

#### 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

June 05, 2014

#### WELL WORK PERMIT

#### Vertical Well

This permit, API Well Number: 47-5101764, 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.

Chief

James Martin

Operator's Well No: MND 99 V

Farm Name: CONSOLIDATION COAL COMPA

API Well Number: 47-5101764
Permit Type: Vertical Well
Date Issued: 06/05/2014

Promoting a healthy environment.

#### PERMIT CONDITIONS

West Virginia Code §22-6-11 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**

- 1. 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 §22-6-20, 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.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 5. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 6. Well work activities shall not constitute a hazard to the safety of persons.

WW - 2B (Rev. 8/10)

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

		ble Ener	gy, inc.	4945019	907 Marshall	Franklin	Powhatan P
		4	94501907	Operator	Particular and Property and Pro	ALC: UNITED IN	
2) Operator	s Well Nu	mber: Mi	ND 99 V		3) Elevatio		Quadrang
4) Well Type	e: (a) Oil_	or (	Gas X				5
	(b) If Ga	s: Pro	duction x/other / L	Inderground S	Storage		
		De	ep/	Shallow X	-		
<ol><li>Approximate</li></ol>	ate fresh v	vater stra	s): Marcellus, E VD 6825 MD Feet ta depths: 518' a ns: None noted in c	and 655'	Proposed To	arget Depth: Depth: Hunt	eepest 6237' terville Chert
			hs: Sewickley 6		h 763'		-
			oal, Karst, other			lar-see man attach	Ju:
							ed
			ns tributary to a				
(12) Describe p	proposed w	ell work a	nd fracturing met	thods in detail (	attach addition	nal sheets if neer	(her
	DUCI VE AIIU I	Heasille II	actiliting data from				idis. Inis v
our proposed v				the MND 3 later	als. Additional i	nformation is attac	ched describ
				the MND 3 later	als. Additional i	n two MND 3 late	ched describ
13)	well work a	and data	gathering.	BING PROGE	als. Additional i	nformation is attac	ched describ
13)	SPECIFIC	end data	gathering.	the MND 3 later	als. Additional i	nformation is attac	ched describ
13) TYPE	SPECIFIC	CATIONS Grade	gathering.	BING PROGE	als. Additional i	nformation is attac	ched describ
13)	SPECIFIC Size 20"	CATIONS Grade New	gathering.	BING PROGE	RAM  INTERVAL	S CEMENT	ched describ
TYPE  Conductor  Fresh Water	SPECIFIC	CATIONS Grade New	gathering.  ASING AND TU  Weight per ft	BING PROGE FOOTAGE For Drilling	RAM INTERVAL Left in Well 40'	S CEMENT  Fill -up (Cu. F	ched describ
13) TYPE Conductor	SPECIFIC Size 20"	CATIONS Grade New	gathering.  ASING AND TU  Weight per ft  94#	BING PROGE FOOTAGE For Drilling 40'	RAM INTERVAL	S CEMENT	ched describ
TYPE  Conductor  Fresh Water  Coal	SPECIFIC Size 20" 13 3/8"	CATIONS Grade New J-55	Weight per ft 94# 54.5#	BING PROGE FOOTAGE For Drilling 40' 1180'	INTERVAL Left in Well 40' 1180'	S CEMENT  Fill -up (Cu. F  CTS  CTS	t.)
TYPE  Conductor  Fresh Water  Coal  Intermediate	SPECIFIC Size 20" 13 3/8"	CATIONS Grade New J-55	Weight per ft 94# 54.5#	BING PROGE FOOTAGE For Drilling 40' 1180'	Additional in the second secon	S CEMENT  Fill -up (Cu. F  CTS  CTS  ""	t.)
TYPE  Conductor  Fresh Water  Coal  Intermediate  Production	SPECIFIC Size 20" 13 3/8" " 9 5/8"	CATIONS Grade New J-55 " J-55	Weight per ft 94# 54.5# "	BING PROGE FOOTAGE For Drilling 40' 1180'	INTERVAL Left in Well 40' 1180'	S CEMENT Fill -up (Cu. F CTS CTS	t.)
13) TYPE  Conductor Fresh Water	SPECIFIC Size 20" 13 3/8" " 9 5/8"	CATIONS Grade New J-55 " J-55	Weight per ft 94# 54.5# "	BING PROGE FOOTAGE For Drilling 40' 1180'	Additional in the second secon	S CEMENT  Fill -up (Cu. F  CTS  CTS  ""	t.)
TYPE  Conductor Fresh Water Coal Intermediate Production Tubing Liners	SPECIFIC Size 20" 13 3/8" " 9 5/8" 4 1/2"	CATIONS Grade New J-55 " J-55 HCP-110	Weight per ft 94# 54.5# " 36# 11.6#	BING PROGE FOOTAGE For Drilling 40' 1180' " 2680' 6825'	Additional in the second secon	S CEMENT  Fill -up (Cu. F  CTS  CTS  ""	t.)
TYPE  Conductor  Fresh Water  Coal  Intermediate  Production  Tubing	SPECIFIC Size 20" 13 3/8" " 9 5/8" 4 1/2" d: Pleas	CATIONS Grade New J-55 " J-55 HCP-110	Weight per ft 94# 54.5# "	BING PROGE FOOTAGE For Drilling 40' 1180' " 2680' 6825'	Additional in the second secon	S CEMENT  Fill -up (Cu. F  CTS  CTS  ""	t.)

#### MND 99 V

### Observation/Monitoring Well Work Procedure

This well is intended to be slightly deviated to better place the well between laterals.

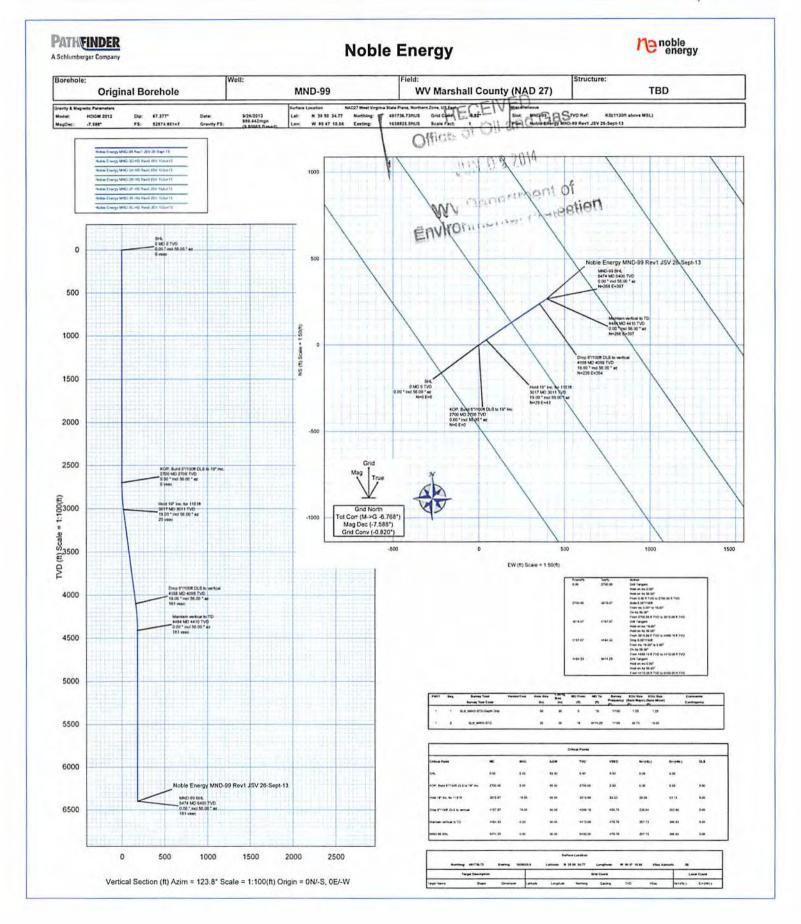
An injection fall off test will consist of perforating the zones of interest, pump 5-10 bbl of water into the formation above the fracture pressure ('7000psi) at 5bpm and shut the well in measuring the pressure decline over time for analysis. The fall off tests will be conducted in shallow zones; Burkett, Marcellus, and chert (not more than 99' past the ceiling of the Onondaga) placing a plug between each and then after tests are completed we will monitor pressures on these open and completed zones.

One option is that we will use three gauges behind casing reading real time and leave the two plugs above the Chert and Marcellus so as not to run tubing.

Another option is to have two packers at roughly the same location of the drilled out plugs with two downhole Tubel BHP gauges to measure pressure in all three zones (casing above for Burkett, gauge on tubing between packers to measure both the Chert (tubing) and the Marcellus (annulus).



51-1764





#### DRILLING WELL PLAN

MND-99V

Marcellus Observation Well Marshall County, WV

						Marshall County, WV													
					MND-99	99V SHL (Lat/Long) (491736.73N, 1638825.5E) (NAD27)				) (NAD27)									
Ground Elevation		192"																	
Azm		56°		MND-99V BHL (Lat/Long)		(492004.45N, 1639222.41E) (NAD27)		E) (NAD27)											
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	Тор	Base	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS									
	26	20* 94#	Conductor	40	40	AIR	To Surface	₩A	Ensure the hole is clean at TD.	Stabilize surface fil/soil Conductor casing = 0 438" wi thickness									
×		9-5/8"					15 6 ppg Class A to surfuce plus	Bow Spring on first 2	Fill with fresh water (<3%KCL) gel mud once dnilled to TD. Once casing is	Surface/Coal casing = 0 352									
9	12-3/81	36# HCK-55	Pittsburgh Coal	843	845	AIR	50% Excess Yield = 1.2	joint to 100' form	at setting depth, circulate a	wall thickness Burst=3520psi									
		втс	Surface/Coal Casing	1180	1180		1000	surface	minimum of one hole volume prior to pumping cement.										
×		7° 26# P110	Price Formation	2270	2270		15.6 ppg Class A to surfuce plus	Bow spring centralizers	spring centralizers y third joint to 100' et from surface.  spring centralizers at setting depth, circulate a minimum of one hole volume prior to pumping	CONTINGENCY STRING (IF HOLE PROBLEMS ARE ENCOUNTERED)									
	8-3/4"	TXP	Weir Sand	2430	2430		50% Excess Yield = 1.2	feet from surface.		Intermediate casing = 0.362 wall thickness Burst=9960 psi									
		BIC	Contingency Int.	2680	2680														
			Casing	2700 MD	2700 TVD														
H D			Speechley	-	3586														
							1	1 1	1 8	1 3	9	Drop to Vertical	4170 MD	4100 TVD					
N D							Angola	5094	5716										
11 1				Rheinstreet	5716	5987					Terratory action who								
-			Sonyea	5987	5917 14.8 ppg Class A		Fill with gel mud once drilled	6DLS build, Tangent @ 19 6DLS drop back to vertica											
4	X 8-3/4" or 7	4-1/2" 11.6#	Cashaqua	5917	6068		11111	Rigid Bow Spring	to TD: Once casing is at setting depth, circulate a	5844 418F 8440 19 151014									
Z _ 7	Vertical	P-110	Middlesex	6068	6091	AIR	TOC >= 200' above 9 625" shoe	centralizers every joint to TOC	minimum of two hole	Production casing = 0.25" w									
2 5	Deviation	BTC	Burkett	8158	6176		plus 30% Excess	7	volumes prior to pumping cement	thickness									
3 3	1		Tully Limestone	6176	6202				2,000	Burst=10690 psi									
3 5 8			Hamilton	6202	6237														
8 2 0	O		Marcellus	6237	6290														
0 0	7		Onondaga	6290	6296			1											
MAY 0 8 2014  Environment of	-		TD	638	DVT														

(Rev. 6-07)  1). Date: 2.) Operator's Well Number State 3.) API Well No.: 47-  STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT  4). Surface Owner(s) to be served: 5) (a). Coal Operator (a) Name Consolidation Coal Company-Jason Witt Address Add							
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Address Addres			3.) API	Well No.:	2.00	- County	
Address Addres		STAT	F OF WEST VIR	GINIA			
4) Surface Owner(s) to be served:  (a) Name	DEPA		경우를 잃었다면서 그런데 어깨가 그렇게 되어 있다니?		CE OF	OIL AND G	AS
(a) Name Address   Address		NOTICE AND APPLI	CATION FOR A V	VELL WOR	K PERI	TIN	
(a) Name Address   Address							
Address 46226 National Road Saint Clairsville, OH 43950  (b) Name Address   Name Consolidation Coal Company-Jason Witt   Address   Addre	The state of the s						
(b) Name Address Addre				_		pany-Jason Witt	/
(b) Name Address  Address  Address  Address  (c) Name Address  (d) Name Address  (e) Name Address  (f) Name Address  PO Box 44  Moundsville, WV 26041-1534  Telephone  TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:  X Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas  OR  Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:  Personal Service (Affidavit attached)  X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application, 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 and imprisonment.  Well Operator By: Laura L Adkins Regulatory Analyst 3331 Echnology Drive Suite 116 Canonsburg. PA 15317	Address	The state of the s	Address				
Address    Name   Address   Address	and the same	Saint Clairsville, OH 43950		1			
Address Address Saint Clairsville, OH 43950  (c) Name Address Name Consol Energy, Inc. Don Puglio Address 1000 Consol Energy Drive Canonsburg, PA 15317  (b) Inspector Address PO Box 44 Address Moundsville, WV 26041-1534 Address 304-552-3874 Saint Clairsville, OH 43950  Telephone 304-552-3874 Address Address Address Address Address Or Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:  Personal Service (Affidavit attached)  X Certified Mail (Postmarked postal receipt attached)  I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.  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, 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 and imprisonment.  Well Operator By:  Well Operator By:  Address Addre	(b) Name		(b) Coal O				4
(c) Name Address Addre	Address	\$2	Name	Consolidation	n Coal Com	pany-Jason Witt	
(c) Name Address Dim Name Consolidation Coal Company-Jason Witt Declaration Name Consolidation Coal Company-Jason Witt Address			Address	46226 Nation	nal Road		
Address Address 1000 Consol Energy Drive Canonsburg, PA 15317  6) Inspector Jim Nicholson WVOOG State Inspector Address PO Box 44 Name Consolidation Coal Company-Jason Witt Address Address Address 46226 National Road Saint Clairsville, OH 43950  Telephone 304-552-3374 Saint Clairsville, OH 43950  TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:  X Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:  Personal Service (Affidavit attached)  Very Certified Mail (Postmarked postal receipt attached)  Publication (Notice of Publication attached)  I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.  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, 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 and imprisonment.  Well Operator By:  Noble Energy, Inc.  Laura L Adkins  Address  333 Technology Drive Suite 116  Canonsburg, PA 15317			- 1	Saint Clairsvi	ille, OH 439	950	
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Canonsburg, PA 15317							
Address Addres	71447555						
Address PO Box 44	6) Inspector	lim Nicholson WOOG State Inspect	or (c) Coal L				- /
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X	application, a loc			ugh on th	ne above	named parties	s by:
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By:   Laura L. Adkins     Its:   Regulatory Analyst     Address   333 Technology Drive Suite 116     Canonsburg, PA 15317	in pricon in a	Well Opera	ator Noble Energy, Inc.	Laura	d. C	cellen	1.
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Address 333 Technology Drive Suite 116 Canonsburg, PA 15317							
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Subscribed and sworn before me this 7 day of Notary Public Office of Oil and		Telephone				7C 80 /0-	
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Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests, our office will information of information. If you have any questions about our use of your personal information. Shall be obtained from the output of the process of the pro

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Office of Oil and Gas MAY 082014 Environmental Protection

WW-2A1 (Rev. 1/11)

Operator's Well Number MND 99 V

#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Consolidation Coal Company	CNX Gas Company, LLC	100%/Fee	646/493
CNX Gas Company, LLC	Noble Energy, Inc.	100%/Fee	752/66

#### Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service

 U.S. Fish and Wildlife Service
 County Floodplain Coordinator
 The applicant further acknowledges that any Office of Oil and Gas permit in no way override peplaces per places per permit in no way override peplaces per permit in no way override permit in no way overri nullifies the need for other permits/approvals that may be necessary and further affirms that all needed Gas permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Noble Energy, Inc.

Well Operator:

Well Operator: By:Its:

DENIOR OPERATIONS

WW-2B1	
(5-12)	

Well No.	MND 9	99 V	

#### West Virginia Department of Environmental Protection Office of Oil and Gas

#### NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Sampling Contractor

**Moody Environmental** 

Well Operator Noble Energy, Inc.

Address

333 Technology Drive Suite 116

Canonsburg, PA 15317

Telephone

724-820-3118

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterior some analyses. If there were no requests made, indicate by analyses. If there were no requests made, indicate by analyses. If there are no water wells or springs within 1000 feet or the sample and analyze. If there are no water wells or springs within 1000 feet or the proposed site. The control of the proposed site.

There are no water wells or spring 182014

Within 1000' Please See map attempted of protection

April 14, 2014

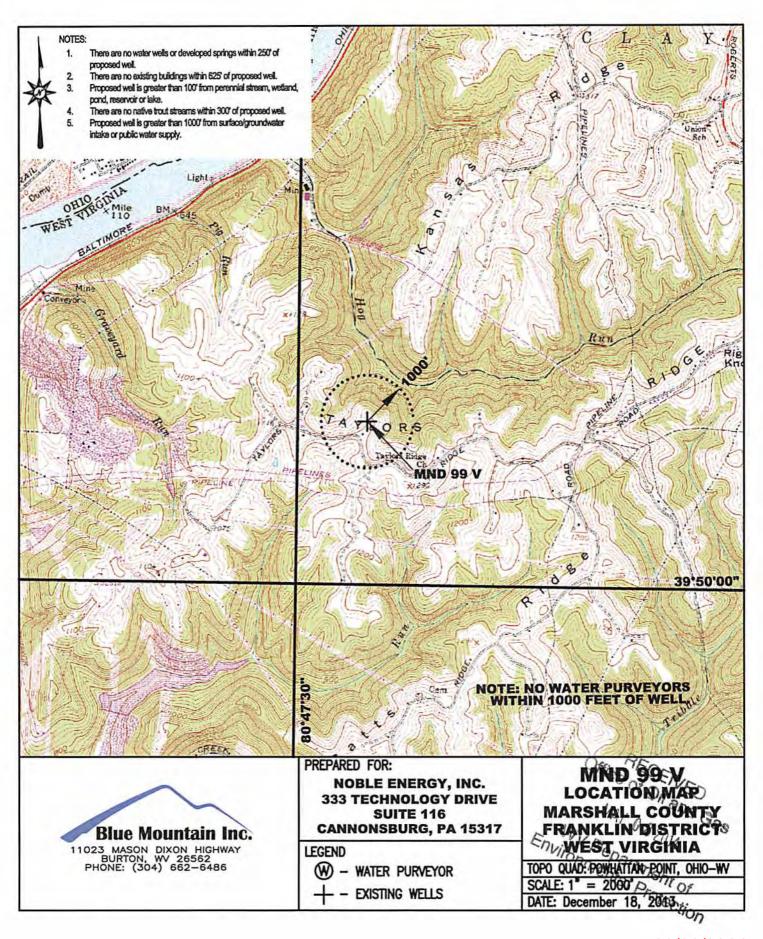
NOBLE ENERGY, INC. 333 TECHNOLOGY DRIVE SUITE 116 CANNONSBURG, PA 15317

#### **WATER WELL REPORT**

Well No.: MND 99 V District: Franklin County: Marshall State: West Virginia

Potable water sources within 2,000' feet of the above referenced well location.

# NAME / ADDRESS WATER SOURCE DISTANCE TO WELL ROBERT WILLIAM GRAY - LIFE 1757' 10 SUGAR LN WHEELING, WV 26003 THOMAS K. BARNHART 3008 TAYLORS RIDGE RD PROCTOR, WV 26055 1566'



WW-9 (5/13)

Pa	ge of	ſ
API Number 47	·	
Operator's Well No.	MND 99 V	

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Short Creek Quadranted Pit Wastes:  Quadranted Pit Wastes:  Quadranted Pit Wastes:  Quadranted Quadranted Pit Wastes:	District Franklin sed well work? Yes No _X
Do you anticipate using more than 5,000 bbls of water to complete the proposition.  Will a pit be used for drill cuttings? Yes No _x  If so, please describe anticipated pit waste: no pit-closed loop  Will a synthetic liner be used in the pit? Yes No	sed well work? Yes No _X
Will a pit be used for drill cuttings? Yes No _x  If so, please describe anticipated pit waste: no pit-closed loop  Will a synthetic liner be used in the pit? Yes No	
If so, please describe anticipated pit waste: no pit-closed loop  Will a synthetic liner be used in the pit? Yes No	
If so, please describe anticipated pit waste: no pit-closed loop  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	
Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal	al location)
Other (Explain	
Will closed loop system be used? Yes	
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? See attached	<del></del>
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. O	ffsite, list attached
-If left in pit and plan to solidify what medium will be used? (ceme	nt, lime, sawdust)
-Landfill or offsite name/permit number?	
1 certify that 1 understand and agree to the terms and conditions of	
on August 1, 2005, by the Office of Oil and Gas of the West Virginia Depart provisions of the permit are enforceable by law. Violations of any term or law or regulation can lead to enforcement action.  I certify under penalty of law that 1 have personally examined a application form and all attachments thereto and that, based on my inquestioning the information, I believe that the information is true, accurate penalties for submitting false information, including the possibility of fine or	ment of Environmental Protection. I understand that the condition of the general permit and/or other applicable and am familiar with the information submitted on this uity of those individuals immediately responsible for and complete. I am aware that there are significant
Company Official Signature Jama L. Collun	imprisonment.  Solve of Oliver of Ol
Company Official (Typed Name) Laura L. Adkins	CO OF
Company Official Title Regulatory Analyst	May and
	- May 0820.
Subscribed and sworn before me this 7 day of MAY	
	OFFICIAL OFF
-41	THE UPS STORE
My commission expires $\frac{3\sqrt{3}}{20.5}$	3501 M*CORKLE AVE. SE CHARLESTON, WV 25304 06/06/2

4705101764 51-1764

Form WW-9

Operator's Well No. MND 99 V

Lime 2 to 3		Prevegetation	on pH
Fertilizer (10-20-20 or Mulch Hay or S	equivalent) 10-20-20 at 500 Straw at 2 Tor	The/agen (500 the minimum)	Office of Oil and C
		Seed Mixtures	Office U.
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Ladino Clover	5	Ladino Clover	Environmental
See Site Plans for	Complete List		or Complete List
Attach:  Drawing(s) of road, location.pit a  Photocopied section of involved  Plan Approved by:	7.5' topographic sheet.		
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## **EROSION & SEDIMENT CONTROL PLAN** FOR

# **MND 99V WELL PAD** FRANKLIN DISTRICT, MARSHALL COUNTY, WV

#### GENERAL NOTES

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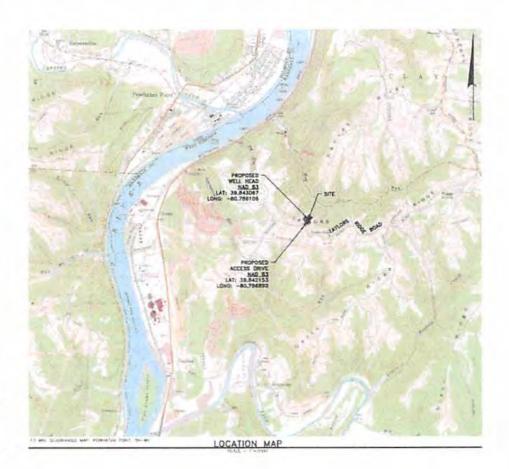
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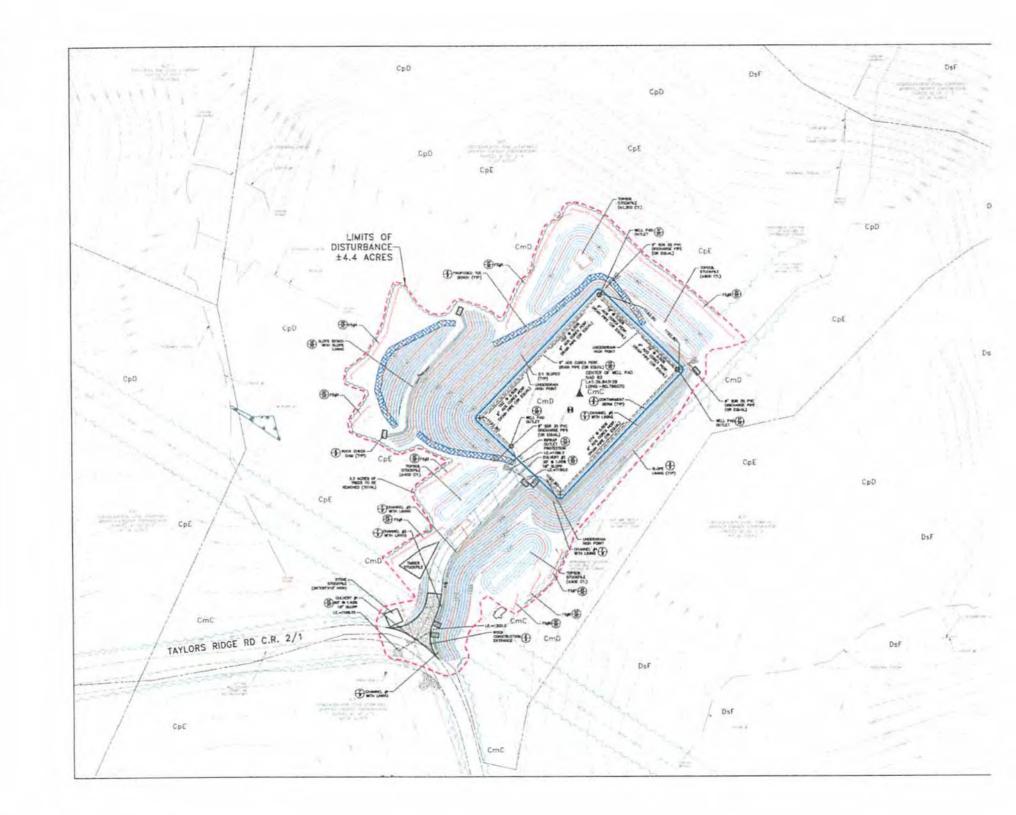
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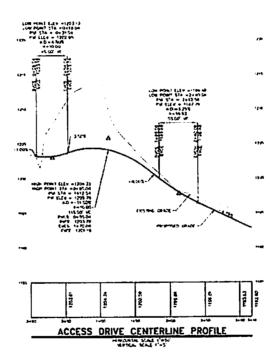
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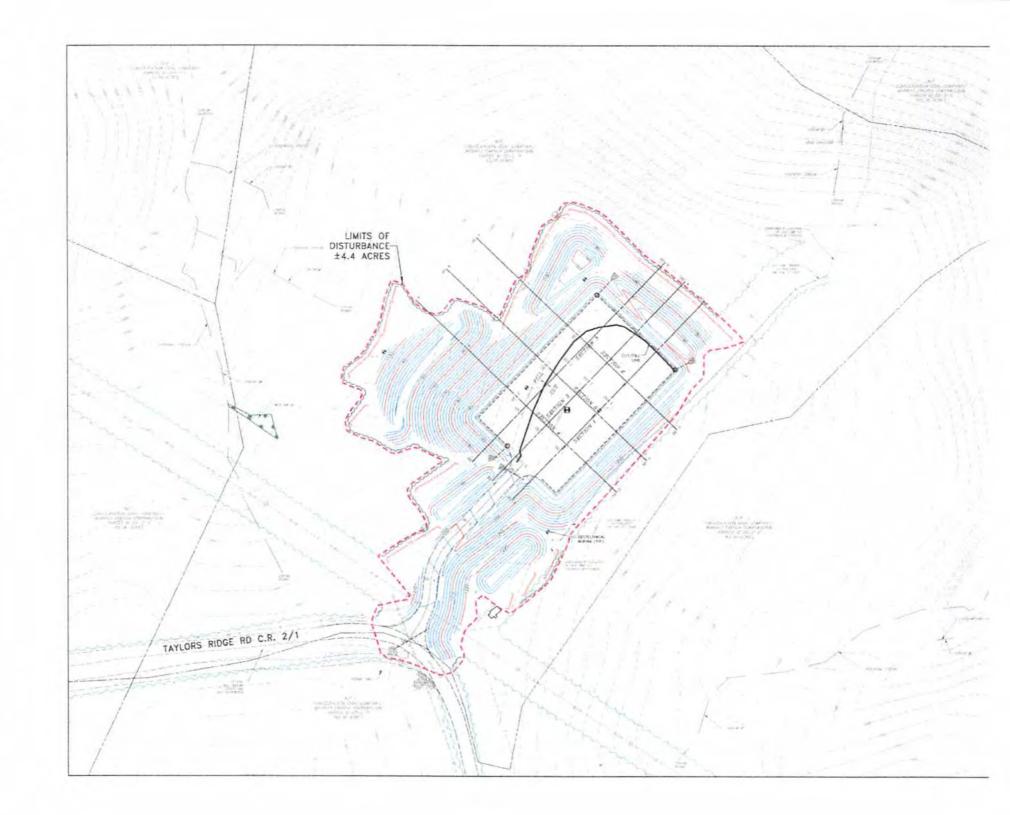
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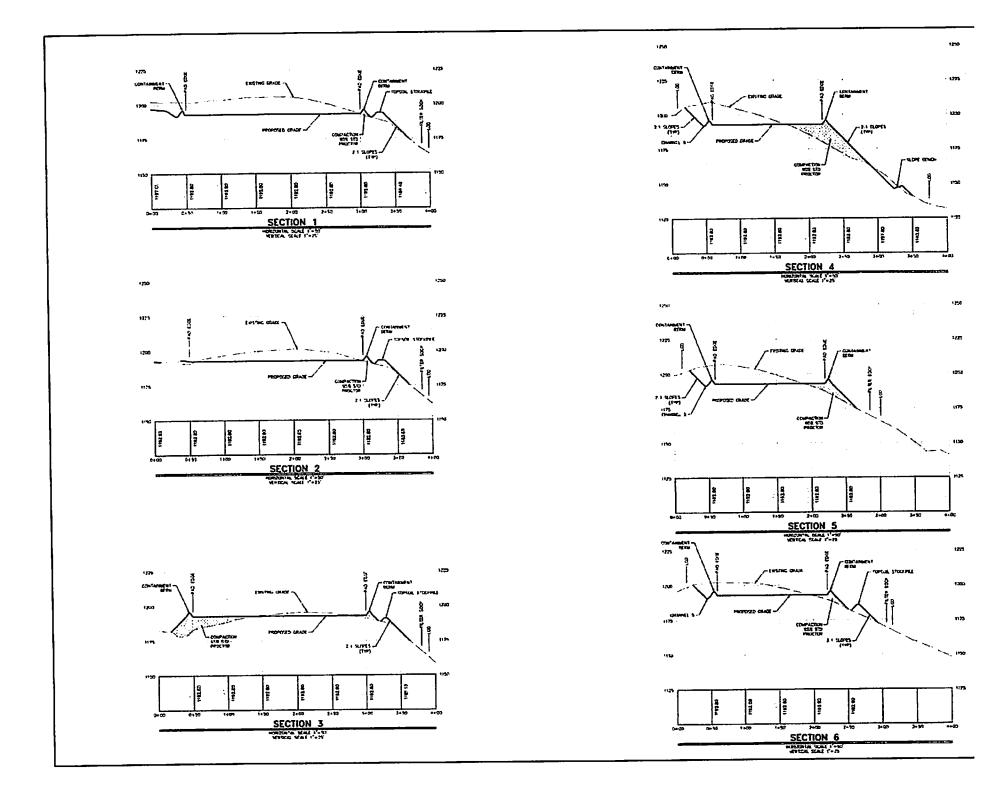
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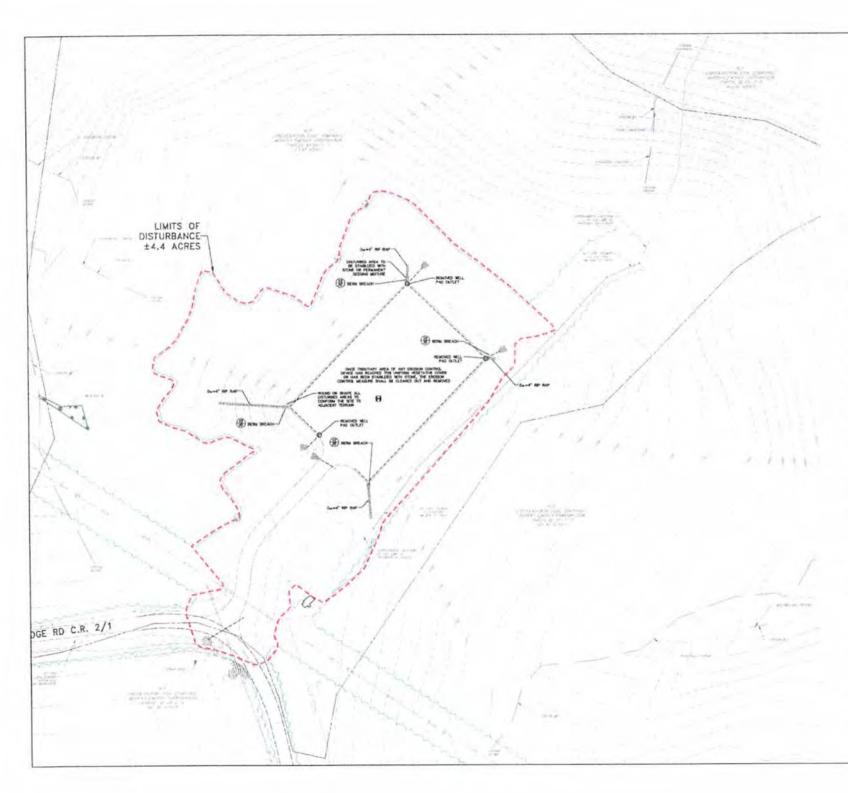
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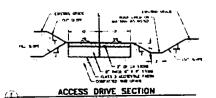
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#### TABLE IV-1 TEMPORARY SEEDING FOR CRITICAL AREAS

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#### TABLE IV-2 PERMANENT SEEDING FOR ALL DISTURBED AREAS

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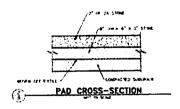
#### TABLE IV-3 LIME AND FERTILIZER APPLICATION TABLE

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#### TABLE IV-4 MULCH MATERIALS RATES AND USES

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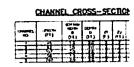


CONTAINMENT BERM



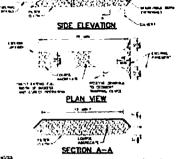
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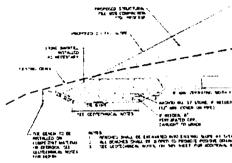


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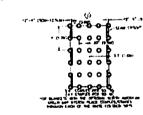




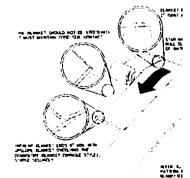
(1) STABILIZED CONSTRUCTION ENTRANCE



CONTROLLED FILL EMBANKME



#### STAPLE PATTERN GUIDE

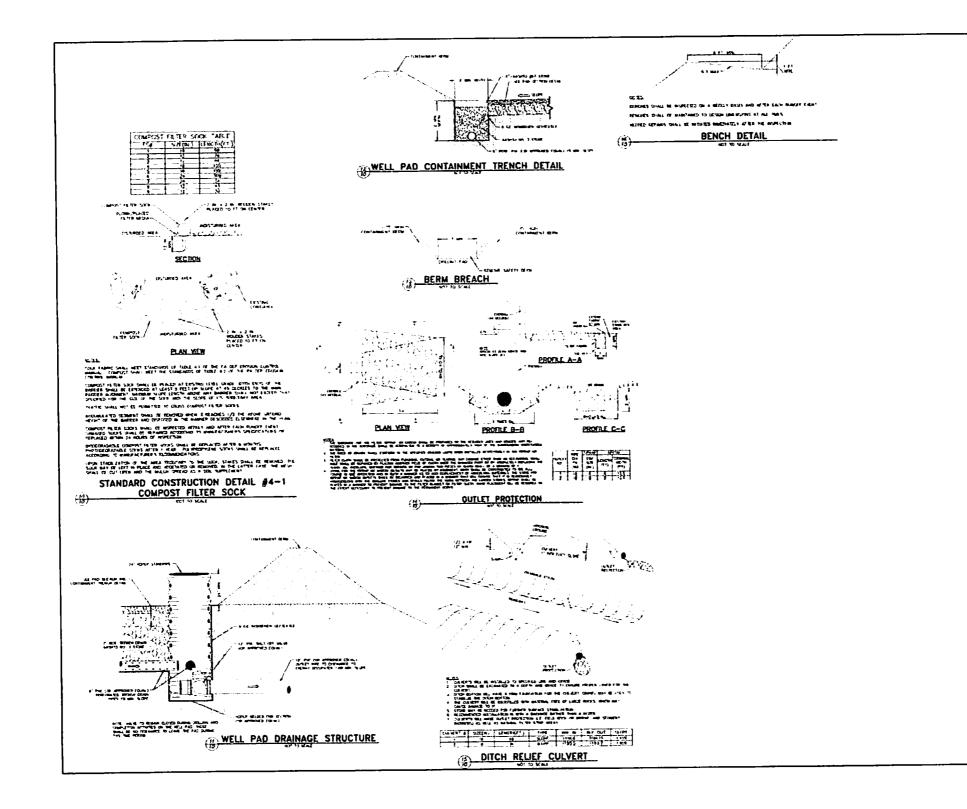


ROCK CHECK DAM

CECAS, SECTION

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