	* 0 CY

ASSEMBLY TO SOUL REPTH IS 27.

2 THE CUT IF ALL SAMANEY CALLALATIONS PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY, IT SHALL BE THE CONTRACTIONS RESPONSIBILITY TO MERT POSITING DIALOGS AND WERFY DARFHOOM VALUES, THE CONTRACTIONS PRESENTED TO BE REPORTED TO THE EMPHRICATION AND OTHERS'S ATTRIBUTED AND THE PROPERTY AND OTHERS'S ATTRIBUTED.



CALL BEFORE

SOILS CLASSIFICATION

IST OF DRAWINGS



WELL MND

DATE 6/24/13 SEET NO. _ 1 OF _ 18 DWG NO 093842008

