

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

September 30, 2015

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-5101864, issued to NOBLE ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: MND I HHS

Farm Name: CONSOLIDATION COAL COMPA

API Well Number: 47-5101864

Permit Type: Horizontal 6A Well

Date Issued: 09/30/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well.
 Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

Washington, PA 15301 724-222-3272

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

10/02/2015

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



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WW-6B (04/15)

API NO. 47051		
OPERATOR WELL	NO.	MND 1 HHS
Well Pad Name:	MND	1

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

1) Well Operator: Noble Energ	gy, Inc.	494501907	051-Marshall	Clay	Powhatan Point
ş		Operator ID	County	District	Quadrangle
2) Operator's Well Number: MN	ID 1 HHS	Well Pac	d Name: MNI	0 1	
3) Farm Name/Surface Owner:	Murray Energy Corporation (form	Public Roa	d Access: Cou	ınty Highw	ay 88/8
4) Elevation, current ground:	1152.08' E	levation, proposed	post-constructi	on: 1152.0	08'
5) Well Type (a) Gas X	Oil	Unde	erground Storag	ge	
Other					
(b)If Gas Shall	llow X	Deep			
Hor	izontal X		X	7/2	3/15
6) Existing Pad: Yes or No Yes	- See attached	as built	05	1/6	
 Proposed Target Formation(s) Marcellus 6315 - 6370' / 55 	S (#1 30.747.S	<u>*</u>	and Expected Pr	ressure(s):	
8) Proposed Total Vertical Depth	n: 6,360'				
9) Formation at Total Vertical D	W11 W11 TO 1990 NO. 94 W10 TO	S			
10) Proposed Total Measured De	epth: 15,885'				
11) Proposed Horizontal Leg Le	ngth: 8,052'				_
12) Approximate Fresh Water St	rata Depths:	521', 801', 898',	947'		
13) Method to Determine Fresh	Water Depths:	Nearest offset we	II		
14) Approximate Saltwater Dept	hs: None				
15) Approximate Coal Seam Dep	oths: 687'-697'				
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	None anticipate	d, drilling in	pillar - maps attached
17) Does Proposed well location directly overlying or adjacent to		ms Yes X	No	(
(a) If Yes, provide Mine Info:	Name: wells	s are located in al	oandoned area	a of MC EI	roy Mine
The second transfer of	Depth: 692'	to seam base			
		burgh #8			ed cas
		sol Mining Compa	any, LLC	Receiv	il & Gar
			C	office of	3 5012

WW-6B (04/15)

API NO. 47- 051 -		
OPERATOR WELL	NO.	MND 1 HHS
Well Pad Name:	MND	1

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	LS	94	40'	40'	Surface to TD
Fresh Water	13 3/8"	New	J-55	54.5	1097'	1097'	CTS
Coal	13 3/8"	New	J-55	54.5	1097'	1097'	CTS
Intermediate	9 5/8"	New	HCK55	36.0	2437'	2437	CTS
Production	5 1/2"	New	P-110	20.0	15,885'	15,885'	10% excess Yield = 1.32 TOC=200' above 9.625 shoe
Tubing							
Liners							

Ju 1/25/15

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	0.438			Type III	Surface to TD
Fresh Water	13 3/8"	17.5"	0.380	2730		Class A	30% excess Yield =1.18
Coal	13 3/8"	17.5"	0.380	2730		Class A	30% excess Yield =1.18
Intermediate	9 5/8"	12.38"	0.325	3520	1/0 0/00	Class A	30% excess Yield =1 18 to surface
Production	5 1/2"	8.75"-8.5"	0.361	12,640	13,000	Class A/POZ	10% excess Yield = 1.32 TOC=200' above 9.625" sho
Tubing							
Liners							

0/30/15

PACKERS

es beu
Office of Oil & Gas

WW-6B (12/14)

API NO. 47- 051		
OPERATOR WELL	NO. MND 1 HHS	
Well Pad Name:	MND 1	

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6360 feet. Drill Horizontal leg - stimulate and produce the Marcellus Formation. Should we encounter formation issues, set the 13 3/8 into next competent formation but not deeper than elevation. Should we encounter a unanticipated void we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. The maximum pressure is not to exceed 10,000 psi and the maximum rate will not exceed 90 bpm.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.0
- 22) Area to be disturbed for well pad only, less access road (acres): 7.6

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 two joints then every third joint to 100' from surface. Intermediate casing will have bow spring centralizers every third joint to 100' from surface. Production casing will have Rigid bow spring every third joint from KOP to TOC. Rigid bow spring every joint to KOP.

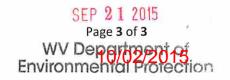
24) Describe all cement additives associated with each cement type:

Conductor- Type III *Surface and Coal- 15.6 ppg Class A +2% CaCl (CA-100), 0.25# Lost Circ (CLC-CPF)30% Excess Yield =1.18 To surface. Intermediate 15.6 ppg Class A +2% CaCl, 0.25# Lost Circ 30% excess yield =1.18 to surface. Production 14.5ppg 75/25 Class A/Poz +/-0.4% fluid Loss additive, +/-0.4% retarder, +/-0.5% dispersant, +/-0.2% anti-foam, +/- 2% extender, 10% excess Yield = 1.32 TOC>=200' above 9.625" shoe.

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing is run in air. Apart from insuring the hole is clean via air circulation at TD, there are no other conditioning procedures. Fresh Water/Surface -The hole is drilled w/air and casing is run in air. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate - Once surface casing is set and cemented Intermediate hole is drilled either on air or SOBM and filled w/ KCl water once filled w/ KCl water once drilled to TD. The well is conditioned with KCl circulation prior to running casing. Once casing is at setting depth, the well is circulated a minimum of one hole volume prior to pumping cement. Production - The hole is drilled with synthetic oil base mud and once at TD the hole is circulated at maximum allowable drilling pump rate for at least 6X bottoms up. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.



	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
		William, Haire	7732-18-5
			7647-14-5
CLC-CPF (Cellophane Flakes)	Lost Circulation Aid	White and colored flake	Non-Hazardous

Received Gas
Office of Oil & Gas

4705101864

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		10111 1011 1011 1011 10111 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 101								×	**************************************		144448 14444 1444 14444 14444 14444 14444 14444 14444 14444 14444 14444 14444 1444 1444 14444 14444 14444 14444 14444 14444 14444 14444 14444 14444 14446 14444 14444 14444 14444 14444 14444 14444 14444 14444 14444 14			×		12000			×	201110 20110	× ×	******	×			46.	WELLBORE DIAGRAM	Azm	Ground Elevation				5
	LP @ 6360' TVD /	S		8.75" - 8.5" Lateral				Neconomic Services	8.75 -8.5 Curve) 1 1 1 1				0.10	8 75" Vertical				12 3/8					17 1/2			26	99	HOLE		7			T)
X		Š						XPBIC	HCP-110	20#								0	9-5/8" 36#					J-55 BTC	13-3/8" 54.5#		20" 94#		CASING	325°	1152'		(
100 100 100 100 100 100 100 100 100 100		×	Onondaga	TD	Marcellus	Hamilton	Tully Limestone	Burkett	West River	Middlesex	Cashaqua	Rheinstreet	Angola	Pipe Creek	Java	Speechley	Int Casing		Price Formation	Big Injun	Big Lime	Int. Casing	Pittsburgh Coal				Conductor		GEOLOGY				0	90	
X	.5 Hole -	λ	6370	15885	6315	6280	6256	6231	6170	6147	6075	5754	5172	5085	4990	3439	2437		2137	2024	1908	1097	687				40		TOP						
	8.75 / 8.5 Hole - Cemented Long String 5-1/2" 20# HCP-110 TXP BTC			6360	6370	6315	6280	6256	6231	6170	6147	6075	5754	5172	5085	3485	2437		2652	2137	2024	1097	697				40		воттом	MND-1	MND-	MND-1			
X	ong String BTC	Χ		SOBM					SOBM					SOBM	Air or				SOBM				Mud	Based	Air or Fresh		AIR		MUD	MND-1H BHL	MND-1H LP (H SHL (
	tring				above 9.625" shoe	TOC >= 200'	Tield-1.32	10% Excess	exterior	antifoam, +/- 2%	dispersant, +/-0.2%	additive, +/-0.4%	+/-0.4% fluid Loss	75/25 Class A/Poz			10 Sulface	Yield = 1.18	30% Excess	+ 2% CaCl, 0.25# Lost	15.6 ppg Class A		To Surface	30% Excess Yield = 1.18	+ 2% CaCl, 0.25# Lost Circ	15.6 ppg Class A	Type III Surface to TD		CEMENT	(Lat/Long)	(Lat/Long)	MND-1H SHL (Lat/Long)			
	+/-	N. C.					joint to KOP	Rigid Bow Spring every						TOC	third joint from KOP to			leet from surface.	every third joint to 100'				Surface	joint to 100' form	Bow Spring on first 2 joints then every third		N/A		CENTRALIZERS	(50263	(4960)	(49419	Marshall County, WV	Macellus Shal	DRILLING W
×	+/-8052' ft Lateral						bamping comens		casing, circulate a minimum	at least 6x bottoms up.	max allowable pump rate for	Once at TD_circulate at						pumping cement.	of one hole volume prior to	Once casing is at setting			pumping cement.	of one hole volume prior to	Fill with <3% KCl water once casing is at setting death circulate a minimum		TD.	Ensure the hole is clean at	CONDITIONING	(502630.83N, 1639947.18E) (NAD27)	(496035.32N, 1644565.4E) (NAD27)	(494195.83N, 1642196.19E) (NAD27)	County, WV	DRILLING WELL PLAN MND-1H-HS (Marcellus HZ) Macellus Shale Horizontal	
X=centralizers	TD @ +/-6360' TVD +/-15885' MD	S							Note:Actual centralizer	Burst=12640 psi	Production casing = 0.361" wall thickness							במימנים סבים		Intermediate casing = 0.352"				Burst=2730 psi	Surface casing = 0.380" wall thickness		wall thickness	Conductor casing = 0.438**	COMMENTS	E) (NAD27)	E) (NAD27)	E) (NAD27)			

WW-9 (2/15)

API	Number	47 -	051	

Operator's Well No. MND 1 HHS

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

FLUIDS/ CUTTINGS DISPOSAL	L & RECLAMATION PLAN
Operator Name Noble Energy Inc.	OP Code 494501907
-	Quadrangle Powhatan Point
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No	ne proposed well work? Yes No No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit Num Reuse (at API Number TBD - Next anticipat Off Site Disposal (Supply form WW-9 fo Other (Explain	ed well r disposal location)
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etc. Air thru coal string, then SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthet	
Additives to be used in drilling medium? Calcium Chloride Prowder, Carto Tec, Carto Galz, Carto Mul HT, Soda Ash. Pozsasam Chloride Mul HT, Soda Ash. Pozsasam Chloride	Tec S., Ecco-Block, Lime, MilCarb TM, Mil-Clean, Mil-Seal, Next base eC, Next DxII, Next Hold, Next Mul, Orms Cote, Mil Bar, Next
Drill cuttings disposal method? Leave in pit, landfill, removed offsite	
-If left in pit and plan to solidify what medium will be used?	(cement, lime, sawdust)
-Landfill or offsite name/permit number? Please see attact	ned
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	
I certify that I understand and agree to the terms and condit on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examapplication form and all attachments thereto and that, based on obtaining the information, I believe that the information is true, a penalties for submitting false information, including the possibility of	nined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant
Company Official Signature Kulu Swiger	
Company Official (Typed Name) Dee Swiger	Bacall & Gas
Company Official Title Regulatory Analyst III	CHICE OF OH & GAS AUG 0 9 2015
Subscribed and sworn before me this 23 nd day of July 12 day of Ju	Notary Public NOTARIAL SEAL Regina Logue, Notary Public New Sewickley Tup., Beaver County My Commission Explores July 7, 2018 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIE

Form WW-9			Operator's V	MND 1 HHS		
Noble Energy Ir	ıc.		орегиют з т	rem red.		
Proposed Revegetation Tre	Tons/acre or to correc	6.0	Prevegetation pl	Н		
Fertilizer type)-20-20					
Fertilizer amount_	500	lbs/acre				
Mulch	<i>t</i> at 2	_Tons/acre				
		Seed Mixtures				
"1	Temporary		Perma	nent		
Seed Type Tall Fescue	lbs/acre 40	Tall Fescue	Seed Type	lbs/acre 40		
Ladino Clover	5	Ladino Clove	ır	5		
**See site plans for full li	st	**See site pla	**See site plans for full list			
Photocopied section of invo	olved 7.5' topographic sheet.	0				
Plan Approved by:		∞ ≥				
Comments: Pre Seed and mul	ch all cut area, maintain all E & S duri	ing operation.				
				celved Ge		
Title: Oil & G	ies (uspecto	Date:	1/23/15	Office of OH & OF		
Field Reviewed?	(V)Yes () No				

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 Office of OII & Gas

10/02/2015

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. 2001 Ballpark Court Export, PA 15632

Burns Drilling & Excavating Ned GRS 618 Crabapple Road P. Bookli & Collins Wind Ridge, PA 153803

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

10/02/2015

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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Office of Oil & Gas



Site Safety Plan

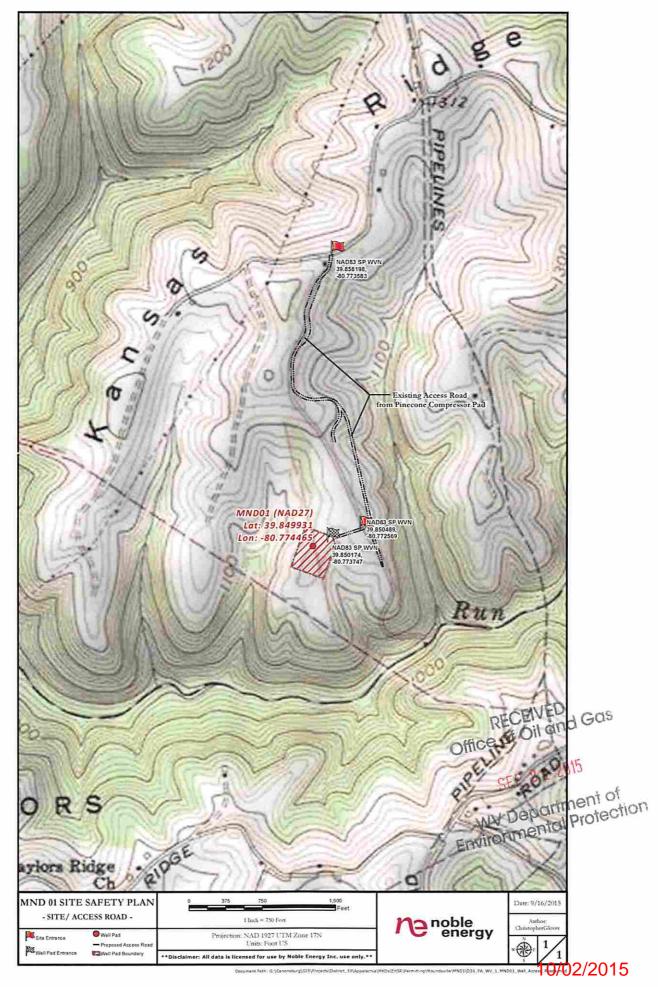
Noble Energy, Inc.
MND 1 Well Pad
1100 Kansas Ridge Rd
Moundsville, WV
July 2015: Version 2

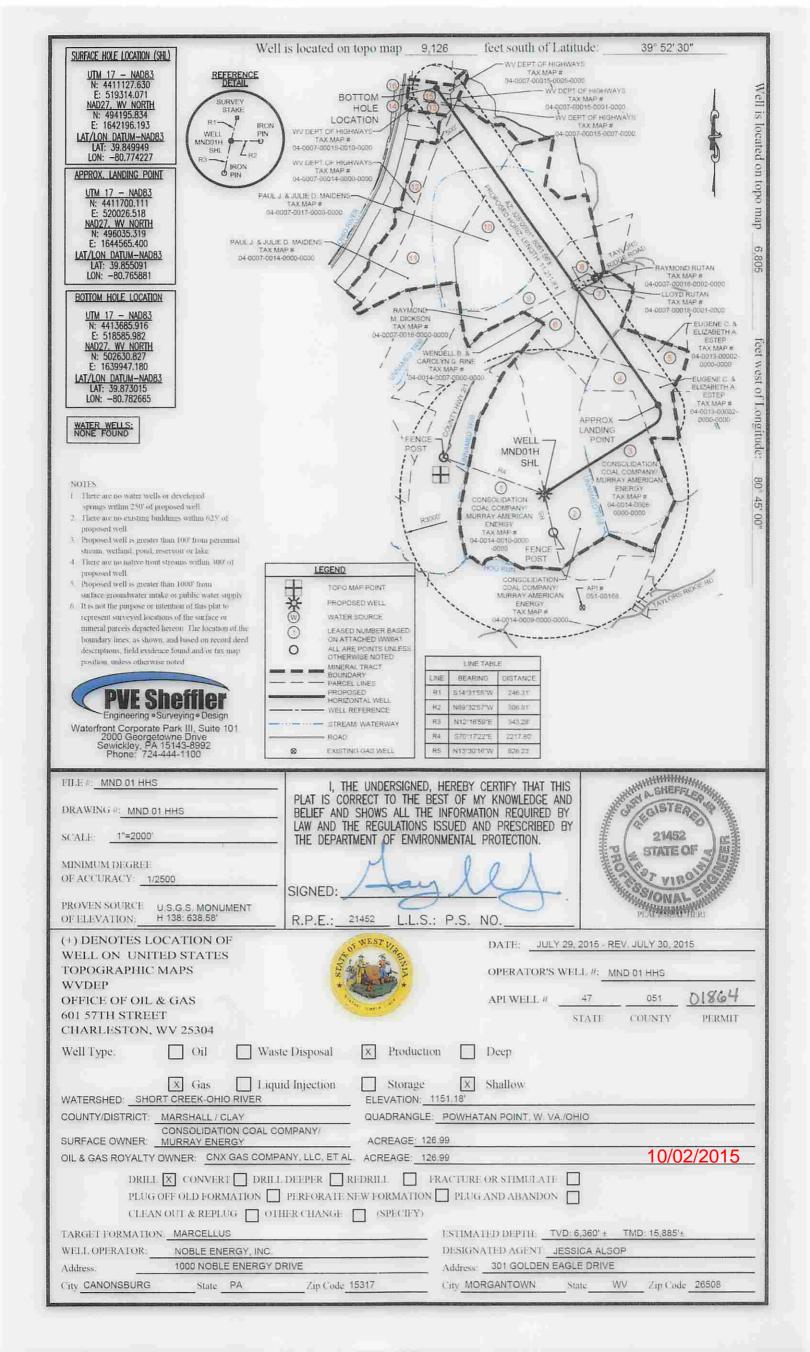
HHS

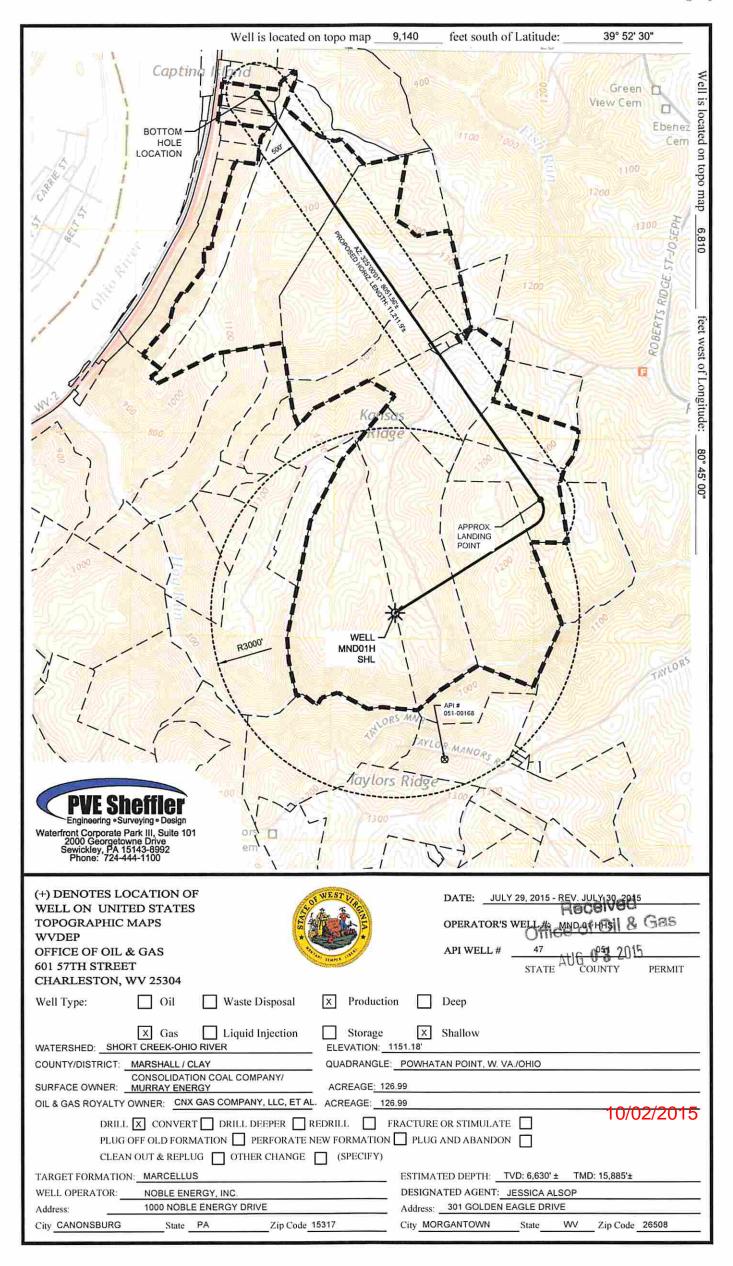
For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

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

Office of Oil & Gas







WW-6A1 (5/13) Operator's Well No. MND 01 HHS

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) 623175	Consolidation Coal Company, et al	CNX Gas Company, LLC	50% Fee Mineral	646/493
		Noble Energy Inc.	50% Fee Mineral	752/066
2) 623173	Consolidation Coal Company, et al	CNX Gas Company, LLC	50% Fee Mineral	646/493
		Noble Energy Inc.	50% Fee Mineral	752/066

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 prelities 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:	Prim 2	-	Brian	Leonhard	
Its:	Operations	Landono	un	Page 1 of 2	

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Consolidation Coal Company,			
3.) 623173	et al	CNX Gas Company, LLC	50% Fee Mineral	646/493
	Consolidation Coal Company,			
	et al	Noble Energy, Inc.	50% Fee Mineral	752/066
4) No number assigned yet	Eugene Ecten	Chevron U.S.A. Inc.	Not less than 1/8	861/613
4.) No number assigned yet	Eugene Estep Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	34/502
	Chevion 0.5.A. mc.	Noble Ellergy, IIIC.	IN/A	34/302
5.) No number assigned yet	Eugene Estep	Chevron U.S.A. Inc.	Not less than 1/8	861/613
	Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	34/502
	Wendell B. Rine and Carolyn S.			l
6.) Q090620000-000	Rine	Noble Energy, Inc.	Not less than 1/8	859/489
 	Lloyd Rutan aka Lloyd J. Rutan,			
	and Lisa J. Gibson, remainder			
7.) no number assigned yet	interest	Chevron U.S.A. Inc.	Not less than 1/8	793/298
7.7 Ho Halliber addigned yet	Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	34/502
	One won old with the	Troute Endigit mei	1,4,7.	3-1/302
	Brenda K. Bufford fka Brenda			
8.) no number assigned yet	Rutan	Chevron U.S.A. Inc.	Not less than 1/8	793/303
	Chevron U.S.A. Inc.	Noble Energy, Inc.	N/A	34/502
	Mountaineer Natural Gas			
9.) Q084767000-000	Company	Noble Energy, Inc.	Not less than 1/8	833/35
	1,12, , , 20, , , , 20, , , 20,		SACOIVO	GAS
	Paul J. Maidens and Julie D.		Most Oll	8
10.) Q082524000-000	Maidens	Noble Energy, Inc.	Nortes 06 1/8	836/90
			Not less than 1/8 Not less than 1/8 Not less than 1/8	Form
	Paul J. Maidens and Julie D.		μου	
11.) Q082524000-000	Maidens	Noble Energy, Inc.	Not less than 1/8	826/90
	Paul J. Maidens and Julie D.			
12.) Q082524000-000	Maidens	Noble Energy, Inc.	Not less than 1/8	826/90
12.7 Q082324000-000	IVIBIUEIIS	Noble Energy, Inc.	NOC 1655 CHAIT 1/6	820/30
	Edward P. Peters and Lois J.			
13.) Q176174000-000	Peters	Noble Energy, Inc.	Not less than 1/8	801/82
	- LLGL: 11	National Community	Alaskia a do	70.4/200
14.) Q074934000-000	Donald Chichilo	Noble Energy, Inc.	Not less than 1/8	794/329
15.) Q074934000-000	Donald Chichilo	Noble Energy, Inc.	Not less than 1/8	794/329
16.) Q078676000-000	Randolph Brunner	Noble Energy, Inc.	Not less than 1/8	808/299

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STEPTOE & JOHNSON PLLC LISA LOVEJOY P 0 BOX 1588 CHARLESTON, W 25326-1588

RETURN TO: Lisa Lovejoy
Energy Department
Steptoe & Johnson PLLC
P.O. Box 1588
Charleston, WV 25326-1588

Jan Pest
MARSHALL County 10:22:36 AM
Instrument No 1314757
Date Recorded 12/05/2011
Document Type DEED
Pages Recorded 28
Book-Page 752-66
Recording Fee \$34.00
Transfer Tax \$144.084.60
Additional \$27.00

MINERAL INTEREST DEED

This MINERAL INTEREST DEED (this "Deed") is from CNX GAS COMPANY LLC, a Virginia limited liability company ("Grantor"), whose address is 1000 CONSOL Energy Drive, Canonsburg, PA 15317, to NOBLE ENERGY, INC., a Delaware corporation ("Grantee"), whose address is 100 Glenborough Drive, Suite 100, Houston, Texas 77067, and is effective as of 7:00 a.m. (Central Time) on July 1, 2011 (the "Effective Time").

RECITALS

WHEREAS. Grantor desires to grant and convey to Grantee, and Grantee desires to receive from Grantor, an undivided 50% of Grantor's right, title and interest in the assets and properties described below in accordance with this Deed and the Acquisition Agreement (defined below).

NOW, THEREFORE, for and in consideration of the mutual promises contained herein and in the Acquisition Agreement, the benefits to be derived by each party hereunder and under the Acquisition Agreement, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor and Grantee agree as follows:

ARTICLE I DEFINED TERMS

1.1 Definitions. Capitalized terms used herein and not otherwise defined in Section 3.4 or throughout the Deed shall have the meanings given such terms in the Asset Acquisition Agreement, dated as of August 17, 2011, as amended, by and between Grantor and Grantee (the "Acquisition Agreement").

ARTICLE II GRANT OF CONVEYED INTERESTS

2.1 Deed. Subject to the terms and conditions of this Deed, Grantor does hereby GRANT, CONVEY and TRANSFER to Grantee, and Grantee agrees to acquire, the following interests and properties (less and except for the Excluded Assets, such interests and properties described in subsections (a) and (b) of this Section 2.1, collectively, the "Conveyed Interests"):

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Office of Oil and Gas

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- (a) an undivided 50% of all of Grantor's right, title and interest in and to the following assets and properties:
- (i) the oil and gas and mineral fee interests more particularly described in <u>Exhibit A</u>, insofar and only insofar as such oil and gas and mineral fee interests cover depths within the Marcellus Formation (such 50% of Grantor's interest in such oil and gas and mineral fee interests as so limited, collectively, the "Mineral Interests");
- (ii) all oil and gas wells drilled on the Mineral Interests or the Units insofar and only insofar as such wells are producing from, or have been drilled to produce from, those depths within the Marcellus Formation, including the oil and gas wells listed on Exhibit B (to the extent drilled on the Mineral Interests or Units and producing from or drilled to produce from such formation) (such 50% of Grantor's interest in such wells as so limited, the "Marcellus Wells"), and all fresh water wells, injection wells, salt water disposal wells and other wells of every nature and kind located on the Mineral Interests or the Units, in each case, to the extent that they are primarily used in connection with the Marcellus Wells, the Mineral Interests or the Units (such 50% of Grantor's interest in such wells as so limited, collectively with the Marcellus Wells, the "Wells");
- (iii) all interests in pools or units which include all or a part of any Mineral Interests insofar and only insofar as such pools or units cover depths within the Marcellus Formation and pertain to the Mineral Interests (such 50% of Grantor's interest in such pools and units as so limited, the "Units");
- (iv) to the extent they may be assigned (after exercising commercially reasonable efforts to obtain any and all relevant consents), all permits, licenses, servitudes, easements, rights-of-way, surface use agreements, water access and water use agreements and other similar surface use or water rights, in each case, to the extent primarily used in connection with the ownership or operation of the Mineral Interests, Units and Wells, including those set forth in Exhibit C (such 50% of Grantor's interest in the foregoing, collectively, the "Rights-Of-Way" and the Mineral Interests, Units, Wells and Rights-Of-Way being collectively referred to hereinafter as the "Properties");
- (v) all equipment, machinery, fixtures and other personal property, operational or nonoperational in each case, to the extent primarily used in connection with the Properties or the other Conveyed Interests, including well equipment, casing, tubing, pumps, motors, machinery, platforms, rods, tanks, boilers, fixtures, manifolds, structures, materials and other items primarily used or held for use in the operation of the Properties (such 50% of Grantor's interest in such properties, the "Personal Property"); and
- (vi) all Hydrocarbons produced from or allocated to the Mineral Interests, Marcellus Wells or Units on and after the Effective Time; and

2

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- (b) all of Grantor's right, title and interest in and to the following assets and properties to the extent, and only to the extent, that such assets and properties relate to the interests described in Section 2.1(a):
- to the extent assignable, all Applicable Contracts and all rights thereunder;
 - (ii) all Well Imbalances relating to the Conveyed Interests;
- (iii) copies (in digital form, if available) of the following, to the extent (A) in Grantor's or its Affiliates' possession or (B) to which Grantor has the right but are in the possession of a Third Party: (1) land and title records (including abstracts of title, title opinions (including title opinions that cover both the Marcellus Formation and other formations) and title curative documents), (2) contract files, (3) correspondence, (4) maps, operations, environmental, production and accounting records, (5) facility and engineering/well files, (6) division order files (including division and interest statements), (7) engineering and/or production files, (8) environmental files, (9) permitting files and (10) geological data, but excluding any of the foregoing items that are primarily used in connection with the ownership or operation of the Excluded Assets; and
- (iv) to the extent assignable without payment of fees or other penalties, unless Grantor agrees to and does pay such fees and penalties, the geophysical data and other seismic and related technical data and information listed on <u>Schedule 2.1</u> to the Acquisition Agreement.
- 2.2 Easement. Subject to the terms and conditions of this Deed, Grantor does hereby assign, transfer and convey to Grantee a non-exclusive subsurface well bore easement through Grantor's Shallow Depths for the purposes of accessing, exploring, developing and producing Hydrocarbons from the Marcellus Formation to the extent relating to the Conveyed Interests provided that such easement shall not permit the production of Hydrocarbons from the Shallow Depths or perforations, open hole completions, fracture operations or other stimulation operations in the Shallow Depths (the "Subsurface Access Easement").
- TO HAVE AND TO HOLD the Conveyed Interests and the Subsurface Access Easement unto Grantee, its successors and assigns, forever, subject, however, to all the terms and conditions of this Deed, including, without limitation, Article III.
- 2.3 Excluded Assets and Reservation. The Conveyed Interests and the Subsurface Access Easement shall not include, and Grantor hereby reserves and retains, the Excluded Assets. Additionally, the Conveyed Interests covered by this Deed shall not include any of the Leases any of the assets covered by the Assignment, to the extent said Leases and assets are assigned to Grantee by the Assignment. Grantor and Grantee acknowledge and agree that the

3

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Assignment and this Deed (including all recorded counterparts thereof) are intended to COLLECTIVELY convey to Grantee the "Conveyed Interests" as described in the Acquisition Agreement. Granter and Grantee acknowledge and agree that the Assignment and this Deed are not intended to effect multiple conveyances of the same properties or interests in such properties.

ARTICLE III SPECIAL WARRANTY; DISCLAIMERS; CERTAIN DEFINITIONS

- 3.1 Special Warranty. Grantor hereby binds itself, its successors and assigns subject, however, to the Permitted Encumbrances, to warrant and forever defend all and singular title to the Marcellus Wells and Mineral Interests and the Subsurface Access Easement from and after April 30, 2010 to the date hereof for claims arising by, through or under Grantor, but not otherwise.
- 3.2 Subrogation. Grantor hereby assigns to Grantee all rights, claims and causes of action under title warranties given or made by Grantor's predecessors in interest (other than any Affiliates of Grantor) with respect to the Conveyed Interests, and Grantee is specifically subrogated to all rights which Grantor may have against such predecessors in interest with respect to the Conveyed Interests, to the extent Grantor may legally transfer such rights and grant such subrogation.

3.3 Disclaimers and Subrogation of Warranties and Representations.

- (a) EXCEPT AS AND TO THE LIMITED EXTENT EXPRESSLY SET FORTH IN SECTION 3.1 OF THIS DEED AND IN ARTICLE VII OF THE ACQUISITION AGREEMENT, (I) GRANTOR MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, AND (II) GRANTOR EXPRESSLY DISCLAIMS ALL LIABILITY AND RESPONSIBILITY FOR ANY REPRESENTATION, WARRANTY, STATEMENT OR INFORMATION MADE OR COMMUNICATED (ORALLY OR IN WRITING) TO GRANTEE OR ANY OF ITS AFFILIATES, EMPLOYEES, AGENTS, CONSULTANTS OR REPRESENTATIVES (INCLUDING ANY OPINION, INFORMATION, PROJECTION OR ADVICE THAT MAY HAVE BEEN PROVIDED TO GRANTEE BY A MEMBER OF THE GRANTOR INDEMNIFIED PARTIES).
- (b) EXCEPT AS AND TO THE LIMITED EXTENT EXPRESSLY SET FORTH IN SECTION 3.1 OF THIS DEED AND ARTICLE VII OF THE ACQUISITION AGREEMENT, AND WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, GRANTOR EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY, EXPRESS, STATUTORY OR IMPLIED, BY ANY MEMBER OF THE GRANTOR INDEMNIFIED PARTIES, AS TO (I) TITLE TO ANY OF THE CONVEYED INTERESTS AND THE SUBSURFACE ACCESS EASEMENT, (II) THE CONTENTS, CHARACTER OR NATURE OF ANY REPORT OF ANY PETROLEUM ENGINEERING CONSULTANT, OR

4

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ANY ENGINEERING, GEOLOGICAL OR SEISMIC DATA OR INTERPRETATION RELATING TO THE CONVEYED INTERESTS. (III) THE QUANTITY, QUALITY OR RECOVERABILITY OF HYDROCARBONS IN OR FROM THE CONVEYED INTERESTS, (IV) ANY ESTIMATES OF THE VALUE OF THE CONVEYED INTERESTS OR FUTURE REVENUES GENERATED BY THE CONVEYED INTERESTS, (V) THE PRODUCTION OF HYDROCARBONS FROM THE CONVEYED INTERESTS, (VI) THE MAINTENANCE, REPAIR, CONDITION, QUALITY, SUITABILITY, DESIGN OR MARKETABILITY OF THE CONVEYED INTERESTS, (VII) THE CONTENT, CHARACTER OR NATURE OF ANY INFORMATION MEMORANDUM, REPORTS, BROCHURES, CHARTS OR STATEMENTS PREPARED BY GRANTOR OR THIRD PARTIES WITH RESPECT TO THE CONVEYED INTERESTS, (VIII) ANY OTHER MATERIALS OR INFORMATION THAT MAY HAVE BEEN MADE AVAILABLE TO GRANTEE OR ITS AFFILIATES, OR ITS OR THEIR EMPLOYEES, AGENTS, CONSULTANTS, REPRESENTATIVES OR ADVISORS IN CONNECTION WITH THE TRANSACTIONS CONTEMPLATED BY THIS DEED OR ANY DISCUSSION OR PRESENTATION RELATING THERETO, AND (IX) ANY IMPLIED OR EXPRESS WARRANTY OF FREEDOM FROM PATENT OR TRADEMARK INFRINGEMENT. EXCEPT AS AND TO THE LIMITED EXTENT EXPRESSLY REPRESENTED OTHERWISE IN SECTION 3.1 OF THIS DEED OR ARTICLE VII OF THE ACQUISITION AGREEMENT, GRANTOR FURTHER DISCLAIMS ANY REPRESENTATION OR WARRANTY, EXPRESS, STATUTORY OR IMPLIED, OF MERCHANTABILITY, FREEDOM FROM LATENT VICES OR DEFECTS, FITNESS FOR A PARTICULAR PURPOSE OR CONFORMITY TO MODELS OR SAMPLES OF MATERIALS OF ANY CONVEYED INTERESTS AND THE SUBSURFACE ACCESS EASEMENT, IT BEING EXPRESSLY UNDERSTOOD AND AGREED BY GRANTOR AND GRANTEE THAT GRANTEE SHALL BE DEEMED TO BE OBTAINING THE CONVEYED INTERESTS AND THE SUBSURFACE ACCESS EASEMENT IN THEIR PRESENT STATUS, CONDITION AND STATE OF REPAIR, "AS IS" AND "WHERE IS" WITH ALL FAULTS OR DEFECTS (KNOWN OR UNKNOWN, LATENT, DISCOVERABLE OR UNDISCOVERABLE), AND THAT GRANTEE, SUBJECT TO ITS RIGHTS UNDER ARTICLE V OF THE ACQUISITION AGREEMENT, HAS MADE OR CAUSED TO BE MADE SUCH INSPECTIONS AS GRANTEE DEEMS APPROPRIATE.

(c) EXCEPT AS AND TO THE LIMITED EXTENT EXPRESSLY SET FORTH IN SECTION 7.19 OF THE ACQUISITION AGREEMENT AND WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, GRANTOR MAKES NO REPRESENTATION OR WARRANTY REGARDING ANY MATTER OR CIRCUMSTANCE RELATING TO ENVIRONMENTAL LAWS, THE RELEASE OF MATERIALS INTO THE ENVIRONMENT OR THE PROTECTION OF HUMAN HEALTH, SAFETY, NATURAL RESOURCES OR THE ENVIRONMENT, OR ANY OTHER ENVIRONMENTAL CONDITION OF THE CONVEYED INTERESTS, AND NOTHING IN THIS DEED OR OTHERWISE SHALL BE CONSTRUED AS SUCH A REPRESENTATION

5

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OR WARRANTY, AND SUBJECT TO GRANTEE'S RIGHTS UNDER SECTIONS 6.1 AND 7.19 OF THE ACQUISITION AGREEMENT, GRANTEE SHALL BE DEEMED TO BE TAKING THE CONVEYED INTERESTS AND THE SUBSURFACE ACCESS EASEMENT "AS IS" AND "WHERE IS" WITH ALL FAULTS FOR PURPOSES OF THEIR ENVIRONMENTAL CONDITION AND THAT GRANTEE, SUBJECT TO ITS RIGHTS UNDER ARTICLE VI OF THE ACQUISITION AGREEMENT, HAS MADE OR CAUSED TO BE MADE SUCH ENVIRONMENTAL INSPECTIONS AS GRANTEE DEEMS APPROPRIATE.

- (d) GRANTOR AND GRANTEE AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE DISCLAIMERS OF CERTAIN REPRESENTATIONS AND WARRANTIES CONTAINED IN THIS SECTION 3.3 ARE "CONSPICUOUS" DISCLAIMERS FOR THE PURPOSE OF ANY APPLICABLE LAW.
- 3.4 Certain Definitions. The following terms, as used herein, have the meanings set forth below:

"Additional Interests" means those additional oil and gas leases and oil and gas and mineral fee interests acquired by Grantor and/or its Affiliates in the Development Area from and after April 29, 2011, other than those Mineral Interests or Leases (or interests therein) acquired by Grantor from its Affiliates.

"Affiliate" means, with respect to any Person, any other Person that directly, or indirectly through one or more intermediaries, Controls or is Controlled by, or is under common Control with, such Person.

"Antero ORRF' means those certain royalty and overriding royalty payments due from Antero Resources Appalachian Corporation to CNX Gas Company LLC, under those certain Partial Assignment of Oil and Gas Leases dated September 29, 2008, effective September 30, 2008 and other instruments delivered pursuant to that Amended and Restated Farmout Acquisition Agreement dated September 23, 2008 by and among Dominion Exploration & Production, Inc., Dominion Appalachian Development LLC and Dominion Transmission Inc., predecessors to CNX Gas Company LLC, collectively as farmor, and Antero Resources Appalachian Corporation, as farmee.

"Applicable Contracts" means all Contracts to which Grantor is a party by which any Conveyed Interest is bound and that will be binding on Grantee after the Closing, including farmin and farmout agreements; bottomhole agreements; crude oil, condensate and natural gas purchase and sale, gathering, transportation and marketing agreements; hydrocarbon storage agreements; acreage contribution agreements; operating agreements; balancing agreements; pooling declarations or agreements; unitization agreements; processing agreements; crossing

6

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agreements; saltwater disposal agreements; facilities or equipment leases; letters of objection; production handling agreements and other similar contracts and agreements, held by Grantor and relating to the Conveyed Interests.

"Assignment" means that certain Assignment and Bill of Sale between Grantor and Grantee dated effective as of the Effective Time, including all recorded counterparts thereof.

"Closing" means the closing of the transfer by Grantor of the Conveyed Interests to Grantee pursuant to the Acquisition Agreement.

"Contract" means any written or oral contract, agreement, lease, mortgage, franchise, license agreement, purchase order, binding bid, commitment or any Applicable Contract that is an indenture, mortgage, loan, credit or sale-leaseback, guaranty of any obligation, bonds, letters of credit or similar financial contract or any other legally binding arrangement, including farmin and farmout agreements, participation, exploration and joint development agreements, crude oil, condensate and natural gas purchase and sale, gathering, transportation and marketing agreements, acreage contribution agreements, operating agreements, balancing agreements, unitization agreements, processing agreements, hydrocarbon balancing agreements, facilities or equipment leases, platform use and platform sharing agreements, production handling agreements and other similar Contracts, but excluding, however, any Lease, deed, easement, right-of-way, permit or other instrument (other than acquisition or similar sales or purchase agreements) creating or evidencing an interest in the Conveyed Interests or any real or immovable property related to or used in connection with the operations of any Conveyed Interests.

"Control" (including the terms "Controlling," "Controlled by" and "under common Control with") means the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of a Person, whether through the ownership of voting shares, by contract or otherwise.

"Development Agreement" means that certain Joint Development Agreement by and between Grantor and Grantee dated as of even date herewith, as provided for in the Acquisition Agreement.

"Development Area" has the meaning set forth in the Development Agreement.

"Encumbrance" means any lien, mortgage, security interest, defect, irregularity, pledge, charge or encumbrance.

"Environmental Laws" means all applicable federal, state and local Laws in effect as of the date of this Deed, including common law, relating to the protection of the public health, welfare and the environment, including those Laws relating to the storage, handling and use of

7

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chemicals and other Hazardous Substances and those relating to the generation, processing, treatment, storage, transportation, disposal or other management thereof. The term "Environmental Laws" does not include good or desirable operating practices or standards that may be employed or adopted by other oil and gas well operators or recommended by a Governmental Authority.

"Excluded Assets" has the meaning set forth on Exhibit D.

"Governmental Authority" means any federal, state, local, municipal, tribal or other government; any governmental, regulatory or administrative agency, commission, body or other authority exercising or entitled to exercise any administrative, executive, judicial, legislative, belief, regulatory or taxing authority or power; and any court or governmental tribunal, including any tribal authority having or asserting jurisdiction.

"Hazardous Substances" means any pollutants, contaminants, toxic or hazardous or extremely hazardous substances, materials, wastes, constituents, compounds or chemicals that are regulated by, or may form the basis of liability under, any Environmental Laws, including naturally occurring radioactive materials and other substances referenced in Section 6.2 of the Acquisition Agreement.

"Hedge Contract" means any Contract to which Grantor or any of its Affiliates is a party with respect to any swap, forward, future or derivative transaction or option or similar agreement, whether exchange traded, "over-the-counter" or otherwise, involving, or settled by reference to, one or more rates, currencies, commodities, equity or debt instruments or securities, or economic, financial or pricing indices or measures of economic, financial or pricing risk or value or any similar transaction or any combination of these transactions.

"Hydrocarbons" means oil and gas and other hydrocarbons (including condensate) produced or processed in association therewith (whether or not such item is in liquid or gaseous form), or any combination thereof, and any minerals produced in association therewith.

"Imbalances" means all Well Imbalances and Pipeline Imbalances.

"Interim Period" means that period of time commencing with the Effective Time and ending immediately prior to Closing.

"Law" means any applicable statute, law, rule, regulation, ordinance, order, code, ruling, writ, injunction, decree or other official act of or by any Governmental Authority.

"Lease" means those certain oil, gas and/or mineral leases assigned by Grantor to Grantee pursuant to the Assignment.

8

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"Marcellus Formation" means, (a) in central Pennsylvania, specifically from the stratigraphic equivalent of the top of the Burkett in the DeArmitt #1 (API 37-129-27246) and 7000'MD through to the stratigraphic equivalent of the top of the Onondaga at 7530'MD; (b) in southwest Pennsylvania, specifically from the stratigraphic equivalent of the top of the Burkett in the GH-10C-CV (API 37-059-25397) at 7600'MD through to the stratigraphic equivalent of the top of the Onondaga at 7900'MD; and (c) in West Virginia, specifically from the stratigraphic equivalent of the top of the Burkett in the DEPI #14815 (API 47-001-02850) at 7350'MD through to the stratigraphic equivalent of the top of the Onondaga at 7710'MD, each of which is also shown in the logs attached to the Acquisition Agreement as Exhibit A-1.

"Oil and Gas Assets" mean the Conveyed Interests and, to the extent pertaining to the Marcellus Formation and operations relating thereto, the interests which are retained by Grantor in the properties and assets underlying the Conveyed Interests.

"Overhead Costs" means, with respect to those Conveyed Interests that are operated by Grantor and are burdened by an existing joint operating agreement covering such Conveyed Interests, the amount representing the overhead or general and administrative fee that is charged to other working interest owners with interests in the related Conveyed Interests as set forth in the lease operating expenses statement, which amount is attributable to the Conveyed Interests during the Interim Period.

"Person" means any individual, corporation, company, partnership, limited partnership, limited liability company, trust, estate, Governmental Authority or any other entity.

"Pipeline Imbalance" means any marketing imbalance between the quantity of Hydrocarbons attributable to the Oil and Gas Assets required to be delivered by Grantor under any Contract relating to the purchase and sale, gathering, transportation, storage, processing (including any production handling and processing at a separation facility) or marketing of Hydrocarbons and the quantity of Hydrocarbons attributable to the Oil and Gas Assets actually delivered by Grantor pursuant to the relevant Contract, together with any appurtenant rights and obligations concerning production balancing at the delivery point into the relevant sale, gathering, transportation, storage or processing facility.

"Retained Interest" means all of Grantor's rights in and to the oil and gas and mineral fee interests described in Exhibit A, insofar and only insofar as such oil and gas and mineral fee interests cover depths and formations outside of the Marcellus Formation, including the non-exclusive right to use the surface and install pipelines and gathering systems in connection with the ownership or operation of such interests with respect to such depths and formations, and all wells to the extent associated therewith.

"SCADA Equipment" means all SCADA and similar control equipment and network communication towers.

9

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SEP 2 1 2015

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"Shallow Depths" means all of Grantor's rights in and to oil and gas and mineral fee interests described in Exhibit A, insofar and only insofar as such oil and gas and mineral fee interests cover depths and formations above the top of the Marcellus Formation.

"Third Party" means any Person other than Grantor and Grantee or an Affiliate of Grantor or Grantee.

"Well Imbalance" means any imbalance at the wellhead between the amount of Hydrocarbons produced from a Marcellus Well and allocable to the interests of Grantor therein and the shares of production from the relevant Marcellus Well to which Grantor is entitled, together with any appurtenant rights and obligations concerning future in kind and/or cash balancing at the wellhead.

ARTICLE IV ASSUMED OBLIGATIONS

Without limiting Grantee's rights to indemnity under Article XIII of the Acquisition Agreement, any Title Indemnity Agreement, any Environmental Indemnity Agreement or under the special warranty of title in Section 3.1, and subject to the other limitations set forth in the Acquisition Agreement, effective as of the date of this Deed, Grantee hereby assumes and agrees to fulfill, perform, pay and discharge (or cause to be fulfilled, performed, paid or discharged) all of the Assumed Obligations.

ARTICLE V MISCELLANEOUS

- 5.1 Separate Deeds. Where separate deeds and assignments of the Conveyed Interests and the Subsurface Access Easement have been or will be executed for filing in other recording jurisdictions or counties or for filing with, and approval by, applicable Governmental Authorities, any such separate deeds and assignments (a) shall evidence this Deed and the grant of the applicable Conveyed Interests and the Subsurface Access Easement herein made and shall not constitute any additional grant of any of the Conveyed Interests, the Subsurface Access Easement or interests in the properties covered hereby or thereby; (b) are not intended to modify, and shall not modify, any of the terms, covenants and conditions or limitations on warranties set forth in this Deed or the Acquisition Agreement and are not intended to create, and shall not create, any representations, warranties or additional covenants of or by Grantor to Grantee; and (c) shall be deemed to contain all of the terms and provisions of this Deed, as fully and to all intents and purposes as though the same were set forth at length in such separate deeds.
- 5.2 Deed Subject to Acquisition Agreement. This Deed is expressly subject to the terms and conditions of the Acquisition Agreement, including with respect to the interests conveyed hereby. If there is a conflict between the terms of this Deed and the Acquisition

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Agreement, the terms of the Acquisition Agreement shall control. This Deed is not intended by Grantor or Grantee to be a quitelaim.

- Governing Law; Jurisdiction; Venue; Jury Waiver. EXCEPT TO THE EXTENT THE LAWS OF ANOTHER JURISDICTION WILL, UNDER CONFLICT OF LAWS PRINCIPLES, GOVERN TRANSFERS OF THE CONVEYED INTERESTS OR THE SUBSURFACE ACCESS EASEMENT LOCATED IN SUCH OTHER JURISDICTION, THIS DEED AND THE LEGAL RELATIONS AMONG GRANTOR AND GRANTEE SHALL BE GOVERNED AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS. EACH OF GRANTOR AND GRANTEE CONSENT TO THE EXERCISE OF JURISDICTION IN PERSONAM BY THE UNITED STATES FEDERAL DISTRICT COURTS LOCATED IN THE STATE OF PENNSYLVANIA FOR ANY ACTION ARISING OUT OF THIS DEED OR ANY TRANSACTION CONTEMPLATED HEREBY. ALL ACTIONS OR PROCEEDINGS WITH RESPECT TO, ARISING DIRECTLY OR INDIRECTLY IN CONNECTION WITH, OUT OF, RELATED TO, OR FROM THIS DEED OR ANY TRANSACTION CONTEMPLATED HEREBY SHALL BE EXCLUSIVELY LITIGATED IN THE UNITED STATES FEDERAL DISTRICT COURTS HAVING SITES IN PITTSBURGH, PENNSYLVANIA (AND ALL APPELLATE COURTS HAVING JURISDICTION THEREOVER). EACH OF GRANTOR AND GRANTEE WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY ACTION, SUIT OR PROCEEDING ARISING OUT OF OR RELATING TO THIS DEED OR ANY TRANSACTION CONTEMPLATED HEREBY.
- 5.4 Successors and Assigns. This Deed shall bind and inure to the benefit of the parties hereto and their respective successors and assigns.
- 5.5 Counterparts. This Deed may be executed in any number of counterparts, and each such counterpart hereof shall be deemed to be an original instrument, but all of such counterparts shall constitute for all purposes one agreement. To facilitate recordation, there are omitted from the Exhibits to this Deed in certain counterparts descriptions of the Conveyed Interests and/or the Subsurface Access Easement located in recording jurisdictions other than the jurisdiction in which the counterpart is to be filed or recorded.
- 5.6 DECLARATION OF CONSIDERATION OR VALUE. Grantor hereby declares that the total consideration paid for that portion of the Mineral Interests hereby conveyed that is (a) real property and (b) subject to the West Virginia excise tax on the privilege of transferring real property is \$32,746,391.01.
- 5.7 CERTIFICATION OF EXEMPTION FROM WITHHOLDING. The undersigned Grantor hereby certifies, under penalty of perjury, that it is a Virginia limited liability company authorized to do business in the State of West Virginia, and is therefore

11

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exempt from state income tax withholding requirements imposed by West Virginia Code Chapter 11, Article 21, Section 71b.

[Signature pages follow]

12

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SEP 2 1 2015

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IN WITNESS WHEREOF, this Deed has been executed by the parties hereto as of September 38, 2011, but is effective for all purposes as of the Effective Time.

GRANTOR:

CNX GAS COMPANY LLC

Stephen W. Johnson Vice President and Secretary

GRANTEE:

NOBLE ENERGY, INC.

Shawn E. Conner Vice President unce

SIGNATURE PAGE TO MINERAL INTEREST DEED

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ACKNOWLEDGMENTS

STATE OF TEXAS, COUNTY OF HARRIS, TO-WIT:
I, the undersigned, a notary public of the said county, do hereby certify that on this 26 of September 2011, before me personally appeared Stephen W. Johnson , who acknowledged himself to be the of CNX GAS COMPANY LLC, and that he as such
officer, being so authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the company by himself as said officer.
IN WITNESS WHEREOF, I hercunto set my hand and official seal.
My commission expires: 1/12-2012 LATARSHA S. STERLING NOTARY PUBLIC STATE OF TEXAS COMM. EXPIRES 04-12-2012
STATE OF TEXAS, COUNTY OF HARRIS, TO-WIT:
I, the undersigned, a notary public of the said county, do hereby certify that on this 29 day of 2011, before me personally appeared Shawn E. Conner , who acknowledged himself to be the Vice President of NOBLE ENERGY, INC., and that he as such officer, being so authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the company by himself as said officer.
IN WITNESS WHEREOF, I hereunto set my hand and official seal. STEPHANIE PINA (Metary Public, State of Texas & thy Commission Express & thy Commission Express & thy Commission Express & thy Commission Express & the Commis
My commission expires: 5-1-13 May 61, 2013 (Notarial Scal)
This document was prepared by: C. Randall King, Esq., Porter & Hedges LLP, 1000 Main Street, 36th Floor, Houston, Texas 77002

ACKNOWLEDGMENTS

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SEP 2 1 2015

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County

Mineral Interests Marshall County, WV Marshall

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Benwood Corp Cameron District Cameron Cameron Cameron 25-03-0009-0018-0000-0000 25-03-0014-0026-0001-0000 3-19-49, 3-19-50, 3-19-51, 3-05-17C-25, 07-16-9, 07-16-9.1 15-12-6, 3-17-8 3-19-33, 3-19-42 3-19-36, 3-19-37 3-19-57 3-16-18 3-18-26.1 3-13-5 3-19-58 3-19-56 3-19-48 3-19-54 Tax ID 1-6-5.4 Instrument # 1311174 1311174 1311174 1311174 1311174 1311174 1311174 1311174 1311174 1311174 1311174 1311172 1311174 1311171 1311174 1311174 Раке 128 128 128 128 128 128 128 128 128 128 128 128 106 128 128 128 24 Book 745 745 745 745 745 745 745 745 745 745 745 745 745 745 745 745 745 Deed Date 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 6/30/2011 Consol Pennsylvania Coal Company LLC Consolidation Coal Company McElroy Coal Company McEiroy Coal McElroy Coal McElroy Coal McElroy Coal McElroy Coal Company McElroy Coal McElroy Coal Company Сотрапу Company Company Company Reference # 390033 624576 624605 624606 624609 624626 624627 624642 624643 624644 624645 625423 624577 624586 624597 624640 624652

Page 1 of 9

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Office of Oil and Gas

SEP 21 2015

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EXHIBIT A
MINERAL INTERESTS
Marshall County, WV

Reference #	Grantor	Deed Date	Book	Page	Instrument #	Tax ID	District	County
						3-19-14, 3-19-15, 3-19-16, 3-		
						19 17, 3-19-19, 3-19-20, 3-		-
	McElroy Coal					19-21, 3-19-22, 3-19-23, 3-		
624657	Company	6/30/2011	745	128	1311174	19-24	Cameron	Marshall
	McElroy Coal					3-12-22, 3-12-23, 3-12-24.1,		
624658	Company	6/30/2011	745	128	1311174	3-12-28	Cameron	Marshall
	McElroy Goal							
624661	Сотрапу	6/30/2011	745	128	1311174	05-17C-32	Cameron	Marshall
	McElroy Coal					3-19-59, 3-19-64, 3-19-67, 3-		
624662	Company	6/30/2011	745	128	1311174	19-68	Cameron	Marshall
	McEiroy Coal					3-19-26.1, 3-19-27, 3-19-28,		
524663	Company	6/30/2011	745	128	1311174	3-19-29	Cameron	Marshall
	McElroy Coal							
624665	Company	6/30/2011	745	128	1311174	3-19-60	Carneron	Marshall
	McElroy Coal							
624676	Company	6/30/2011	745	128	1311174	3-19-48	Cameron	Marshall
	McElroy Coal							
624684	Company	6/30/2011	745	128	1311174	08-11-100, 2-4-52, 3-16-4	Cameron	Marshall
	McElroy Coal							
624685	Company	6/30/2011	745	128	1311174	2-4-50	Cameron	Marshall
	McElroy Coal							
624588	Company	6/30/2011	745	128	1311174	TM 4 Parcel 17	Cameron Corp	Marshall
	McElroy Coal							
624600	Company	6/30/2011	745	128	1311174	244	Cameron Corp	Marshall
	McElroy Coal							
624602	Company	6/30/2011	745	128	1311174	2-5-56, 2-5-57	Cameron Corp	Marshall
	McElroy Coal							
624613	Company	6/30/2011	745	128	1311174	2-5-59	Cameron Corp	Marshall
	McElroy Coal							
624619	Company	6/30/2011	745	128	1311174	2-4-3, 2-4-3	Cameron Corp	Marshall
	McElroy Coal							
624620	Company	6/30/2011	745	128	1311174	2-5-115	Cameron Corp	Marshall
	McElroy Coal							
624621	Company	6/30/2011	7.45	178	1211174	3776		

age 2 of 9

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SEP 21 2015

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EXHIBIT A
MINERAL INTERESTS
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District				neron Corp Marshall	
Cameron Corp		Cameron Corn		Cameron Corp	
Cameron Corp	Cameron Corp	dio colome)	Campron Corn	California Com	Franklin
Cam		- Cam			,000, 01, 02.
TM 5 P 42 2-2-236	2-236		-131, 2-1-131.1	2-1-132, 2-1-133	050012000600010500,
TM 5 P 42 2-2-236 2-1-131, 2-1	2-2-2: 2-1-131, 2-1-13: 2-1-132, 2	2-1-131, 2-1-13	2-1-132 2		050012000600010500, 050012002300000501, 05001200230000502, 05001200230010500
	1311174	1311174		1311174	
	128	128		128	
745		745		745	
6/30/2011		6/30/2011		6/30/2011	
McElroy Coal Company	TOTAL STREET	McElroy Coal Company	McElroy Coal	Company	CNX Land Resources
	624636	624651		624660	

age 3 of 9

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Marshall County Marshall Marshall Marshall Franklin Franklin Franklin District Franklin 050001000500000500, 5-2-25-05-0002-0005-0000-40007001200010400 040000013000000400 040007001900000400 40014001000000400 40014001100000400 40014000900000400 40014001400000400 40014000300000400 40007000500010400 40005007500010400 50001000200000500 50001001000000500 50001000300000500 5000100160000500 05000100070000500, 0000, 5-2-5 5-1-16 Tax ID Instrument # Page 332 385 436 268 234 351 123 411 404 406 400 55 127 181 9 Book 312 314 399 312 312 403 311 312 312 312 311 311 311 312 311 5/2/1956 4/9/1968 4/10/1968 Deed Date Smith, Jerry O & Hazel 1/25/1956 1/31/1956 4/19/1956 11/9/1968 12/5/1955 1/20/1956 1/25/1956 1/23/1956 1/25/1956 2/1/1956 1/5/1956 1/7/1956 1/7/1956 Jones, Ruble & Wilma Ritchea, Alvey & Olive Marguerite D Hubbs, Kermit Reed Utter, James & Mary Meeker, Lloyd Jr & Jo Goodrich, Robert A & Goodrich, Clarence E Wilson, Albert M.&. Brown, John J & Margarrett; Brown, Sims, Clara J; Sims, Bottome, Paul E & Rine, James C & Knox, Vernon & Doty, Harry E Eller, Berrell & Doty, Parker L Norma Jea Grantor Roy B & Elsie Florence Clarice E Dessie Ann Reference # 623177 623235 623236 623175 623217 623218 623238 623344 623347 623349 623352 623354 623176 623346 623348 623353 623351

MINERAL INTERESTS Marshall County, WV

EXHIBIT A

Page 4 of 9

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Office of Oil and Gas

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EXHIBIT A
MINERAL INTERESTS
Marshall County, WV

County				Marshall					Marshall							_		Marshall			Marshall				Marshall		Marshall	Marshall			Marshall	
District				Franklin					Franklin									Franklin			Franklin				Franklin		Franklin	Franklin			Franklin	
Tax ID	25-05-0007-0003-0001-	0000, 25-05-0007-0003-	0001-0000, 5-7-3, 5-7-3.3,	5-7-3.4	25-05-0006-0001-0001-	0000, 25-05-0006-0003-	0000-0000, 25-05-0006-	0010-0000-0000, 5-6-14, 5-	9-9	25-05-0006-0003-0000-	0000, 25-05-0006-0010-	0000-0000, 25-05-0006-	0010-0000-0000, 25-05-	0006-0016-0000-0000, 25-	05-0007-0003-0000-0000,	25-05-0007-0003-0001-	0000, 5-7-2, 5-7-2, 5-7-3, 5	7-3.1	25-05-0006-0003-0000-	0000, 25-05-0006-0010-	0000-0000, 5-6-10, 5-6-5	25-05-0006-0004-0000-	0000, 25-05-0006-0010-	0000-0000, 5-6-10, 5-6-11,	5-6-4	25-05-0006-0003-0000-	0000, 5.7-3.2, 5-7-4	5-7-10, 5-7-10.1			5-7-15	
Instrument #																	Q															
Page				326					61									394			26				110		94	379			390	
Book				273					282									282			290				290		290	311			311	
Deed Date				8/17/1950					11/27/1951									1/9/1952			1/1/1953				1/1/1953		1/1/1953	1/16/1956		25	1/7/1956	
Grantor		Loucks, Charles H.	Keister, Fenton O, Jr,	Et Al			Steigner, Frederick J.	Steigner, Anna	Katheryne									Gatts, Alice		Gatts, Elizabeth RJ &	Harley			Cox, Hannah O & J	Frank	Gatts, Lloyd O. & Mary	Wolfe	Wilkinson, Raymond M & Elsie M	Kirkman, Casper	Sanford; Kirkman,	Lillian E	
Reference #			0.0000000000000000000000000000000000000	624061					624073									624074			624080				624081		624083	624123			624124	

ge 5 of 9

RECEIVED Office of Oil and Gas

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EXHIBIT A
MINERAL INTERESTS
Marshall County, WV

Reference #	Grantor	Deed Date	Book	Page	Instrument #	TaxID	District	County
624132	Swaggart, Harry J & Alice V	1/23/1956	312	m		25-05-0006-0003-0000-	e de	Marshall
624133	Elliott, Frank & Martha	1/24/1956	311	467		6.7.15.1	Franklin	Marchal
624135	Denis, John C & Wilma E	1/12/1956	312	16		5-2-12	Franklin	Marshall
624136	Minor, J.L. Et. Al	1/7/1956	312	76		25-05-0006-0002-0000-	Franklin	Marshall
624140	Harris, Donald B & Velma Ruth	1/26/1956	312	50		5-5-1	Franklin	Marshall
624145	Miller, Lester Et Al	1/7/1957	319	326			Franklin	Marshall
624146	Ohio Power Company	4/30/1957	321	319			Franklin	Marshall
624150	Rine, G W & Bessie J	4/9/1956	313	200		25.05.0006-0003.0000-	Franklin	Marshall
624160	Wolff, Delbert &	7921/1262	390	167		5-8-2, 5-8-33, 5-8-38, 5-8-	ri dent	Marchael
	Frank, Alice Leona &					05001200100000500,		TO TO THE PARTY OF
624169	Ben	1/21/1972	425	232	370	050012001000010500	Franklin	Marshall
	Howe, Neva J. Landers, Lena M &					050012002300020501, 050012002300020501, 050012002300020502,		
624302	Richard O	1/30/1958	328	275		050012002300020502	Franklin	Marshall
624504	Consolidation Coal	6/30/2011	745	106	1311172	25-07-0003-0001-0000-0000	Liberty	Marshall
624515	Consolidation Coal Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
624516	Consolidation Coal Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
624517	Consolidation Coal Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
624518	Consolidation Coal Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marchall

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Page 6 of 9

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EXHIBIT A
MINERAL INTERESTS
Marshall County, WV

Reference #	Grantor	Deed Date	Book	Page	Instrument #	Tax ID	District	County
	Consolidation Coal							
624519	Сотрапу	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	Consolidation Coal							
624520	Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	Consolidation Coal							
624521	Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Uberty	Marshall
	Consolidation Coal							
624522	Сотралу	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	Consolidation Coal							
624523	Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	Consolidation Coal							
624524	Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	Consolidation Coal							
624525	Сотрапу	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	Consolidation Coal							
624526	Сотралу	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	Consolidation Coal							
624540	Company	6/30/2011	745	106	1311172	TM 2 Parcel 30	Liberty	Marshall
	McElroy Coal							
624550	Company	6/30/2011	745	128	1311174	7-11-2, 7-11-3, 7-11-8	Liberty	Marshall
	McEiroy Coal							
624648	Сотрапу	6/30/2011	745	128	1311174	7-2-6	Liberty	Marshall
	McElroy Coal							
624689	Company	6/30/2011	745	128	1311174	07-17-22.1, 3-14-36, 3-14-37	Loudenville	Marshall
	Valley Camp Coal							
625057	Company	1/15/1962	355	171		12-2-5, 13-8-11	Sandhill	Marshall
	Consolidation Coal					12-3-5.3, 12-3-5.4, 12-3-7,		
652529	Сотрапу	6/30/2011	745	106	1311172	12-3-7.1	Sandhill	Marshall
						25-12-0015-0015-0000-		
						0000-0000, 25-12-0015-		
	Consolidation Coal					0016-0000-0000, 25-15-		
625271	Company	6/30/2011	745	105	1311172	0004-0003-0000-0000	Sandhill	Advertige

Page 7 of 9

RECEIVED Office of Oil and Gas

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EXHIBIT A
MINERAL INTERESTS
Marshall County, WV

Reference #	Grantor	Deed Date	Book	Page	Instrument #	Tax ID	District	County
36136	Consolidation Coal	rescioci 3	ì			25-12-0015-0014-0000- 0000, 25-12-0015-0015-		
023210	Company	0/30/5011	745	105	13111/2	0000-0000	Sandhill	Marshall
625384	Company	6/30/2011	745	106	1311172	25-12-0005-0001-0000-0000	Sandbill	Marshall
	Consolidation Coal							
625388	Сотрапу	6/30/2011	745	106	1311172	25-12-0006-0003-0002-0000	Sandhill	Marshall
675410	Consolidation Coal	reacture.		i.		25-12-0004-0012-0000-		
677670	Company	6/30/2011	/45	105	1311172	0000-0000	Sandhill	Marshall
625272	Consolidation Coal Company	6/30/2011	745	106	1311172	13-4-37.1	Union	Marshall
	Consolidation Coal							
625363	Company	6/30/2011	745	106	1311172	25-13-005A-0035-0000-0000	Union	Marshall
	Consolidation Coal	CHIRDING REAL				05-18-31, 13-5A-27, 13-5A-		
625368	Company	6/30/2011	745	106	1311172	28	Union	Marshall
	Consolidation Coal							
625378	Company	6/30/2011	745	106	1311172	15-17-33	Union	Marshall
	Consolidation Coal							
625382	Сотрапу	6/30/2011	745	106	1311172	1-4-47, 1-4-49	Union	Marshall
						25-13-005A-0042-0000-		
	Consolidation Coal					0001-0000, 25-13-005A-		
625385	Company	6/30/2011	745	106	1311172	0042-0002-0000	Union	Marshall
	Consolidation Coal							
625386	Company	6/30/2011	745	106	1311172	1-4-50	Union	Marshall
	Consolidation Coal							
625408	Company	6/30/2011	745	106	1311172	13-5A-43	Union	Marshall
	Consolidation Coal							
625412	Company	6/30/2011	745	106	1311172	02-6-19	Union	Marshall
	Consolidation Coal							
625417	Company	6/30/2011	745	106	1311172	1-6-5.2, 1-6-5.4, 1-6-5.4	Union	Marshall
	Consolidation Coal							
625418	Company	6/30/2011	745	106	1311172	13-166-11	Union	KAnadanii

Page 8 of 9

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USDK 0752 PAGE 0088

EXHIBIT A
MINERAL INTERESTS
Marshall County, WV

Reference #	Grantor	Deed Date	Book	Page	Instrument #	Tax ID	District	County
000000	Consolidation Coal	e Inc. Inc.		34 34 34	30.00 30.000	13-1-40, 13-1-42, 13-1D-1,		
625420	Company	6/30/2011	745	106	1311172	13-1D-60	Union	Marshall
	Consolidation Coal							
625421	Сатрапу	6/30/2011	745	106	1311172	10.8.19	Union	Marshall
	Consolidation Coal							
625422	Сотрапу	6/30/2011	745	106	1311172	13-1-46.7	Union	Marshall
	Consolidation Coal							
625425	Company	6/30/2011	745	106	1311172	13-16-19.11	Union	Marshall
	Consolidation Coal							
625426	Company	6/30/2011	745	106	1311172	10-8-21	Union	Marshall
	Consolidation Coal							
625431	Company	6/30/2011	745	106	1311172	13-10-2, 13-1D-60	Union	Marshall
	Conrhein Coal							
389878	Company	6/30/2011	745	83	1311170	15-5-11	Webster	Marshall
	Consol Pennsylvania							
389894	Coal Company LLC	6/30/2011	745	94	1311171	25-15-0005-0011-0000-0000	Webster	Marshall
	Consol Pennsylvania							
60668E	Coal Company LLC	6/30/2011	745	94	1311171	25-15-0005-0012-0000-0000	Webster	Marshall
	Consol Pennsylvania							
389961	Coal Company LLC	6/30/2011	745	94	1311171	25-15-0005-0013-0000-0000	Webster	Marshail
	Consol Pennsylvania					15-14-6.1, 15-8-45, 15-8.		
390075	Coal Company LLC	6/30/2011	745	94	1311171	45.1	Webster	Marshall
	Consolidation Coal							
625277	Company	6/30/2011	745	106	1311172	25-15-0004-0015-0000-0000	Webster	Marshall
	Consolidation Coal							
625404	Company	6/30/2011	745	106	1311172	25-15-0005-0003-0000-0000	Webster	Marshall
	Consolidation Coal							
625439	Сотрапу	6/30/2011	745	106	1311172	08-11-97	Wahster	Marcha

Page 9 of 9

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SEP 2 1 2015

BDDK 0 752 PAGE 0 0 8 9

EXHIBIT B

MARCELLUS WELLS

WELL NAME	API NUMBER	UWI	STATE	COUNTY	AREA
SHLIBHS	4705101387	WV0510311HS	WV	MARSHALL	MAJORSVILLE

Ехнівіт В-1

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EXHIBIT C RIGHTS OF WAY

None

Ехнівп С-1

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WV Department of Environment 0/02/2015 on

30K0752 PAGEO 0 9 I

EXHIBIT D

EXCLUDED ASSETS

For purposes of this Deed, "Excluded Assets" means:

- (a) all of Grantor's corporate minute books and corporate financial records that relate to Grantor's business generally (including the ownership and operation of the Conveyed Interests);
- (b) all trade credits, all accounts, receivables and all other proceeds, income or revenues attributable to the Conveyed Interests with respect to any period of time prior to the Effective Time;
- (c) all claims and causes of action of Grantor arising under or with respect to any Contracts
 that are attributable to periods of time prior to the Effective Time (including claims for
 adjustments or refunds);
- (d) subject to Section 5.4 of the Acquisition Agreement, all rights and interests of Grantor (i) under any policy or agreement of insurance or indemnity, (ii) under any bond or (iii) to any insurance or condemnation proceeds or awards arising, in each case, from acts, omissions or events, or damage to or destruction of property;
- (e) all Hydrocarbons produced and sold from the Properties with respect to all periods prior to the Effective Time, other than those Hydrocarbons attributable to the Conveyed Interests and in storage or existing in stock tanks, pipelines or plants (including inventory) as of the Effective Time;
- (f) all claims of Grantor for refunds of or loss carry forwards with respect to (i) Asset Taxes attributable to any period, or portion thereof, prior to the Effective Time, (ii) income or franchise Taxes or (iii) any Taxes attributable to the Excluded Assets;
- (g) all offices (including any owned or leased real or immovable property relating thereto) and personal computers and associated peripherals and all radio and telephone equipment and licenses relating thereto;
- (h) all of Grantor's proprietary computer software, patents, trade secrets, copyrights, names, trademarks, logos and other intellectual property;
- all servitudes, easements, rights-of-way, surface fee interests, surface leases and other surface use agreements not primarily used or held for use in connection with the ownership or operation of the Properties or the Personal Property;

EXHIBIT D-1

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- all documents and instruments of Grantor that may be protected by an attorney-client privilege;
- (k) all data and Contracts that cannot be disclosed to Grantee as a result of confidentiality arrangements under agreements with Third Parties;
- all audit rights arising under any of the Applicable Contracts or otherwise with respect to any period prior to the Effective Time or to any of the Excluded Assets, except for any Imbalances assumed by Grantee;
- (m) all geophysical and other seismic and related technical data and information relating to the Properties or other Conveyed Interests to the extent that such geophysical and other seismic and related technical data and information is not transferable without payment of a fee or other penalty (unless Grantee agrees to, and does, pay such fees and penalties) or not otherwise set forth in Schedule 2.1 to the Acquisition Agreement;
- (n) documents prepared or received by Grantor or its Affiliates with respect to (i) lists of prospective purchasers for such transactions compiled by Grantor or its Affiliates, (ii) bids submitted by other prospective purchasers of the Conveyed Interests or any other interest in the Properties, (iii) analyses by Grantor or its Affiliates of any bids submitted by any prospective purchaser, (iv) correspondence between or among Grantor or its Affiliates or their respective representatives, and any prospective purchaser other than Grantee and (v) correspondence between Grantor or its Affiliates or any of their respective representatives with respect to any of the bids, the prospective purchasers, or the transactions contemplated in this Agreement;
- (o) all trucks, cars and drilling/workover rigs utilized by Grantor or its Affiliates in connection with the ownership or operation of the Conveyed Interests;
- (p) all Hedge Contracts;
- (q) all proceeds and amounts held in suspense as of Closing that are attributable to the Hydrocarbons produced from the Properties;
- (r) Overhead Costs payable to Grantor or any Affiliate of Grantor as an Operator of the Conveyed Interests attributable to the period between the Effective Time and the Closing Date;
- files and records attributable to the Conveyed Interests that are maintained by Grantor that are not primarily used or held for use in connection with the operatorship or ownership of the Conveyed Interests;
- any Conveyed Interests described in Section 2.1(b) that are not assignable;
- (u) any Retained Interest;

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- (v) all Existing Gathering Assets;
- (w) the Antero ORRI:
- (x) all rights to coal and substances mined in connection therewith;
- (y) any Additional Interests acquired by Grantor during the Interim Period in the Development Area with respect to which Grantee elects not to acquire its participating share pursuant to the terms of the Development Agreement;
- (z) all water rights;
- (aa) the Downstream Contracts, the NJR Contracts and the Peoples Contract;
- (bb) all Contracts which are held or to be held by Grantor in its capacity as operator of the Development Area set forth on Exhibit A-2 to the Development Agreement, including drilling Contracts and services Contracts;
- (cc) all Pipeline Imbalances; and
- (dd) all SCADA Equipment and Federal Communication Commission licenses.

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WV Department of Environmental Protection

Ехнівіт D-3

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the	County Commission of said County, do hereby certify that the annexed writing, bearing
date on the . Society of Sergers in the	was presented for and by me, admitted to record in my office upon the
above certificate as to the parties therein named	this 5th day of December 2011 at 10:22 o'clock A.M.
CPS 5M 10-11	TESTE: Jan Pest Gerk
CPS 5M 10-11	TESTE CORK.

UDBX 646 . PAGE 493

DB 646-493

DEED

Marshall County, West Virginia

STLTDE & JUNESH MLC P D BOX 1616 MORGWIDGH, W 26507-1616

THIS DEED is made and entered into as of the dist day of Tely. 2005, by and among CNX LAND RESOURCES INC, a Delaware corporation, CONSOLIDATION COAL COMPANY, a Delaware corporation, CONSOL PENNSYLVANIA COAL COMPANY, a Delaware corporation, CONRHEIN COAL COMPANY, a Pennsylvania partnership, McELROY COAL COMPANY, a Delaware corporation, and RESERVE COAL PROPERTIES COMPANY, a Delaware corporation, all of whom are herein referred to collectively as "Grantors," and CNX GAS COMPANY LLC, a Virginia limited liability company, herein referred to as "Grantee."

WITNESSETH: That, for good and valurable consideration, and for the purpose of vesting in one entity (i) title to all of the reserves of, (ii) ownership of all of the mineral rights in and to, and (iii) control of all of the operating assets and contract rights related to. Coalbed Methane and Oil and Natural Gas (as such terms are herein defined) vested in or controlled by any of the Grantors in Marshall County, West Virginia. Grantors hereby grant, convey, assign and transfer to Grantee, with covenants of special warranty, subject to the terms and provisions of that certain Master Cooperation and Safety Agreement dated the Ist day of Aggs 1. 2005 (herein, the "Master Agreement"), all of their respective rights, titles, interests, claims and estates in and to the following assets (herein, the "Transferred Assets"):

- (A) <u>Coalbed Methans</u> All of Grantors' right, title, interest, estate and claim in and to Coalbed Methane recoverable from any tract of land, coal tract, seam or vein of coal or other real estate owned or leased by any of the Grantors situate in whole or in part in Marshall County, West Virginia;
- (B) Oil and Natural Gas. All of the Oil and Natural Gas owned or leased by any of the Grantors within and underlying any tract or parcel of land situate in whole or in part in TAN PCSI the Marshall County, West Virginia.

 WEST LOUNTY 11:24:19 68 Instrument to 01:319

HANSIMAL County 11:24:19 44 Instrument to 01310 Recorded Date 08/03/2005 Document Tyre DEED Book-Pose 646-493 Rec/030 Fee 183.00 19.00 Transfer Tax 2501.40

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- (C) Leases & Operating Agreements. All of Grantors' right, title, interest and estate in and under any and all leases, licenses, operating agreements and other contracts and agreements whereby the right or privilege of exploring and drilling for, operating, producing, marketing and/or selling the Coalbed Methane and the Oil and Natural Gas hereby conveyed and assigned to Grantee has been leased, granted, licensed or assigned to one or more third parties:
- (D) Wells & Equipment. Any and all wells, well equipment, machinery, compressors, pipelines, processing stations and other equipment, machinery or facilities owned or leased by any of the Grantors which are used or useful in connection with the drilling, production, transportation, compression, processing and/or marketing the Coalbed Methane and the Oil and Natural Gas hereby conveyed to Grantee;
- (E) Easements. Any and all drilling, operating, producing, gathering, transporting and other appurtenant surface and/or subsurface easements, rights and privileges vested in any of the Grantors with respect to the Coalbed Methane and the Oil and Natural Gas hereby conveyed to Grantee;
- (F) <u>Contracts</u>. Any and all rights of any of the Grantors existing under any contracts, agreements or other undertakings for the processing, transporting, marketing and sale of the Coalbed Methane and the Oil and Natural Gas hereby conveyed to Grantee.

The Transferred Assets are more particularly identified and described on Exhibit A attached hereto: provided, however, it is the intent of the Grantors to transfer and convey to Grantee all assets located in Marshall County, West Virginia which are described in the granting clauses above, whether or not such assets are listed on Exhibit A; and, provided, further, that, to the extent that any power lines, water lines, communication facilities, other facilities, contract rights or appurtenances hereinabove described relate to shared facilities between coal operations and gas operations, this Deed shall operate to assign only such rights as are related solely to gas operations and activities; and, provided, further, that, notwithstanding anything herein to the centrary, this Deed shall not operate to divest any of the Grantors of, or to confer on Grantee, any coal mining rights or privileges or any subsidence rights with respect to any real estate embraced within or described by the granting clauses of this Deed.

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Covenant of Further Assurances

Grantors covenant with Grantee that the Grantors, and each of them, will provide such further assurances and execute such additional instruments as may be necessary or reasonably appropriate to evidence Grantee's title to the Transferred Assets.

Definitions

As used in this Deed, the term "Coalbed Methane" means any gas, hydrocarbon, or gaseous substance which can be produced from a coal seam, the rock or other strata in communication with a coal seam, a mined-out area or a gob well, but including within such term only such constituent minerals, gases and chemicals which are commonly recognized as of the date of this Deed as being marketable as "coalbed methane."

As used in this Deed, the term "Oil" means any and all natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced in liquid form by ordinary production methods, and the term "Natural Gas" means any and all gas, other fluid hydrocarbons which are not Oil and other gaseous substances, other than Coalbed Methane, recoverable or produceable from any subterranean formation, but including within such terms only such constituent minerals, fluid or gaseous hydrocarbons and chemicals which are commonly recognized as of the date of this Deed as being marketable as "oil" or as "natural gas."

Reddendum

Grantors hereby except from this conveyance, and reserve unto themselves, their successors and assigns, all tracts or parcels of land, surface tracts, coal tracts, mineral tracts and other real estate, or interests in real estate, now or hereafter owned, leased or otherwise claimed by any of them in Marshall. County West Virginia, except for the Coalbed Methane, the Oil and Natural Gas and the other Transferred Assets hereby conveyed, transferred and assigned to Grantee. Notwithstanding the conveyance and transfer by this Deed of the Grantors' rights, titles, interests and claims in and to Coalbed Methane, and without limiting the rights and obligations set forth in the Master Agreement (which rights and obligations are incorporated herein in their entirety), Grantors expressly reserve to themselves, their successors and assigns, any and all coal mining rights and privileges and any and all subsidence rights vested in them, expressly or by implication, with respect to any real estate embraced within or described by the

3

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granting clauses of this Deed, including, without limitation, the right and privilege to ventilate their mines and coal seams by discharging therefrom any coalbed gas, methane or other gaseous substances which may be found therein or which may migrate thereto without liability or obligation to account to Grantee, except as may be provided to the contrary in the Master Agreement.

Incorporation of Master Agreement Provisions

Grantors and Grantee hereby incorporate by reference all of the terms and provisions of the Master Agreement which relate to the exercise of the rights hereby reserved by Grantors and the exercise of the rights hereby granted to Grantee, including, without limitation, the provision that Grantors' coal operations shall at all times prevail over Grantee's Coalbed Methane or Oil and Natural Gas operations. The terms and provisions of the Master Agreement shall be deemed to be covenants which run with the land, which shall survive the termination of the Master Agreement.

Third Party Consents

Notwithstanding anything to the contrary provided in this Deed, to the extent that the conveyance, assignment or transfer of any portion of the Transferred Assets is prohibited by the terms of a deed, deed of trust, lease, contract, agreement or other instrument, or would result in a breach or default by Grantors under any such instrument, or the termination of Grantors' rights in or title to any portion of the Transferred Assets due to the conveyance, assignment or transfer of such Transferred Asset(s) without the consent of a former grantor, deed of trust beneficiary, lessee or other third party, then, in such event, the Transferred Assets shall not include, and shall exclude, such portion of the Transferred Assets as may be affected by such prohibition or requirement for third party consent unless and until such prohibition has been waived or all requisite third party consents have been obtained.

Grantee's Covenants

The Grantee hereby accepts the conveyance, assignment and transfer of the Transferred Assets upon the terms and conditions herein provided, including, without limitation, the terms and conditions of the Master Agreement which are incorporated herein by reference. The Grantee covenants with the Grantors, their successors and assigns, that, in the exercise of

4

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SEP 2 1 2015

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the rights acquired by Grantee under this Deed, the Grantee, and its successors and assigns, will be bound by all of the foregoing terms and conditions.

Declaration of Consideration or Value

The undersigned Grantors hereby declare that the true and actual value of the Coalbed Methane and the Oil and Natural Gas transferred by this Deed is estimated to be

\$ 568, 171.00

WITNESS the following execution:

ATTEST:

By: Jayempie

Name: Paige M. Greene Its: Assistant Secretary

ATTEST:

Name: Paige M. Greene
Its: Assistant Secretary

ATTEST:

By: Fug Qu Name: Paige M. Greene Its: Assistant Secretary

ATTEST:

Name: Paige M. Greene Its: Assistant Secretary CNX LAND RESOURCES INC.,

a pelawate corporatipa

Name: William D. Stanhagen Its: President

CONSOLIDATION COAL COMPANY, a Dulawate comporation

By William D. Stanhage Its: Vice President

CONSOL PENNSYLVANIA COAL COMPANY, Delawage corporation

Name: William D. Stanhagen Its: Vice President

CONRHEIN COAL COMPANY, a Polynsylvanja palynerstrip

Name: William D. Stanhagen

Its: Manager

5

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ATTEST: McELROY COAL COMPANY. Name: Paige M. Greene Name! Vice President Its. Assistant Secretary its: RESERVE COAL PROPERTIES ATTEST: corporation Name: Paige M. Greene Name: William D. Stanhage President Its: lis: Assistant Secretary ATTEST: CNX GAS COMPANY LLQ Name: Paige M. Greene Name: William D. Stanhagen Vice President Assistant Secretary Its: Its: COMMONWEALTH OF PENNSYLVANIA. COUNTY OF ALL EGHENY, TO-WIT: I, the undersigned notary public, do certify that WILLIAM D. STANHAGEN, the President of CNX Land Resources Inc., who signed the writing hereto annexed, hearing date of the At day of JULY 2005, has this day in my said county, before me, acknowledged the same to be the act and deed of said corporation. Given under my hand this 31 day of June, July, 2005. My commission expires: _ (NOTARIAL SEAL) COMMONWEALTH OF PENNSYLVANIA
Noticital Seas
Jano M. Young, Netary Public
Upper St. Calir Thys., Adoptiony County
My Commission Expline June 20, 2009

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BBBX 646 AT 499

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF ALLEGHENY, TO-WIT: I, the undersigned notary public, do certify that WILLIAM D. STANHAGEN, the Vice President of Consolidation Coal Company, who signed the writing hereto annexed, bearing date of the 21 day of They, 2005, has this day in my said county, before me, acknowledged the same to be the act and deed of said corporation. Given under my hand this 31 day of Nicy , 2005. My commission expires: (NOTARIAL SEAL) COMMONWEALTH OF PENNSYLVANIA Notarial Seal Jane M. Young, Notary Public Upper St. Clair Twp., Alloghony County My Commission Expires June 20, 2009 COMMONWEALTH OF PENNSYLVANIA, COUNTY OF ALLEGHENY, TO-WIT: I, the undersigned notary public, do certify that WILLIAM D. STANHAGEN, the Vice President of Consol Pennsylvania Coal Company, who signed the writing hereto annexed, bearing date of the 21 day of TUY, 2005, has this day in my said county, before me, acknowledged the same to be the act and deed of said corporation. Given under my hand this all day of MLLY, 2005. My commission expires: ___ (NOTARIAL SEAL) COMMONWEALTH OF PENNSYLVANIA Notariel Seal Jame M. Young, Notary Public Upper St. Clair Twp., Allegheny County My Commission Expinss June 20, 2009

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BOX 646 A 2500

COMMONWEALTH OF PENNSYLVANIA. COUNTY OF ALLEGHENY, TO-WIT: I, the undersigned notary public, do certify that WILLIAM D. STANHAGEN. the Manager of Conrhein Coal Company, who signed the writing hereto annexed, bearing date of the 31 day of JULY, 2005, has this day in my said county, before me, acknowledged the same to be the act and deed of said partnership. Given under my hand this 21 day of TUY 2005. My commission expires: _ (NOTARIAL SEAL) COMMONWEALTH OF PENNSYLVANIA Notarial Soal Jone M. Young, Notary Public Upper St. Clair Twp., Alleghony County My Commission Expines June 20, 2009 COMMONWEALTH OF PENNSYLVANIA, COUNTY OF ALLEGHENY, TO-WIT: I, the undersigned notary public, do certify that WILLIAM D. STANHAGEN. the Vice President of McElroy Coal Company, who signed the writing hereto annexed, bearing date of the 31 day of JULY, 2005, has this day in my said county, before me, acknowledged the same to be the act and deed of said corporation. Given under my hand this 21 day of JUCY, 2005. My commission expires: _ (NOTARIAL SEAL) COMMONWEALTH OF PENNSYLVANIA Notarial Seal Jane M. Young, Notary Public Upper St. Clair Twp., Allegherry County My Commission Expires June 20, 2005

8

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EGM 646 MESOI

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF ALLEGHENY, TO-WIT: I, the undersigned notary public, do certify that WILLIAM D. STANHAGEN, the President of Reserve Coal Properties Company, who signed the writing hereto amexed, bearing date of the 31 day of JULY . 2005, has this day in my said county, before me, acknowledged the same to be the act and deed of said corporation. Given under my hand this Al day of MILY , 2005. My commission expires: _____ (NOTARMEL SEOF PENNSYLVAMA Notario Soal
Jane M. Young, Notary Public
Upper St. Clair Tryp., Alogisery County
My Commission Expine June 20, 2009
Membay, Pennsylvania Association of Notar COMMONWEALTH OF PENNSYLVANIA, COUNTY OF ALLEGHENY, TO-WIT: I, the undersigned notary public, do certify that WILLIAM D. STANHAGEN, the Vice President CNX Gas Company LLC, who signed the writing hereto annexed, bearing date of the 1/2 day of 1114, 2005, has this day in my said county, before me, acknowledged the same to be the act and deed of said limited liability company. Given under my hand this 31 day of 30.0 , 2005. My commission expires: __ (NOTARIAL SEAL) Notary Public Jane M. Young, Notarial Sea Jane M. Young, Notary Public Upper St. Clair Twp., Allopheny County My Commission Expires June 20, 2809 ember, Penesylvania Association of Actaries This Deed was Prepared by: James A. Russell, Esquire Steptoe & Johnson PLLC United Center, Suite 400 1085 Van Voorbis Road Morgantown, WV 26507-1616

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NOILE ENERGY ATTH: BRIAN LEGISHARD 1000 NOBLE ENERGY DRIVE CANDNSHURG, PA 15317-9513

STATE OF WEST VIRGINIA COUNTY OF MARSHALL

ASSIGNMENT OF OIL AND GAS LEASES

THIS ASSIGNMENT OF OIL AND GAS LEASES (the "Assignment") is made and entered into this 2 nd day of 3015 (the "Effective Date"), among Chevron U.S.A. Inc., a Pennsylvania corporation (hereinafter "Assignor") and Noble Energy, Inc., a Delaware corporation, and CNX Gas Company, LLC a Virginia limited liability company (collectively hereinafter "Assignees").

WITNESSETH:

WHEREAS, Assignor is the owner of all of the right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, which are described in Exhibits "A" and "A-1", attached hereto and made a part hereof (hereinafter the "Leases"); and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignees all of Assignor's right, title, and interest in and to the Leases as described below.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

1. <u>Assignment.</u> Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignees, their respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon.

TO HAVE AND TO HOLD such right, title and interest in and to the Leases unto Assignees or their designee, and their respective successors and assigns, forever, in accordance with the provisions of this Assignment.

2. Representations and Warranties. Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered its interest in the Leases since the time that Assignor obtained its interests in the Leases. Assignor does covenant, promise and agree, to and with the Assignees, their respective successors and assigns, to forever specially warrant and defend the title to the Leases, or portions thereof included under this Assignment, unto the Assignees and their respective successors and assigns, against the lawful claims of Assignor, and all persons claiming, or to claim, by through or under Assignor.

Assignor represents and warrants that Assignor has paid any and all bonuses, rentals, royalties, overriding royalties, and other payments required by the Leases which were due for the period in which Assignor held its interests in the Leases, and that Assignor has fully performed all conditions necessary to maintain the Leases in full force and effect during such period.

- 3. Successors and Assigns. The terms of this Assignment shall be binding upon and inufficed the benefit of the parties hereto and each of their respective successors and assigns, and such terms shall of Oil 8. Gas be covenants running with the land, and with each subsequent transfer or assignment thereof. Office of Oil 8.
- 4. <u>Further Assurances.</u> Assignor and Assignees hereby agree to take all actions Audit 0 3 2015 execute, acknowledge, and deliver all such instruments as are necessary or advisable to effectuate the purposes of this Assignment.
- 5. <u>Counterparts</u>: <u>Recordation</u>. This Assignment may be executed in any number of counterparts, each of which will be deemed an original instrument, but all of which shall collectively constitute one and the same instrument; provided that none of the parties will be bound to this Assignment unless and until all parties have executed a counterpart. For recording purposes, the signature and/or acknowledgment pages from multiple counterparts may be combined with one or more other counterparts without affecting the effect or validity of this Assignment. Assigness will be responsible for recording this Assignment in the appropriate public record, and will bear any costs associated with such recording.
- 6. <u>Drafting.</u> Preparation of this Assignment has been a joint effort of the parties and the resulting Assignment must not be construed more severely against any of the parties than against any other.
- 7. <u>Incorporation</u>. This Assignment is subject to and expressly incorporates the terms of that certain Exchange Agreement dated <u>July 2, 2015</u> ("Exchange Agreement") executed by and

between Assignor and Assignees. The Exchange Agreement will govern to the extent of any conflict between the terms of this Assignment and the Exchange Agreement.

IN WITNESS WHEREOF, and intending to be legally bound hereby, Assignor and Assignees have caused this Assignment to be duly executed the day and year first above written.

ASSIGNEES:

CNX GAS COMPANY LLC

By: Richard K. ELSWICK DUA Title: VICE PRESIDENT

NOBLE ENERGY, INC.

ASSIGNOR:

CHEVRON U.S.A. INC.

Jan Pest
MARSHALL County 03:12:34 PM
Instrument No 1383131
Date Recorded 07/13/2015
Document Type ASM
Pages Recorded 5
Book-Page 34-502
Recording Fee \$5.00
Additional \$6.00

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Office of Oil 8 Gas
AUG 0 3 2015

CORPORATE ACKNOWLEDGEMENT

STATE/COMMONWEALTH OF Pennsylvania
COUNTY OF Allegheny SS:
On this the 2 nd day of July, 2015, before me, <u>Lucia Romanello</u> the undersigned authority, personally appeared <u>Marc Tate</u> , who acknowledged himself to be the <u>Attorney-In-Fact</u> of CHEVRON U.S.A. INC., a Pennsylvania corporation, and that he as such <u>Attorney-In-Fact</u> , being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as <u>Attorney-In-Fact</u> .
IN WITNESS WHEREOF, I hereto set my hand and official seal.
MY COMMISSION EXPIRES: COMMONWEALTH OF PENNSYLVANIA Notarial Seal Lucia Romaneide, Notary Public Moon Twp., Allegheny County My Commission Expires Sept. 23, 2016 MEMBER, PENNSYLVANIA ASSOCIATION OF ROTARIES
CORPORATE ACKNOWLEDGEMENT
STATE/COMMONWEALTH OF Pannsylvanja
COUNTY OF Washington SS:
On this the 7th day of July 2015, before me, Jill Morrow the undersigned authority, personally appeared Case Mimble who acknowledged himself to be the Afformed for Noble Energy, Inc., a Delaware corporation, and that he as such afformed by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purposes therein contained by signing the name of the corporation by himself as Afformed for the purpose for the
IN WITNESS WHEREOF, I hereto set my hand and official seal.
MY COMMISSION EXPIRES: COMMONWEALTH OF PENNSYLVANIA Notarial Seel Jill A. Morrow, Notary Public Cecil Trey, Washington County My Commission Expires Jan. 9, 2017 MEMBER, PENISYLVANIA ASSOCIATION OF NOTARIES
LIMITED LIABILITY COMPANY ACKNOWLEDGEMENT
STATE/COMMONWEALTH OF WOLF VIRIAN
On this the day of the undersigned authority, personally appeared Richard K. Elswick, who received acknowledged himself to be a Vice President of CNX Gas Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Company LLC, a Virginia limited fiftee of Oil & Comp
instrument for the purposes therein contained by signing the name of the limited liability company AUG 0 3 2015
IN WITNESS WHEREOF, I hereto set my hand and official seal.
MY COMMISSION EXPIRES: 1.2.2022 Authorized
Prepared by: NOBLE ENERGY, INC. 1000 Noble Energy Drive Canonsburg, PA 15317 OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRIGIAN KARIME LEONARD R 5 Bor 728, Clarksburg, My Commission Environ. Ny Commission Environ.

EXHIBIT "A" TO THAT CERTAIN EXCHANGE AGREEMENT BY AND AMONG CHEVRON U.S.A. INC., NOBLE ENERGY, INC. AND CNX GAS COMPANY LLC, with an Effective Date of July 2, 2015

LEASE SCHEDULE

All of Chevron's right, title, and interest in and to the following Leases, to the extent covering the land described therein:

1. *Lessor: Eugene C. Estep and Elizabeth A. Estep

Lessee: Chevron, U.S.A., Inc. Effective Date: March 27, 2015 Recording Data: Book 861, Page 613

Lessor: James R. Chaplin 2. Lessee: NPAR LLC

Effective Date: August 27, 2010 Recording Data: Book 718, Page 322

3. Lessor: Lloyd Rutan and Lisa J. Gibson

Lessee: Chevron U.S.A., Inc. Effective Date: March 9, 2013 Recording Data: Book 793, Page 298

4. Lessor: Brenda Dufford Lessee: Chevron U.S.A., Inc. Effective Date: March 9, 2013 Recording Data: Book 793, Page 303

5. Lessor: Jim Arritt, Jr.

Lessee: Chesapeake Appalachia, LLC Effective Date: July 27, 2010 Recording Data: Book 717, Page 229

6. Lessor: Jim Arritt and Donna Jean Arritt Lessee: Chesapeake Appalachia, LLC Effective Date: July 27, 2010 Recording Data: Book 717, Page 231

> *Insofar and only Insofar as pertaining to the portion of the lease lying southwest of a RECRIFED intersects the following points using NAD 1927 State Plane West Virginia North Office of Oil & Gas

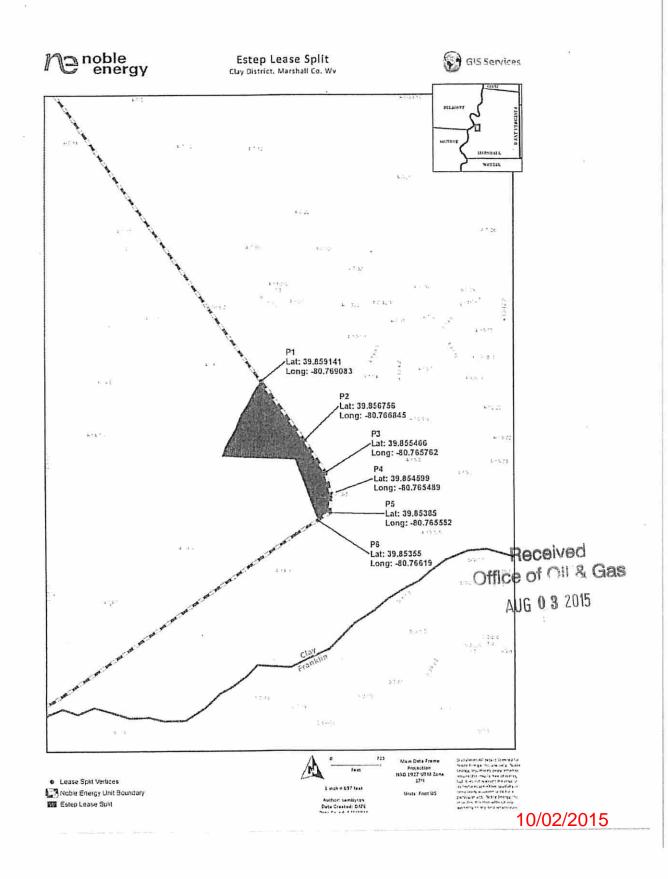
- 1. Latitude 39.859141, Longitude -80.769083,
- 2. Latitude 39.856756, Longitude -80.766845,
- 3. Latitude 39.855466, Longitude -80.765762
- 4. Latitude 39.854599, Longitude -80.765489
- 5. Latitude 39.85385, Longitude -80.765552
- 6. Latitude 39.85355, Longitude -80.76619

and stipulated to contain 25.04 (Twenty-Five and 4/100) acres, more or less and depicted on Exhibit A-1 (attached hereto and made a part hereof).

AUG 0 3 2015

EXHIBIT "A-1"

EXHIBIT "A-1" TO THAT CERTAIN ASSIGNMENT OF OIL AND GAS LEASES BETWEEN CHEVRON U.S.A. INC., AS ASSIGNOR, AND NOBLE ENERGY, INC. AND CNX GAS COMPANY LLC, AS ASSIGNEES with an Effective Date of July 2, 2015





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

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 dee.swiger@nblenergy.com or 724-820-3061.

Sincerel

Dee Swiger

Regulatory Analyst III

DS/

Enclosures:

Office of Oil & Gas

Date of Notice Certification: 7 30-15

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

API No. 47- 051

			Operator's	Well No. MN	D 1 HHS
				Name: MND 1	
Purs	uant to th		§ 22-6A, the Operator has provided the req	uired parties w	vith the Notice Forms listed
		tract of land as follows:	Easting	510214 071	
State	oty:	West Virginia Marshall	UTM NAD 83 Easting: Northing:	519314.071 4411127.631	
	rict:	Clay	Public Road Access:	County Highwa	nv 88/8
	drangle:	Powhatan Point	Generally used farm name:		Murray American Energy DBA Consolidation Coa
	ershed:	Short Creek - Ohio River (Huc 10)			
oresont had not not got of got	cribed by as provided mation reliving the irements inia Code	the secretary, shall be verified and s ed the owners of the surface describ equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o	every permit application filed under this hall contain the following information: (14 ped in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the recurvey pursuant to subsection (a), section to f this article were waived in writing by ender proof of and certify to the secretary at.	4) A certification (b), section (b), section (b), section (c), section	on from the operator that (i) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice yner; and Pursuant to West
tha	t the Ope	rator has properly served the require	perator has attached proof to this Notice Cod parties with the following:	ertification	OOG OFFICE USE
*PL	EASE CHE	ECK ALL THAT APPLY			ONLY
	1. NOT	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT		RECEIVED/ NOT REQUIRED
	2. NO	FICE OF ENTRY FOR PLAT SURV	YEY 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			Z RECEIVED
■					a may magazina a agus a taga a ta
		BLIC NOTICE			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 by the 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 affidable of personal service, the return receipt card or other postal receipt for certified mailing.

AUG 03 2015

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 Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal 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 obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:

By:

Dee Swiger

Regulatory Analyst III

Regulatory Analyst III

724-820-3061

Address: 1000 Noble Energy Drive

Canonsburg, PA 15317

Facsimile: 724-416-5248

Email: dee.swiger@nblenergy.com

COMMONWEA THE CE PENNSYLVANIA

Regina Logue 1. . . . Public

New Sewickley True - - - County

My Commission E 7, 2018

WEMBER, PENNSTLVANIA RESOCIALISM OF NOTARIES

Subscribed and sworn before me this 23 ndday of Q

Notary Publ

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 deprivacyofficer@wv.gov.

Received
Office of Oil & Gas
AUG 0 3 2015

WW-6A (9-13)

API NO. 47- 051 -	
OPERATOR WELL NO.	MND 1 HHS
Well Pad Name: MND 1	

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

Notic	ce Time Requirem	ent: notice sha	ll be provided no later	than the filing date of permit application.
	of Notice:7/30//	≶ Date Permi	it Application Filed:	7/30/15
V	PERMIT FOR AN WELL WORK	Υ 🔲		APPROVAL FOR THE OF AN IMPOUNDMENT OR PIT
Deliv	ery method pursu	ant to West V	irginia Code § 22-6A	-10(b)
	PERSONAL SERVICE	REGIST MAIL		THOD OF DELIVERY THAT REQUIRES A CEIPT OR SIGNATURE CONFIRMATION
certification ce	icate of approval for tered mail or by any nent control plan req urface of the tract on ad gas leasehold beir ibed in the erosion a ttor or lessee, in the c coal seams; (4) The work, if the surface t undment or pit as de a water well, spring de water for consum used well work activ tection (b) of this sect ds of the sheriff requision of this article to R. § 35-8-5.7.a req	the construction method of deliving developed by a	on of an impoundment of the proposed to be a seven of this article, are is or is proposed to be a the proposed well work the proposed well work the proposed well work the plan submitted pure of the surface tract of the surface tract of the surface tract of the placement, coronnine of this article; (if source located within the planes of the surface animals; see. (c)(1) If more than the test in the lands, the application of the pursuant to section to be a lien holder is that the operator shall also	late of the application, the applicant for a permit for any well work or for a repit as required by this article shall deliver, by personal service or by pt or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1) The owners of record of located; (2) The owners of record of the surface tract or tracts overlying the confidence is to be used for roads or other land disturbance as resuant to subsection (c), section seven of this article; (3) The coal owner, all proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed instruction, enlargement, alteration, repair, removal or abandonment of any (5) Any surface owner or water purveyor who is known to the applicant to one thousand five hundred feet of the center of the well pad which is used to and (6) The operator of any natural gas storage field within which the hree tenants in common or other co-owners of interests described in iteant may serve the documents required upon the person described in the one eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. to provide the Well Site Safety Plan ("WSSP") to the surface owner and any ang as provided in section 15 of this rule.
☑ A	pplication Notice	☑ WSSP Not	ice 🛮 E&S Plan Not	ice Well Plat Notice is hereby provided to:
	RFACE OWNER(☑ COAL OWNER OR LESSEE Name: Consol Mining Company / Ryan Arp
	e: Murray Energy Cor ess: 46226 National I		VVIII	Address: 1000 Consol Energy Drive
	Clairsville, OH 43950	1000		Canonsburg, PA 15317
Nam				COAL OPERATOR
	ess:			Name: Consolidation Coal Company (Alex O'Neill)
				Address: 46226 National Road
☑ SU	RFACE OWNER(s) (Road and/or	Dther Disturbance)	Saint Clairsville, OH 43950
	e: Wendell B. & Caroy		<u></u>	☐ SURFACE OWNER OF WATER WELL
Addr	ess: 918 Kansas Rid	ge Lane		AND/OR WATER PURVEYOR(s)
100000				Name: No water purveyors with in 1500'
Nam	e:			Address:
Addr	ress:		-	TOPEN LEON OF LANGUAGE PLANTS OF THE PARTY O
				U OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	RFACE OWNER(Name:
Nam	e:			OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name:
Addı	ress:			*Please attach additional forms if necessary AUG 0 3 2015
				AUU U 3 /1115

API NO. 47- <u>051</u>	
OPERATOR WELL NO.	MND 1 HHS
Well Pad Name: MND 1	

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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 lake of the lake or reservoir. 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 in the department may, 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 relate to the 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

API NO. 47-051 -

OPERATOR WELL NO. MND 1 HHS

Well Pad Name: MND 1

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 printed comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Office of Oil & Gas

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

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AUG 03 2015

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 OPERATOR WELL NO. MND 1 HHS
Well Pad Name: MND 1

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.

Office of Oil & Gas

AUG 0.3 2015

API NO. 47-051 OPERATOR WELL NO. MND 1 HHS
Well Pad Name: MND 1

Notice is hereby given by:

Well Operator: Noble Energy, Inc.

Telephone: 724-820-3061 Email: dee.swiger@nblenergy.com Address: 1000 Noble Energy Drive

Canonsburg, PA 15317 Facsimile: 724-416-5248

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 deprivacyofficer@wv.gov.

COMMONWEATTHEF PENNSYLVANIA

County 7, 2018

MEMBER, PENNSYLVANIA ASSULIATION OF MOTARIES

Subscribed and sworn before me this 230 day of 1,2015

Notary Public

My Commission Expires

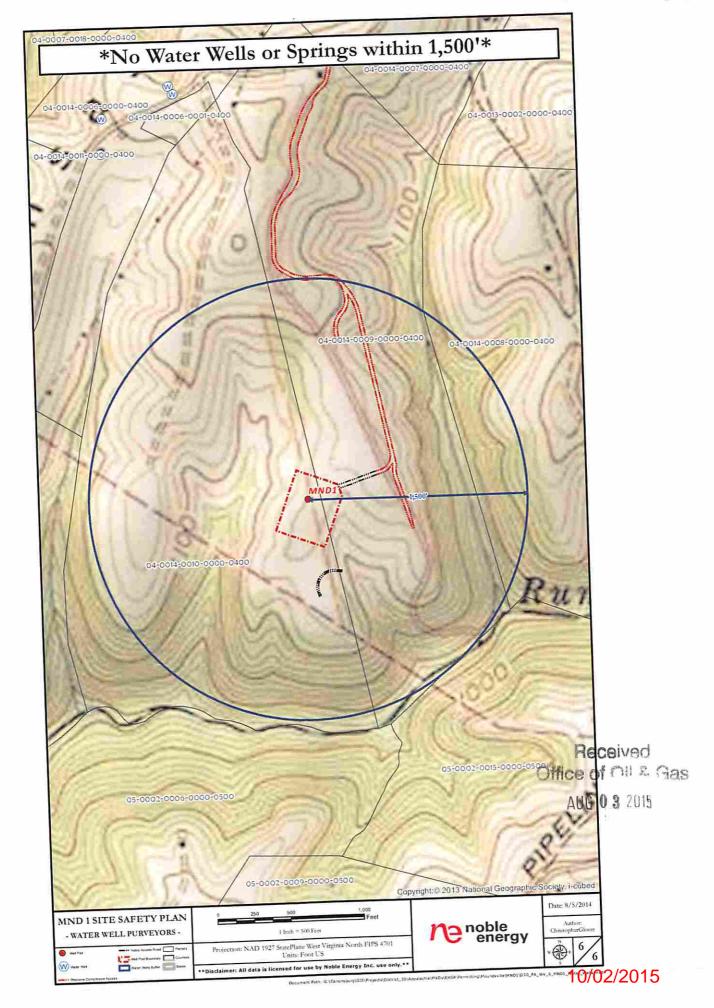
COMMONWEALTH OF PENNSYLVANIA

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

MEMBER, PENNSYLVANIA ASSOCIATION OF NATABLES

Received
Office of Oil & Gas

AUG 03 2015



WW-6A3	
(1/12)	

Operator	Well No	, MND 1	

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

	me Requirem	ent: Notice shall be pro	vided at least SEVEN (7)	days but no more tl	han FORTY-FIVE (45) days prior to	
entry Date of N	otice: 6/20/201	4 Date of Pla	nned Entry: 06/27/2014			
Delivery i	nethod pursu	ant to West Virginia C	code § 22-6A-10a			
☐ PERS	SONAL	REGISTERED MAIL	METHOD OF D	ELIVERY THAT F	September 2 Control Co	
Pursuant to on to the si but no more beneath su owner of m and Sedimo Secretary,	o West Virgini orface tract to e than forty-fi ch tract that ha ninerals underly ent Control Mo which stateme	conduct any plat survey, ve days prior to such en- as filed a declaration pur lying such tract in the co- anual and the statutes an	s required pursuant to this try to: (1) The surface own suant to section thirty-six, unty tax records. The not d rules related to oil and g information, including the	article. Such notice ner of such tract; (2) article six, chapter ice shall include a s as exploration and	or shall provide notice of planned entry is shall be provided at least seven days of to any owner or lessee of coal seams twenty-two of this code; and (3) any statement that copies of the state Erosic production may be obtained from the page on the Secretary's web site, to	•
Notice is h	ereby provide	ed to:				
	ACE OWNER		■ CO	AL OWNER OR LE	ESSEE	
Name: Mun	ay Energy Corpo	eration / Jason Witt		onsol Mining Company		
	5226 National Ro	ad		1000 Consol Energy I	Drive	
	le, OH 43950		Canonsbu	rg, PA 15317		
				ERAL OWNER(s)		
Address: _			•	NX Gas Company, LLC		
Name:		01111111		1000 Consol Energy E		
				g, PA 15317		
_			•please atta	ch additional forms if no	ecessary	
Pursuant to a plat survey State: County:	y on the tract of West Virginia Marshall	Code § 22-6A-10(a), no of land as follows:		tude & Longitude:	N 39.849832 W 80.774225 Co. Hwy 88/8 Short Creek - Ohio River (Huc -10)	=
District:	Clay Powhattan Po	and the same of th		ed farm name:	Short Greak - Onle Kiver (Fide -16)	
Copies of the may be obta Charleston, obtained fro	e state Erosion	n and Sediment Control Secretary, at the WV De 04-926-0450). Copies or by visiting <u>www.den.</u>	epartment of Environment	al Protection headq tional information r	il and gas exploration and production uarters, located at 601 57th Street, SE, related to horizontal drilling may be	
Telephone:	724-820-3			Canonsburg, PA 153		
Email:		obleenergyinc.com	Facsimile:	724-743-0050		
Oil and G: The Office of duties. Your needed to of appropriately	s Privacy N of Oil and Gas personal info omply with s r secure your	otice: processes your personal pronation may be disclos	sed to other State agencie requirements, including you have any questions a	s or third parties in Freedom of Inform	phone number, as part of our regulator in the normal course of business of mation Act requests. Our office wil ar personal information, please conto	elved

AUG 0 3 2015

WW-6A5 (1/12) Operator Well No. MND 1 HHS

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

	ne Requirement: notice shall be provided no later tice: 130/16 Date Permit Applica	than the filing	date of permit	application.
Delivery m	ethod pursuant to West Virginia Code § 22-6A	-16(c)		
	TIFIED MAIL HAN URN RECEIPT REQUESTED DEL	ND LIVERY		
return recei the planned required to drilling of damages to	W. Va. Code § 22-6A-16(c), no later than the of the requested or hand delivery, give the surface own deperation. The notice required by this subsect be provided by subsection (b), section ten of this a horizontal well; and (3) A proposed surface us the surface affected by oil and gas operations to the surface affected by this section shall be given to the	wner whose land tion shall inclu- article to a surf- se and compens the extent the da	I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
(at the addr Name: Murra Address: 46	responded to the SURFACE OWNER(s) responded to the SURFACE OWNER(s) responded in the records of the sheriff at the time of the sheriff at	Name: Address	Wendell B. & Caroy 3: 918 Kansas Rid ville, WV 26041	X-1-1-0 (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Pursuant to		ling a horizonta UTM NAD 8 Public Road	I well on the tra Easting: Northing:	
Pursuant to to be provi horizontal surface afformation headquarter	e Shall Include: West Virginia Code § 22-6A-16(c), this notice slided by W. Va. Code § 22-6A-10(b) to a surfact well; and (3) A proposed surface use and compensected by oil and gas operations to the extent the related to horizontal drilling may be obtained the rest of the content of the con	e owner whose sation agreeme damages are co from the Secret	e land will be un nt containing an ompensable und ary, at the WV	ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
	Noble Energy Inc.	Address:	1000 Noble Energ	
Telephone: Email:	724-820-3061 dee.swiger@nblenergy.com	Facsimile:	Canonsburg, PA 724-416-5248	15317

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 deprivacyofficer@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

Revised September 16, 2015

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-1 Well Pad, Marshall County

Dear Mr. Martin,

Earl Ray Tomblin

Governor

The West Virginia Division of Highways has issued Permit #06-2014-0611 for the subject site to Noble Energy, Inc. for access to the State Road for the well site located off of Marshall County Route 88/8 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 P.E. Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

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

SEP 2 1 2015

RECEIVED

Office of Oil and Gas

WV Department of Environmental Proved 15

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 chloride	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%
			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%

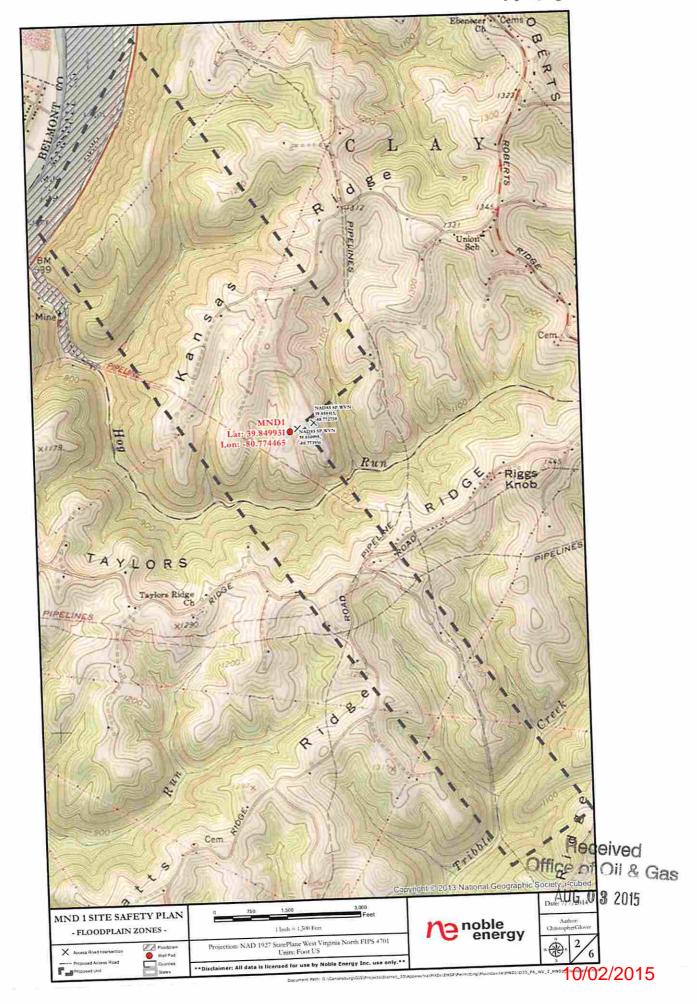
^{*} Total Water Volume sources may include fresh water, produced water, and/or recycled water

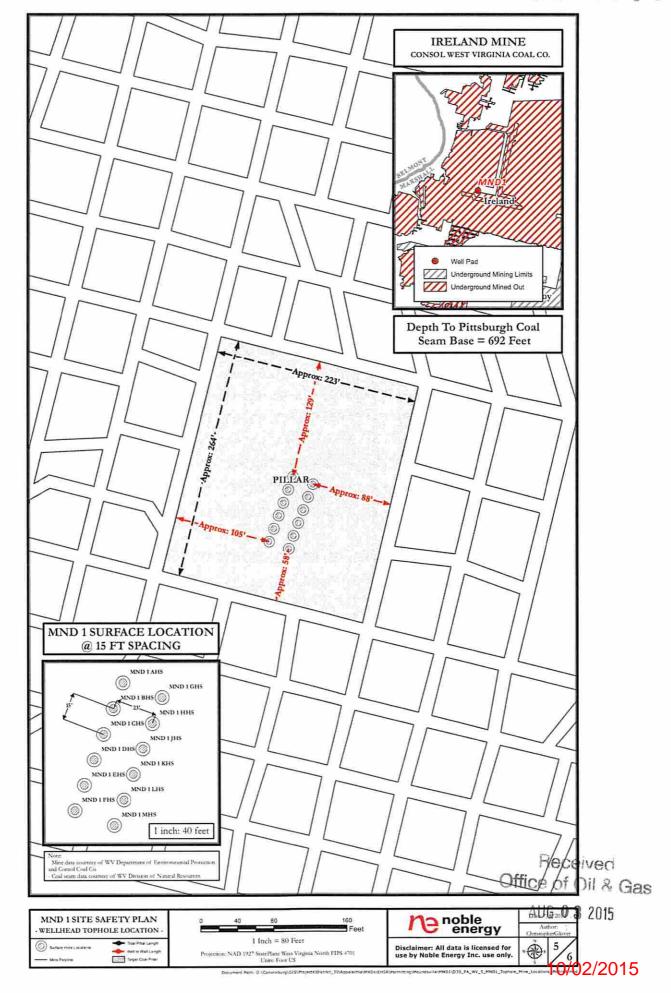
All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational 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

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AUG 0.3 2015

^{**} 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.





NS noble



8-20-12

PROPERTY AND THE PROPERTY OF

SHEET I OF 10

NOBLE ENERGY 233 TECHNOLOGY DRIVE, SUITE III& CANONSBURG, PA 15317

LOCATION MAP



AS-BUILT CONDITIONS PLAN W/ ORTHO AS-BUILT CONDITIONS PLAN SHEET INDEX DRAWING NUMBER

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

Blue Mountain Inc.

ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING. NOTE: DRAWING WAS CREATED ON 22X34 PAPER. IIXI7 DRAWINGS

Na noble energy

333 TECHNOLOGY DRIVE, SUITE 116 NOBLE ENERGY, INC.

COL

ACCEPTED AS-BUILT WVDEP 00G

MNDI WELL SITE CANONSBURG, PA 15317 TEL: (724) 820-3000

NAD 83 - LAT: N 39°50'59.392"; LONG: W 80°46'27.225" NAD 27 - LAT: N 39°50'59.120"; LONG: W 80°46'27.907" WELL SITE LOCATION

ENTRANCE LOCATION

NAD 83 - LAT: N 39°51'02.247"; LONG: W 80°46'19.979"

NAD 27 - LAT: 39°51'01.974"; LONG: W 80°46'20.661"

POWHATAN POINT QUADRANGLE

MARSHALL COUNTY, WEST VIRGINIA

DATE: MAY II, 2015





CONSOLIDATION COAL COMPANY 04-14-9/10 1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317

