

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Friday, February 10, 2017 WELL WORK PERMIT Horizontal 6A / Fracture

NOBLE ENERGY, INC. (A) 1000 NOBLE ENEGY DRIVE

CANONSBURG, PA 15317

Re: Permit approval for MND 6 DHS

47-051-01762-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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) 926-0450.

James A. Martin Chief

Operator's Well Number: MND 6 DHS

Farm Name: CONSOLIDATION COAL COMPANY

U.S. WELL NUMBER: 47-051-01762-00-00

Horizontal 6A / Fracture

Date Issued: 2/10/2017

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS 47 0 5 1 0 1 7 6 2

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 conditions may result in enforcement action.</u>

CONDITIONS

- 1. 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.
- 2. 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.
- 3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 5. 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.
- 6. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-051	_ 01762
OPERATOR WE	LL NO. MND 6 DHS
Well Pad Name	: MND 6

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

1) Well Operator: Noble Ener	gy, Inc.	49	94501907	Marshall	Franklin	Powhatan Point
		C	perator ID	County	District	Quadrangle
2) Operator's Well Number: M	ND 6 DHS		Well Pad	Name: MND	6	
3) Farm Name/Surface Owner:	Consolidation Coa	l Compa	Public Road	d Access: CR	7/4-Fish C	reek Rd
4) Elevation, current ground:	722'	Eleva	tion, proposed p	oost-construction	on: 721'	
5) Well Type (a) Gas X	Oil		Under	rground Storag	е	
Other						
(b)If Gas Sha	llow X		Deep			
Hor	rizontal X					
6) Existing Pad: Yes or No Yes-	this well has been	drilled, l	out not completed.			
 Proposed Target Formation(s Marcellus at 5895' and 55' in the 					essure(s):	
8) Proposed Total Vertical Dept	h: 5940'					
9) Formation at Total Vertical D	epth: Marcel	lus				
10) Proposed Total Measured De	epth: 6679'					
11) Proposed Horizontal Leg Le	ngth: 16,750	<u>6'</u>				
12) Approximate Fresh Water St	trata Depths:	12	28' and 265'			
13) Method to Determine Fresh	Water Depths:	Offs	et Well data			
14) Approximate Saltwater Dept	hs: none note	ed in o	ffsets			
15) Approximate Coal Seam De	oths: 284' to 2	294'				
16) Approximate Depth to Possi	ble Void (coal	mine,	karst, other): N	one anticipated, o	drilled in pilla	r - mine maps attahced.
17) Does Proposed well location directly overlying or adjacent to			Yes	No	X	
(a) If Yes, provide Mine Info:	Name: Sa	me as	Above			
	Depth: Ba	se at 2	294' at deepes	t point		
	Seam: Pit	tsburg	h			
	Owner: Mu	rray A	merican Enerç	gy (Previously	Consol)	

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API	_{47 -} 051	_ 01762	County M	arshall		District Fran	ıklin		
Quad	Powhatan Po	oint		MND 06		Field/Pool Na			
	name Consolid					Well Number	MND 06	DHS	
Opera	ator (as registered v	with the OOG)	Noble Ener	rgy, Inc.					
	ess 1000 Noble				burg	State PA	4	_{Zip} 153	17
As Dr	Landing Point	Cop hole	Attach an as Northing 39.817 Northing 39.841	699	East	d deviation surting 80.791676 ing 80.816118	3 3		
Eleva	tion (ft) 722'	GL	Type of	Well =New	□ Existing	Type of F	Report Inte	rim oFi	nal
Permi	it Type 🛭 Devi	iated 🗆 H	orizontal 🗂 H	orizontal 6A	□ Vertical	Depth T	ype 🗆 D	еер 🖪	Shallow
Туре	of Operation 🗆 C	onvert 🗆 D	eepen 🛢 Drill	□ Plug I	Back □ Redri	lling 🗆 Rev	work 🗆 Sti	mulate	
Well	Type 🗆 Brine Dis	posal 🗆 CBM	de Gas □ Oil	□ Secondary	y Recovery 🗆 So	olution Mining	□ Storage	□ Other	
	of Completion □	Single □ Mul	tiple Fluids	Produced	Brine □Gas	□ NGL □	Oil 🗆 Oth	ner	
Produ Mud	ng Media Surface action hole	■ Mud □	□ Mud □Fre Fresh Water □		Intermediate l	hole B Air	□ Mud □ Fi	resh Water	r 🗆 Brine
Date 1	permit issued0	 6/10/2014	Date drilling	z commenced	1 09/04/201	4 Date d	rilling ceased	11/1	4/2014
	completion activiti	l l	Not complete	•	e completion acti		=		
	al plugging (Y/N)		Date permission p						
Please	e note: Operator is	·		application v	vithin 5 days of v	erbal permissi			
Fresh	water depth(s) ft		and 265'		mine(s) (Y/N) d	lepths	<u> </u>		
Salt w	vater depth(s) ft		d for offsets	Void	(s) encountered (Y/N) depths _	N-drill	ed in pi	llar
Coal	depth(s) ft	284' -		Cave	rn(s) encountered	d (Y/N) depths	·	N	
Is coa	al being mined in a	rea (Y/N)	No		<u> </u>			Reviewed t	y:

OPERATOR WELL NO. MND 6 DHS

Well Pad Name: MND 6

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	DH-36	307	40	40	CTS
Fresh Water	16"	New	H-40	65	110	110	CTS
Coal	13 3/8	New	J-55	54.5	745	745	30% excess Yield=1.18
Intermediate	9 5/8"	New	HCK-55	36	2058	2058	20% excess Yield=1.19
Production	5 1/2"	New	P-110	23	16,756'	16,756'	10% Excess Yield=1.27 TOC>=200' above shoe
Tubing							
Liners							

Ju,0/7/16

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	.438				CTS
Fresh Water	16"	18"	.375		1200		CTS
Coal	13 3/8	17 1/2"	.380	2730		Type 1/Class A	1.18
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	16,500	13,000	Type 1/Class A	1.27 TOC>=200' above 9.625" shoe
Tubing							
Liners							

PACKERS

Kind:	
Sizes:	
Depths Set:	(Edelven)
	Office and Gas

OCT 1 7 2016

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WW-6B	
(10/14)	

API NO. 47-_051 - 01762

OPERATOR WELL NO. MND 6 DHS

Well Pad Name: MND 6

19)	Describe propo	sed well worl	k, including	the drilling	and pluggin	g back of an	y pilot hole:
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Noble Energy, Inc. has previously drilled this well and we are submitting this application in order to hydraulically fracture and produce the well.

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.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.6
- 22) Area to be disturbed for well pad only, less access road (acres): 7.3

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. Surface casing will have bow spring centralizers on first 2 joints then every third joint to 100' from surface. Intermediate casing will have bow spring centralizers on first 2 joints then every third joint to 100' from surface. Production string will have a rigid bow spring every joint to KOP, rigid bow spring every third joint from KOP to top of cement.

24) Describe all cement additives associated with each cement type:

Conductors-Type 1 to Surface. Surface 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% Anti Foam, 0.125#/sk Lost Circ 20% Excess Yield +1.19 to surface. Procuction 14.8ppg Class A 25:75:0system +2.6% Cement extender, 0.7% Fluid Loss additive, 0.45% high temp retarder, 0.2% friction reducer 10% Excess Yield+1.27 TOC>+200" above 9.625" shoe.

25) Proposed borehole conditioning procedures:

Conductor-The hole is drilled w/air and casing is run 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. Fill with KCI water once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement Coal-The 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.

*Note: Attach additional sheets as needed.

	Fresh Water Protetcion String:	Cement Additives	
Allied Material Name	Additive (Material) Type	Additive (Material) Description	CAS#
CCAC (Class A Common)	Base Cement	Grey powder	65997-15-1
			10043-52-4
CA-100	Accelerator	White, flake	7447-40-7
CA-100	Accelerator	Willite, Hake	7732-18-5
			7647-14-5
CLC-CPF (Cellophane Flakes)	Lost Circulation Aid	White and colored flake	Non-Hazardous
·			

Office Telephone Gas

OCT 17 2016

Ended Accompany of

JIN 8/13/14

ני		noble	1					MND-6D-HS (Marcellus HZ) Macellus Shale Horizontal Marshall County, WV	Marcellus HZ) ile Horizontal ounty, WV	
					MND-6	D SHL	MND-6D SHL (Lat/Long)	(4825	(482519.74N, 1637129.1E) (NAD27)	E) (NAD27)
Ground Elevation		722'			MND	ed LP (MND-6D LP (Lat/Long)	(4827	(482719.73N, 1636367.64E) (NAD27)	(NAD27)
Azm		325°			MND-6	D BHL	MND-6D BHL (Lat/Long)	(49126	(491263.42N, 1630385.28E) (NAD27)	(NAD27)
WELLBORE DIAGRAM H	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	26	20-94#	Conductor	40	6	AFR	To Surface	NA	Ensure the hole is clean at	Stabilize surface fill/sod Conductor casing = 0.438* wall thickness
×	18	16"	Conductor #2	120	120	Auger	To Surface	NIA	Ensure the hole is clean at TD.	Stabilize surface soil
		13.378* 54 5#					15.6 ppg Type 1	Bow Spring on first 2	Fill with KCI water once drilled to TD. Once casing is	Interme
×	17 1/2	J-55 BTC	Pittsburgh Coal	284	294	AIR	30% Excess	joint to 100' form	minimum of one hole	wall thickness Russ=2730 est
			Surface Casing	694	694		Yield = 1.18	surface	volume prior to pumping cement.	
×			2nd Salt Sand	1377	1413		15.6ppg Class A		Fill with KCI water once	
		9.5/8" 36#	Big Lime	1488	1604		0.2% AntiFoam,	Bow spring centralizers	D "	Casing to be ran 250' below
	12 3/8	K-55 BTC	Big Injun	1604	1717	AIR	0.125#/sk Lost Circ	every third joint to 100"	minimum of one hole	casing # 0.352" wall thickness
X			Price Formation	1717	2232		Yield=1.19	Series anna series	volume prior to pumping	Burst=3520 psi
- N. O.			Int. Casing	2017	2017		To Surface		centent	
×		1	Speechley	3019	3065					
8.75*	8.75" Vельсаі		Java	4570	4665	9.0ppg -		Rigid Bow Spring every third joint from KOP to		
		1	Pipe Creek	4665	4752	SOBM	14. Bppg Class A 25.75.0	100		
			Angola	4752	5334		System System			
C			Rheinstreet	5334	5655		0.7% Fluid Loss additive.		Once at 1D condute at max	
rri		5.17	Cashaqua	5655	5727		0.45% high temp retarder, 0.2% friction		allowable pump rate for at	Production casing = 0.361" wall theknoss
xe 0		23#	Middlesex	5/2/	9/20	12.0ppg-	reducer		least 6x bottoms up. Once on bottom with casing.	Burst=12640 psi
GI	0.10 50176	TXP BTC	West raver	5010	5836	SOBM	10% Excess		5	schedules may be changed
			Total impelian	5035	5850		Yield=1.27	Rigid Bow Spring every		due to hole cond
7			Language Canada	2000	2000		TOC >= 200'	LOW OF WIND		
21			Marriage	2000	2020		above 9.625° shoe			
EE	375-85		10	16882	5940 TVD	12.0ppg-				
)	aterai	_1_		WD		SOBM				
×	100000000000000000000000000000000000000	X	Onondaga	2950 X	Secretary of the secret	X	X	X	X	X
U) LP @ 5940° TVD / 6452°	/6452			Hole - Ce	8.7578.5 Hole - Cemented Long String	ng String		·1.104	***10431" ft Lateral	TD @ +/-5940* TVD

State of West Virginia

Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

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, Portistan Point		***************************************	
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of Completion of Single 1997	ano Produced La l	· · · · · · · · · · · · · · · · · · ·	u Nata
! with Cable Rectory			
Synthetic Oil Based Oate permit issued06/10/2014	Date drilling commenced	09/04/2014	g ceased 11/14/2014
Date completion activities began		mpletion activities ceased	na
Verbal plugging (Y/N)	Date permission granted	Granted by	
Please note: Operator is required to	submit a plugging application with	in 5 days of verbal permission to	plug
	3' and 265' Open mi	ne(s) (Y/N) depths	
Salt water depth(s) ftnone_no	1 A	encountered (Y/N) depths	1.6
	2.1	s) encountered (Y/N) depths	N
s coal being mined in area (Y/N)	140		Reviewed by:
			02/10

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Rev.	8/23/13	

Page	of	
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A DI	47-051	01762

Farm name_Consolidated Coal Company_Well number_MND 06 DHS

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade	Basket	* post	nent circulate (
Conductor	2 6"	20"	40'	News		1			
5	18"	151	11.	Non					
Coal	17.5"	13 3/ 8"	745'	New	1-55			Ϋ́	
Intermediate !	12.000	9.5/8"	Ç = 2 = 1	N. AV	* * * * * * * * * * * * * * * * * * *	;		`	
				(•	Particulated 1	:		-

Drillers TD (ft) [18,758]			Commence of the state of		
Deepest normation; on. 1922 9 Plug back procedure					
Cirth additional Cdn 2143					
Check all wireline logs run	□ caliper □ neutron	□ density □ resistivity	⊔ deviated/directional □ gamma ray	☐ induction☐ temperature	□sonie
Well cored	Conventio	nal Sidewa	all Were cu	ttings collected	n Ves n No
			uii Wele eli	ungs conceica	5 1C3 B 110
8 Centralizers on Intermediate String (Bow string	ng centralizers on first to	NT USED FOR	R EACH CASING STRING Joint to 100' from surface).	3 No centralizers u	sed on conductor.
8 Centralizers on Intermediate String (Bow string	ng centralizers on first to	NT USED FOR	R EACH CASING STRING Joint to 100' from surface).	3 No centralizers u	sed on conductor.
18 Centralizers on Intermediate String (Bow strir 294 Bow Tech Centralizers on Production	ng centralizers on first to String (rigid bow str	ENT USED FOR wo joints then every third ring every joint to KO	REACH CASING STRING point to 100' from surface). P, rigid bow spring every third joint	G No centralizers u	sed on conductor.
DESCRIBE THE CENTRALIZ 18 Centralizers on Intermediate String (Bow string) 294 Bow Tech Centralizers on Production WAS WELL COMPLETED AS	ng centralizers on first to String (rigid bow str	ENT USED FOR wo joints then every third ring every joint to KO	R EACH CASING STRING point to 100' from surface). P, rigid bow spring every third joint to the point of the p	No centralizers u	ment).

WR-	35
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1 47- ⁰⁵¹ - 01762	Farm r	_{name} Consoli	dated Coal Compa	any Well n	umber MI	ND 06 DHS	
ODUCING FORMATION(S)		la gas					
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dress 171 Locust Ave. Ext.		City	Mt. Morris	State	PA	Zip 15349	
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dress 400 Technology Drive		City	Canonsburg	State	<u>PA</u> ;	Zip 15317	
menting Company Schlumberge	r						
dress 4600 J. Barry Ct., Suite 200		City	Canonsburg	State	<u>PA</u> ;	Zip 15317	
mulating Company dress ase insert additional pages as appl							
		City		State	•	7in	

	AS DRILLED PLAT	1 LONG. W 80'47'30.7" (NAD 27)	Latitude: N 39'50'00"
7,000.	torns Series Const	SURFACE LOCATION BTM 17 NO. 6	(SHL) LANDING POINT (LP) M UDD 17 NAB 8: N 1407,582,4869 3:
1,000	A LINE (EXIS.	NAO 27 (11 St. 452 Tigay
APIN 351-705/1		E)1,632 170 1	s 4 400,7 40,9 1 ≥ 1 ≥ 1
E NTS NTS	MIS E DETAIL	*12.22 FORE'S GO !	BOTTON HOLE LCC - 100 (5 - 1)
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3 PHISE ARE NO EXISTING WATER NOT	୍ର ଅଞ୍ଚିତ ପ୍ରଥମ ଓଡ଼ିଆ ଓଡ଼ିଆ ନିର୍ମି ନ୍ତି ନିର୍ମି ଜାଣୀ (ମିଟି ପ୍ରଥମ ଅଟନ୍ତି କରିଥିଲେ । ଜଣ୍ଡ ଅ	unci ni iki k	■ New York Tradition Date:
5 Inc. 1 of 190 SACLINGS LILLATED HOWN 7. THE SURROUNDING LANDS ARE BEING SERVED	en tod galekakongon kr Godi da Aku-usabi krusa DIBY PUBLKI WATER BY THE GA-ND VA	a Dia La	BUFFER LINE
WATER SYSTEM PROVIDED BY MARSHALL COU FILE * 083842010	NTY PUBLIC HEALTH AND SANITAL OF D	WS DV	GAS WELL
DRAWING # @93847010 SV-Diet	PLAT IS CORRECT TO THE HIGH	CE MANAGEMENTE NO	1"/0,1
	THE DEPARTMENT OF ENVIRONMENT	Plant AL PROTECTION	18 4 7 V V V V V
MINIMUM DEGREE OF ACCURACY: 1/200		1 -A	STATE OF A STATE OF
PROVEN SOURCE:	SIGNED C	white	VIRGITATION
OFELEVATION: NCS (CORS)	RPE:	118. 2241	SONAL SUPERIOR
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	COT THE PARTY OF	DATE: OPERATOR'S WELL #:	OCTOBER 7, 2016 MND 6 DHS
WVDEP OFFICE OF OIL & GAS 601 57TH STREET		API WELL #: 47	OSI 01762 COUNTY PERMIT
CHARLESTON, WV 25304			
WELL TYPE: OIL OAS WASTE DI WATERSHED: FISH CREEK	SPOSAL LIQUID INJECTION S	PRODUCTIONSTORAGE ELEVATION:	DEEP SHALLOW 722'-DESIGN (NAVO 68)

QUADRANGLE:

DESIGNATED ACENT: STEVEN GREEN

ADDRESS: 1000 NOBLE ENERGY DRIVE

CITY: CANONSBURG

CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PERFORATE NEW FORMATION PLUG & ABANDON

15317

ACREAGE:

ACREAGE:

POWHATAN POINT, OHIO-W.VA

ZIP CODE:

15317

136.587±

136.587±

ESTIMATED DEPTH: TVD; 5,940'± TMQ; 16,882'±

STATE: PA

COUNTY/DISTRICT:

WELL OPERATOR:

TARGET FORMATION: MARCELLUS

MARSHALL / FRANKLIN

DRILL PLUG OFF OLD FORMATION CLEAN OUT & REPLUC OTHER CHANGE (SPECIFY):

SURFACE OWNER: CONSCIDATION COAL COUPANY
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY LLC and NOBLE ENERGY, INC.

NOBLE ENERGY, INC.

ADDRESS: 333 TECHONOLOGY DRIVE, SUITE 116
CITY: CANONSBURG STATE: PA ZIP CODE:

MMD 6

Rochester Shale

Dayton Fm/Packer Shell

				makes and	
Snale and Salidstone	0		0	25-1	
Pittsburgh Coal	284	294	284	294	
er transfer transfer	294				

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<u> </u>	56.12		54.		
				·	
Middlesex	5714	5737	57391	not en coun tered	
	5737	'	E		
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namilton	5848	≥5 3	58751	not encountered (
Marceilus	5883	5936		not encountered	
Onondaga	5936	5944		not encountered	
Huntersville	5944	6158	5972	6191	
Oriskany	6158	6270	6191	6313	
Helderburg	6270	6530	6313	6719	
Bass Island Dolomite	6530	6609	6719	7118	
Salina G Big Lime	6609	6809	7118	7333	
Salina F	6809	7608	7333	8194	
Lockport Dolomite	7608	7930	8194	8541	

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Medina Sand	8471	o 523	9073	9179i	
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0.17	0.05	0.05	0.19	0.47	5.57	0.21	1.23	2.86	1.61	1.92	1.12	2.56	0.14	1.88	0.30	0.09	0.56	0.70	1.87	3.54	3.09	3.50	0.94	1.83	0.48	1.18	0.46	0.00	0.00	DLS Comments [°/100ff]						TOGER			

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4										127,630	1.44	
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										111.884	1.37	
									ATT	112.120	0.32	
										113.601	0.09	
									7.70	115.054	0.05	
						177			- 72	108.959	1.47	
										99.243	0.14	
										85.498	0.37	
									1,62	79.218	0.52	
						2			1,51	74.148	0.15	
						-4			1.13	68.107	0.35	
						17			8,56	59.861	0.18	
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			261		-2	115		-	.,47	322.240	0.03	
						1			.63	308.833	2.23	
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Closure Dir DLS Comments

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1/	(3)			Y			100		Closure Dir	DLS Comments
							1	26	266.327 269.335	11.91 11.20
							3 3 3)	1.9	272.421 275.228 278.088	10.55 8.10 8.99
							2.0	1.2	283.082	9.48
								117	285.805	5.37
									287.396	0.83
								2.4	291,005	0.37
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								17 -17	296,389	0.29
- F)	1				4			7.3.98	298.624	4.90
					47		11 14	11-15	300.776	2.58
					11		1845 01	115 20	302.736 304.420	0.61
	1				12)		1 3 14	04.78	305.757	4.19
					17		1	11: 2	306.753	3.12
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			u)		39%	16	180 13	79.76	308,233	1.35
					15	10	19:20	71.36	308.897	0.44
							1/37 4	105.27	309.487	0.85
							1435	148.04	310,068	2.89
	y						13635	149-64	310.750	4.56
7						16	4840 3	1= 20	311.406	2.80
						16	1840	137.34	311.932	1.92
				200 (14)			184. 2	12: 64	312.420	1.87
×		Sent		1/12		160	187	317-34	312.921	0.98
				100			184 7	1.7	313,417	1.15
		90) " 1					18:	111115	313.960	3.60
84	1	>()					484 - 8	41.39	314.572	3.08

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WII								Closure Dir	DLS Comments
								[°]	[°/100ft]
								315.150	2.73
								315.593	4.13
								315.889	4.11
								316.103	0.83
								316.285	0.64
								316.484	2.90
								316.693	1.44
								316.842	2.40
								316.945 317.035	0.68
								317.123	0.08
							E .		
							1.0	317.248 317.453	3.22 4.55
						3		317.680	1.70
						4		317,897	1.82
	:20					8		318.143	1.75
						1-2		318,370	2.23
							3 10	318.536	3.35
					- :	-7	-6 -94	318.614	4.83
							0 4 4 4		2.65
		1,7.					170	318.747	0.13
								318.805	1.98
					400	1.5			0.62
					= 10	+	1	318.894	0.32
					1.00	1	13	318.969	3,94
					186			319.104	3.29
			4	1)	Liste	7	- 16	319.258	0.30
				17	14000		. 3	319.391	1.64
				î	.1	19		319.497	1.14
			1.	10	420			319.579	1.47
			0.45	1.1				212,379	197

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Closure Dir	DLS [°/100ft]	Comments
319.648	0.29	
319.719	0.18	
319.785	0.50	
319.842	0.35	
319.908	1.77	
319.997	1.63	
320.125	4.22	
320.303	3.46	
320,488	1.68	
320,636	2.81	
320.734	4.29	
320.768	4.98	
320.753	2.41	
320.734	1.64	
320.739	1.95	
320.767	1.79	
320.811	0.89	
320.883	3.94	
320.969	1.48	
321.036	1.36	
321.114	3.30	
321.200	1.30	
321.277	0.19	
321.353	0.48	
321.432	0.49	
321.504	1.19	
321.555	2.68	
321.586	0.64	
321,610	0.66	
321.633	0.52	

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W1.	India		-4				Ÿ.		Mic	Closure Dir	DLS Comments [º/100fr]
	Γ'									321.644	2.68
		1							5.2	321.652	2.08
									71	321,681	2.16
										321.725	0.82
										321.778	1.20
	k.									321.833	0.60
					V-					321.874	1.92
	7									321.888	3.44
										321.890	0.86
									(37)	321.911	3.07
						1707	4.8	16	147- 55	321.945	0.32
	1017				5, 44	163	495	0.2	56	321.977	0.26
					4 -8	175	4001		Esti	322.008	0.30
					4.0		40071		-75	322.031	2.18
				4	3 11			1	85	322.031	2.51
				**				103	10.1	322.024	1.02
					Y				114_	322.037	3.25
					1.4				1.3	322.073	2.04
					3.				-3	322.112	1.09
									30 1	322,144	0.43
									115	322.171	0.67
	11.3								151	322.195	0.18
								15		322.224	0.94
	(()									322.259	0.74
	4.0		172		3.032				175	322.301	1,15
	n) <u>t</u>				1.76	1		110).		322.346	0.50

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MND	1 P Rev-2		n)		1827: +825		40	31"N 64"N	80°47'40.803"W 80°47'30.152"W	point

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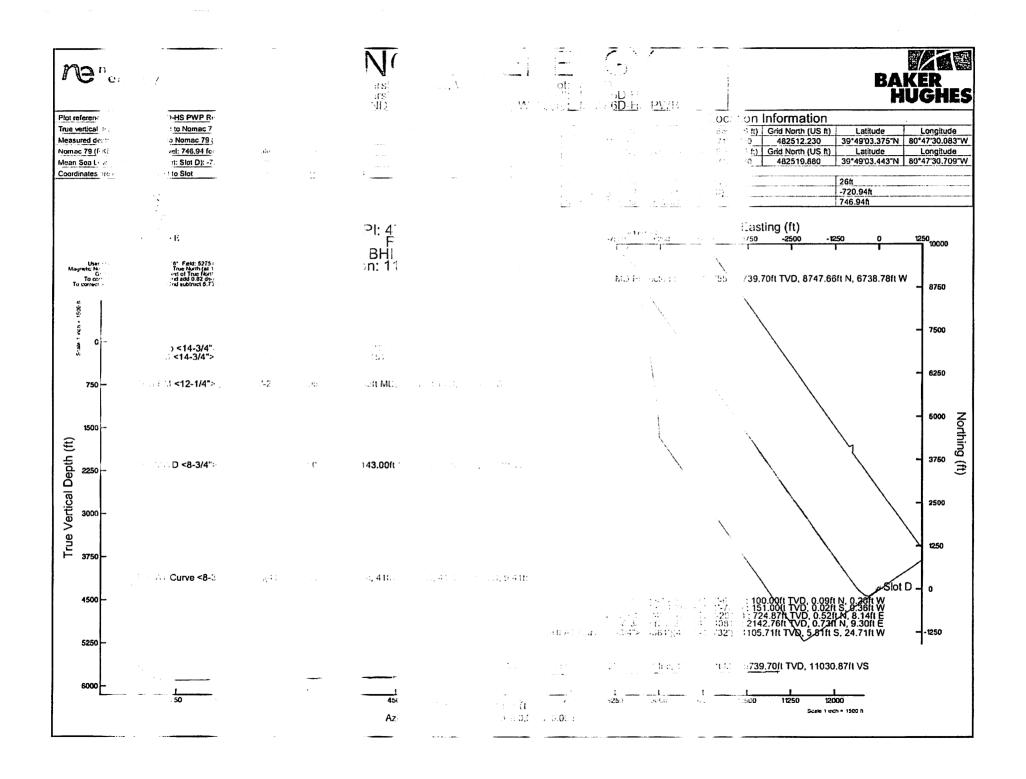
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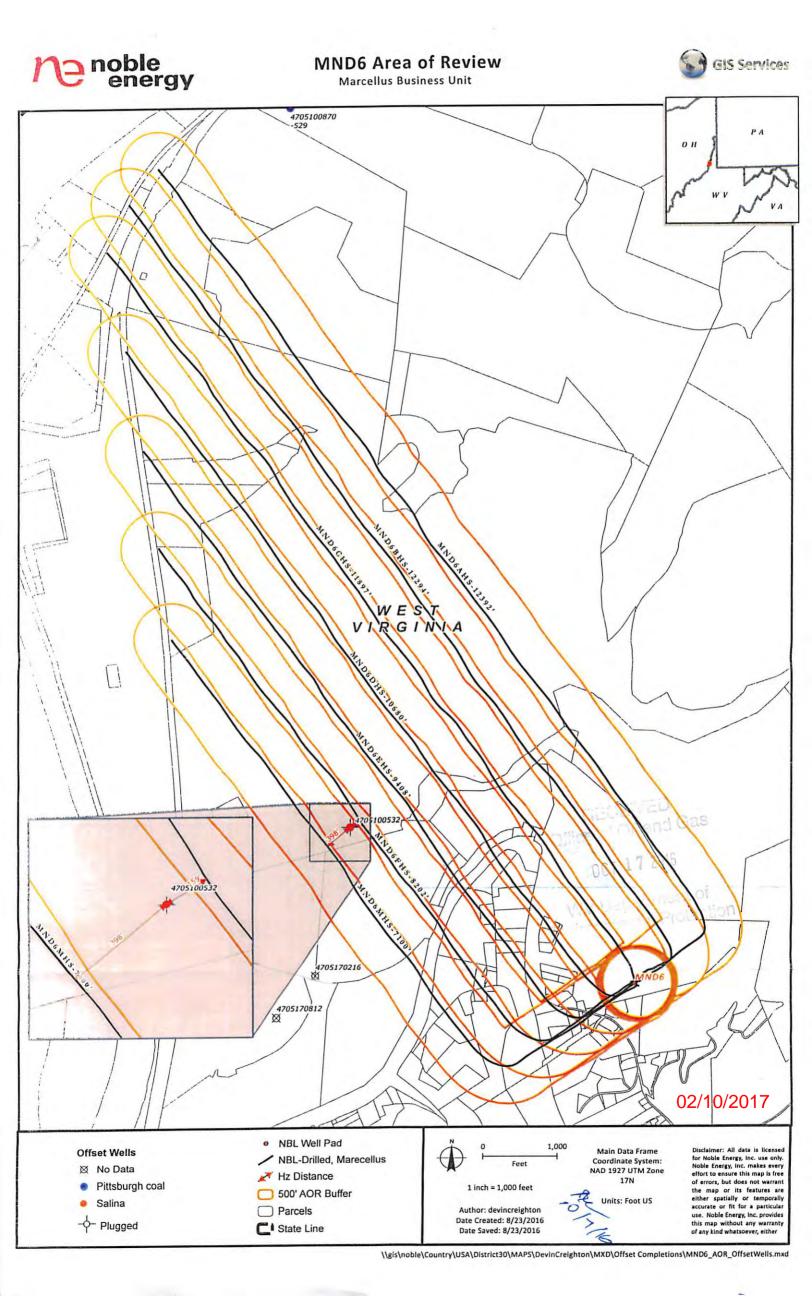




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Report





API Nu	mber	47 -	051	 01762

Operator's Well No. MND 6 DHS

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Noble Energy, Inc.	Code 494501907
Watershed (HUC 10) Fish Creek Unidentified (HUC 10) Quadrangle Powha	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well wo	ork? Yes V No No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: Closed Loop - No Pit will be utlize	ed
Will a synthetic liner be used in the pit? Yes No If so, who	at ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
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 b	pased, etc. Air thru coal string, then SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Calcium Chloride Powder, Carbo Tec, Carbo Tec, Sarbo Tec S. Ecco-Block, Lime, MIL-Carbo Cote, Mil Bar, Next Mul HT, Soda Ash, Potassium Chloride	b TM, Mil-Clean, Mil Seal, Next Base eC, Next Drill, Next Hold, Next Mul, Omni
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill - see	attached sheet
-If left in pit and plan to solidify what medium will be used? (cement, lime, say	wdust)
-Landfill or offsite name/permit number? See attached sheet	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cut West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENER on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Env provisions of the permit are enforceable by law. Violations of any term or condition of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fami application form and all attachments thereto and that, based on my inquiry of the obtaining the information, I believe that the information is true, accurate, and complementation for submitting false information, including the possibility of fine or imprisonmentation.	vironmental Protection. I understand that the of the general permit and/or other applicable cliar with the information submitted on this se individuals immediately responsible for lete. I am aware that there are significant
Company Official Signature	life-ti-mo-n
Company Official (Typed Name) Dee Swiger 0	Office of Dilland Co.
Company Official Title Regulatory Analyst, III	007 1 11 11
	001 1 / 2015
Subscribed and sworn before me this 10th day of October Regina Logue My commission expires Suly 7, 2018	Notary Public Regina Logue, Notary Public New Sewickley Tupp Beaver County My Commission Explication, 2018

Proposed Revegetation Trea	atment: Acres Disturbed 9.	6 Prevegetation	n pH
Lime 2 to 3	Tons/acre or to correc	t to pH	
Fertilizer type 10			
Fertilizer amount_500		lbs/acre	
Mulch_ Hay or S	traw at 2	Tons/acre	
		Seed Mixtures	
Temporary		Permanent	
Seed Type Tall Fescue	lbs/acre	Seed Type Tall Fescue	lbs/acre 40
Ladino Clover	5	Ladino Clover	5
See site plans for full list See site plan		See site plans for	full list
provided). If water from the acreage, of the land applicat	pit will be land applied, incl	application (unless engineered plans in ude dimensions (L x W x D) of the pit,	
Maps(s) of road, location, p provided). If water from the acreage, of the land applicat	pit will be land applied, inclion area.		
Maps(s) of road, location, porovided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, inclion area.		
Maps(s) of road, location, porovided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, inclion area.		
Maps(s) of road, location, porovided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, inclion area.		
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Maps(s) of road, location, porovided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, inclion area.		
Maps(s) of road, location, porovided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, inclion area. Ived 7.5' topographic sheet.		and dimensions (L x W), a

Cuttings Disposal/Site Water

Cuttings – Haul off Company:

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

Waste Management 200 Rangos Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19
Cochranton, PA 16314
814-425-7773

Disposal Locations:

Apex Environnemental, 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 Inc. Permit #R30-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071 233 Max Lane Yukon, PA 25968 724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

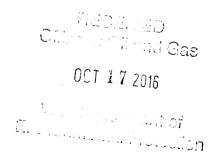
Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014



02/10/2017

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961

Water Haul off Companies:

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

Nabors Completion & Production Services Co. PO Box 975682 Dallas, TX 75397-5682

Select Energy Services, LLC PO Box 203997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Oilfield Services LLC PO Box 739 St. Clairsville, OH 43950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15301

Disposal Locations:

Solidification
Waste Management, Arden Landfill Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-225-1589

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

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Oilfield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, Inc. 1380 Rte. 286 Hwy. E, Suite 303 Indiana, PA 15701

Solo Construction P.O. Box 544 St. Mary's, WV 26170

Equipment Transport

1 Tyler Court

Carlisle, PA 17015

Myers Well Service, Inc. of Chand Gas 2001 Ballpark Court Export, PA 15632 OCT 17 2016

Burns Drilling & Excavating 618 Crabapole Road P.O. Box 41 Wind Ridge, PA 15380

Nichlos 1-A (SWIW #13) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 713-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495

02/10/2017

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 512-478-6545

Adams #3 (Buckeye Brine, LLC) Permit #34-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

Goff SWD #1 (SWIW # 27)
Permit # 34-119-2-8776-000
300 Cherrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Oilfield Services, Inc. 2939 Hubbard Road Youngstown, PH 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

OH UIC #1 Buckeye UIC Barnesville 1 & 2 CNX Gas Company, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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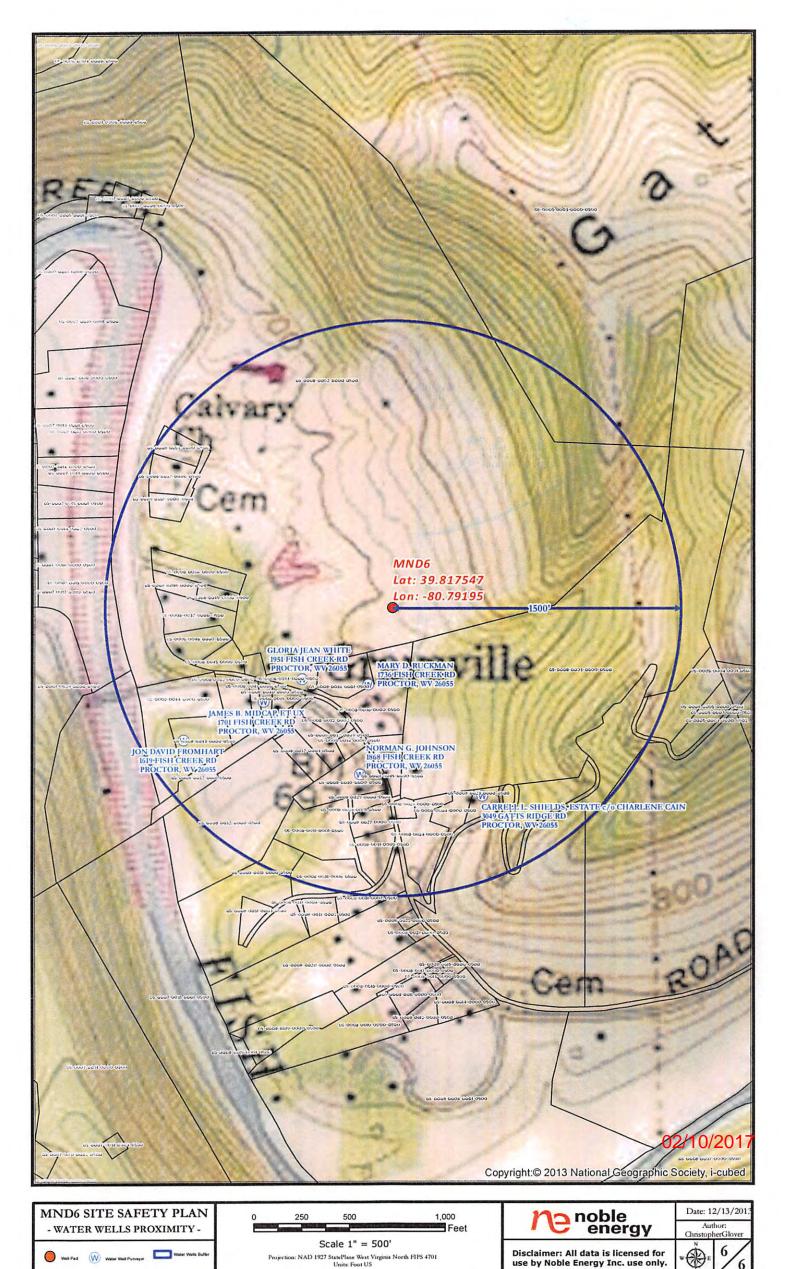
Site Safety Plan Noble Energy, Inc. MND 6 Well Pad 1652 Fish Creek Road Proctor, WV July 2015: Version 2

For Submission to West Virginia Department of Environmental Protection, Office of Oil and Gas

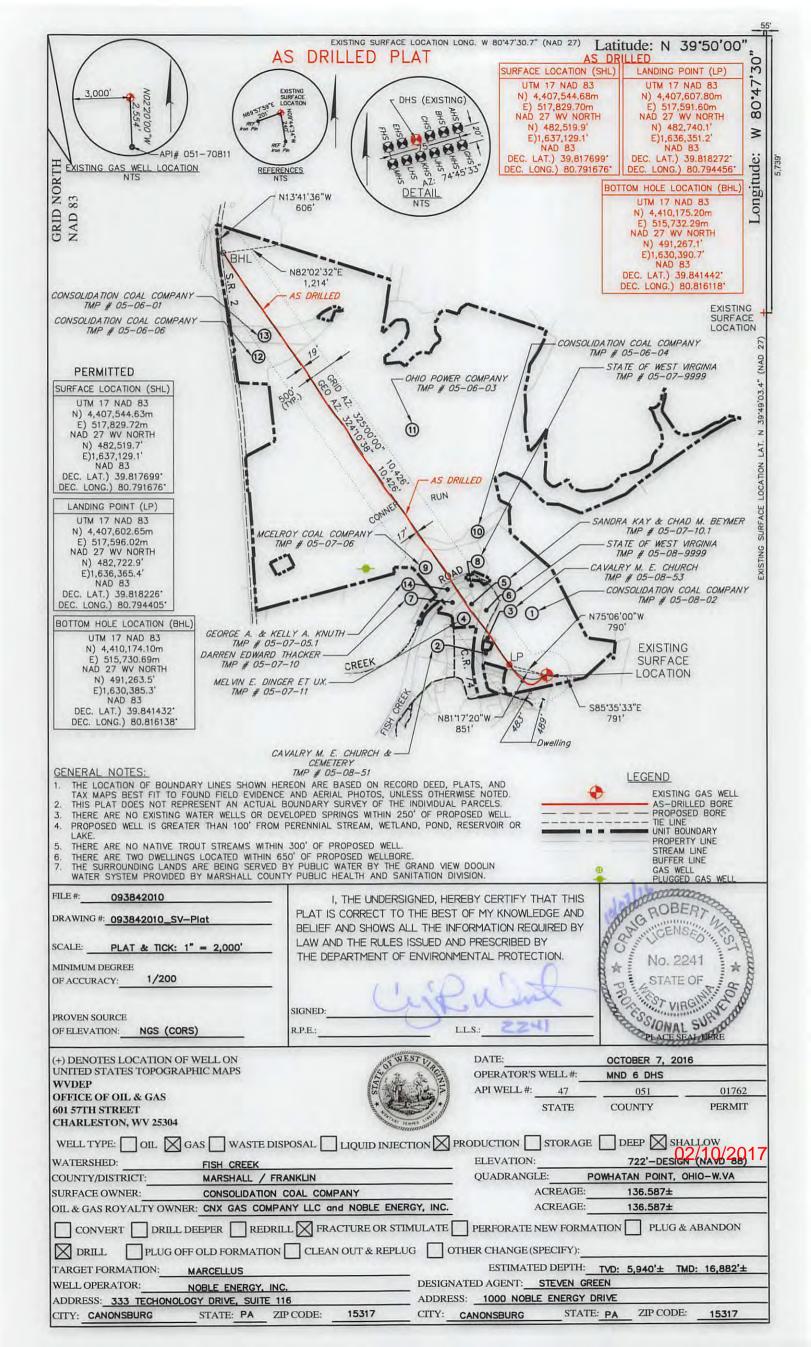
> Noble Energy, Inc. Appalachia Offices 1000 Noble Energy Drive Canonsburg, PA 15317-9504

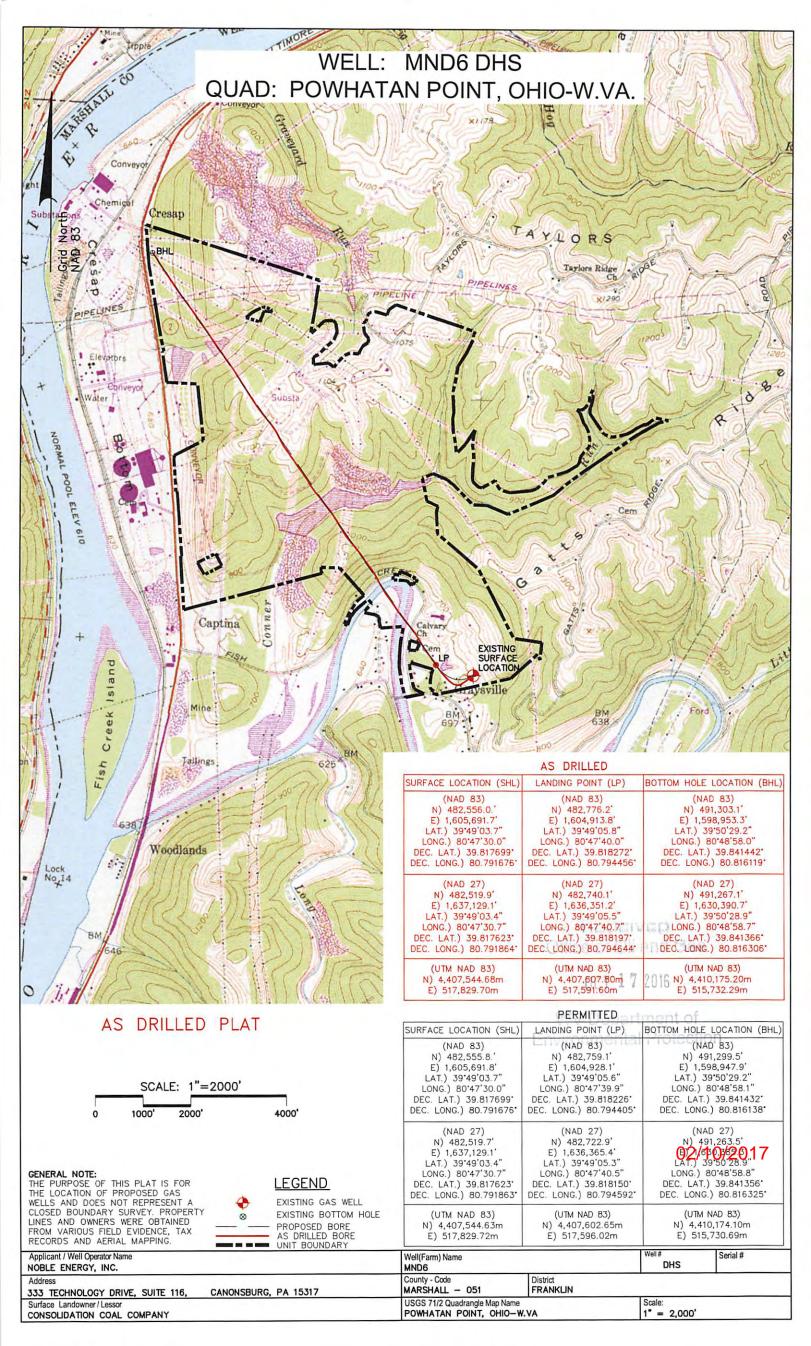
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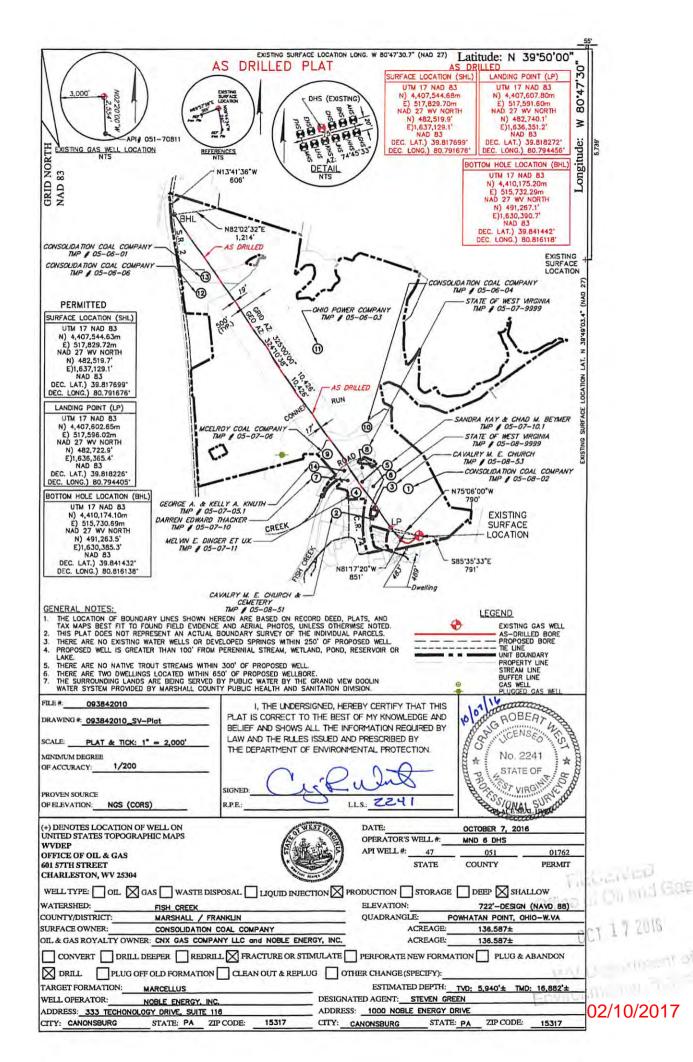
Environmental Protection











INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
1)	Consolidation Coal Company	CNX Gas Company, LLC	100%/Fee	646/493
	CNX Gas Company, LLC	Noble Energy, Inc.	100%/Fee	752/66
2) Q079730000	Graysville Calvary United Methodist Church	Noble Energy, Inc.	Not less than 1/8	811/646
3) Q079727000	Graysville Calvary United Methodist Church and Graysville Cemetery Association	Noble Energy, Inc.	Not less than 1/8	811/642
4)	Melvin E. Dinger and Lena Mae Dinger	TriEnergy Holdings, LLC	Not less than 1/8	712/558
	TriEnergy Holdings, LLC	NPAR, LLC	N/A	24/430

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 hereby acknowledges 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
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Noble Energy, Inc.
By:	BOWDEN ETHINGS
Its:	Land Negrotiations Supervices

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
4 continued)	NPAR, LLC	Chevron U.S.A. Inc.	N/A	756/332
	Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	31/59
F).	Constitution Cod Constitution	CNIV C CII C	4000//5	5454400
5)	Consolidation Coal Company CNX Gas Company LLC	CNX Gas Company LLC	100%/Fee	646/493 752/66
	CNA Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/00
6) Q091960000	West Virginia Division of Natural Resources	Noble Energy, Inc.	Not less than 1/5	865/558
-1				
7)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
8) Q091960000	West Virginia Division of Natural Resources	Noble Energy, Inc.	Not less than 1/5	865/558
				-
9) Q076636014	Bruce Scott Schmitt and Jerri Marie Blaney	Noble Energy, Inc.	Not less than 1/8	806/335
Q076636015	Alan Gregory Schmitt and Linda Lee Schmitt	Noble Energy, Inc.	Not less than 1/8	808/315
Q076636016	Samuel O. Coen, Jr.	Noble Energy, Inc.	Not less than 1/8	813/255
Q076636004	Cynthia Jean Ward and Dale P. Ward	Noble Energy, Inc.	Not less than 1/8	816/261
0075506005	Mark Alan Delbrugge and Patricia A.			000/540
Q076636006	Delbrugge Walter L. Delbrugge, Jr. and Nora L.	Noble Energy, Inc.	Not less than 1/8	820/512
Q076636007	Delbrugge	Noble Energy, Inc.	Not less than 1/8	820/510
Q076636008	William D. Martin and Andrea R. Martin	Noble Energy, Inc.	Not less than 1/8	819/298
	Kimberly Ann DeCrease and Vincent J.			<u> </u>
Q076636009	DeCrease	Noble Energy, Inc.	Not less than 1/8	825/349
Q076636010	Suzanne Q. Pavlic	Noble Energy, Inc.	Not less than 1/8	825/262
0075535044	Margaret Lynn Watson and James W.	Nahla Saassu laa	Not less than 1/0	PDT /2C4
Q076636011 Q076636013	Watson Beatrice Schmitt	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	825/264 828/292
Q070030013	Beautice Scrimitt	Noble Effergy, Inc.	NOCIESS CIAIL 1/0	020/232
Q076636012	Jane Lou Williams and Laurence P. Williams	Noble Energy, Inc.	Not less than 1/8	825/289
	Consolidated Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
40)		0.00	400045	
10)	Consolidation Coal Company CNX Gas Company LLC	CNX Gas Company LLC Noble Energy, Inc.	100%/Fee 100%/Fee	646/493 752/66
	CIAN Gas Company LLC	Noble Energy, Inc.	100%/FEE	732/00
11) Q074011007	Susan Witten Neal Meyers AKA Susan Neal Ilfeld Meyeres, individually, and as Susan N. Meyers, Trustee of the Susan N. Meyers Revocable Trust	Noble Energy, Inc.	Not less than 1/8	789/538
Q074011001	Mary Witten Neal Wiseman FKA Mary Witten Neal	Noble Energy, Inc.	Not less than 1/8	789/564
Q074011009	Mary Witten Hart Ehlers	Noble Energy, Inc.	Not less than 1/8	789/552
Q074011004	Margery J. Witten	Noble Energy, Inc.	Not less than 1/8	789/543
Q074011003	Joseph Moore Neal	Noble Energy, Inc.	Not less than 1/8	789/545
Q074011008	Jane Witten Voth	Noble Energy, Inc.	Not less than 1/8	789/559
Q074011006	Prances Gale Neal Dorothy Ann Neal by her POA Jerry L.	Noble Energy, Inc.	Not less than 1/8	789/536
Q074011002 Q074011011	Berthold Donald R. Hart Jr.	Noble Energy, Inc. Noble Energy, Inc.	Not less than 1/8 Not less than 1/8	789/547 789/554
Q074011011 Q074011010	Cathy Hart Price	Noble Energy, Inc.	Not less than 1/8	789/534
Q074011005	Ann Alexander	Noble Energy, Inc.	Not less than 1/8	789/541
#239882-001	Jane R. Peterselm AKA Jane Peterseim	CNX Gas Company, LLC	Not less than 1/8	781/37
	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66 305
12)	Consolidation Coal Company	CNY Gas Company II C	1 44 · 1/2 · 1	EVE\V03
12)	Consolidation Coal Company CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	646/493 752/66
	CIVA Gas Company LLC	Intoble Ellergy, IIIC.	100%/ree	12400
13)	Consolidation Coal Company	CNX Gas Company LLC	100%/Fee	646/493
	CNX Gas Company LLC	Noble Energy, Inc.	100%/Fee	752/66
			MARINE	AND MARKETINES
14) Q076636001	George A. Knuth and Kelly A. Knuth	Noble Energy, Inc.	Not less than 1/8	803/608
0076626002	Deute Coatt Cohmitt and Josef Manie Di	Noble From 155	Not less than 1/8	806/335
Q076636002	Bruce Scott Schmitt and Jerri Marie Blaney	Noble Energy, Inc.	Liantiess might T/g	000/333

				1
Q076636003	Alan Gregory Schmitt and Linda Lee Schmitt	Noble Energy, Inc.	Not less than 1/8	808/315
Q076636004	Cynthia Jean Ward and Dale P. Ward	Noble Energy, Inc.	Not less than 1/8	816/261
Q076636005	Samuel O. Coen, Jr.	Noble Energy, Inc.	Not less than 1/8	813/255
	Mark Alan Delbrugge and Patricia A.	·		
Q076636006	Delbrugge	Noble Energy, Inc.	Not less than 1/8	820/512
-	Walter L. Delbrugge, Jr. and Nora L.			
Q076636007	Delbrugge	Noble Energy, Inc.	Not less than 1/8	820/510
Q076636008	William D. Martin and Andrea R. Martin	Noble Energy, Inc.	Not less than 1/8	819/298
	Kimberly Ann DeCrease and Vincent J.			
Q076636009	DeCrease	Noble Energy, Inc.	Not less than 1/8	825/349
Q076636010	Suzanne Q. Pavlic	Noble Energy, Inc.	Not less than 1/8	825/262
Q076636011	Jane Lou Williams and Laurence P. Williams	Noble Energy, Inc.	Not less than 1/8	825/289
	Margaret Lynn Watson and James W.			
Q076636012	Watson	Noble Energy, Inc.	Not less than 1/8	825/264
Q076636013	Beatrice J. Schmitt	Noble Energy, Inc.	Not less than 1/8	828/292



Office of Oil & Gas 601 57th street, SE Charleston, WV 25304-2345 October 5, 2016

Re: Drilling Under Roads

To Whom It May Concern:

Noble Energy, Inc. has the right to drill, stimulate and produce wells that are drilled under the County and State Roads as designated on the plats.

Should you have any questions or desire additional information, please do not hesitate to contact me at <u>dee.swiger@nblenergy.com</u> or 724-820-3061.

Dee Swiger

Sincerel

Regulatory Analyst, III

Office Office Gas

OCT 17 2015

WV Bayana A

WW-6RW (1-12)

API NO. 47		
OPERATOR WELL	NO.	MND 6 AHS-UHS
Well Pad Name:	MND 6	

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRON WELL LOCATION		-	
The well operator, Noble Energy, Inc. work. Please be advised that well work permits are			of West Virginia to conduct oil or gas well
Well Location Restrictions Pursuant to West Virginia Code § 22-6A-12(a), We any existing water well or developed spring used located within six hundred twenty-five feet of an oldered used to house or shelter dairy cattle or prodwellings or agricultural buildings that existed on provided in section ten of this article or a notice of article was provided, whichever occurs first, and to by written consent of the surface owner transmitticlerk of the county commission for the county in variance by the secretary from these distance restrior practices to be employed during well site const conditions the department requires to ensure the sainclude insurance, bonding and indemnification, as	for human or domestic occupied dwelling structualtry husbandry. This the date a notice to the intent to drill a horizon o any dwelling under co- ced to the department at which such property is tections upon submission truction, drilling and op- fety and protection of at well as technical require	animal consumpure, or a building isimitation is app surface owner or tal well as provide a struction prior tal recorded in the located. Further of a plan which erations. The verfected persons are ments.	ption. The center of well pads may not be g two thousand five hundred square feet or licable to those wells, developed springs, f planned entry for surveying or staking as led in subsection (b), section sixteen of this to that date. This limitation may be waived he real property records maintained by the more, the well operator may be granted a identifies the sufficient measures, facilities ariance, if granted, shall include terms and
	WAIVE	R	
I, Mary Ruckman , hereby state that I I provisions listed above, and that I have received co WW-6A and attachments consisting of pages one (required, and the well plat, all for proposed well we State: West Virginia	pies of a Notice of App 1) through ork on the tract of land a	lication, an Appli , including the e is follows:	ication for a Well Work Permit on Form rosion and sediment control plan, if
State: West Virginia County: Marshall		83 Easting: 83 Northing:	See attached See attached
District: Franklin	Public Road		CR 7/4 also known as Fish Creck Rd.
Quadrangle: Powhaten Point	Generally u	sed farm name:	Consol
Watershed: HUC 10 Fish Creek I further state that I have no objection to the plants	ad work decreibed in the	ce meteriale and	I have no objection to a negmit being
issued on those materials and I therefore waive all			
WELL SITE RESTRICTIONS BEING WAIVE *Please check all that apply EXISTING WATER WELLS DEVELOPED SPRINGS DWELLINGS AGRICULTURAL BUILDINGS	ZD	Signature: 47 Print Name: 12 Date: 9-24 FOR EXECUT	TION BY A NATURAL PERSON WAY FINCE TO ON A FINE TO ON TON BY A CORPORATION, ETC.
Well Operator: Noble Energy, Inc.	Signal	ure:	(4.5)
By: Andrew Melon		none: 774-87	20-3109
115: Somer Land Department			1
NOTARY SEAL	Ro	lney & &	Stothay of September Notary Public H. 2015
Off and Gas Privacy Notice: The Office of Oil and Gas processes your personal information may be disclosed to other State agor regulatory requirements, including Freedom of Info have any questions about our use or your personal information.	gencies or third parties in the mation Act requests. Our	dress and telephone the normal course of office will approper's Chief Privacy (of business or as needed to comply with statutory printely secure your personal information. If you officer at departure your personal information.
This document prepared by:		\(\frac{1}{2}\)	Jan Pest JARSHALL County 09:37:04 AN Instrument;Nov1351123 Date Recorded 1 Book-Page 807-347 Recording Fee \$5.00 Additional \$6.00
Noble Energy, Inc.			CONT. TRIMT 40.00

This document prepared by: Noble Energy, Inc. 333 Technology Drive Suit 116 Canonsburg, PA 15317

WW-6RW (1-12)

API NO. 47		
OPERATOR WELL	NO.	MND 6 AHS-UHS
Well Pad Name:	MND 6	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL LOCATION RESTRICTION WAIVER

WELL LOCKEL	OIA MEDIT	ucii	ON WAIVER	
The well operator, Noble Energy, Inc. work. Please be advised that well work permits are			of West Virginia to conduct oil or gas we	ell
Well Location Restrictions Pursuant to West Virginia Code § 22-6A-12(a), Vany existing water well or developed spring used located within six hundred twenty-five feet of an elarger used to house or shelter dairy cattle or powellings or agricultural buildings that existed on provided in section ten of this article or a notice of article was provided, whichever occurs first, and to by written consent of the surface owner transmitt clerk of the county commission for the county in variance by the secretary from these distance restrior practices to be employed during well site constrouditions the department requires to ensure the sainclude insurance, bonding and indemnification, as	for human or domestic a occupied dwelling structur ultry husbandry. This lin the date a notice to the standard in the date a notice to the standard on any dwelling under consisted to the department and which such property is 1 ictions upon submission o truction, drilling and oper fety and protection of affer	mimal consum re, or a buildin mitation is appurface owner o I well as provid truction prior to recorded in the faplan which ations. The vected persons as	ption. The center of well pads may not g two thousand five hundred square feet pticable to those wells, developed spring f planned entry for surveying or staking the did in subsection (b), section sixteen of the too that date. This limitation may be waiv ne real property records maintained by to proper, the well operator may be granted identifies the sufficient measures, facilities ariance, if granted, shall include terms as	be or gs, as his ed he l a ies
	WAIVER	t		
provisions listed above, and that I have received co WW-6A and attachments consisting of pages one (required, and the well plat, all for proposed well we State: West Viginia County: Marshaï District: Frankān Quadrangle: Powhaten Point	pies of a Notice of Applic 1) through ork on the tract of land as UTM NAD 8 UTM NAD 8 Public Road	ation, an Appl including the e follows: 3 Easting: 3 Northing:	srosion and sediment control plan, if See attached Gee attached CR 7/4 also known as Fish Creek Rd.	
Watershed: HUC 10 Fish Crock				
I further state that I have no objection to the planne issued on those materials and I therefore waive all WELL SITE RESTRICTIONS BEING WAIVE *Please check all that apply EXISTING WATER WELLS DEVELOPED SPRINGS DWELLINGS AGRICULTURAL BUILDINGS	well site restrictions listed ED S ED S E E E E E E E E E E E E E E E E E E E	I under West V FOR EXECUT Signature: Print Name: Date: 9/3 4/1 FOR EXECUT	Virginia Code § 22-6A-12(a). PION BY A NATURAL PERSON LHA Books a - Etha Ruckaa	*4
Well Operator: Noble Energy, Inc.	Signatu		-ale	
By: Andrew Mclain	Telepho	ne: <u>724-</u>	8,500 BIS	_
11s: <u>Semar Land Negotiatus</u>			/.	
NOTARY SEAL	Subscribed and swom b	X JV	26 th day of September Notary Public 24-2015	 c
Oil and Gas Privacy Notice: The Office of Oil and Gas processes your personal information may be disclosed to other State of or regulatory requirements, including Freedom of Info have any questions about our use or your personal information.	ormation, such as name, addi gencies or third parties in the armation Act requests. Our o	ress and telephon normal course of	ne number, as part of our regulatory duties. Y of business or as needed to comply with statu- priately secure your personal information. If	tory
			Jan Pest HAPSHALL Count 7 09:38:24 AM Instrument No 1351129 Date Recorded 10/23/2013 Document Type 0&6 Pases Recorded 1 Book-Pase 997-348 Recording Fee \$5.00	.

This document prepared by: Noble Energy, Inc. 333 Technology Drive Sult 116 Canonsburg, PA 15317 Additional \$6.00

Date of Notice Certification: 10-10-18

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

API No. 47- 051

-01762

			Operator's Well No. MND 6 DHS				
	500 Table	Well Pad N	Well Pad Name: MND 6				
Notice has l		22 (1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		State Nick Proceedings			
	tract of land as follows:	22-6A, the Operator has provided the rec	quired parties v	vith the Notice Forms listed			
State:	West Virginia	Easting:	517829.72				
County:	Marshall	UTM NAD 83 Rasting.	4407544.63				
District:	Franklin	Public Road Access:	CR 7/4-Fish Cree	ek Rd			
Quadrangle:	Powhatan Point	Generally used farm name:	Consol (now owned by	Murray American Energy DBA Consolidation Co			
Watershed:	Fish Creek Unidentified (HUC 10)						
it has provident information reof giving the requirements Virginia Code	ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface of subsection (b), section sixteen of	nall contain the following information: (14 bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the regree pursuant to subsection (a), section of this article were waived in writing by ender proof of and certify to the secretary t.	section (b), sec quirement was ten of this arti the surface ov	ction ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice wner; and Pursuant to Wes			
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY	erator has attached proof to this Notice C d parties with the following:	ertification	OOG OFFICE USE ONLY			
☐ I. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTOR		RECEIVED/ NOT REQUIRED			
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	TEY or NO PLAT SURVEY WAS CO	ONDUCTED	☐ RECEIVED			
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED			
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	CE OWNER				
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED			
■ 5. PUI	BLIC NOTICE			☐ RECEIVED			
■ 6. NO	TICE OF APPLICATION			☐ RECEIVED			

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Telephone:

Certification of Notice is hereby given:

THEREFORE, I Dee Swiger	have read and understand the notice requirements within West Virginia Code § 22-
6A. I certify that as required under West Virgini	a Code § 22-6A, I have served the attached copies of the Notice Forms, identified
above, to the required parties through personal s	service, by registered mail or by any method of delivery that requires a receipt or
signature confirmation. I certify under penalty of	law that I have personally examined and am familiar with the information submitted
in this Notice Certification and all attachments	, and that based on my inquiry of those individuals immediately responsible for
	mation is true, accurate and complete. I am aware that there are significant penalties
for submitting false information, including the pos	ssibility of fine and imprisonment.

Well Operator: Noble Energy, Inc.

By: Dee Swiger

Its: Regulatory Analyst, III

Address: 1000 Noble Energy Drive

Canonsburg, PA 15317 Facsimile: 724-820-3098

Email: dee.swiger@nblenergy.com

COMMONWEALTH BE FENNSYLVANIA

724-820-3000

Regina Logue, Notary Public
New Sewickley Twp., Beaver County
My Commission Expires July 7, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 10th day of oct. 2016.

Regina Loque

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A (9-13)

API NO. 47-051	- 01762
OPERATOR WELL	NO. MND 6 DHS
Well Pad Name: MN	D 6

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Noti	ce Time Requiren	ent: notice shall be provide	ed no later tha	n the filing date of permit application.	
	<u></u>	6 Date Permit Application	on Filed: <u>10/1</u>	4/2016	
Noti	ce of:				
V	PERMIT FOR AN			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method purs	uant to West Virginia Cod	e § 22-6A-10	(b)	
☐ PERSONAL ☐ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A			OD OF DELIVERY THAT REQUIRES A		
	SERVICE	MAIL	RECEI	PT OR SIGNATURE CONFIRMATION	
sedir the s oil ai description well important have prove proposubse recor prove Code	nent control plan recurrace of the tract or and gas leasehold being ribed in the erosion attor or lessee, in the ecoal seams; (4) The work, if the surface bundment or pit as done a water well, spring ide water for consumptions of the sheriff requision of this article to E. R. § 35-8-5.7.a reconstruction in the secons of the sheriff requision of this article to the sheriff requision of the sheriff requision of the sheriff requision of this article to the sheriff requision of the s	quired by section seven of this which the well is or is proposed and sediment control plan subsevent the tract of land on whe cover of record of the surferact is to be used for the placescribed in section nine of this or water supply source locate aption by humans or domesticity is to take place. (c)(1) If retion hold interests in the land uired to be maintained pursuant the contrary, notice to a lier quires, in part, that the operate	s article, and the seed to be local well work, if the britted pursual ich the well proace tract or tracement, constrais article; (5) A led within one canimals; and more than threels, the applicant ant to section en holder is not or shall also properties of the section of the	or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The sted; (2) The owners of record of the surface tract or the surface tract is to be used for roads or other land and to subsection (c), section seven of this article; (3) roposed to be drilled is located [sic] is known to be understood overlying the oil and gas leasehold being develop function, enlargement, alteration, repair, removal or about any surface owner or water purveyor who is known to thousand five hundred feet of the center of the well person (6) The operator of any natural gas storage field with the tenants in common or other co-owners of interests of the may serve the documents required upon the person reight, article one, chapter eleven-a of this code. (2) No notice to a landowner, unless the lien holder is the large provided in section 15 of this rule.	owners of record of tracts overlying the disturbance as. The coal owner, inderlain by one or ed by the proposed andonment of any of the applicant to ead which is used to min which the described in described in the otwithstanding any indowner. W. Va.
☑ A	pplication Notice	☑ WSSP Notice ☑ E&S	Plan Notice	☑ Well Plat Notice is hereby provided to:	
⊡ SU	JRFACE OWNER	s) ,		☑ COAL OWNER OR LESSEE	
Nam	e: Consolidation Coal Co	mpany (Jason Witt/Alex O'Neill)		Name: Murray American Energy, Inc.	_
Add	ress: 46226 National Ro	ad		Address: 46226 National Road	_
	airsville, OH 43950			St. Clairsville, OH 43950	_
Nam	e: Kevin E. and Teresa I	#cGilton		☑ COAL OPERATOR	
Add	ress: 1704 2nd Street			Name: Same as Above	_
	dsville, WV 26041-1534			Address: Office	_
		s) (Road and/or Other Distu	ırbance)		_
	e: See attached list			☑ SURFACE OWNER OF WATER WELL	
Add	ress:			AND/OR WATER PURVEYOR(s)	a
				Name: See Attached List	_
Nam	ie:			Address:	_
Add	ress:			E	
				OPERATOR OF ANY NATURAL GAS STO	
_		s) (Impoundments or Pits)		Name:	_
				Address:	
Add	ress:				-02/10/2017
	43.35			*Please attach additional forms if necessary	

WW-6A (8-13)

API NO. 47-051 - 01762

OPERATOR WELL NO. MND 6 DHS

Well Pad Name: MND 6

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47- 051 - 01762

OPERATOR WELL NO. MND 6 DHS

Well Pad Name: MND 6

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary, (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they related to well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47-051 - 01762 OPERATOR WELL NO. MND 6 DHS

Well Pad Name: MND 6

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective:
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.



WW-6A (8-13)

API NO. 47-051 - 01762 OPERATOR WELL NO. MND 6 DHS Well Pad Name: MND 6

Notice is hereby given by:

Well Operator: Noble Energy, Inc.

Telephone: 724-820-3061

Email: dee.swiger@nblenergyinc.com

Address: 1000 Noble Energy Drive

Canonsburg, PA 15317

Facsimile: 724-820-3098

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Regina Logue, Notary Public New Sewickley Twp., Beaver County My Commission Expires July 7, 2018

Subscribed and sworn before me this loth day of Oct , 2016

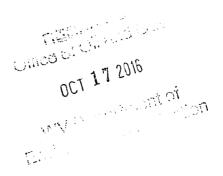
Notary Public

My Commission Expires Quel

Additional Surface owners on MND 06:

Gloria Jean White PO Box 162 Proctor, WV 26055

James B, Midcap 1701 Fish Creek Road Proctor, WV 26055



MND 6 HHS Pad Water Well and Spring Owners within 1500'.

John David Fromhart 1619 Fish Creek Rd. Proctor, WV 26055

James B. Midcap, Et Ux 1701 Fish Creek Rd. Proctor, WV 26055

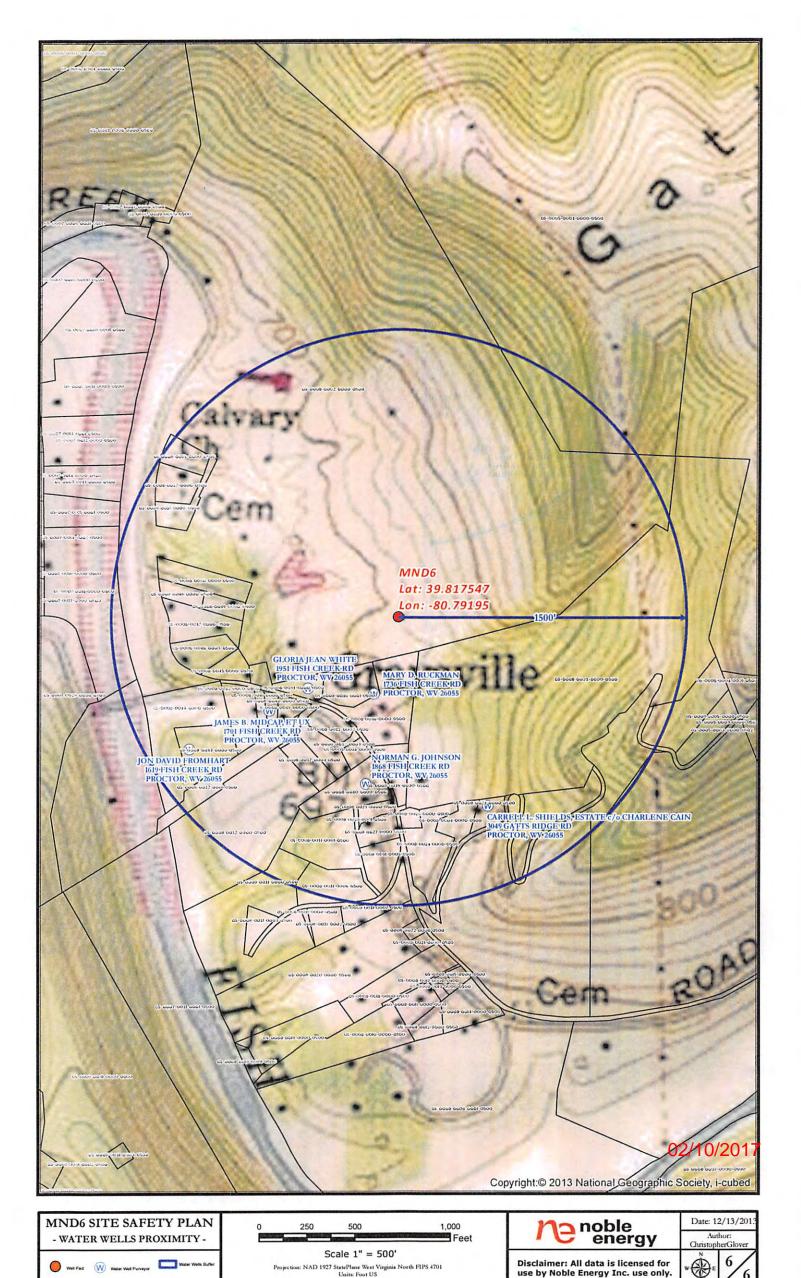
Gloria Jean White P.O. Box 162 Proctor, WV 26055

Mary D. Ruckman 1736 Fish Creek Rd. Proctor, WV 26055

Carrell L. Sheilds, Estate c/o Charlene Cain 3049 Gatts Ridge Rd. Proctor, WV 26055

Norman G. Johnson 1868 Fish Creek Rd. Proctor, WV 26055

Office OCT 17 2015



WW-6A3 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Re entry	quirement: Notice shall be pro	wided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to		
only Date of Notice:	10/16/2013 Date of Pl	inned Entry: 10/28/2013		
clivery metho	d pursuant to West Virginia	Codé § 22-6A-10a		
•		■ METHOD OF DELIVERY THAT REQUIRES A		
	MAIL	RECEIPT OR SIGNATURE CONFIRMATION		
n to the surface ut no more that eneath such tra wher of miners and Sediment C ecretary, which mable the surfa- Notice is hereb SURFACE Vame: Consolida	it Virginia Code § 22-6A-10(a), tract to conduct any plat surve in forty-five days prior to such each that has filed a declaration pals underlying such tract in the control Manual and the statutes in statement shall include contact owner to obtain copies from my provided to: COWNER(s)	Prior to filing a permit application, the operator shall provide notice of planned entry ys required pursuant to this article. Such notice shall be provided at least seven days notice to the surface owner of such tract; (2) to any owner or lessee of coal seams presuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any county tax records. The notice shall include a statement that copies of the state Erosion and rules related to oil and gas exploration and production may be obtained from the trinformation, including the address for a web page on the Secretary's web site, to the secretary. COAL OWNER OR LESSEE Name: Consolidated Coal Company Address: 1000 Censol Energy Drive		
Address: 1000 Cornet Energy Drive Canonaburg, PA 15317-6506		Canonaburg, PA 15317-8506		
Vame: Kevin E	and Teresa McGilton	E A TOTAL ORDERA		
Address: 1704	2nd Street	MINERAL OWNER(5)		
W. elivebruok	26041-1534	Name: CNX Gas Company, LLC Address: 1000 Consol Energy Drive		
		Connectors BA 19317-850B		
Name: Address:		Canonaburg, PA 15317-8508 *please attach additional forms if necessary		
Notice is her Pursuant to We a plat survey of State: County: District: Quadrangle:	est Virginia Code § 22-6A-10(a n the tract of land as follows: West Virginia Marshall Franklin Powhatan Point	Canonaburg, PA 15317-8508 *please struch additional forms if necessary), notice is hereby given that the undersigned well operator is planning entry to conduct Approx. Latitude & Longitude: 35.817899 -80.791876 NAD 83 Public Road Access: CR 7/4-Fish Creek Rd Watershed: Fish Creek Undefined (HUC 10) Generally used farm name: Consol		
Notice is her Pursuant to We a plat survey of State: County: District: Quadrangle: Copies of the may be obtain Charleston, We obtained from	est Virginia Code § 22-6A-10(a n the tract of land as follows: West Virginia Marshall Franklin Powhatan Point state Erosion and Sediment Cor ed from the Secretary, at the W	Canonaburg, PA 15317-8508 *please attach additional forms if necessary), notice is hereby given that the undersigned well operator is planning entry to conduct Approx. Latitude & Longitude: 35.817899 -60.791876 NAD 83 Public Road Access: CR 7/4-Fish Creek Rd Watershed: Fish Creek Undefined (HUC 10)		

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wy.gov.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Re			
Date of Notice:	quirement: Notice shall be provided at lo	ast TEN (10) days prior to filing a it Application Filed:	permit application.
Delivery method	d pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND DELIVERY	CERTIFIED MAIL RETURN RECEIPT REQU	ESTED	
receipt requested drilling a horizon of this subsection subsection may l and if available,	or hand delivery, give the surface owner and well: Provided, That notice given pure as of the date the notice was provided to be waived in writing by the surface owner facsimile number and electronic mail add	notice of its intent to enter upon in instinut to subsection (a), section tent the surface owner. Provided, how the notice, if required, shall incharges of the operator and the operator.	an operator shall, by certified mail return he surface owner's land for the purpose of n of this article satisfies the requirements never. That the notice requirements of this ude the name, address, telephone number, r's authorized representative.
Notice is here!	y provided to the SURFACE OWN	ER(5):	
Name: Consolidat	on Coal Company	Name:	
Address: 462261		Address:	
Saint Clairsville, O	H 43850		
Notice is here! Pursuant to Wes the surface own	a Virginia Code § 22-6A-16(b), notice is a 's land for the purpose of drilling a horiz	contai well on the tract of hand as to	well operator has an intent to enter upon illows:
County: N	kest Virginia Iarahali	- UTM NAD 83 Fasting: Northing:	517842.88 4407548.45 CR 7/4-Fish Creek Rd
County: No Financial County: N	larshafi ranktin	- UTM NAD 83 Rasting: Northing: Public Road Access:	4407548.45 CR 7/4-Fish Creek Rd
County: MEDistrict: Fundamental Policy Polic	larshall ranktin owahatan Point	- UTM NAD 83 Fasting: Northing:	4407548.45
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile number	larshall ranklin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this ner and electronic mail address of the op	Public Road Access: Generally used farm name: ortice shall include the name, additerator and the operator's authorize are the WV Department of the WV Depar	4407548.45 CR 7/4-Fish Creek Rd
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile numbrelated to horizated at 601 S. Notice is here	larshall ranktin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this act and electronic mail address of the opental drilling may be obtained from the \$7 th Street, SE, Charleston, WV 25304 (30) by given by:	Public Road Access: Generally used farm name: otice shall include the name, additerator and the operator's authorized Secretary, at the WV Department of 14-926-0450) or by visiting www.de	4407548.46 CR 7/4-Fish Creek Rd Consol ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx.
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile numbrelated to horizulocated at 601 S. Notice is here Well Operator:	larshall ranktin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this neer and electronic mail address of the opental drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (30 by given by: Noble Energy, Inc.	Public Road Access: Generally used farm name: otice shall include the name, additerator and the operator's authorized Secretary, at the WV Department of the 14-926-0450 or by visiting www.de	4407548.46 CR 7/4-Fish Creek Rd Consol ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx.
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile numbrelated to horizulocated at 601 S. Notice is here Well Operator: Address:	larshall ranktin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this neer and electronic mail address of the opental drilling may be obtained from the \$7° Street, SE, Charleston, WV 25304 (30° by given by: Noble Energy, Inc. 333 Technology Dr. State 118	Public Road Access: Generally used farm name: otice shall include the name, additerator and the operator's authorized Representative: Authorized Representative: Address:	4407548.46 CR 7/4-Fish Creek Rd Consol ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx.
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile numbrelated to horizolocated at 601 S. Notice is here Well Operator: Address: Canonsburg, PA	larshall renktin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this re- er and electronic mail address of the op- ontal drilling may be obtained from the \$ 7th Street, SE, Charleston, WV 25304 (30 by given by: Noble Energy, Inc. 333 Technology Dr. Susta 118	Public Road Access: Generally used farm name: otice shall include the name, additerator and the operator's authorized Secretary, at the WV Department of the public Representative Address: Charleston, WV 25320	4407548.45 CR 7/4-Fish Creek Rd Consol ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx. Laura L. Adkina 1912 Pinewbood Dr.
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile numbrelated to horize located at 601 S. Notice is here Well Operator: Address: Canonsburg, PA Telephone:	larshall ranktin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this re- er and electronic mail address of the op- ontal drilling may be obtained from the \$ 7th Street, SE, Charleston, WV 25304 (30 by given by: Noble Energy, Inc. 333 Technology Dr. Susta 118 15317 412-841-9587	Public Road Access: Generally used farm name: ortice shall include the name, additector and the operator's authorized Secretary, at the WV Department of 14-926-0450) or by visiting www.de Authorized Representative: Address: Charleston, WV 25320 Telephone:	4407548.45 CR 7/4-Fish Creek Rd Consol ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx. Laura L Adkina 1912 Pinewood Dr. 412-841-9567
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile numbrelated to horize located at 601 S. Notice is here Well Operator: Address: Canonsburg, PA Telephone: Email:	larshall renktin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this re- er and electronic mail address of the op- ontal drilling may be obtained from the \$ 7th Street, SE, Charleston, WV 25304 (30 by given by: Noble Energy, Inc. 333 Technology Dr. Susta 118	Public Road Access: Generally used farm name: ortice shall include the name, additerator and the operator's authorized Secretary, at the WV Department of 14-926-0450) or by visiting www.de Authorized Representative Address: Charleston, WV 25320 Telephone: Email:	4407548.45 CR 7/4-Fish Creek Rd Consol ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx. Laura L. Adkina 1912 Pinewbood Dr.
County: M. District: F. Quadrangle: P. Watershed: F. This Notice SI Pursuant to We facsimile numbrelated to horize located at 601 5. Notice is here Well Operator: Address: Canonsburg, PA Telephone:	larshall ranktin rowahatan Point ish Creek HUC 10 hall Include: st Virginia Code § 22-6A-16(b), this re- er and electronic mail address of the op- ontal drilling may be obtained from the \$ 7th Street, SE, Charleston, WV 25304 (30 by given by: Noble Energy, Inc. 333 Technology Dr. Susta 118 15317 412-841-9587	Public Road Access: Generally used farm name: ortice shall include the name, additector and the operator's authorized Secretary, at the WV Department of 14-926-0450) or by visiting www.de Authorized Representative: Address: Charleston, WV 25320 Telephone:	4407548.45 CR 7/4-Fish Creek Rd Consol ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx. Laura L Adkina 1912 Pinewood Dr. 412-841-9567

Oil and Gas Privacy Notice:

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WW-6A5 (1/12)

Operator Well No. MND 6 DHS

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

oble Energy, Inc. 24-820-3000 e.swiger@nblenergy.com	=	Address:	1000 Noble Energy Canonsburg, PA 724-820-3098	
oble Energy, Inc.		Address:		
SPA.		3.0		
W. Va. Code § 22-6A-10(b) to d (3) A proposed surface use any oil and gas operations to the el- d to horizontal drilling may be	a surface d compensa- extent the da obtained fro	owner whose tion agreeme images are co om the Secret	e land will be un nt containing ar ompensable und ary, at the WV	used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Creek Unidentified (HUC 10)		2.00 - 3.5 (D		
natan Point				Consol (now owned by Murray American Energy DBA Consolidation Coal
		Public Road		CR 7/4-Fish Creek Rd
		UTM NAD 8	4	4407544.63
urface owner's land for the purpo			I well on the tra	
50		Moundsv	ille, WV 26041-1534	
		Name:		Mc Gilton
ested or hand delivery, give the stion. The notice required by the rided by subsection (b), section to the total well; and (3) A proposed face affected by oil and gas open	surface owners is subsection en of this art surface use rations to the	er whose land n shall includicted to a surfa and compense extent the da	I will be used for de: (1) A copy ace owner whost ation agreement amages are com	or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter.
MAIL ECEIPT REQUESTED				
oursuant to West Virginia Cod	le § 22-6A-1	6(c)		
E Lety of I	MAIL ECEIPT REQUESTED Code § 22-6A-16(c), no later ested or hand delivery, give the sion. The notice required by the ided by subsection (b), section to that well; and (3) A proposed face affected by oil and gas oper uired by this section shall be given to the section of the sheriff at the Energy, Inc. Tal Road Tirginia Code § 22-6A-16(c), not urface owner's land for the purpovirginia The code § 22-6A-16(c), the code § 22-6A-16(c), the w. Va. Code § 22-6A-10(b) to d (3) A proposed surface use and oil and gas operations to the end oil and gas operations to the end oil and gas operations to the end of the horizontal drilling may be	MAIL HAND ECEIPT REQUESTED DELIV Code § 22-6A-16(c), no later than the datested or hand delivery, give the surface owner ion. The notice required by this subsection ided by subsection (b), section ten of this arrontal well; and (3) A proposed surface use face affected by oil and gas operations to the uired by this section shall be given to the surface by this section shall be given to the surface owner's land for the purpose of drilling the land and latin attan Point Creek Unidentified (HUC 10) Include: Virginia Code § 22-6A-16(c), this notice shall w. Va. Code § 22-6A-10(b) to a surface of land gas operations to the extent the date of land gas operations to the extent the date of land gas operations to the extent the date of land gas operations to the extent the date of land gas operations to the extent the date of land gas operations to the extent the date of the horizontal drilling may be obtained from	MAIL HAND ECEIPT REQUESTED DELIVERY Code § 22-6A-16(c), no later than the date for filing the sted or hand delivery, give the surface owner whose land included by subsection (b), section ten of this article to a surface affected by oil and gas operations to the extent the date in the date for filing the sted or hand delivery, give the surface owner whose land included by subsection (b), section ten of this article to a surface affected by oil and gas operations to the extent the date included by this section shall be given to the surface owner are rovided to the SURFACE OWNER(s) do in the records of the sheriff at the time of notice): Name: Interest, Inc. Name: Interest,	MAIL

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

Reissued October 5, 2016

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the MND-6 Well Site, Marshall County

Dear Mr. Martin,

Earl Ray Tomblin

Governor

The West Virginia Division of Highways has issued Permit #06-2013-0529 for the subject site to Noble Energy, Inc. for access to the State Road for the well site located off of Marshall County Route 74 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton
Regional Maintenance Engineer
Central Office Oil &Gas Coordinator

Cc: James L. McCune Noble Energy, Inc. CH, OM, D-6 File

Hydraulic Fracturing Fluid Product Component Information Disclosure Hydraulic Fracturing Fluid Composition:

Trade Name Supplier		Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	
Fresh Water	Operator				100.00%	
HYDROCHLORIC ACID 5-10%	Halliburton		Hydrochloric acid	7647-01-0	10.00%	
SAND - COMMON WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30.00%	
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium 81741-28-8		10.00%	
Scalechek® LP-65 Scale Inhibitor	Halliburton	Scale Inhibitor	Ammonium chloride	12125-02-9	10.00%	
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60.00%	
			Naphtha, hydrotreated heavy	64742-48-9	60.00%	
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100.00%	
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60.00%	
			Propargyl alcohol	107-19-7	10.00%	
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Acetic acid	64-19-7	60.00%	
			Acetic anhydride	108-24-7	100.00%	
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1.00%	
Para territoria			Ethanol	64-17-5	60.00%	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00%	
			Naphthalene	91-20-3	5.00%	
			Poly(oxy-1,2-ethanediyl), alpha-(4- nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00%	
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100.00%	
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100.00%	

^{*} Total Water Volume sources may include fresh water, produced water, and/or recycled water

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and

^{**} Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

API#51-01746 API#51-01744 API#51-01745 API#51-01762 API#51-01765 API#51-01761 API#51-01763

WVDEP OOG **ACCEPTED AS-BUILT**

11/21/2016

GENERAL NOTES

- DE TOPOGRAPHO BRIVEY UTLIFED FOR THE BASE WAPPING HAS PERFORMED BY RETTEN ASSECTATES, INC. IN SUPERMER DOLD
- PROPERTY SCHADARCY, LANDOWNER WEDGENATION AND ROAD METHORICS SHOWN ON PLAN ARE SHEED ON AVAILABLE COLDING OF PARCIAL DATA.
- 1 CHITNE STREET, MEZ LINES AND MORPHATE HAVE BEEN LUCARLY MEN AVAILABLE DRAINS AFRE, PHOTOGRAPHY

- CONTRACTOR'S RESPONDBUTY TO WHEY THE EVALUATION RESPONDED IN NOTIFYING MISS STREET OF REST VIRGINIA AT 1 800 245 4848.

- IN CONTRACTOR SHALL VERBY ALL DIMENSIONS ON THE PROJECT SITE INNOH TO THE STAYL OF CONSTRUCTOR

- IT CONTRACTOR MAY MOEN ACCESS HOAD DUE TO STEEP SLOPES & DEFINED NECESSARY AND MEN APPROVAL BY THE ORIGINAL HOUSESTARY AND ENGINEER
- THE PROPOSED ROOF CONSTRUCTION ENGLANCE TO HE HALF SUCH \$1.47 HENGET FROM PROPOSED ACCESS WILL NOT SHEET FLOW ON TO PUBLIC ROAD.
- 1/ SEED AND MICHAEL DISTURDED AREAS FOR DETAILS IN THIS PLAN.
- IN AL ILEANED THE CHNONES SHALL BE PLACED ON LIMIL SEE OF COMPOST FLYIR BOOKS. AND NOT STOCKPLES ON-SIZE.
- 20 NO MORE SHALL BE DONE DUTBUE THE LANTS OF DISTURBANCE OR IN PROTECTED MICHAE

DIRECTIONS TO THE SITE

CUT & FILL

	WELL PAGE	ACCESS SEVE	TOTAL SITE
CUT	+57.253 C.F	4 5,241 C.Y.	462.491 C+
51046	- 3710 CE	4 5450 C.Y	- A.305 C.Y
TILL.	+37.190 C.Y	-15.459 C.Y	-52.641 CY
THE DOMPACTION	- 5.725 C *	524 C. F.	6,240 C.Y.
(PSR.	- 5.357.CF	- 1.9'4 CY.	- 7.301 C.r.
NETT	-12.087 C.F	-12.067 C €	7.20

EROSION & SEDIMENT CONTROL PLAN FOR

MND 6 WELL PAD FRANKLIN DISTRICT, MARSHALL COUNTY, WV





YOU DIG!

Dial 811 or 800.245.4848

AT LEAST HE HOLES, BUT NOT MORE THAN IC SOMERNO DAYS CIVIL.
ADDRESSOS AND HOLDOAYS, FRICE TO 10 STAPPED ANY LARTH DESIGN.
ACTIVITIES, ALL CONTRACTORS SPECIAL TO 10 STAPPED ANY LARTH DESIGN.
MASS LITELY OF MICE STAPPED AND CONTRACTORS SPAIN.
TOWN F. \$1,3566/SEREY STAPPED AND CONTRACTORS.

SOILS CLASSIFICATION

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LIST OF DRAWINGS

COVER SHEET
DIMPONIENTAL RESOURCES BUTTEN FLAN
LIAYOUT FLAN
LROSCH & SIDMENT CONTROL PLAN
ACCESS ORIVE PROPIES

DISTURBANCE SUMMARY

MODIFICATION

DATE: OCTOBER 10, 2016

△ THESE DRAWINGS PROVIDE A REVISED SITE RESTORATION PLAN FOR THE MND 6 WELL PAD AND ACCESS ROAD AND INCORPORATE THE AS-BUILT WELL PAD AND ACCESS ROAD DATA

Electronic Version of These Plans May Be Viewed at: Q\OIL GAS\SAY FILES\REVIEWS

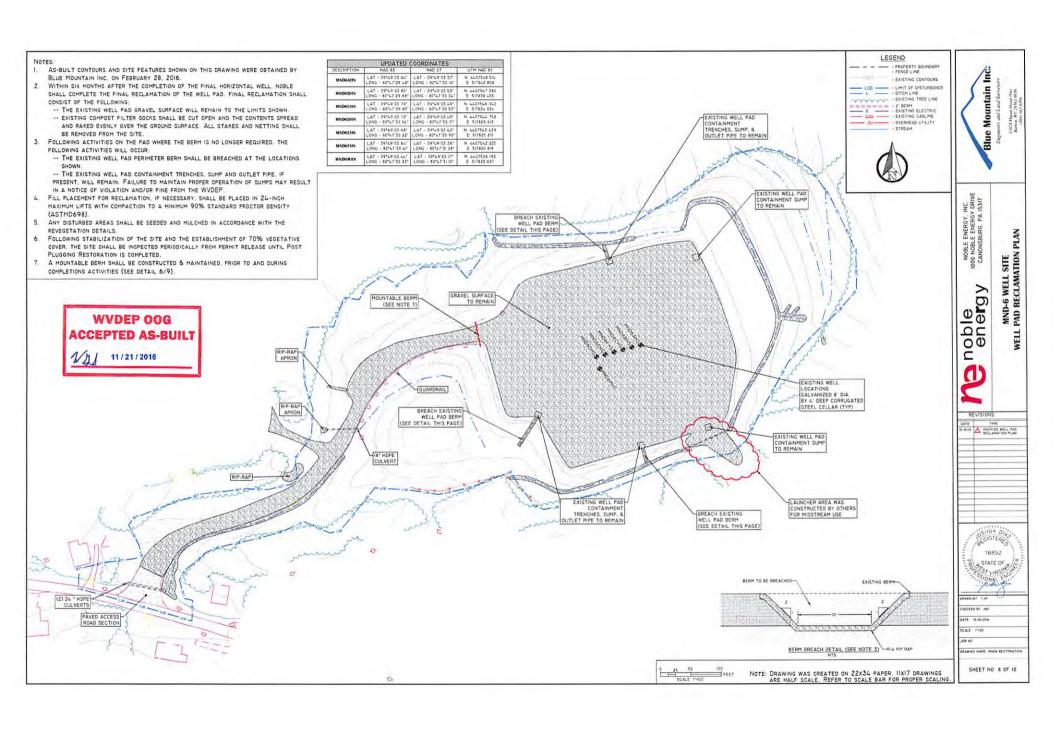
A SE

noble

PAD WELL

9 MND

DATE 3/5/2014 S-EET NO _ 1 OF _10 DWG NG 093842010





LOCATION MAP

PROPERTY OWNERS

I. CONSOLIDATION COAL COMPANY 05-08-02 1000 CONSOL ENERGY DR CANONSBURG, PA 15317

> Office of Oil a was OCT 17 2016



NOBLE ENERGY, INC. 333 TECHNOLOGY DRIVE, SUITE 116 CANONSBURG, PA 15317 TEL: (724) 820-3000

MND6 WELL SITE

WELL SITE LOCATION

NAD 83 - LAT: N 39°49'03.769"; LONG: W 80°47'29.802" NAD 27 - LAT: N 39°49'03.496"; LONG: W 80°47'30.478"

ENTRANCE LOCATION

NAD 83 - LAT: N 39°48'59.549": LONG: W 80°47'39.884" NAD 27 - LAT: N 39°48'59.276"; LONG: W 80°47'40.559"

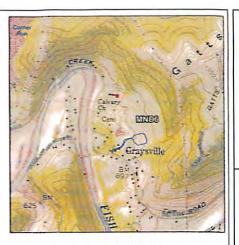
> POWHATAN POINT QUADRANGLE MARSHALL COUNTY, WEST VIRGINIA DATE: NOVEMBER 12, 2014



Engineers and Land Surveyors

11023 Mason Dixon Hwy. Burton, WV 26562-9656 (304) 662-6486

NOTE: DRAWING WAS CREATED ON 22X34 PAPER, 11X17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.



ATAN POINT 7.5M USGS QUADE

SHEET INDEX			
DRAWING NUMBER	DRAWING NAME		
1	COVER SHEET		
2	AS-BUILT CONDITIONS PLAN		
3	AS-BUILT CONDITIONS PLAN W/ ORTHO		

Ne noble

MND6 WELL PAD BUILT COVER SHEET

REVISIONS

1267-15 MAWING NAME MNDS_COMPLETE_ASSULT DWG

SHEET I OF 3