

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, December 19, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

CNX GAS COMPANY LLC POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re:

Permit approval for MAJ10BHSU

47-051-02070-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: MAJ10BHSU

Farm Name: CNX LAND, LLC

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-051-02070-00-00

Date Issued: 12/19/2018

Promoting a healthy environment.

API Number: 51-0200018

### **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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. 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,
- 10. 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.

API Number: 51-02/2172018

## **PERMIT CONDITIONS**

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



### west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

September 20, 2018

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02070

COMPANY: CNX Gas Company, LLC

FARM: M

MAJ10BHSU

COUNTY:

Marshall

DISTRICT: Webster

OUAD: Majorsville

The deep well review of the application for the above company is <u>Approved to drill to the Point Pleasant for completion.</u>

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? None
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: yes, Docket No. 267-257 Exception Location Hearing; 47-051-02068; 47-051-02065; 47-051-02069; 47-051-02008; 47-051-02009; 47-051-02010; 47-051-01938;
- 4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose
Administrator

Promoting a healthy environment.

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

1) Well Operator: CNX Gas (	Company, LLC	494458046	Marshall	Webster	Majorsville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: M	AJ10BHSU	Well Pa	ad Name: MA	110HSU	
3) Farm Name/Surface Owner:	Majorsville	Public Ro	oad Access: Lo	ne Oak Roa	ad
4) Elevation, current ground:	1323+/- E	Elevation, proposed	d post-construc	tion: 1317.8	84
5) Well Type (a) Gas X Other	Oil	Uno	derground Stor	age	
13437733	allow rizontal X	Deep	X		
6) Existing Pad: Yes or No no	rizontai ^			gn 91	112/18
7) Proposed Target Formation(s Point Pleasant, 11,890' TVDG	s), Depth(s), Antic L, 78', 10,757psi (	cipated Thickness 0.9 psi/ft. pressure	and Expected I gradient)	V	
8) Proposed Total Vertical Dept	th: 11,890'				
9) Formation at Total Vertical I	Depth: Point Ple	easant			
10) Proposed Total Measured D	epth: 20,640				
11) Proposed Horizontal Leg Le	ength: 8,312				
12) Approximate Fresh Water S	trata Depths:	378'			
<ul><li>13) Method to Determine Fresh</li><li>14) Approximate Saltwater Dep</li></ul>		2,500' radius sea	rch		
15) Approximate Coal Seam De	epths: 779' (Pitts	burgh)			
16) Approximate Depth to Possi	ible Void (coal m	ine, karst, other):	778'		
17) Does Proposed well location directly overlying or adjacent to			Ne	0	
(a) If Yes, provide Mine Info:	Name: Baile	ey Mine			
We have the state of the state	Depth: 779'				
	Seam: Pitts	burgh	RE(	CEIVED	
	Owner: Cons	sol	Office of	Oil and C	∋as

NOV 28 REC'D

WV Department of Environmental Protection of 3

API NO. 47 0 5 1 0 2 12/21/2018

OPERATOR WELL NO. MAJ10BHSU
Well Pad Name: MAJ10HSU

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	30	N	A-252	99	129	100	188/CTS
Fresh Water							
Coal	18.625	N	J-55	87.5	948	898	667CTS
Intermediate	13.375	N	NT-80LHE	68	3332	3282	2235/CTS
Production	5.5	N	Q-125VAXP	23	20640	20590	2765/TOC@5,000'
Tubing							
Liners	9.625	N	P-110HP	44	10723	10673	1653/TOC@5,000'

JN 9/12/18

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30	36	0.312		50	Α	1.18
Fresh Water							
Coal	18.625	22	0.435	2250	1400	А	1.18
Intermediate	13.375	17.5	0.480	4930	3250	Α	1.18
Production	5.5	8.5	0.415	19040	9000	А	1.56
Tubing				2.000			
Liners	9.625	12.25	0.435	9900	6700	Α	2.28

### **PACKERS**

NONE				
	NONE	NONE	NONE	NONE

Office of Oil and Gas

NOV 28 REC'D

WV Department Page 2 of 3 Environmental Protection

OPERATOR WELL NO. MAJ10BHSU
Well Pad Name: MAJ10HSU

JN 9/12/18

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

The general well work will be conducted in a fashion to efficiently place a production string of casing to total depth of the subject well bore. The vertical portion of the wellbore will be drilled with a combination of air percussion hammers, roller cone drill bits, and bent housing motors. Air/mist will be utilized to drill this interval. The horizontal portion of the wellbore will be drilled utilizing a synthetic based mud system with a density capable of suppressing bottom hole pressure at depth. All strings of casing will be permanently cemented in place in accordance with all guidelines and restrictions. No pilot hole will be drilled on this well.

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

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will also be utilized on each stage using sand, water, and chemicals.

Max Pressure - 14,500 psi. Max Rate - 100 bbl/min.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 19.7
- 22) Area to be disturbed for well pad only, less access road (acres): 12.4
- 23) Describe centralizer placement for each casing string:

Centralizers will placed per CNX sop of casing running. Typical surface/intermediate casings will be 1:3 from shoe to surface. Isolation strings will be 1:2 to planned TOC. Production strings will be 1:1 from the shoe to KOP, and 1:2 through the planned TOC.

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

See attached.

25) Proposed borehole conditioning procedures:

Conditioning will be conducted as needed. All factors will be adjusted per hole conditions. All returns from the well bore must be consistent with a stable hole, returning minimal cuttings, while exhibiting a non-existent gas flow prior to tripping out.

NOV 28 REC'D

WV Department of

\*Note: Attach additional sheets as needed.

Environmental Protection



### DRILLING WELL PLAN

### MAJ-10B-HSU Utica HZ

Ground Elevation SHL (NAD83)		N. 540	1317			SH	L (NAD	27)	l N	: 518305.48	6 F: 1709060	014	
SHL (NAD83)		SHL (NAD83) N: 518342.814 E: 1677625.181							N: 518305.486 E: 1709060.014				
	3 - 7 - 7 - 7 - 7				1	BH	L (NAD	27)	N	: 511092.13	3 E: 1714643	.331	
	HOLE	RIG	CASING	GEOLOGY	TOP	BTTM	MUD	CEMENT	Centralizers	Conditioning	BITS	COMMENTS	
	36"	Conductor	30"	Conductor	TVE	(GL)	AIR	Grout To	N/A	Ensure clean	4.55	Stabilize surfac	
SCH RES COMPANY		Rig	12/		1 1	100		Surface	TVA	hole at TD	Auger	filVsoil	
				Deepest Water Well		378							
	24"		18.625"				AIR	TOC=Surface	Centralized every	Pump Fresh water shead of	Air Percussion Hammer/Carbide	Run Casing to	
				Roof Coal Zone	778	779		20% OHXS	3 joints to surface	cement	Bit	isolate minable c seams.	
				Pittsburgh Coal	779	786	5 1						
				Coal Profestion String	1 8	198							
				Big Lime	1,954	1,981							
				Big Injun Top	1,982	2,123							
				Big Injun Base	2,124	2,799		Section 1	Gas Block Blend Centralized every 45' to 100' from	1 1 1 1 1 1			
	17.5"		13.375"	50 Foot	2,800	2,833				Pump Brine	Air Percussion	Run Casing to isolate the storage	
	17.5		13,375	Gordon	2,834	2,859	AIR	TOC=surface	45' to 100' from surface.	water ahead of cement	Hammer/Cerbide Bit	interval/shallow	
				Fourth	2,860	2,981		20% OHXS	SS NO.			gas.	
				Fifth	2,982								
				Int. 1 Casing Sting	3.	332							
	20(4) 93(4)			The state of the s									
			1	Rhinestreet	6,247	6,631							
		N/A		Tully	6,632	6,659							
		24//1		Hamilton	6,660	6,774							
				Marcellus	6,775	6,829						Run casing to	
				Onondaga	6,830	6,924		TOC 5,000' 20% OHXS		Fill and circulate		isolate the Salin	
				Oriskany	6,925	6,970		20% 0/123		with SOBM for a	Tri-Cone /	formation protect the Queenston	
	12.25"		9.625"	Helderberg/Keyser	6,971	7,264	AIR		Centralized every 2 joints to surface	min, of one (1) complete	Directional Air Motor to maintain	from hydrostatio	
				Salma	7,265	8,444			2 joints to suriece	circulation prior	vertical control	pressure fracture.Shoe	
				Lockport	8,445	9,596				to cementing.		should be set -80	
				Rochester-Rose Hill	9,597	9,615						Delow the Queenston top	
				Packer Shell	9,616	9,626		Load hole with					
				Tuscarora ("Clinton")	9,627	9,922		12,5ppg SOBM Prior to casing					
				Queenston	9,923			Displace with	1				
日本   日本   日本   日本   日本   日本   日本   日本				Int. 2 Casing String.	10	723		brine					
	8.5"			Reedville	10,826	11,822	AIR		Centralized every	Circulate with			
	Curve			Utica	11,823	11,875	AIR	A	2 joints to TOC	SOBM for a min.		Run cesing to	
			5.5"	Point Pleasant	11,876	12,095		TOC is 5,000'.		of one (1)	PDC Drill bit and	isolate the producing zone	
	8.5"		-	Trenton	12,096	12,196	14.0 SOBM	10% OHXS	Centralized every joint to KOP	complete circulation prior	RSS BHA	through the	
	Lateral			Prod. Casing	20.	590	CODM		Joint to KOP	to cementing.		curve/lateral,	

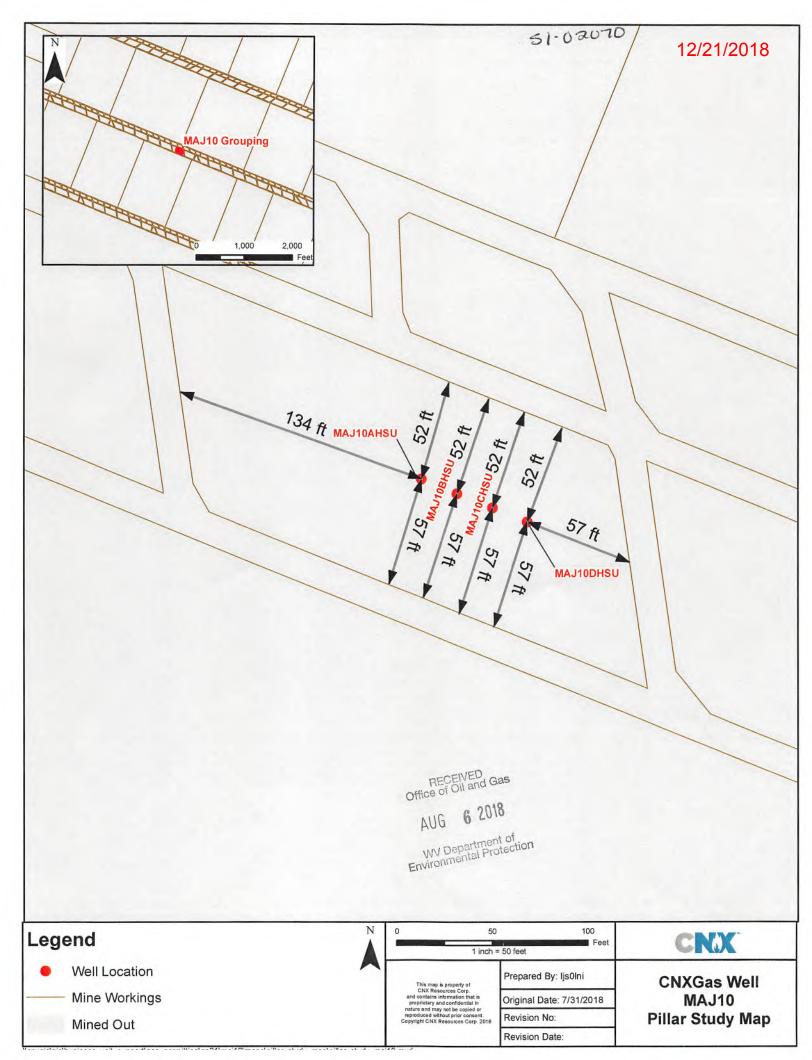
145\* Planned Azimuth

RECEIVED Office of Oil and Gas

JN 9/12/18

NOV 28 REC'D

WAY Department of Environmental Protection



4705 \* 012/01/018

API Number 47 - 4 / U S
Operator's Well No. MAJ10A,B,CHSU

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company LLC	OP Code 494458046	
Watershed (HUC 10) Wheeling Creek Quadrangle		
Do you anticipate using more than 5,000 bbls of water to complete the proposed		
Will a pit be used? Yes No		
If so, please describe anticipated pit waste: Closed Loop- No utilization	on of a pit	RECEIVED Office of Oil and Gas
Will a synthetic liner be used in the pit? Yes No 🗸	f so, what ml.?	- ALIC @ 2010
Proposed Disposal Method For Treated Pit Wastes:		- AUG 6 2018
Land Application		WV Department of Environmental Protection
Underground Injection (UIC Permit Number 47-001	-00561, 47-097-01514, 47-097-01613	
Reuse (at API Number Maj12 Well site (API TBD)  Off Site Disposal (Supply form WW-9 for disposal le	ocation)	)
Other (Explain No pits	ocation)	
Will closed loop system be used? If so, describe: _yes		
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwa	iter, oil based, etcvertical air / horizonta	al oil base fluid
-If oil based, what type? Synthetic, petroleum, etc. synthetic		
Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agen	ts	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.	application of only soil conductor cuttings, all other cuttings, will be taken to	an approved Landfill
-If left in pit and plan to solidify what medium will be used? (cement, l		
-Landfill or offsite name/permit number? See attached list.	mie, surreust)	
Permittee shall provide written notice to the Office of Oil and Gas of any load of West Virginia solid waste facility. The notice shall be provided within 24 hours owhere it was properly disposed.	drill cuttings or associated waste re- of rejection and the permittee shall a	jected at any lso disclose
I certify that I understand and agree to the terms and conditions of the on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or contaw or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, and penalties for submitting false information, including the possibility of fine or improved the company Official Signature Raymond Hoon	and the general permit and/or and familiar with the information sure of those individuals immediately decomplete. I am aware that there or isonment.	derstand that the other applicable abmitted on this responsible for a are significant fice of Oil and Gas
	Office of On and code	2018
Company Official Title Permitting Supervisor	JUN 2 9 2018 Environ	Department of mental Protection
Subscribed and sworn before me this 5 day of February	WV Department of Environmental Protection 20	
(Hog)	WEST	JONATHAN D. JONES lotary Public Official Seal State of West Virginia
My commission expires 11/27/702		Comm. Expires Nov 27, 2021

Form WW-9

roim ww-9	Operator's Well No. MAJ10A,B,CHSU
CNX Gas Company LLC	•
Proposed Revegetation Treatment: Acres Disturbed	19.7 Prevegetation pH 6.5
Lime according to pH test Tons/acre or to corre	ect to pH 7.0
Fertilizer type 10-20-20 or equal	<del></del>
Fertilizer amount 500	lbs/acre
Mulch_ hay or straw at 2	_Tons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre Orchard Grass 25	Seed Type lbs/acre Orchard Grass 25
Birdsfoot Trefoil 15	Birdsfoot Trefoil 15
Ladino Clover 10	Ladino Clover 10
provided). If water from the pit will be land applied, in acreage, of the land application area.  Photocopied section of involved 7.5' topographic sheet	ad application (unless engineered plans including this info have been clude dimensions (L x W x D) of the pit, and dimensions (L x W), and area in  RECEIVED Office of Oil and Gas
Plan Approved by:	AUG 6 2018
Comments:	WV Department of Environmental Protection
	Office of Oil and Gas
	3/1 / 9 A.
	Environmental Protection  Date: 2/0/8
Title: Oil + Gas luspected	Date: 2/6/8
Field Reviewed? Yes	) No RECEIVED Office of Oil and Gas

JUN 29 2018

WV Department of Environmental Protection Disclaimer: Vendors have been approved for the below category by ENV. UPDATED AGREEMENT with MSCM MUST BE CONFIRMED.

Republic Services (Allied V Industrial Landfills	Vaste)		Gas Spec	ific Waste S	treams	Other Accepted Waste Streams									Z
Landfill	Location		Drill *	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
McLean County	Bloomington	IIL.	X	X		X	X	X	X	X	X	X		X	
RC/Coles County	Charleston	IL	X	X		X	X	X	X	X	X	X		X	D G2
Brickyard Disposal	Danville	IL	X	X		X	X	X	X	X	X	X		X	00 0
outhern Illinois Regional	De Soto	IL			9									X	1 2 2
ee County	Dixon	IL	X	X		X	X	X	X	X	X	X	1	X	∑ <u>°</u> 6
pper Rock Island	East Moline	III.	X	X		X	X	X	X	X	X	X		X	1 1115
Bond County	Greensville	II.	X	X		X	X	X	X	X	X	X		X	80 cs
ffinois	Hoopeston	n.	X	Х		X	X	X	X	X	X	X		v	ECEIVED of Oil and
andComp	LaSalle	II.	X	X		X	X	X	X	X	X	X		X	317-921-1667 or 480-62 70700 E1-800-634-0215
itchfield-Hillsboro	Litchfield	IL.	X	X		X	X	X	X	X	X	X		X	317-921-1667 or 480-62752700 = =
nylrontech	Morris	IL	X	Х		X	X	X	X	X	X	X		X	<u> </u>
i Magston Oxana	Pontiac	IL	X	X		X	X	X	X		X	X		X	0
oxana	Roxana	IL	X	X		X	X	X	X	X	X	X	X	X	
angamon Valley	Springfield	IL	X	X		X	X	X	X	X	X	X	Comment Comment	X	
enson Valley	Frankfort	KY	X	X		X	X	X	X	X	X	X		X	
lue Ridge	Irvine	KY	X	X		X	X	X	X	X	X	X		X	
forehead	Morehead	KY	X	X		X	X	X	X	X	X	X	Marie Carlotte	X	
reen Valley	Rush	KY	X	X		X	X	X	X	X	X	Х	X	X	
herokee Run	Bellefontaine	OH				X	X	X	X		X	X		X	
Villiams County	Bryan	OH				X	X	X	X	X	X	X		X	
ounty Environmental	Carey	OH				X	X	X			X	X		X	
Celina	Celina	OH	5,-1			X	X	X	X		X	X		X	
arbon-Limestone**	Lowellville	OH	X	X		X	X	X	X			X	X	X	Jack Palermo:
Countywide Landfill**	East Sparta	OH	X	X		X	X	X					100000000000000000000000000000000000000	X	work: 330-536-8013
orain County	Oberlin	OH				X	X	X	X			X		X	
Dakland Marsh	Shiloh	ОН					X	X	X	X	X			X	cell: 330-806-9660
nperial	Imperial	PA				X	X	X	X	X	X	12.1	1	X	Zalana et al
onestoga	Morgantown	PA				X	X		X	X	X	X		X	Barbara Harsanye: work: 330-536-8013 x 120 cell: 330-423-7267
runswick		VA			1000	X	X	X	X	X	X	X		X	
ing and Queen	Little Plymouth	VA			1000	X	X	X	X	X	X	X	the land	X	
ld Dominion	Richmond	VA				X	X	X	X	X	X	X	***************************************	X	
veamore	Hurricane	WV				X	X	X	X			X		X	
hort Creek	Wheeling (Short Creek)	WV	X	X		X	X	X	X			X		X	
arter Valley	Church Hill	ITN												Y	

Office of Oil and Gas
AUG 6 2018

													PECEIVED of Oil and G	1,3 2018 artmo	EIVED Gas
te Management estrial Landfills			Gas Spec	ific Waste S	Streams			(	Other Accepte	d Waste Stream	ms		6 5	No.	
Landfill	Location		Drill * Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
len Landfill	Washington	PA	X	X		X	X	X	X			X	X	X	
th Hills (Arnoni)	South Park	PA	X	X			X	X	X			X	X	X	1
ly Run	Elizabeth	PA	X	X		X	X	X	X			X	X	X	1
ley Landfill	Irwin	PA	X	X		X	X	X	X	X	X	X	X	X	
rgreen Landfill	Blairsville	PA	X	X		X	X	X						X	S All 412 604 2266
rleston Landfill nawha County)	Charleston	wv	х	х		x	х	х	х			x		X	Scott Allen: 412-604-2256
dowfill Landfill	Bridgeport	WV	X	X	The same	X	X	X	X	X	X	X	X	X	1
thwestern Landfill	Parkersburg	WV		X		X	X	X	X			X	X	X	1
S Grading Landfill	Clarksburg	WV	X	X		X	X	X	X			X		X	1
erican Landfill	Waynesburg	OH		X		X	X	X	X	X	X	X	X	X	THE WAY THE STATE OF THE STATE
urban RDF	Glenford	OH		X		X	X	X	X	X	X	X	X		Patty Landolt: 262-532-8001
hocton Landfill***	Coshocton	OH		X		X	X	X						X	John Miller: 1-800-963-4776
honing Landfill	New Springfield	OH	v	v		v	v	v			V V	V V		- W	Control of the Contro

Additional Landfills			Gas Spe	cific Waste	Streams			(	ther Accepted	d Waste Strea	ms				14.00.00.00.00.00
Landfill	Location		Drill* Cuttings	Waste Liners	Waste Brine	Contaminated Soil (Including Petroleum)	Construction & Demolition Waste	Industrial Waste	Studge	Friable Asbestos	Non-Friable Asbestos	Process Waste	Solidification Services	Municipal Solid Waste	Contact Information
Westmoreland Waste (WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	х	х		х	x	x	х	х	x		х	х	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694
MAX Environmental (Bulger Facility)	200 Max Drive, Bulger, PA 15019	PA	х	х		х	X	х	х				х	х	Carl Spadaro: 412-343-4900
MAX Environmental (Yukon Facility)	233 MAX Lane Yukon, PA 15698	PA	х	X		х	х	x	х		R		X	х	ell: 412-445-9789
Apex Sanitary landfill (Apex Environmental)	11 County Road 78 Amsterdam, Ohio 43903	ОН	х	Х		х	х	х	x				х	х	Joe Teterick: 740-275-2887 joet@els-company.com
Rumpke, Mt. Sterling (Rumpke Consolidated)	30 Larison Rd, Jeffersonville, KY 40337	KY	X	X		x	х	х		х	x			х	Carl Walter: 513-623-2471
Laurel Ridge Landfill (Waste Connections of KY)	3612 E State Highway 552 Lily, KY 40740	KY	x	х		x	х	х		х	x	X		х	Bruce Crouch: Work: 606-864-7996 Cell: 606-219-0261
	Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458	PA	х	х		х	х	х	х					x	Tony Labenne
Advanced Disposal	Greentree Landfill; 635 Toby Rd.; Kersey, PA	PA	x	х		x	x	х	х					x	6184 Route 219, Brockway, PA 15824 814-590-9906
	Mostoller Landfill; 7035 Glades Pike Rd.: Somerset, PA	PA	х	х		x	х	х	х					х	

Ohio "TENORM" - requires Radium 226/228 analysis by load before leaving the well pad. Solid waste landfills in Ohio can only accept TENORM waste with combined concentration less than 5 picocuries per gram above the natural background level.

X Waste stream accepted by facility.

Waste stream is not or may not be accepted by facility. Contact facility directly to verify waste streams accepted.

Notes: New PADEP rules regarding "TENORM" testing requirement are pending.

\* Drill Cuttings include frac sand for the purpose of this table (Contact facility directly to verify waste streams accepted).

Office of Oil and Gas
AUG 6 2018
WV Department of
Environmental Protection



[State]

CNX **CNX Center** 1000 CONSOL Energy Drive Canonsburg, PA 15317

(724) 485-4040 PCR@cnx.com

CNX Production Team

June 1, 2018

### Re: Marshall County Hydraulic Fracturing Notice

Dear Sir or Madam,

CNX Gas Company, LLC (CNX) has developed a Utica well pad "MAJ10HSU" located in Marshall County, West Virginia. Through CNX's evaluation pursuant to WV Code 35 CSR 8(5.11), you have been identified as the owner or operator of a well within a 500' radius of the surface location or lateral section of the wellbore. Due to the apparent presence of unique geological conditions, communication between CNX hydraulic fracturing operations and the identified well is a possibility. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in monitoring for changes that would indicate communication between your well(s) and our planned operation.

CNX anticipates conducting hydraulic fracturing activity at the MAJ10HSU pad during [timeframe]. Plats for each well to be hydraulically fractured on this pad are attached.

We recommend that conventional operators conduct the following activities before, during, and after fracturing operations.

- 1. Inspect surface equipment prior to fracturing, to establish integrity and confirm well conditions.
- 2. Observe wells during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
- 3. Inspect and upgrade master valves or other necessary equipment for wellhead integrity as you
- RECEIVED

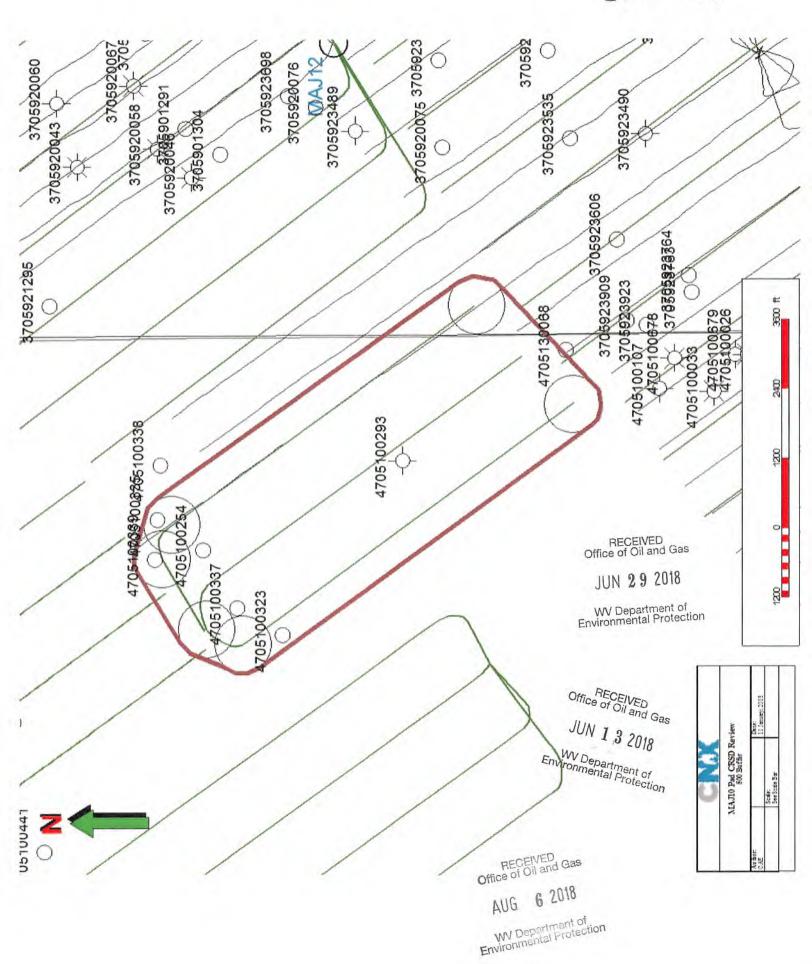
  4. Notify the OOG and CNX if any changes in water, gas production, pressure, or other conditions of Oil and Gas that cause abnormal risk or conserve JUN 29 2018 that cause abnormal risk or concern.

Please feel free to contact CNX's Production Control Room at 724-485-4040 (staffed 24/7) with anywy Department of Environmental Protection questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0499.

Sincerely,

**CNX Production** 





API	COMPANY	WELLNAME	WELL NUMER	STATUS	ΤĎ	LAST PERMIT DATE	FORMATION AT TO	COMMENTS
4705100323	CONSOL PA COAL COMPANY	MILDRED STROPE	5013	PLUGGED	1805	6/26/2014	BIG INJUN	PLUGGED 6-26-14
4705100337	CONSOL PA COAL COMPANY	MILDRED STROPE	5012	PLUGGED	1857	7/17/2014	BIG INJUN	PLUGGED 7-17-14
4705100254	CONSOL PA COAL COMPANY	RALPH CURTIS RIGGLE	5010	PLUGGED	2073	8/12/2011	BIG INJUN	PLUGGED 8-12-14
4705101353	AB RESOURCES	EARL CARMICHAEL	1	CANCELLED PERMIT		10/6/2010		CANCELLED PERMIT
4705100711	KNOX ENERGY	JAMES A GRAY	1	NEVER DRILLED		10/16/1985		NEVER DRILLED
4705100296	COLUMBIA NATURAL RESOURCES	M M BARTO	1-1553	NEVER DRILLED		4/1/1956		NEVER DRILLED
4705100293	COLUMBIA GAS TRANSMISSION	M M BARTO	1556	STORAGE	2000	4/1/1956	BIG INJUN	STORAGE WELL
4705100068	CONSOL PA COAL COMPANY	FERDANDA MARTINEZ	4834	PLUGGED	1876	5/15/2007	BIG INJUN	PLUGGED 5-15-07
4705101045	CONSOL PA COAL COMPANY	HELEN L DOMAN	4715	PLUGGED	1207	8/4/2006	DUNKARD	PLUGGED 8-4-06
4705100318	OPERATOR UNKNOWN	M M BARTO	1557	PLUGGED		10/10/1970		NO DATA
4705100335	CONSOL PA COAL COMPANY	RALPH CURTIS RIGGLE	5005	PLUGGED	1985	8/26/2011	BIG INJUN	PLUGGED 8-26-11
4705100026	OPERATOR UNKNOWN	JNO MCGINNIS	3	PLUGGED	1868	12/26/1930	BIG INJUN	
4705100339	CONSOL PA COAL COMPANY	RALPH CURTIS RIGGLE	5007	PLUGGED	1978	9/12/2011	BIG INJUN	PLUGGED 9-12-11
4705100338	CONSOL PA COAL COMPANY	RALPH CURTIS RIGGLE	5006	PLUGGED	1933	7/1/2011	BIG INJUN	PLUGGED 7-1-11
3705926465	CNX RESOURCES	RHL23HHS	23H	PRODUCING	6988		MARCELLUS	HORIZONTAL MRCL WELL
3705926467	CNX RESOURCES	RHL23KHS	23K	PRODUCING	6992		MARCELLUS	HORIZONTAL MRCL WELL

RECEIVED Office of Oil and Gas

JUN 29 2018

WW Department of Environmental Protection

Office of Oil and Gas

AUG 6 2018

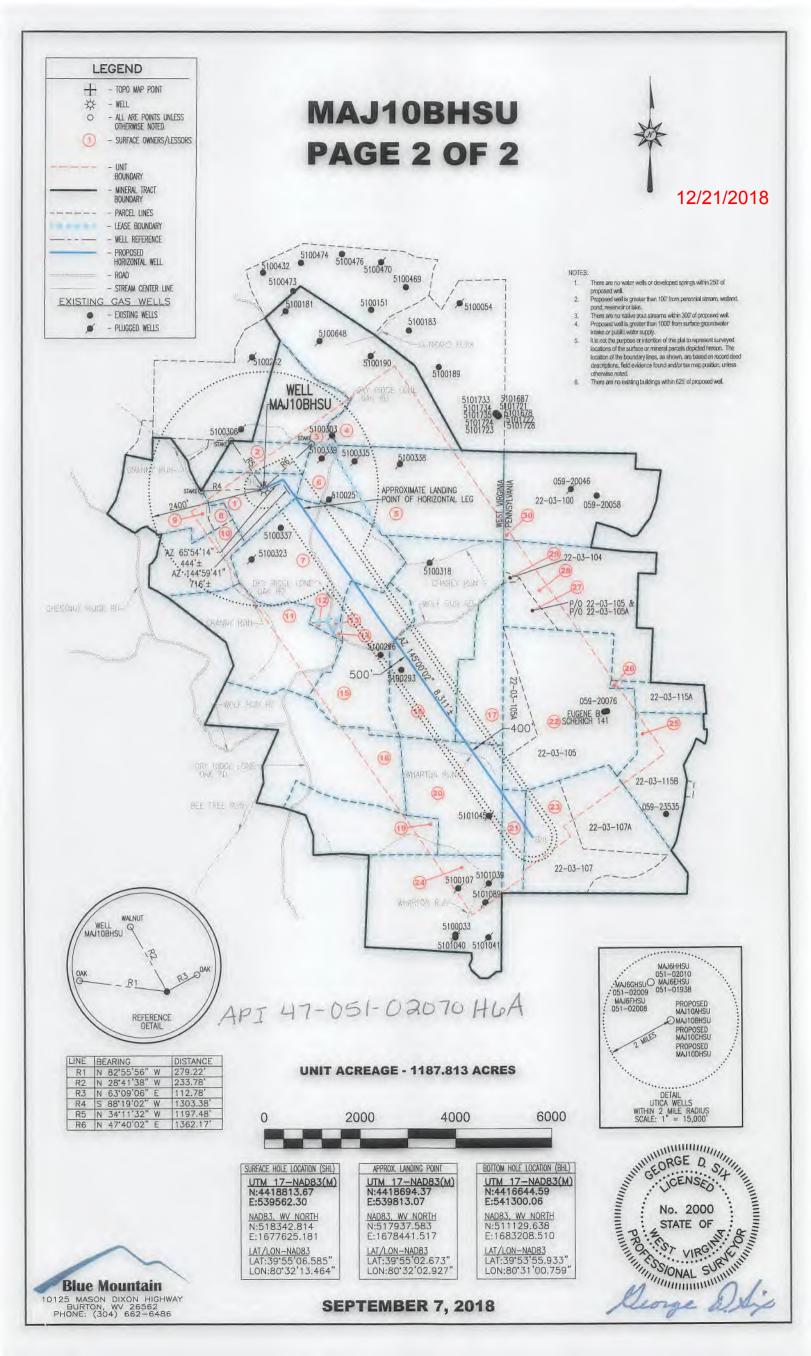
WV Department of Environmental Protection

Office RECEIVED

JUN 1 3 2018

Environmental Protection

	BHL is located on to SHL is located on to			itude: 39 ° 55 '00 " itude: 39 ° 57 '30 "
SURFACE OWNER  1 CNX LAND, LLC 2 CNX LAND, LLC 3 ROGER D. MCCRACKEN ET AL  4 ROGER D. MCCRACKEN ET AL  5 MICHAEL S. RIGGLE 6 MICHAEL S. RIGGLE 7 CNX LAND, LLC 8 CNX LAND, LLC 9 DAVID L. KINNEY, ET AL  10 RODNEY J. & DEBRA J. KINNEY	LESSOR  CNX GAS COMPANY LLC (FEE)  CNX GAS COMPANY LLC (FEE)  AUGUST W. CHAMBERS ET AL  CHESTNUT HOLDINGS INC  AUGUST W. CHAMBERS ET AL  CHESTNUT HOLDINGS INC  MICHAEL S. RIGGLE  RALPH CURTIS RIGGLE  JACKIE L. FRYE  CNX GAS COMPANY LLC (FEE)  DAVID L. KINNEY & RAYMOND P.  DAN WILLIAMSON  THOMAS ALBERS  JOHN JOSEPH ALBERS, JR.  JAMES WILLIAMSON  BONNIE MIKE  CONNIE WRIGHT  JADE WILLIAMSON  GINGER WILLIAMSON  G	DIST-TM/PAR P/0 15-11/12 15-11/11 P/0 15-11/21  P/0 15-11/19 15-11/20 P/0 15-11/13 P/0 15-11/12  KINNEY P/0 15-11/9		SURFACE HOLE LOCATION (SHL)  UTM 17-NAD83(M) N:4418813.67 E:539562.30
11 RODNEY J. KINNEY CNX LAND, LLC JOSEPH SCARLATA TRUSTEE BRADLEY S. SCHERICH 12 JOSEPH SCARLATA TRUSTEE 13 CNX LAND, LLC 14 DRY RIDGE COMMUNITY ASSC'N 15 CNX LAND, LLC CONSOL PENNSYLVANIA COAL CO,	RODNEY J. & DEBRA J. KINNEY MICHAEL ALBERS MICHAEL ELLIOT RYAN FOLUWEILER (FKA RYAN ELLI COLUMBIA GAS TRANSMISSION  COLUMBIA GAS TRANSMISSION EDWARD G. STROPE, ET AL DRY RIDGE COMMUNITY ASSOCIATIO A WEST VIRGINIA NONPROFIT CORP COLUMBIA GAS TRANSMISSION	15-11/15 P/0 15-11/13 P/0 15-11/14 P/0 15-12/17 P/0 15-11/14 P/0 15-11/16 DN, 15-11/16.1	BHL	E:539562.30  NAD83. W NORTH N:518342.814 E:1677625.181  LAT/LON-NAD83 LAT:39*55*06.585" LON:80*32*13.464"  APPROX. LANDING POINT UTM 17-NAD83(M) N:4418694.37 E:539813.07  NAD83. W NORTH N:517937.583 E:1678441.517
BRADLEY S. SCHERICH  16 CNX LAND, LLC  17 CNX LAND, LLC  18 GLEN AND MARLENE SPITZNOGLE PAUL & MALLORY HEWITT  19 HELEN L. DOMAN  20 HELEN L. DOMAN  21 HELEN L. DOMAN  22 GAHC L.P.  23 CONSOL PENNSYLVANIA COAL CO. JOHN E. SYNDER ET UX  24 HELEN L. DOMAN  25 WILLIAM SNYDER ET AL  26 JOHN E. SNYDER ET UX  28 GAHC L.P.  29 GAHC L.P.	RICHARD E. SCHERICH JANET M. SCHERICH SCOTT DOUGLAS REED RICHARD P. AND MARY LEE BARTO EUGENE SCHERICH EUGENE SCHERICH HELEN L. DOMAN HELEN L. DOMAN HELEN L. DOMAN EUGENE SCHERICH  B.L. AND DORA FRYE HELEN L. DOMAN W. COLLIER AND SARAH H. BALDW DELMAR W. & BLANCHE SCHERICH TOM SABELLA AKA THOMAS J. SAE	15-12/20 15-12/16 15-12/16.1 15-12/22 15-12/21 22-3/106 P/0 22-3/105 P/0 22-3/105 P/0 22-3/107 P/0 22-3/107 P/0 22-3/107 P/0 22-3/107 P/0 22-3/107 P/0 22-3/107		BOTTOM HOLE LOCATION (BHL)  UTM 17—NADB3(M) N:4416644.59 E:541300.06  NADB3, W NORTH N:511129.638 E:1683208.510 LAT/LON—NADB3 LAT:39'53'55.933" LON:80'31'00.759"
Blue Mountain  10125 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486  ILE #: MAJ10BHSU  RAWING #: MAJ10BHSU	I, THE U PLAT IS CORRECT BELIEF AND SHO	UNDERSIGNED, HEREBY TO THE BEST OF MY WS ALL THE INFORMATI EGULATIONS ISSUED AN	CERTIFY THAT THI KNOWLEDGE AND ION REQUIRED BY	S CENSES TO STATE
CALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: 1/2500 ROVEN SOURCE U.S.G.S. MONU OF ELEVATION: THOMAS 1498	Signed:  MENT R.P.E.:	L.L.S.:	P.S. No. 2000	PLACE SEAL HERE
+) DENOTES LOCATION OF WELL INITED STATES TOPOGRAPHIC I VVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	17 CAR 2 CAR	OPERA	ELL#: 47	7, 2018  MAJ10BHSU  51 COUNTY  DA070 H6 PERMIT
Vell Type: Oil Waste Dispose  VATERSHED: WHEELING CREEK  OUNTY/DISTRICT: MARS		E	Liquid Injection LEVATION: LE:MAJORS\	1317.00'
URFACE OWNER: CNX L  OIL & GAS ROYALTY OWNER: DRILL CONVERT DRIL  ERFORATE NEW FORMATION DESCRIPTION:	CNX GAS LLC  LL DEEPER  REDRILL	FRACTURE OR STI	ACREAGE ACREAGE MULATE X PI	E:59.00± E:2230.716± LUG OFF OLD FORMATION
FARGET FORMATION: POINT WELL OPERATOR CNX GAS Address 1000 CONSOL ENERGY DR		DESIGNATED A  Address 1 DOI  City JANE I	AGENT CHRIS	11,890'± TMD: 20,640'±  TURNER  WV Zip Code 26378



# 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

See attached.

RECEIVED
Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection Office of Oil and Gas

JUN 1 3 2018

Environmental Protects

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

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

| Continue of Oil and Gas | State | Stat

- 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: CNX Gas Company, LLC

By:

Raymond Hoon

Its:

Permitting Supervisor

Environmental Protection

Tract ID	Title QLS / T#	Grantor, Lessor, etc	Grantee, Lessee, etc	<u>Royalty</u>	Book/Page
1	205319000/	Margaret Moran	Consol Pennsylvania Coal Company	100% CNX (DEED)	668/330
(Fee Tract)	T115475	Consol Pennsylvania Coal Company	CNX Gas Company LLC	Deed Deed	804/189
	1	consor remissivama coar company	CHA das company LCC	T Deed	1004/103
2 (Fee Tract)	205319000/ T1154 <b>7</b> 4	Margaret Moran	Consol Pennsylvania Coal Company	100% CNX (DEED)	668/330
	122077	Consol Pennsylvania Coal Company	CNX Gas Company LLC	Deed	804/189
		August W. Chambers, et al.	Columbia Gas Transmission Corporation	12.50%	529/225
		Glenn E Chambers, et ux.	Columbia Gas Tramission Corporation	Lease Modification	667/156
		Betty Hewitt	Columbia Gas Transmission Corporation	Lease Modification	667/162
		Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
	204643000/ T114764	Columbia Gas Transmission LLC	NiSource Energy Ventures	Assignment	21/428
3 (2 Leases)		NiSource Energy Ventures	Columbia Energy Ventures, LLC	Name Change	848/97
		Columbia Energy Ventures LLC and Columbia Gas Transmission as a joinder	CNX Gas Company LLC	Sublease	848/97
		Chestnut Holdings	Fossil Creek Ohio	20%	848/218
		Fossil Creek Ohio	CNX Gas Company LLC	Assignment	37/18
			<b>Y</b>		
		August W. Chambers, et al.	Columbia Gas Transmission Corporation	12.50%	529/225
		Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
		Columbia Gas Transmission LLC	NiSource Energy Ventures	Assignment	21/428
4	204994000/	NiSource Energy Ventures	Columbia Energy Ventures, LLC	Name Change	848/97
(2 leases)	T115134	Columbia Energy Ventures LLC and Columbia Gas Transmission as a joinder	CNX Gas Company LLC	Sublease	848/97
		Chestnut Holdings	Fossil Creek Ohio	20%	848/218
		Fossil Creek Ohio	CNX Gas Company LLC	Assignment	40/276
5	205052000/ T115194	Michael S. Riggle	CNX Gas Company LLC	18%	956/146
6	202142000/ T112145	Raiph Curtis Riggle	CNX Gas Company LLC	17%	907/534
	<b>T</b>	The state of Figure	CALV Con Commonwell C	450/	PR 200 (000
7	204521000/	Jackie L.Frye	CNX Gas Company LLC	15%	DB. 700/271
7	T114642	CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
	L	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334

8	205319000/ T115475	Margaret Moran	Consol Pennsylvania Coal Company	100% CNX (DEED)	668/330
ee Tract)	The state of the s	Consol Pennsylvania Coal Company	CNX Gas Company LLC	Deed	804/189
9	205315000/ T115471	David L. Kinney & Raymond P. Kinney	CNX Gas Company LLC	15%	701/421
		Samuel Cottrell and Sheila Cottrell, husband and wife	TH Exploration, LLC	18%	933/627
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
		Leon Kinney and Ella Kinney, husband and wife	TH Exploration, LLC	18%	933/629
10	205314000/	TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
leases)	T115470	Robert S. Neely and Jodi Neely, husband and wife	TH Exploration, LLC	18%	933/631
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
		Rodney J. Kinney and Debra J. Kinney, husband and wife	TH Exploration, LLC	18%	933/633
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
		Columbia Gas Transmission	NiSource Energy Ventures	17%	683/557
	202138000/ T112141	Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
11		Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Sublease	848/97
		Columbia Energy Ventures LLC	CNX Gas Company LLC	Assignment	34/466
	•				
	203161000/ T113178	Columbia Gas Transmission	NiSource Energy Ventures	17%	683/557
		Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
12		Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Sublease	848/97
		Columbia Energy Ventures LLC	CNX Gas Company LLC	Assignment	37/129
13	205320000/	Edward G. Strope et al	CONSOL Pennsylvania Coal Company, LLC	100%	829/132
	T115476	CONSOL Pennsylvania Coal Company, LLC	CNX Land LLC	Deed	864/339
	253545	CNX Land LLC	CNX Resources Corp	100% CNX (DEED)	Copy Included
		In mil 6	To the		
		Dry Ridge Community Association, a West Virginia Nonprofit Corporation	Noble Energy, Inc.	15%	809/619
14	205320000/	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 34/177
	T115476	CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
		Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	AB 39/1
		HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 42/187
		Colombia Con Transactoria	NIC F Mark		1 222 524
		Columbia Gas Transmission	NiSource Energy Ventures	17%	683/557
15	202137000/	Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
15	T112140	Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Sublease	848/97
		Columbia Energy Ventures LLC	CNX Gas Company LLC	Assignment	37/129

		Richard E. Scherich, widower	Noble Energy, Inc.	15%	806/314
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 34/177
		CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334
		Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	AB 39/1
	İ	HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 42/187
		Janet M. Scherich, single	Noble Energy, Inc.	15%	806/311
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 34/177
		CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
	ļ	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334
		Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	AB 39/1
		HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 42/187
16	205053000/	Scott Douglas Reed, a married man dealing in his			
(4 leases)	T115195	sole and separate property	Noble Energy, Inc.	15%	806/317
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 34/177
		CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
	1	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334
		Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	AB 39/1
		HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 42/187
		Richard P. Barto and Mary Lee Barto	Noble Energy, Inc.	15%	805/554
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 33/28
		CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334
		Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	AB 39/1
		HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 42/187
		Eugene Scherich, widower	The Manufacturers Light and Heat Company	12.50%	326/101
		The Manufacturers Light and Heat Company	Columbia Gas Transmmission Corporation	Assignment	422/204
		Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
47	202134000/	Columbia Gas Transmission LLC	NiSource Energy Ventures	Assignment	21/428
17	T112137	NiSource Energy Ventures, Columbia Gas Transmission	CNX Gas Company LLC	Sublease	848/97
			NiSource Energy Ventures, Columbia Gas	17%	
		Pauline Myers Family Limited Partnership	Transmission	(Royalty Modification)	835/594
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334
		Columbia Energy Ventures	CNX Gas Company LLC	Assignment	504/2274
	<b>!</b>	Columbia Energy Ventures	CNX Gas Company LLC	Assignment	504/22/4
		Eugene Scherich, widower	The Manufacturers Light and Heat Company	1/8	326/105
	1	The Manufacturers Light and Heat Company	Columbia Gas Transmmission Corporation	Assignment	
	i	i inc manufacturers tight and recat company	Conumbia des fratisminission corporation	Manight The Land	422/204
					· · · · · · · · · · · · · · · · · · ·
		Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
18	202133000/		Columbia Gas Transmission LLC NiSource Energy Ventures	Merger/Name Change Assignment	683/459 21/428
18	202133000/ T112136	Columbia Gas Transmmission Corporation	NiSource Energy Ventures CNX Gas Company LLC and Columbia Gas		
18		Columbia Gas Transmmission Corporation Columbia Gas Transmission LLC	NiSource Energy Ventures	Assignment	21/428

	ĺ	Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	AB 39/1
		HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 342/187
		Helen I. Bernen widern	TO Content in 110	19%	040/474
19	285652000	Helen L. Doman, widow	TH Exploration, LLC		949/454
13	283632000	Helen L. Doman, widow	TH Exploration, LLC	Amendment	962/521
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
	407007000/	Helen L. Doman, widow	TH Exploration, LLC	19%	949/454
20	195297000/	Helen L. Doman, widow	TH Exploration, LLC	Amendment	962/521
	T104972	TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
	202385000/	Helen L. Doman, widow	TH Exploration, LLC	19%	949/454
21	T112395	Helen L. Doman, widow	TH Exploration, LLC	Amendment	962/521
	1112393	TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
<u></u>		T	The Manufacturers Light and Heat Company	12.50%	528/76
		Eugene Scherich, widower		12.30%	328/70
	202386000/		NiSource Energy Ventures, Columbia Gas	17%	472/420
22	T112396	Pauline Myers Family Limited Partnership	Transmission		
		Columbia Energy Ventures, LLC f/k/a NiSource	CNX Gas Company, LLC	Sublease	477/241
	•	Energy Ventures, LLC			·
		Columbia Energy Ventures, LLC	CNX Gas Company, LLC	Assignment	492/682
			The Manufacturers Light and Heat Company	1/8	
	202384000/	B.L. Frye and Dora Frye, husband and wife	CNIV Con Company LLC		447/53
23	7112394	Columbia Gas Transmission Corporation Columbia Energy Ventures, LLC f/k/a NiSource	CNX Gas Company LLC	Deed	414/1259
	1112394	Energy Ventures, LLC 1/k/a Misource	CNX Gas Company, LLC	Sublease	477/241
		Columbia Energy Ventures, LLC	CNX Gas Company, LLC	Assignment	504/2274
	· · · · · · · · · · · · · · · · · · ·	porturning Energy ventures, see	jena das dampany, tito	71551BHHELIE	304/22.14
			TH Exploration, LLC		949/454
24	195298000/ T104973	Helen L. Doman, widow	TH Fundamental II C	19%	
	11049/3	Helen L. Doman, widow	TH Exploration, LLC	Amendment	962/521
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
		W. Collier Baldwin and Sarah H. Baldwin, his wife	Columbia Gas Transmission Corporation	1/8	574/447
		Columbia Gas Transmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	414/1259
		Columbia Gas Transmission LLC	NiSource Energy Ventures LLC	Assignment	415/213
25	202387000/ T112397		NiSource Energy Ventures, Columbia Gas		
23	202307000/1112397	John E. Snyder et al	Transmission and CNX Gas Company LLC	18%	477/2251
		Columbia Energy Ventures, LLC, Columbia Gas			<del></del>
		Transmission, LLC and CNX Gas Company	Columbia Gas Transmission LLC	Sublease	477/241
		Columbia Energy Ventures, LLC, Columbia Gas		Amendment to Memo of	

		W. Collier Baldwin and Sarah H. Baldwin, his wife	Columbia Gas Transmission Corporation	1/8	574/447
		Columbia Gas Transmission Corporation	Columbia Energy Ventures, LLC	Name Change	414/1259
		Columbia Gas Transmission LLC	NiSource Energy Ventures LLC	Assignment	415/213
26	204996000/ T115136		NiSource Energy Ventures, Columbia Gas		
20	204996000/ 1113136	John E. Snyder et al	Transmission and CNX Gas Company LLC	18%	477/2251
		Columbia Energy Ventures, LLC, Columbia Gas			
		Transmission, LLC and CNX Gas Company	Columbia Gas Transmission LLC	Sublease	477/241
		Columbia Energy Ventures, LLC, Columbia Gas		Amendment to Memo of	
		Transmission, LLC	CNX Gas Company LLC	Sublease	480/1972
		Eugene Scherich, widower	The Manufacturers Light and Heat Company	1/8	528/76
27	202386000/ T112396	Pauline Myers Family Limited Partnership	NiSource Energy Ventures, Columbia Gas Transmission	17%	472/420
	20230000, 1212330	Columbia Energy Ventures, LLC f/k/a NiSource	CNX Gas Company, LLC		
		Energy Ventures, LLC	5 133 00poy, 120	Sublease	477/241
		Columbia Energy Ventures, LLC	CNX Gas Company, LLC	Assignment	492/682
			1		
		Delmar W. & Blanche Scherich, his wife	The Manufacturers Light and Heat Company	1/8	527/463
		Columbia Gas Transmission Corporation	Columbia Energy Ventures, LLC	Name Change	414/1259
		Columbia Gas Transmission LLC	NiSource Energy Ventures LLC	Assignment	415/213
			NiSource Energy Ventures and Columbia Gas		
		Tim Sabella	Transmission	Pooling Amendment	456/3855
			NiSource Energy Ventures and Columbia Gas	<u> </u>	
		Tom Sabella	Transmission	Pooling Amendment	456/3859
		Columbia Energy Ventures, LLC f/k/a NiSource	CNX Gas Company, LLC		
28	202392000/ T112402	Energy Ventures, LLC		Sublease	477/241
	,	Columbia Energy Ventures, LLC, Columbia Gas		Amendment to Memo of	
		Transmission, LLC	CNX Gas Company LLC	Sublease	480/1972
		Columbia Energy Ventures, LLC	CNX Gas Company LLC	Partial Assignment	492/682
		Columbia Energy Ventures, LLC	CNX Gas Company LLC/Noble Energy Inc	Partial Assignment	496/490
		CNX Gas Company LLC	Noble Energy Inc	Assignment	496/2775
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	496/2971
		Noble Energy, Inc.	HG Energy Appalachia, LLC	Assignment	503/2593
		Noble Energy, Inc.	CNX Gas Company LLC	Corrective to Assignment	510/2242
		HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 42/187
	2000000174:2:2:	Tom Sabella aka Thomas J. Sabella and Beth Ann Sabella, husband and wife	Noble Energy Inc	15%	467/3295
29	202391000/ T112401	Noble Energy Inc	CNX Gas Company LLC	Assignment	477/3445
		Noble Energy Inc	CNX Gas Company LLC	Assignment	496/2971
		S. Elsworth Allison and Lucille Allison, his wife	The Manufacturers Light and Heat Company	12.50%	514/359
		Columbia Gas Transmission Corporation	Columbia Energy Ventures, LLC	Name Change	414/1259
		Columbia Gas Transmission LLC	NiSource Energy Ventures LLC	Assignment	415/213

		Pechin Leasing, LLC	Nisource Energy Ventures, Columbia Gas Transmission and CNX Gas Company LLC	15%	473/2094
		Donald R. D'Amico	Nisource Energy Ventures, Columbia Gas Transmission, CNX Gas Company LLC and Noble Energy Inc.	15%	492/2047
30	202393000/ T112403	Columbia Energy Ventures, LLC f/k/a NiSource Energy Ventures, LLC	CNX Gas Company, LLC	Sublease	477/241
-		Columbia Energy Ventures, LLC, Columbia Gas		Amendment to Memo of	
		Transmission, LLC	CNX Gas Company LLC	Sublease	480/1972
		Columbia Energy Ventures, LLC	CNX Gas Company LLC	Partial Assignment	492/682
	1	Columbia Energy Ventures, LLC f/k/a NiSource			
		Energy Ventures, LLC	CNX Gas Company LLC	Partial Assignment	496/490
		CNX Gas Company LLC	Noble Energy Inc	Assignment	496/2775
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	496/2971
		Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	503/2593
		HG Energy II Appalachia, LLC	CNX Gas Company LLC	Assignment	AB 42/187

•

### QUITCLAIM DEED

This QUITCLAIM DEED (this "Deed") is made as of the 30<sup>th</sup> day of May, 2018 (the "Effective Time"), by and between CNX RESOURCE HOLDINGS LLC, a Delaware limited liability company ("GRANTOR"), with a tax mailing address of 1000 CONSOL Energy Drive, Suite 400, Canonsburg, PA 15317, and CNX GAS COMPANY LLC, a Virginia limited liability company ("GRANTEE"), with a tax mailing address of 1000 CONSOL Energy Drive, Suite 400, Canonsburg, PA 15317. GRANTOR and GRANTEE may be referred to herein individually as a "Party" and collectively as the "Parties."

WITNESSETH, that for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the terms and conditions hereof, GRANTOR does hereby GRANT, CONVEY, ASSIGN, TRANSFER, and QUITCLAIM unto GRANTEE, without warranty of any kind or nature, all of GRANTOR's right, title, interest, and estate in and to the oil, gas, and coalbed methane within and underlying those certain tract(s) or parcel(s) described on <a href="Exhibit A">Exhibit A</a> (whether one or more, collectively, the "Conveyed Interests"), together with all rights, privileges, benefits, and powers as are appurtenant, necessary, convenient, implied and/or incidental to the possession, ownership, enjoyment, operation and/or development of the Conveyed Interests.

TO HAVE AND TO HOLD the Conveyed Interests unto GRANTEE, its successors and assigns, forever, subject, however, to (i) all the terms and conditions of this Deed; (ii) any and all other reservations, exceptions, rights of way, easements, covenants, conditions, restrictions or servitudes made, created or retained in prior deeds or other instruments of record as of the date hereof affecting or pertaining to the Conveyed Interests hereby conveyed; and (iii) governmental laws, ordinances, and regulations affecting the Conveyed Interests hereby conveyed and the uses to be made thereof.

THE CONVEYED INTERESTS ARE BEING CONVEYED IN AN "AS IS, WHERE IS" CONDITION AND "WITH ALL FAULTS" IN THEIR PRESENT CONDITION WITHOUT ANY REPRESENTATION OR WARRANTY AS TO TITLE OR OTHERWISE (EXPRESS OR IMPLIED) OF ANY KIND OR NATURE, STATUTORY OR OTHERWISE, ORAL OR WRITTEN, PAST, PRESENT OR FUTURE. GRANTOR AND GRANTEE AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE. THE **DISCLAIMERS** OF TATIONS
"CONSPICUOUSON 1,3 2018 CERTAIN REPRESENTATIONS WARRANTIES CONTAINED IN THIS PARAGRAPH ARE DISCLAIMERS FOR THE PURPOSE OF ANY APPLICABLE LAW.

This Deed shall bind and inure to the benefit of the Parties hereto and their respective national successors and assigns.

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.

RECEIVED
Office of Oil and Gas

### **DECLARATION OF CONSIDERATION OR VALUE**

GRANTOR hereby declares that this Deed is a quitclaim deed without consideration and, therefore, is not subject to the West Virginia excise tax on the privilege of transferring real property pursuant to West Virginia Code Section 11-22-1, et seq.

[Signature pages follow]

RECEIVED Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection Office of Cityles JUN 29 2018

Environnepatrinel of Cityles of Cit

Environmental Protection

Environmental Protection

### 4705 102070

IN WITNESS WHEREOF, this Deed has been executed by the Parties hereto as of the dates of their respective acknowledgements below, but is effective for all purposes as of the Effective Time.

### **GRANTOR:**

### CNX RESOURCE HOLDINGS LLC

Name: Alexander J. Reyes
Title: Vice President

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF WASHINGTON, TO-WIT:

I, <u>Sara M. Micoli</u>, a notary public of the said county, do hereby certify that on this <u>30</u> day of May, 2018, before me personally appeared Alexander J. Reyes, who acknowledged himself to be the Vice President of CNX RESOURCE HOLDINGS LLC, a Delaware limited liability company, 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.

Notary Public M. Micoli

My commission expires: 3/11/19
(Notarial Seal)

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Sara M. Micoli, Notary Public
Cecil Twp., Washington County
My Commission Expires March 11, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

RECEIVED Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection

SIGNATURE AND ACKNOWLEDGMENT PAGE

**GRANTEE:** 

CNX GAS COMPANY LLC

By: Alexander J. Reyes

Title: Vice President

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF WASHINGTON, TO-WIT:

I, Nara M. Microli, a notary public of the said county, do hereby certify that on this 30 day of May, 2018, before me personally appeared Alexander J. Reyes, who acknowledged himself to be the Vice President of CNX GAS COMPANY LLC, a Virginia limited liability company, 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.

Notary Public Notary Public

My commission expires: 3/11/19
(Notarial Seal)

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL

Sara M. Micoli. Notary Public

Cecil Twp.. Washington County

My Commission Expires March 11, 2019

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Office of Oil and Gas

JUN 29 2018

Environmental Protection

Office of Oil and Gas

JUN 1 3 2018

Environment of Protection

This document was prepared by: Erin F. Paternostro, Esq., Steptoe & Johnson PLLC, P. O. Box 1588, Charleston, WV 25326-1588 (Without Title Examination)

RECEIVED
Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection

SIGNATURE AND ACKNOWLEDGMENT PAGE

### EXHIBIT A

### **Conveyed Interests**

The Conveyed Interests underlying that certain tract or parcel of land situate in Webster District, Marshall County, West Virginia, being more particularly bounded and described as follows, less all prior conveyances of record:

Beginning at a stone by corner of fence post on west side of Dry Ridge County Road, said stone also marking the corner between W. H. Martin and W. S. Phillips; thence South 28° 30' East 385 feet to an iron stake at the intersection of said road with road to Warden's Run, said stake marking the southwest corner of the Cross Road School lot; thence South 59° 31' East 148 feet to a stake in old road; said old road being south of present county road; thence North 4° West 250 feet to a stake in fence row, said stake marking the northeast corner of the aforementioned school house lot; thence down the hill with lands of C. M. Phillips, North 73° 45' East 605.5 feet to a small elm on north bank of small ravine at its junction with another small ravine; thence up the hill North 86° 00' West 317 feet to a stake on bench; thence South 23° 45' West 46 feet to stake on bench; thence up hill North 78° 30' W507 feet to a stake at west side of Dry Ridge County Road; thence South 20° 11' West 103 feet to the place of beginning, containing 3.352 acres, more or less.

There is excepted from this Deed, and not hereby conveyed, the following described parcel of land which is part of the above described 3.352 acres and is also situate in Webster District, Marshall County, West Virginia, bounded and being more particularly described as follows:

Beginning at a rebar set at the southernmost corner of a 3.352 acre tract of land that was conveyed to Dry Ridge Community Association by a deed dated October 18, 1960, and of record in said Clerk's office in Deed Book 347, at page 178. The said point also being located at the southwestern corner of a 9.978 acre tract of land that was conveyed to Russell and Mildred Strope by a deed dated March 29, 1960, and of record in said Clerk's office in Deed Book 344, at page 219, as shown as Tract "D" on a plat of record in said Clerk's Office in Deed Book 172, at page 591. Thence, from the said place of beginning, with the westernmost lines of the said Tract "D", and with the easternmost line of the aforesaid

Office of Oil and Gas

JUN 29 2018

WW Department of Environmental Protection

Office of Oil and Gas

JUN 1 3 2018

Environmental Protection

EXHIBIT A
PAGE I

RECEIVED
Office of Oil and Gas

JUN 29 2018

AUG 6 2018

WV Department of Environmental Protection

3.352 acre Dry Ridge Community Association, N. 04° 00' W. passing on line a 16 penny carpenters spike set in the center of Marshall County Route 50 at 69.37 feet, continuing with the existing fenceline, for a total distance of 287.18 feet to a rebar set. Thence, leaving the fence and now through the lands of Dry Ridge Community Association, a new division line now established herein, S. 84° 55' W. passing on line a rebar set atop the embankment at 159.17 feet, for a total distance of 199.87 feet to point on the western margin of Marshall County Route 48. Thence, with the western margin of the said road and with the westernmost line of Tract "G" of the above said plat, S. 25° 18' E. for a distance of 214.86 feet to a point at or near the intersection of the previously said roads. Thence, with the southern line of tract "G" and with the southernmost line of the aforementioned 3.352 acre tract, S. 59° 31' E. for a distance of 148.00 feet to the place of beginning, containing 0.86 acres, more or less, as surveyed in the field in November, 1996, by Bryan A. Payne, West Virginia Registered Land Surveyor No. 977.

The above described property is subject to that portion of Lucy Land (Marshall County Route #50) and Dry Ridge Road (Marshall County Route #48) that lies within its borders.

Being all or a portion of the same property conveyed by Deed from Edward G. Strope, Roger S. Strope, Charles B. Strope, Gary W. Strope, Daniel K. Strope, and Carla Sue Strahl to Consol Pennsylvania Coal Company LLC, dated May 23, 2014, and recorded in the office of the Clerk of the County Commission of Marshall County, West Virginia in Book 829, Page 132, and described therein as "Parcel No. 3."

Further being part of the same property conveyed from Consol Pennsylvania Coal Company LLC, et al. to CNX Resource Holdings LLC by Quitclaim Deed, Assignment and Bill of Sale dated effective as of 12:01 p.m. (Eastern Time) on October 6, 2017, and recorded in the Office of the Clerk of the County Commission of Marshall County, West Virginia in Deed Book Office of Oil and Gas 946, Page 413.

QLS No.: 258782000.

WITHIN OR UNDERLYING all or a portion of the following tax map and parcel: Environmental Protection 11-16.

The acreages recited or described in Exhibit A may not accurately reflect the actual acreage of the Conveyed Interests, including those recitals or descriptions for which a survey of the acreage was not conducted or where acreage has been conveyed or otherwise transferred prior to the date hereof.

EXHIBIT A
PAGE 2



Erika Whetstone Permitting Manager Work: 724-485-4035 Mobile: 724-317-2224 Email: erikawheztone@filx.dom & CNX Cente<mark>1 2/2 1/20 18</mark> 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506 724-485-4000

02070

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304-2345

RE: Road Letter - MAJ10 Well Pad

To Whom It May Concern:

CNX Gas Company LLC 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 need additional information, please do not hesitate to contact me at erikawhetstone@cnx.com or 724-485-4035.

Sincerely,

Erika Whetstone CNX Gas Company LLC

> RECEIVED Office of Oil and Gas

AUG 6 2018

WW Department of Environmental Protection

> RECEIVED Office of Oil and Gas

JUN 1 3 2018

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

JUN 29 2018

WV Department of Environmental Protection

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

Date of Notic	ce Certification: 8318	API	API No. 47-051-02070					
	<b></b>	Opei	Operator's Well No. MAJ10BHSU					
		Well	Pad Name: MAJ10H	ISU				
Notice has b	oeen given:		<del>-</del> -					
	e provisions in West Virginia Code	§ 22-6A, the Operator has provided	the required parties v	vith the Notice Forms listed				
	tract of land as follows:	•	•					
State:	West Virginia	UTM NAD 83						
County:	Marshall	Nort	hing: 4418813.670					
District:	Webster	Public Road Access:	Dry Ridge Road-	Dry Ridge Road-CR48				
Quadrangle:	Majorsville	Generally used farm na	ame: CNX					
Watershed:	Wheeling Creek							
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sed the owners of the surface described and (c), surface owner notice of entry to stoof subsection (b), section sixteen (c) § 22-6A-11(b), the applicant shall have been completed by the applicant	thed in subdivisions (1), (2) and (4) ection sixteen of this article; (ii) that arrivey pursuant to subsection (a), so of this article were waived in writing tender proof of and certify to the sec	), subsection (b), see the requirement was action ten of this arting by the surface ov	ction ten of this article, the deemed satisfied as a resul cle six-a; or (iii) the notice wner; and Pursuant to Wes				
	West Virginia Code § 22-6A, the Orator has properly served the require		otice Certification					
*PLEASE CHI	ECK ALL THAT APPLY			OOG OFFICE USE ONLY				
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED I SEISMIC ACTIVITY WAS CO		☐ RECEIVED/ NOT REQUIRED				
■ 2. NO	ΓΙCE OF ENTRY FOR PLAT SUR	VEY or $\square$ NO PLAT SURVEY W	AS CONDUCTED	☐ RECEIVED				
■ 3. NO	FICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED DESCRIPTION NOTICE OF ENTRY FOR PLATE WAS CONDUCTED OF		☐ RECEIVED/ NOT REQUIRED				
		☐ WRITTEN WAIVER BY S' (PLEASE ATTACH)	URFACE OWNER					
■ 4. NO	ΓΙCE OF PLANNED OPERATION	RECEIVED Office of Oil and Ga	38	☐ RECEIVED				
■ 5. PUE	BLIC NOTICE	AUG 6 2018		☐ RECEIVED				
■ 6. NO	FICE OF APPLICATION	WV Department of Environmental Protect	tion	☐ RECEIVED				

### **Required Attachments:**

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

### Certification of Notice is hereby given:

51-02070

			the notice requirements within West Virginia Code § 22-	
6A. I certify the	at as required under West Virginia C	ode § 22-6A, I have so	erved the attached copies of the Notice Forms, identified	
above, to the re	equired parties through personal serv	ice, by registered mail	or by any method of delivery that requires a receipt or	
signature confir	mation. I certify under penalty of law	that I have personally	examined and am familiar with the information submitted	
			inquiry of those individuals immediately responsible for	
			d complete. I am aware that there are significant penalties	
	alse information, including the possible			
	and the state of t			
Well Operator:	CNX Gas Company, LLC	Address:	1000 Consol Energy Drive	
By:	Erika Whetstone		Canonsburg, PA 15317	
Its:	Permitting Manager	Facsimile:		
Telephone:	724-485-4035	Email:	ErikaWhetstone@CNX.com	1
	-	Commonwed	the of Pennsylvania County of Washin	nd
	Company of Additional Control of		710	1/2
COMMON	WEALTH OF RENNSYLVANIA	Subscribed and swo	orn before me this day of day of	
	NOTARIAL SEAL	7 - 5		
	ori L. Walker, Notary Public ichhill Twp., Greene County	(XXX)	Notary Public	
	ommission Expires Feb. 23, 2019	2600	[] 14 4-10	
	INSYLVANIA ASSOCIATION OF NOTARIES	My Commission Ex	xpires tolking 13 2019	
		The community of		

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 <a href="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

RECEIVED Office of Oil and Gas

AUG 6 2018

WW Department of Environmental Protection WW-6A (9-13) API NO. 47-5/ - 02070

OPERATOR WELL NO. MAJ10BHSU

Well Pad Name: MAJ10HSU 12/21/2018

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

Noti	ce Time Requireme	nt: notice shall be provide	ded no later tha	n the filing date of permit application.
		Date Permit Applicat	tion Filed: $\frac{\mathcal{G}}{}$	318
Noti	ce of:			
<b>7</b>	PERMIT FOR ANY	<del>-</del>	-	ROVAL FOR THE AN IMPOUNDMENT OR PIT
Deli	very method pursua	ant to West Virginia Co	de § 22-6A-10	(b)
П	PERSONAL	✓ REGISTERED	П метн	OD OF DELIVERY THAT REQUIRES A
_	SERVICE	MAIL		PT OR SIGNATURE CONFIRMATION
regis sedin the stories oil are described from the sedin term of t	tered mail or by any nament control plan requestrace of the tract on and gas leasehold being tibed in the erosion are ator or lessee, in the expectation of the surface transfer or lesses, in the expectation of the surface transfer or pit as designed water well, spring of the water for consumptions of the sheriff requires of the sheriff requ	nethod of delivery that required by section seven of the which the well is or is progregated by the proposed sediment control plan sevent the tract of land on who were so freed of the subsection of the subsection of the subsection by humans or domestry is to take place. (c)(1) If on hold interests in the larging the contrary, notice to a lighter, in part, that the operation of the subsection of the subsec	quires a receipt of his article, and the posed to be located well work, if the ubmitted pursual which the well purface tract or tracement, constraints article; (5) A stated within one thic animals; and for more than three holds, the applicant uant to section of the en holder is not ator shall also p	at as required by this article shall deliver, by personal service or by or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of teted; (2) The owners of record of the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed function, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the e tenants in common or other co-owners of interests described in the reight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
<b>Ø</b> A	pplication Notice	☑ WSSP Notice ☑ E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:
	JRFACE OWNER(s	)		☑ COAL OWNER OR LESSEE
	e: CNX LAND, LLC		_	Name: See attached.
	ress: 1000 Consol Energy	Drive	_	Address:
	nsburg, PA 15317		_	- COAL OPERATION
Nam	e:		-	☐ COAL OPERATOR
Add	ress:		_	Name: Consol Pennsylvania Coal Company, LLC
				Address: 1000 Consol Energy Drive
		) (Road and/or Other Dis	sturbance)	Canonsburg, PA 15317
	e: Michael S. Riggle		_	SURFACE OWNER OF WATER WELL
	ress: 3648 Dry Ridge Roa	d		AND/OR WATER PURVEYOR(s)
	ron, WV 26033		_	Name:
	e: CNX LAND, LLC		_	Address:
	ress: 1000 Consol Energy	Drive	_	
	nsburg, PA 15317		_	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
$\Box$ sc	KFACE OWNER(s	) (Impoundments or Pits)	)	Name: COLUMBIA GAS TRANSMISSION, LLC
Nam	e:	Office o	CEIVED	Address: P. O. BOX 1273
Addı	ress:	Office o	of Oil and Gas	*Please attach additional forms if necessary
		AUG	6 2018	

WW-6A (8-13) Office I I and Gas

AUG 6 2018

API NO. 47-5(-02070)
OPERATOR WELL NO. MAJ10BHSU
Well Pad Name: MAJ10HSU 12/21/2018

Notice is hereby given:

W// ment of Environment of Trataction

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they 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- 5 1 - 0 2070
OPERATOR WELL NO. MAJ10BHSU
Well Pad Name: MAJ10HSU 12/21/2018

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

RECEIVED Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection

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.

#### 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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 and Gas

AUG 6 2018

WW-6A (8-13) API NO. 47-56 - 02070 OPERATOR WELL NO. MAJ 106HSE 1/2018 Well Pad Name: MAJ 10HSU

Notice is hereby given by:

Well Operator: CNX Gas Company, LLC

Telephone: 724-485-3540 Email: RaymondHoon@CNX.com Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Facsimile:

#### 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

WIST.	JONATHAN D. JONES
SA1. 18	Notary Public Official Seal
	State of West Virginia
	My Comm. Expires Nov 27, 2021
	One Dominion Drive Jane Lew WV 26378

Subscribed and sworn before me this 3 day of July, 2018.

Notary Public

My Commission Expires

RECEIVED Office of Oil and Gas

AUG 6 2018

#### **WW6A Notice of Application - Attachment**

51-02070 MAJ10BHSU 12/21/2018

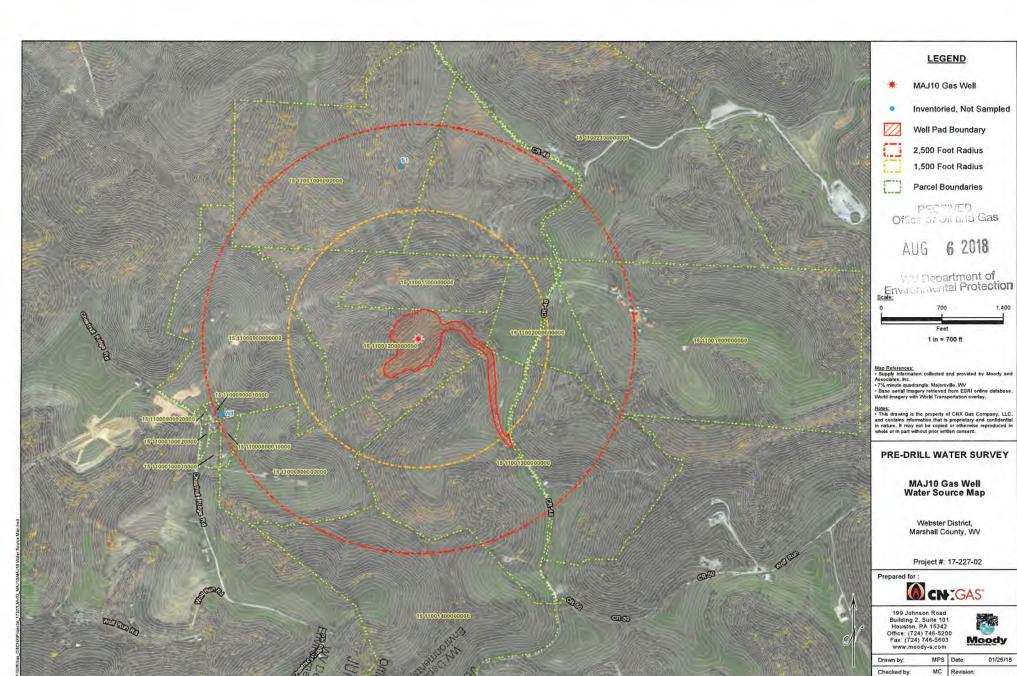
#### Coal Owner(s):

Consol Pennsylvania Coal Company, LLC 1000 Consol Energy Drive Canonsburg, PA 15317

CNX THERMAL HOLDINGS LLC 1000 CONSOL Energy Drive Canonsburg, PA 15317

RECEIVED
Office of Oil and Gas

AUG 6 2018



To Bellevin Co Mileson

47 0 5 \* 12/21/2918

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

	lequirement:	Notice shall be prov	ided at least S	EVEN (7) day	s but no more than	FORTY-FIV	/E (45) days p	rior to
entry Date of Notice	12/7/17	Date of Plan	med Entry: 1	12/14/17				
Delivery meth	od pursuant	to West Virginia Co	de § 22-6A-1	10a				
☐ PERSON	AI.	REGISTERED	П мет	HOD OF DEL	VERY THAT RE	OUIRES A		
SERVICE		MAIL			ATURE CONFIRI	Charles and the Control of the Contr		
on to the surfa but no more the beneath such to owner of mine and Sediment Secretary, while enable the surface	ce tract to cond an forty-five d ract that has fil rals underlying Control Manua ch statement si face owner to co	ode § 22-6A-10(a), P duct any plat surveys lays prior to such ent led a declaration pur- g such tract in the co al and the statutes an hall include contact in obtain copies from the	required pur- ry to: (1) The suant to section unty tax record d rules related information, i	suant to this art surface owner on thirty-six, ar rds. The notice d to oil and gas	cicle. Such notice slow of such tract; (2) to ticle six, chapter to shall include a state exploration and properties.	hall be provide o any owner of venty-two of the tement that conduction may	ed at least sevent lessee of coathis code; and (opies of the state be obtained from	en days I seams 3) any te Erosion com the
Notice is here  SURFAC		0:		■ COAL	OWNER OR LES	SSEE		
Name: CNX LAN				Name: See				
Address: 1000		Office of	EIVED Oil and Gas	Address:	attacriou		_	
Canonsburg, PA 15		. Office of	On and dag	Addiess.				
Name:	- 10	AUG	6 2018				Offic RECO	
Address:		Hou	0 2010	MINE	RAL OWNER(s)		Office Of Oil	VED
riumess.		WV Dep	partment of	NT CNI	Gas Company, LLC		JUN 13	and Gae
Name:		Environme	ntal Protection		1000 Consol Energy Drive	1	0/13	20.
Address:				Canonsburg, F		En	Vira Dan	2018
					additional forms if ne	cessary	nonmental per	nt os
a plat survey of State:	est Virginia C	ode § 22-6A-10(a), i land as follows:	notice is hereb	Approx. Latit	ude & Longitude:	operator is pl	°32'14.17"	
County:	Marshall			Public Road A	Access:	Dry Ridge Road (	CR-48	
District:	Webster			Watershed:		Wheeling Creek		
Quadrangle:	Majorsville			Generally use	d farm name:	CNX		
may be obtain Charleston, W	red from the Se V 25304 (304	and Sediment Control ecretary, at the WV I 4-926-0450). Copies by visiting www.de	Department of s of such docu	Environmenta ments or addit	l Protection headquional information r	uarters, locate	d at 601 57 <sup>th</sup> S zontal drilling.	treet, SE,
Notice is her	reby given by	v.					ILIN S	9 2018
Well Operator		To the property of the second		Address:	1000 Consol Energy Dr	ive		
Telephone:	724-485-3540	ra), and			Canonsburg, PA 15317		WV Der	partment of ntal Protection
Email:	RaymondHood	@CNX.com		Facsimile:			Environme	1 reset 1 1 - 1 - 1
				2				-
01 10	Delan an Bra							

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@ww.gov.

MAJ10HSU

WW6A3 Attachment

#### **COAL OWNER OR LESSEE:**

Consol Pennsylvania Coal Company, LLC 1000 Consol Energy Drive Canonsburg, PA 15317

CNX THERMAL HOLDINGS LLC 1000 CONSOL Energy Drive Canonsburg, PA 15317

Office of Oil and Gas

JUN 1,3 2018

WW Department of Environmental Protection

RECEIVED Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection RECEIVED Office of Oil and Gas

JUN 29 2018

51-02-42/20/2018

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

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

Notice Time Date of Notic		ded at least TEN (10) days prior to filing a te Permit Application Filed: _ ろっといる	
Delivery me	thod pursuant to West Virginia Co	de § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		requested	
receipt reque drilling a hor of this subsec subsection m and if availab	sted or hand delivery, give the surfaction izontal well: <i>Provided</i> , That notice stion as of the date the notice was proay be waived in writing by the surfaction, facsimile number and electronic in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction in the surfaction is the surfaction of the surfaction of the surfaction is the surfaction of the surfacti	ten days prior to filing a permit application, be owner notice of its intent to enter upon the given pursuant to subsection (a), section te ovided to the surface owner: <i>Provided, how</i> be owner. The notice, if required, shall inclimate address of the operator and the operator	ne surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number,
Notice is he Name: CNX LA	reby provided to the SURFACI	E OWNER(s): Name:	
	Consol Energy Drive	Address:	
Canonsburg, PA		ridicss.	
State: County:	West Virginia Marshall	UTM NAD 83 Easting: Northing:	539562.299 4418813.670
	Marshall	Nortning:	4418813.670
District:	Webster		Dry Ridge Road-CR48
Quadrangle: Watershed:	Majorsville Wheeling Creek	Generally used farm name:	CNX
This Notice Pursuant to facsimile nur	Shall Include: West Virginia Code § 22-6A-16(b) mber and electronic mail address of rizontal drilling may be obtained fro	, this notice shall include the name, addr f the operator and the operator's authorize om the Secretary, at the WV Department of 304 (304-926-0450) or by visiting www.de	ed representative. Additional information f Environmental Protection headquarters,
	reby given by:		
	CNX Gas Company, LLC	Authorized Representative:	Raymond Hoon
Address:	1000 Consol Energy Drive	Address:	1000 Consol Energy Drive
Canonsburg, PA	15317	Canonsburg, PA 15317	
Telephone:	724-485-3540	Telephone:	724-485-3540
Email: Facsimile:	RaymondHoon@CNX.com	Email: Facsimile:	RaymondHoon@CNX.com
Oil and Ca	Duivagy Nation		

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

RECEIVED
Office of Oil and Gas

AUG 6 2018

WW-6A5 (1/12)

51-02-076 Operator Well No. MAJ10BHSU

12/21/2018

RECEIVED

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

RETURN RECEIPT REQUESTED  DELIVERY  Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter.  (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.  Notice is hereby provided to the SURFACE OWNER(s)  (at the address listed in the records of the sheriff at the time of notice):  Name:		e Requirement: notice shall be proice: Solution Date P	ovided no later than the filing ermit Application Filed:		cation. RECEIVED Office of Oil and Gas
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.  Notice is hereby provided to the SURFACE OWNER(s)  (at the address listed in the records of the sheriff at the time of notice):  Name: ONLIND, LLG  Name: Address: 1000 Console Emergy Drive  Canonaburp, Pa 15317  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State: West Virginia Code § 22-6A-16(c), manually a horizontal well on the tract of land as follows:  State: West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2)	Delivery me	ethod nursuant to West Virginia	Code 8 22-6A-16(c)		AUG 6 2018
ERTURN RECEIPT REQUESTED  DELIVERY  Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this stricle to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.  Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice):  Name: CNX LANO, LLC  Address: [1000 Comad Energy Driva Address: Address: Source owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State: West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State: West Virginia Code § 22-6A-16(c), this notice shall include: 10 Majerabell Majerabel	Denvery in	thou pursuant to vicer virginia	Code 8 22 0/1 10(c)		WV Densiting of
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.  Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice):  Name: CNX-MND. LLC  Address: 1000 Consol Energy Drive  Country: Measthall UTM NAD 83 Easting: 509862.299  Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State: West Virginia Code § 22-6A-16(c), this notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State: West Virginia Code § 22-6A-16(c), this notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of d	CERT	TIFIED MAIL	☐ HAND		Environmental Protection
return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter.  (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.  Notice is hereby provided to the SURFACE OWNER(s)  (at the address listed in the records of the sheriff at the time of notice):  Name: CANLAND, LLC  Name: CANLAND, LLC  Address:	RETU	JRN RECEIPT REQUESTED	DELIVERY		
Name: CNX LAND, LLC Address; 1000 Consol Energy Drive Canonsburg, PA 15317  Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia UTM NAD 83 Easting: 539-682.299 County: Marshall District: Webster Public Road Access: Dry Ridge Road-CR48 Quadrangle: Majorswile Generally used farm name: CNX  This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Well Operator: CNX Gas Company, LLC Address: 1000 Consot Energy Drive Canonsburg, PA 15317	return receip the planned required to be drilling of a damages to (d) The noti of notice.	ot requested or hand delivery, give operation. The notice required by provided by subsection (b), sect horizontal well; and (3) A proposite surface affected by oil and gas ces required by this section shall be	the surface owner whose land by this subsection shall inclu- ion ten of this article to a surface use and compen- operations to the extent the di- duction of the surface owner.	d will be used for the orde: (1) A copy of this ace owner whose land sation agreement contamages are compensal.	drilling of a horizontal well notice of s code section; (2) The information will be used in conjunction with the aining an offer of compensation for ole under article six-b of this chapter.
Address: 1000 Consol Energy Drive Canonsburg, PA 15317  Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia UTM NAD 83 Easting: Northing: 4418813.670  District: Webster Public Road Access: Dry Ridge Road-CR48  Quadrangle: Majorsville Wheeling Creek  This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Well Operator: CNX Gas Company, LLC Address: 1000 Consot Energy Drive Canonsburg, PA 15317	(at the addre	ess listed in the records of the sheri	ff at the time of notice):		
Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State:  West Virginia County:  Marshall District:  Webster Public Road Access: Quadrangle:  Majorsville Generally used farm name:  Watershed:  Wheeling Creek  This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Well Operator:  CNX Gas Company, LLC  Address:  1000 Consol Energy Drive  Canonsburg, PA 15317				S:	
Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State:  West Virginia  County:  Marshall  District:  Webster  Quadrangle:  Watershed:  Wheeling Creek  This Notice Shall Include:  Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Well Operator:  CNX Gas Company, LLC  Address:  1000 Consol Energy Drive  Canonsburg, PA 15317				*1	
Quadrangle: Majorswille Watershed: Majorswille Wheeling Creek  This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Well Operator: CNX Gas Company, LLC  Address: 1000 Consol Energy Drive  Telephone: 724-485-3540	Pursuant to operation of State: County:	West Virginia Code § 22-6A-16(c) In the surface owner's land for the particular was a land for t	purpose of drilling a horizonta  UTM NAD 8	$\begin{array}{c} \text{Il well on the tract of la} \\ \text{Easting:} \\ \text{Northing:} \\ \end{array} \begin{array}{c} 53956 \\ 44188 \end{array}$	and as follows: 2.299 13.670
Watershed: Wheeling Creek  This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Well Operator: CNX Gas Company, LLC Address: 1000 Consol Energy Drive  Telephone: 724-485-3540  Canonsburg, PA 15317					dge Road-CR48
This Notice Shall Include:  Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Well Operator:  CNX Gas Company, LLC  Address:  1000 Consol Energy Drive  Canonsburg, PA 15317			Generally us	ed farm name: CNX	
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Well Operator:  CNX Gas Company, LLC  Address:  1000 Consol Energy Drive  Canonsburg, PA 15317					
Telephone: 724-485-3540 Canonsburg, PA 15317	Pursuant to to be provide horizontal wasurface affectinformation headquarters	West Virginia Code § 22-6A-16(c) ded by W. Va. Code § 22-6A-10(c) rell; and (3) A proposed surface us cted by oil and gas operations to the related to horizontal drilling may solve to the surface of th	b) to a surface owner whose se and compensation agreement the extent the damages are composed by be obtained from the Secre	e land will be used in nt containing an offer ompensable under arti- tary, at the WV Depa	of conjunction with the drilling of a of compensation for damages to the cle six-b of this chapter. Additional rtment of Environmental Protection
1	Well Operat	Or: CNX Gas Company, LLC	Address:	1000 Consol Energy Drive	
	Telephone:	724-485-3540		ALCOHOLOGICA CONTRACTOR	
	Email:	RaymondHoon@CNX.com	Facsimile:	Water Control of the	

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

FORM SM-6 REV. 5-19-05 PAGE 1 OF 2

#### Wond

BOND NO. <b>CMS256310</b>
<del></del>
24 45247 6505 Phone No. 724-485-4000
PA 15317-6506 Phone No. 724-485-4000 , a corporation, organized
, with principal office at
, and duly licensed
surety, are held and firmly bound unto the State
housand and 00/100
d truly to be made, we bind ourselves, our heirs.
erally by these presents.
y, both thereunto duly authorized this 14th day
de at any bound asimal and has Glad with Wast
the above bound principal has filed with West
for a permit toximetable for heavy hauling on all "state
1-28 and as defined in WV Code §17-4-2(d) (herein
Brooke, Hancock, Marshall, Ohio, Tyler, and Wetzel.
48 that went into effect on September 28, 2010.
nia, in manner and form prescribed by The West
o said bridges, roads, highways, shoulders, and
the said building made biologies shoulders and
ult to said bridges, roads, highways, shoulders, and
as when same was entered upon, as determined by tys having jurisdiction over the work permitted, or
fore such bridges, roads, highways, shoulders, and
st Virginia Division of Highways for all inspection
such damages and faithfully comply with all terms.
est Virginia Division of Highways and the State of
id work or repairs; then this obligation to be void.
Office of CEIVED
iti tilat tile tekt atto to is a tolimini tobi comotionio (5-
evised 5-19-05. Attached notarized sight Arures and 2018
Enw Den
Environmental pent of
Environmental Period  SEAU Of ection
Office Gas
· · · · · · · · · · · · · · · · · · · ·
John M. Reilly JUN 29 2018
17
wice resident a pastifier WV Department of Environmental Protection
A Corporation
V Y Volumer De Altenner and act

RECEIVED
Office of Oil and Gas

FORM SM-6 PAGE TWO AUG 6 2018

STATE OF	,
COUNTY OF	, TO-WIT:
	. a Notary Public in and for the County and State
aforesaid, do hereby certify that	
whose name is signed to the foregoing writing, hea	rring date the day of,,
has this day acknowledged the same before me in r	
Given under my hand this day o	of
My commission expires	
	Notary Public
STATE OF Pennsylvania	
COUNTY OF Washington	
	, a Notary Public in and for the County and State
	illy
	14th day of February , 2011 , for
**************************************	fore me, acknowledged the said writing to be the act and deed of
said corporation.	
•	of February , 20 11 .
My commission expires October 1.	2011
	2011 Jaylan Vilie
	Notary Public
	COMMONWEALTH OF PENNSYLVANIA RECEIVED  Notarial Seal Office of Oil and Gas
	Kathryn A. Galle, Notary Public
STATE OF Tennessee	Upper St. Clair Twp., Allegheny County My Commission Expires Oct. 1, 2011  UN 2 9 2018
COUNTY OF Knox	
	, a Notary Public in and for the County and State
aforesaid, do hereby certify that Mary Y. Volmar	
who signed the foregoing writing bearing date the	14th day of February , 20 11 , for
RLI Insurance Company	
a corporation, has this day in my said County, bef	fore me, acknowledged the said writing to be the act and deed of
said comatiatio,	
Given and this 14th day of	of February , 20 11 .
My compaission of pires July 8, 2014	
RLI Insurance Company a corporation, has this day in my said County, before said compatibility, MCM Handuly hand this 14th day of the companies on a pires July 8, 2014 TELOROGEE HOWAY PLANCE STATE OF THE COMPANIES OF THE COMPAN	3 11 11/ 11/1/ NAV
	Notary Public ()

AUG 6 2018

WV Department of Environmental Protection



RLI Surery P.O. Box 3967 | Peoria, IL 61612-3967 Phone (800)645-2402 | Fax: (309)689-2036 www.rlicorp.com

#### POWER OF ATTORNEY

**RLI Insurance Company** 

#### Know All Men by These Presents:

That this Power of Attorney	is not valid or in effect	unless attached to the	bond which it authorizes	s executed, but may be	detached by the
approving officer if desired.				•	•

approving officer if desired.	
That RLI Insurance Company, an Illinois corporation, does hereby make, Donald Wake, Debia E. Clark-Kinkead, Joseph R. Poplawski, Tara W. Mea	constitute and appoint: der, Mary Y. Volmar, Kellie McKinney jointly or severally.
in the City of Knoxville, State of Temessee power and authority hereby conferred, to sign, execute, acknowledge an bond.	its true and lawful Agent and Attorney in Fact, with full d deliver for and on its behalf as Surety, the following described
Any and all bonds provided the bond penalty does not exceed Twenty F	ive Million Dollars (\$25,000,000,00).
The acknowledgment and execution of such bond by the said Attorney in F executed and acknowledged by the regularly elected officers of this Compa	act shall be as binding upon this Company as if such bond had been ny.
The RLI Insurance Company further certifies that the following is a true of RLI Insurance Company, and now in force to-wit:	and exact copy of the Resolution adopted by the Board of Directors
"All bonds, policies, undertakings. Powers of Attorney or other obligation the Company by the President, Secretary, any Assistant Secretary, Treast of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, Treast of Directors may authorize. The President, any Vice President, Secretary, any three President, Secretary, any three President, Secretary, any three President, Secretary, any three President, Secretary, any Assistant Secretary, Treast of Directors may authorize the President, Secretary, any Assistant Secretary, Treast of Directors may authorize the President, Secretary, any Assistant Secretary, Treast of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, Treast of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, Treast of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, Treast of Directors may authorize the President, any Vice President, Secretary, any Assistant Secretary, Treast of Directors may authorize the President, any Vice President, Secretary, any Assistant Secretary, Treast of Directors may authorize the President, any Vice President, Secretary, any Assistant Secretary, Treast of Directors may authorize the President, and Pres	retary, any Vice President, or by such other officers as the Board retary, any Assistant Secretary, or the Treasurer may appoint cies or undertakings in the name of the Company. The corporate Powers of Attorney or other obligations of the corporation. The
IN WITNESS WHERFOF, the RLI Insurance Company has caused the corporate seal affixed this 24th day of August, 2010	
State of Illinois County of Peor 1a	By:  Roy C. Die  R
	CERTIFICATE
On this 24th day of August 2010, before me a Notary Public personally appeared Roy C. Dic who being by me duly sworn, acknowledged that he signed the above Proxet of Attorney as the aforesaid officer of the RLI Insurance Company and a knowledged said instrument to be the voluntary act and deed of said confurction  By:  August 2010, before me a Notary Public personal acknowledged that he signed the above Proxet of Attorney as the aforesaid officer of the RLI Insurance Company and a knowledged said instrument to be the voluntary act and deed of said confurction	I, the undersigned officer of RI.1 Insurance Company, a stock corporation of the State of Illinois, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the company as semple the Power of Attorney, is now in force. In testimony of the RI.1 Insurance Company this Life day of February.
Cherie L. Montgomery Notary Public	RLI Insurance Company WV Department of Environmental Protection
OFFICIAL STALT  HASTO TO CHIERLE IN THE CONTROL  WATER TO CHIERLE  WATER TO CHIER	By: Roy C. Die Vice President



4705 02070

#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

January 25, 2018

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 MAJ-10 Well Pad, Marshall County MAJ-10 Well Site

Dear Mr. Martin,

Jim Justice

Governor

The West Virginia Division of Highways has issued Permit #06-2017-0833 for the subject site to CNX Resources for access to the State Road for the well site located off of Marshall County Route 48 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.

Environmental protection

Very Truly Yours,

Dary K. Clayton

RECEIVED Office of Oil and Gas

6 2018 AUG

WV Department of Environmental Protection

Gary K. Clayton Regional Maintenance Engineer Office of Oil and Gas

Central Office Oil &Gas Coordinator 2 9 2018

Cc: Shannon Miller CNX Resources CH, OM, D-6

File

#### Section V – Proposed Additives to be used in Fracturing or Stimulations

Type: Water CAS: 7732-18-5

Type: Silica CAS: 14808-60-7

Type: Hydrochloric Acid CAS: 7647-01-0

Type: Copolymer of Two Propenamide CAS: 69418-26-4

Type: Petroleum distillate CAS: 64742-47-8

Type: Glutaraldehyde CAS: 111-30-8

Type: Ethylene glycol CAS: 107-21-1

Type: Diethylene glycol mono n-butyl ether CAS: 112-34-5

Type: Oleic acid diethanolamide CAS: 93-83-4

Type: Alcohols, C12-16, ethoxylated CAS: 68551-12-2

Type: Quaternary ammonium compound CAS: 68424-85-1

Type: Ammonium chloride CAS: 12125-02-9

Type: Short chained glycol ether CAS: 112-34-5

Type: Ethoxylated (C10-16) alcohols CAS: 68002-97-1

Type: Metanol CAS: 67-56-1

Type: Formaldehyde CAS: 50-00-0

Type: Thiourea CAS: 62-56-6

Type: Acetophenone CAS: 98-86-2

RECEIVED Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection Since of Oil and Gas

JUN 1,3 2018

Environmental Protection

RECEIVED Office of Oil and Gas

JUN 29 2018



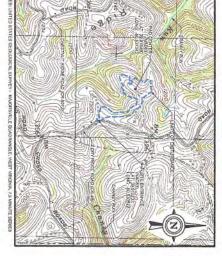


# **EROSION & SEDIMENT CONTROL PLAN** & SITE RESTORATION PLAN

## MAJ10 WELL SITE

MARSHALL COUNTY, WEST VIRGINIA FOR





NA



DIEFFENBAUCH & HRITZ, LLC





	INDEX
DRAWING NO.	TITLE
4	TITLE SHEET
80	GENERAL NOTES
3	EXISTING SITE PLAN
	SOUS PLAN
or.	OVERALI SITE PLAN
6-7	PROPOSED SITE PLAN
01	ACCESS ROAD PROFILE
ø	WELL PAD TYPICAL SECTIONS
9A	WELL PAD TYPICAL SECTIONS
10	ACCESS ROAD CROSS SECTIONS
175	TOE BENCH DETAILS
12-13	EAS DETAILS
1.6	SITE RESTORATION PLAN
15	SEED & MULCHPLAN
81	ANDWHIS A SERVICE



ST VIRGINIA CO STATE OF





2. THE CONTRACTOR SHALL APPLY A MINIMUM OF SIX INCHES (6") OF TOPSOE. TO ALL EXCAVATED AND FILLED SURFACES THAT WILL RECEIVE PERMANENT SEEDING AND MULCHING. TOPSOL SHALL CONSIST OF FRIABLE SURFACE SOL. REASONABLY FREE OF GRASS, ROOTS, WEEDS, STICKS, ROCKS, AND OTHER INSUITABLE MATERIAL. THE SOURCE OF THE TOPSOL SHALL BE EXISTING

3. SPREADING SHALL NOT BE CONDUCTED WHEN THE GROUNG OR YOFGOLLS FROZEL EXCESSIVELY WET, OR OTHERWISE IN A CONDITION DETRIMENTAL TO HIS OWNER, OR STRUMENTAL TO HIS CENSE A TOPOGO, APPLICATION SHALL BE LIGHTLY SCARFED, JUST PROCE TO THE SPREADING OFFERATION, WHITE COMPACTED SHATHLES ARE TOPOGOL SHALL BE FUNDED TO THE OFFERATION OFFERATION APPLICATION OF THE OFFERATION OFFERATION OFFERATION OFFERATION APPLICATION OF THE OFFERATION OFFERATION OFFERATION OFFERATION APPLICATION OF THE OFFERATION EQUIPMENT, FOLLOWING THE SPREADING OPERATION, THE TOPSICIL SURFACE SHALL BE LEFT REASONABLY SMOOTH AND WITHOUT RUTS AND BURFACE BORGUL ARRIVES THAT COULD CONTRIBUTE TO CONCENTRATED WATER FLOW

4. THE DRAWNING IN THIS PLAN SET ARE A REPRESENTATION OF THE PROPOSED. 4. THE ORAMINES IN THIS PLAN ST AREA REPRESENTATION OF THE FIRED WELL AND MAD ACCESS ROAD. AS THE REPORTS SUCH AS THE ROADWAYS CHLORITS, SEDIMENT BARRIERS, ETT. ARE STONE AT THEIR ROADWAYS CHLORITS, SEDIMENT BARRIERS, ETT. ARE STONE IN THEIR APPROXIMATE FREPLANDING CONFIGURATION, OFFEN UNCLUSED THE ASSETTING 
5. ALL ROADS SHOWN ARE EXISTING URLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE WYDEP OIL & GAS BUP MANUAL ALL CULVERTS SHOWN ARE PROPOSED AND WILL BE A MINIMUM OF 12" UNLESS THERWISE NOTED

IS THE FOLLOWING SPECIFICATION EXCERPTS ARE PROMINGES GEOTECHNICAL INVESTIGATION REPORT INCE PROJECT NO, WYTHIS DATED NOVIMBER 2017 FOR THE MAND YOUR SITE INCOMED WARRANG LODINTY WERE YIRROWN, A PROST TO CONSTRUCTION, THE CONTRACTION BINAL REFER TO THE MOST CURRENT GEOFGENIORAL MYSSEARCH ON FEDOR TO TO THE ADDRESS OF THE MOST CURRENT WERE PROJECT WAS TO READ AND REVIEW THE FULL TEXT OF THE REPORT, MYS REPORTANDES OF MUTURE IN THE MOST CURRENT WORD FROM THE FOR THE PROJECT WAS INVESTIGATION REPORT INSEPROJECT NO. W17183 DATED NOVEMBER 2017) THE MATERIAL'S OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST.

BOCK FILL SHOULD BE PLACED IN MAXIMUM MUNICH COMPACTED LIFTS ROCK FILL MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 24 INCHES OF HARD NAMES TOWN OF SHITSTONE BOOK EXCAVATED FROM CHISTE FACH LET OF BOCK FILL SHOULD BE THOROUGHLY COMPACTED USING A MINIMURAZE-TON APPLIED FORCE VIRRATORY SOLLER

7. BRUSH AND JOR TIMBER REMOVED BY CLEARING AND GRUSSING ACTIVITIES 7. BRUSH AND JORTHINEER REMOVED BY CLEARING AND GRUSSING ACTIVITIES WILLE CLI IV. DITCH LINES AND CLI-LYRIS WILL BE INSTALLED WHEREVER PRACTICAL HOWNING, PORTIONS OF THE EMSTING FROM SEED ROOS WHICH ARE LOCATED IN 2010 ROOK SHALL NOT RECURSE DITCHES OR ORDES DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

8. SUPPLEMENTAL DRAINAGE AND FOR SEDIMENT CONTROL MEASURES IN ADDITION TO THOSE SHOWN ON THE PLANS WILL BE INSTALLED WHEN AN WHERE DEEMED NECESSARY, THE ADDITIONAL MEASURES MAY CONSIST O COMPOST FLITER SOCK, SILT FENCES, OR OTHER MEASURES AS OUTLINED IN THE WVICH A GAS HMP MANUAL

9. ROCK CHECK DAMS ARE TO SE CONSTRUCTED DOWNSTREAM OF AL CULVERTS AND CROSS DRAIN INLETS AS REQUIRED BY THE WY OIL 4 GAS INF MANNIAL, FIELD CONDITIONS SUCH AS ROCK DUTCROPS AND BEDROCK PROPHEIT BY ET TRAPS ERON BEING BISTALLED, WHEN THESE COND EROSION CONTROL MEASURES SHALL BE EVALUATED AND

10, CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION OF THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION OF THIS PLAN.

11, ENTRANCES AT COUNTY / STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH D.O.T, REGULATIONS, SEPARATE PERMITS MAY BE REQUIRED BY THE WYDDI. A STABILIZED ENTRANCE CONSISTING OF 6" CRUSHED STONE WILL BE INSTALLED FOR A MINIMUM OF TO FROM THE INCRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH MY OIL & GAS BMP MARGIAL

12 TROSS DRAINS AND JOR WAYERSARS WILL BE INSTALLED AS AN INTEGRAL PAIRT OF THIS RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH THE AS-BUILT ROADWAY SLOPES AND TABLE IN-LOF THE WIVEROSION

13. ALL STRUCTURES SHOULD BE INSPECTED REQUILARLY AND REPAIRS OF ANY DAMAGE SHOULD BE COMPLETED AS PROMPTLY AS POSSIBLE.

1 SEPOSED PREPARATION

THE SEEDBED MUST BE LOOSE AT THE TIME OF SEEDING, APPLICATIONS OF SEED ON HARD GROUND WILL RESULT IN A POOR STAND OF VEGETATION. THE SOL SURFACE MUST BE LOOSENED TO A MINIMUM DEPTH OF 3 INCHES BY DIBKING ON THE CONTOUR, OR BY BULLDOZER TRACKING UP AND DOWN BY BUSIAND ON THE CONTOUR, OR BY BULLDOZER TRACKING UP AND DON THE SLOPE, BACKELADING IS ACCEPTABLE ON GENTLE SLOPES SACH AS THE BENCH OR ROAD BED. IF SEEDBLE PREPARATION IS NOT FEASIBLE. 50% MORE SEED SHALL BE ADDED TO THE RECOMMENDED RATES.

#### EROSION AND SEDIMENT CONTROL GENERAL NOTES

2. TEMPORARY SEEDING

WHERE EXPOSED SOIL SURFACES ARE NOT TO BE FINE CRAPED OF WORKED FOR PERIOD LONGER THAN 21 DAYS, TEMPORARY VEGETATIVE COVER WITH SECIMENT CONTROLS MUST BE ESTABLISHED, VEGETATION MUST BE ESTABLISHED ON BOAD BANK AND LOCATION SLOBES WHEN BED AMATION CANNOT BE COMPLETED WITHIN THE PRESCRIBED 6 MONTHS. APPLY SEED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATIONS ACCORDING TO THE RATE INDICATED IN THE TABLE BELOW, PERFORM ALL PLANTING OPERATIONS AT RIGHT ANGLES TO THE SLOPES.

TEMPORARY SEEDING FOR CRITICAL AREAS			
SEED	RATES IN LES, PER ACRE	RECOMMENDED DATE	
ANNUAL RYEGRASS	40	MAR 1 TO JUNE 15 AUG 15 TO SEPT 15	
FIELD BROWEGRASS	40	MAR 1 TO JUNE 15 AUG 15 TO SEPT 15	
EPRING DATS	18	MARCH 1 TO JUNE 15	
SUDANGRASS	-40	MAY 15 TO AUG 15	
WINTER RYE	168	AUG 15 TO OCT 15	
WINTER WHEAT	160	AUG 15 TO NOV 15	
JAPANESE MILLET	20	JUNE 15 TO AUG 15	
REDTOP	5	MARCH 1 TO JUNE 15	

MARCH 1 TO JUNE 15

NOTE: THESE RATES SHOULD BE INCREASED BY 55% IF PLANTED APRIL 15 AUGUST 1 AND OCTOBER 1 - MARCH 1

IN RIDIATIONS WHERE ANOTHER COVER IS DESIRED, CONTACT THE LOCA. SOIL CONSERVATION DISTRICT FOR SEEDING RECOMMENDATIONS. APPROVAL OF THE OIL AND GAS INSPECTOR IS NEEDED.

I. PERMANENT SEEDING

ANNUAL RYEGRASS

PLANTING OF PERMANENT VEGETATIVE COVER SHALL BE PERFORMED ON ALL DISTURBED AREAS WHERE NO FURTHER SOIL DISTURBANCE IS ANTIDIPATED OR NEEDED, PLANTING OF PERMANENT VEGETATIVE COVERS MUST BE PERFORMED ON ALL DISTURBED AREAS AFTER THE COMPLETION OF THE DRILLING PROCESS, ANY SHE THAT CONTAINS BIGNIFICANT AMOUNTS OF TORSON SHALL HAVE THE YOURGN DEMONED AND STOCKED ON WHEN FEASIBLE, LINE AND "ENTILIZER RATES SHALL BE APPLIED TO ALL PERVANENT SEEDING AT THE TIME OF SEEDING PREPARATION.

PERMANENT SECONOS FOR ALL DISTURBED AREAS

SEED	PER ACRE	SCU, DRAINAGE PREFERENCE	pH HANGE
CROWNVETCH/ TALL FESCUE	10 - 15	WELL - MOD. WELL	50-7.5
CROWNVETCH! PERENNIAL RYEGRASS	10-13	WELL - WORL MALL	5.15-1.3
FLATPEA OR PERENNIAL PEA / TALL FESCUE	20 15	Ser exe	5.0-7.5
LACINO CLOVERV SERECIA LESPEDEZAV TALL FESCUE	20 25 2	MELL - MOD. WELL	5.0-7.5
TALL FESCUE/ (ADINO CLOVER/ REDTOP	3 3	WELL - MOD, WELL	4,0-8.0
TALL FESCUE/ HEDTOP	28 3	WELL+MOD WELL	4.5-7.5
TALL FESCUE BIRDSFOOT TREFOIL REDTOP	40 10 3	WELL + MOD, WELL	5,0-7,5
SERICEA LESPEDEZA/ TALL FESCUE/ REDTOP	252	WELL-MOD, WELL	43-7,5
REDTOP/ TALL FERGUE/ CREEPING RED	30 80	WELL - MOD. WELL	5.0×7.5
TALL FEBRUE	50	WELL - PODRLY	43-7.5
PERENNIAL RYEGRASS/ TALL FESCUE/ LATHCO FLATPEA	10 15 29	WELL - POORLY	5.0-3.0

VIDITURES IN THE TABLE BELOW ARE MORE WILDLIFE AND FARM PRIENDLY

SEED	PER ACRE	SOIL CRAINAGE PREPERENCE	DIFFANGE
KY BLUEGRASS / REDTOP / LACING CLOVER OR BIRDSFOOT TRUFOR	20 2 2/10	WELL+MOD, WELL	£547.5
TIMOTHY / ALFALFA	ě.	MEUL-MOD, WELL	8.8 - 6.0
TIMOTHY ( BIROSPOOT TREPOL	5	WELL - PODRLY	5,5 - 7,5.8
DRCHARDGRASS / LAXNO CLOVER / REDTOP	10	WELL+MOD, WELL	60-7.5
ORCHARDGRASS / LADINO CLOVER	10 2	WELL - MOD, WELL	5.5 - 7.5
ORCHAROGRASS / PERENNAL RYEGRASS	20	WELL - MOD. WELL	5.5 - 7.5
CREEPING RED FESCUE!	36 10	WELL - MOD. WELL	55-7.5
ORCHARDGRASS OR KENTUCKY BLUEGRASS	20	WELL - MOD, WELL	807-3.5
BIRDSFOOT TREFOIL/ REDTOP/ ORCHARDGRABS	18 8 20	WELL + MOD, WELL	6.8 - 7.5
LATHCO FLAT PEA! PERENNIAL RYEGRASS	30 20	WELL - MOD, WELL	5.5 - 7.5
DRGHARDGRASS	30 20	WELL-MOD, WELL	5.5 - 7.5

NOTE: MOTURES LISTED IN BOLD ARE SUITABLE FOR USE IN SHADED WOODED SETTINGS THOSE INITALICS ARE SUITABLE FOR USE IN FLITER STRIPS. TLATHOU FLATPEA IS POTENTIALLY POISONOUS TO SOME LIVESTOCK.

ALL LEQUIMES SHOULD BE PLANTED WITH PROPER INDIGILATES PRIOR TO SEEDING. FOR LAPPERARED SEEDBERS OF SEEDINGS OUTSIDE THE OPTIMUM TIME ERAMES ADD 50% MORE SEED TO THE SPECIFIED RATE

DH OF SOL	LINE IN TONS PER ACRE	FERTILIZER, LBS/ACRE 10-20-20 OR COUNALENT	
ABOVE 6.0	2	900	
5.0 TO 5.0:	3	500	
9ELOW 5.0	4	500	

THE WAY CAN BE DESCRIBED WITH A POOTABLE WAS TESTING HT OF BY THE PICKS BE DETERMINED WITH A PORTABLE PRITED HIS ON ON BY SENDING THE SOIL SAMPLES TO A SOIL TESTING LABORATORY. WHEN 4 TONS OF LIME PER ACRE ARE APPLIED IT MUST BE INCORPORATED INTO THE SOIL BY DISKING, BACKELADING, OR TRACKING UP AND DOWN THE SLOPE

DESCRIPTION OF THE RELIGIOUS AND CHARGE AND REPORT OF THE PROPERTY OF THE PROP

MECHANICAL ANCHORING APPLY MULCH AND PULL A MULCH ANCHORING TOOL OVER THE MULCH. WHEN A DISK IS USED. SET THE DISK STRAIGHT AND PULL ACROSS THE SLOPE. MULCH MATERIAL SHOULD BE TURKEN INTO THE SOL ADDROVIDATE VINDER KINDER

MILECULARITHM FOLLOW MANUFACTURER'S RECOMMENDATIONS WHEN POSITIONING AND STAPLING THE MULCH NETTING TO THE SOIL SURFACE.

MULCH MATERIALS RATES AND USES

MATERIAL	PER ACRE	COVERAGE	REMARKS
WARTE FO YAH	2 TO 3 TONS		SUBJECT TO WIND TO BOS SLOWING OR WASHING UNLESS TIED DOWN
	100 TO 150 BALES	78% TO 90%	
WGGG FIBER		ALL DISTURBED AREAS	FOR HYDROSEEDING
PULP FIBER	1008 TO 1508 LGS		
WGGC-CELLULGSE	1000 10 1500 105		
RECIRCULATED PAPER			

C. CONSTRUCTION SEQUENCE

LAREAS THAT ARE NOT TO BE DISTURBED DURING CONSTRUCTION ARE TO BE CLEARLY MARKED BEFORE BEGINNING WORK ON THE SITE.

¿COMPOST FILTER SOCK, (SUPERI BILT PENCE, AND OTHER EROSKON AND SEDIMENT CONTROL GEVICES, AS REGURED BY THE EROSKON AND SEDIMEN CONTROL PLAN AND DICTATED BY FIELD CONDITIONS, ARE TO BE INSTALLED PRIOR TO CONDUCTING MAY CONSTRUCTION ACTIVITY ON THE SITE.

SCONSTRUCTION ACTIVITY WILL BEGIN WITH THE CLEANUNG AND GRUBBING OF THE ACCESS ROAD FROM THE SITE POINT OF ACCESS TO THE WELL PAD LOCATION.

4. THE REMAINING PROJECT AREA WILL THEN BE CLEARED AND GRUDBED FOLLOWING INSTALLATION OF ANY EROSION & SERMENT CONTROL DEVICES.

SHOUMAN'S CRINITALIZION MILL CRINISTS OF:
HEADY DEPOSIT AND THE ACCESS FOAD INCLIDING
HEADY CLIFFILL PRODUCES ON THE ACCESS FOAD INCLIDING
HISTALLATION OF TOE BENCH ACCESS FOAD INCLIDING
HISTALLATION OF TOE BENCH OF THE ACCESS FOAD INCLIDING
HISTALLATION OF TOE BENCH OF THE ACCESS FOAD INCLIDING
HISTAL HAS BENCH BE CONSTRUCTED IN ACCORDANCE WITH
HITH THE AMOST CURRENT OSTOCHORICAL WEST FOAT IN REPORT
FROM NOS. THIS INCLIDES BUT IS NOT LIMITED TO BUDGLINES ON
FILL AND BENCH ACCORDING ACTION OF THE ACCESS TO
HILL AND BENCH ACCORDING TO THE ACCESS TO
HILL AND BENCH ACCORDING TO THE ACCESS TO
HILL AND BENCH ACCESS TO THE ACCESS TO THE ACCESS TO
HILL AND BENCH ACCESS TO THE ACCESS TO THE ACCESS TO
HILL AND BENCH ACCESS TO THE ACCESS TO THE ACCESS TO THE ACCESS TO
HILL AND BENCH ACCESS TO THE 
WIG COMPACTION
COUNTRICT SHEFTY BERMS ALONG ACCESS ROAD AS NEEDED
HISTAL, BRIMM PAPICNET, CLLWETT HI, AND DODGSIEDE DTICHET
LISTAL, BRIMM PAPICNET, CLLWETT HI, AND DODGSIEDE DTICHET
LISTAL, BRIMM PAPICNET, CLLWETT HE, AND ROADSIEDE DTICHET
HISTAL, BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS HE &
HISTALL, BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
HISTALL, BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND ROADSIED DTICHETS
AND HISTALL BRIMM PAPICNET, CLLWETT HE, AND HE AND H

E-WELF PAD GONST RUCTION VIVL CONSIST OF-PREMORE DRINGEN, BY ENGER IN STOCKPILE HEGIN CUTFILL PROCESS ON THE PAD LOCATION INCLUDING INSTALL COLLECTION OTTOM IS 82 ANSTALL COLLECTION OTT

RIPRAP CHANNELS
HISTAL WELL PAD SUMPS AND ASSOCIATED PIPING
HINAL GRADING WILL THEN BE DOMPILETED, GRAVIEL WILL BE PLACED
ON THE ACCESS ROAD AND WELL PAD AND BARE SOIL AREAS WILL BE
TERTILIZED AND PERIAMENTLY SEEDED AND MULCHED.

7. TEMPORARY EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL A UMFORM TO PERCENT VEGETATIVE COVER IS ESTABLISHED.



D. TEMPORARY CONTROL MEASURES AND FACILITIES

GENERAL - SEE PLANS AND DETAILS FOR PROPOSED LOCATIONS AND CONSTRUCTION BETAILS FOR BMP's.

2. STONE CONSTRUCTION ENTRANCE - SHALL BE INSTALLED WHEREVER CONSTRUCTION TRAFFIC ENTERS AND LEAVES A SITE, LARGE QUANTITIES OF MUD CAN BE TRACKED ONTO PUBLIC AND PRIVATE ROADS CAUSING DANGEROUS DRIVING CONDITIONS AND MUDDY RUNOFF WHEN IT RAINS. CONSTRUCTION ENTRANCES ARE STABILIZED TO REDUCE THE AMOUNT OF REPAIRED TRANSPORTED ONTO PAVED BOADS BY VEHICLES OR EQUIPMENT BY CONSTRUCTING A STABILIZED PAG OF STONE AT ENTRANCES TO CONSTRUCTION SITES

1. COMPOST FILTER SOCK - SHALL BE PLACED ALONG THE SLOPES OF THE DISTURBED AREAS AS SHOWN ON THE ERCOION AND SEDIMENT CONTROL PLAN AND IN ACCORDANCE WITH THE EROSION AND SECRET CONTROL PLAN DETAILS

A BOCK CHECK DAM, SHALL TEMPORARY DAMS MAY BE CONSTRUCTED. ACROSS A WATERWAY AS NECESSARY TO REDUCE THE VELOCITY OF STORMWATER FLOWS, THEREBY REDUCING EROSION OF THE CHANNEL AND TRADBING SERVIENT

F. MAINTENANCE OF TEMPORARY CONTROL MEASURES AND FACILITIES

A THE MAINTENANCE FOR THE PROJECT SHALL BE IN AUCORDANCE WITH THE APPROVED ERCSION AND SEDIMENT CONTROL PLAN. THE CONTRACTOR SHALL BE DESPRISHED FROM THE CONTINUOUS MAINTENANCE OF ALL EASIMEASURES AND DEVICES FOR THE DURATION F. MAINTENANCE / CONTRACTOR'S RESPONSIBILITIES OF THE PROJECT AND UNTIL THE AREA IS STABILIZED WITH A MINIMUM UNIFORM 70% PERENMAL VEGETATIVE COVER.

B. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SECIMENT CONTROLS AT LEAST ONCE EVERY SEVEN CAL ENDAR DAYS AND HIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT GREATER THAN ONE HALF IS SUBJOH PER TWENTY-FOLD (24) HOUR PERIOD, ANY CEVICE. EQUAD TO BE DICCORD DAMAGED HALE-BUILDESS TOR NOT BUILD OPERATIONAL SHALL BE CLEANED OF ALL GEBRIS, THE SOLID WASTE DISPOSAL IS THE RESPONSIBILITY OF THE CONTRACTOR ALL DEPOSITED SEDIMENT FROM THE TRAP SHALL BE REMOVED AND SPREAD ACCORDINGLY

2. STONE CONSTRUCTION ENTRANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PURILIC RIGHTS-OF-WAY, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND / DR CLEAN OUT OF MAY MEASURES USED TO TRANSPORMENT. ALL MENT SPILLED, DRÖPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

B WHERE'S ON ALL VEHICLES SHALL BE DI PANED TO REMOVE BECIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WA 45 WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STARB IZED WITH BTONE AND WHICH DRAINS INTO APPROVED BEDIMENT TRANS DEVICE, IF THE STREET IS WASHED PRECAUTIONS MUST BE TAKEN TO PREVENT MUCCY WATER EROW BY INVINCE INTO WATERWAYS OR

D. INSPECTION AND MEEDED MAINTENANCE SHOULD BE RECIVIDED. DAILY BUT AT A MINIMUM EVERY SEVEN DAYS AND AFTER EACH BAINFALL EVENT OF 0.5 INCHES DR GREATER.

3. COMPOST FILTER BOCK

A INSPECT COMPOST FILTER SOCK AT LEAST ONCE A WEEK AND AFTER CH RAINFALL EVENT OF 0.5 INCHES OR GREATER. MAKE ALL REQUIRED REPAIRS MAKEDIATELY.

B. ACCUMULATED SEDIMENTS SHALL BE REMOVED AS REQUIRED TO KEEP THE SOCK PUNCTIONAL IN ALL CASES REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/2 THE ABOVE + GROUND HEIGHT OF THE SOCK

C. SEDMENT COLLECTED FROM THE EROSION CONTROL STRUCTURES SHALL DE PLACED UPSTREAM OF THOSE CONTROLS AND IMMEDIATELY STABILIZED WITH SEED AND AN ANCHORED MULICH OR HAULED OFFSITE TO A DISPOSAL AREA WITH AN APPROVED EROSION AND SEDIMENT

D. ADHERE TO MANUFACTURER'S RECOMMENDATIONS FOR REPLACING COMPOST FILTER SOCK DUE TO WEATHERING.

E. ANY BOOK SECTION THAT HAS COLLAPSED OR EXPERIENCED A FAILURE QUE TO CONCENTRATED SURFACE FLOW SHALL BE IMMEDIATELY REPLACED WITH A NEW SECTION OF COMPOST FILTER. SOCK OF THE SAME DIAMETER FOR THE LENGTH OF COLLAPSED AREAS.

II. AFTER THE CONTRIBUTING DRAMAGE AREA HAS BEEN PERMANENTLY. STAREIZED, REMOVE ALL SOCK MAYERIALS AND LASTABLE REDIVENT DEPOSITS, BAING THE DISTURBED AREA TO GRADE AND STARGED.

4. ROCK CHECK DAME

ALINSPECT EACH CHECK DAMIGNOE EVERY WEEK AND AFTER ANY RAINFAUL EVENT OF 0.5 INCHES OR GREATER

B. REPLACE STONE AND REPAIR DAMS AS NECESSARY TO MAINTAIN

C. REMOVE SEDIMENT ACCUMULATIONS FROM BEHIND THE CHECK DAMS WHEN IT HAS ACCUMULATED TO DIVE HALE OF THE DESCRIPTION HEIGHT OF THE DAM. SEDIMENT CON ECTED FROM THE EROSIO AND SEDIMENT CONTROLS AND IMMEDIATELY STABILIZED WITH SEED. AND AN ANCHORED MUICH OR HAVE ED CEESTE TO A DISPOSAL AREA WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.

A SHIT SENDER BUALL BE INSPECTED IMMEDIATELY AFTER HACK AS BETTERMED BRANCH BY THE FACTOR OF THE FAC HIMEDIATE: Y

U. CLOSE ATTENTION SHALL DE PAID TO THE REPAIR OF DAMAGED SILTENCE RESULTING FROM END RUNS AND UNDERCUTTING, IF THE FENCE IS NOT INSTALLED PERPENDICULAR TO THE FLOW OF THE WATER, THESE CONDITIONS WILL DOD UR.

C, SHOULD THE PARKIC ON A SILT PENCE DECOMPOSE OR SECONE. INEFFECTIVE, THE PARKIC SHALL BE PROMPTLY REPLACED.

D. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH ROWMATELY ONE-HALF THE PERSHT OF THE BARRIER.

I CONTRACTOR SHALL ME EVENT THE EROSION AND SEDIMENT CONTRAL

2. ALL FACILITIES SHALL BE INSPECTED AND REPAIRED OF NECESSARY) AT LEAST CHICK EVERY SEVEN CALENCAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVEN GREATER THAN ONE HALF (0.5) INCH PER TWENTY-FOUR (24) HOUR PERIOD, ALL PREVENTATIVE VARYEMANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING. RESEEDING REMULCHING AND ANCHORING OF THE MULCH SHALL BE PERFORMED IMMEDIATELY, SEDIMENT COLLECTED FROM THE BROSION CONTROL STRUCTURES SHALL BE PLACED UPSTREAM OF THOSE CONTROL SAND IMMEDIATELY STABLIZED WITH SEED AND AN ANCHORED MULCH OR HALLED OFFSITE TO A DISPOSAL AREA WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN

THE SITE AND ENTER WATERS OF THE STATE WITHOUT FIRST PASSING THROUGH A SEDIMENT FILTERING DEVICE IF ERCSION CONTROL MODIFICATIONS OF THOSE FACILITIES INSTALLED WILL BE RECURRED.

4. ALL DERMANENTI VICEDED ADEAS THAT RECOME EDDOED SHALL HAVE THE TOPSOIL REPLACED. THE BHOSKIN CONTROL MATTING REPLACED (IF APPLICABLE), SEED AND WULCH REAPPLIED. IND ANCHORED. IF EROSION PERSISTS, THE AREA SHALL BE EITHER LINED WITH SCO OR STABILIZED AS APPROPRIATE

5. A COPY OF THE APPROVED BROSIGN AND SEDIMENT CONTROL PLAN SHALL BE KEPT AVAILABLE FOR INSPECTION ON THE CONSTRUCTION SITE AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.

6. THE INTENT OF THIS PLAN / NARRATIVE IS TO INDICATE GENERAL MEANS OF COMPLIANCE WITH THE REQUIREMENTS OF THE RULES AND REGULATION OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION IAS AUTHORIZED UNDER THE CLEAN STREAMS LAW! IT SHALL BE THE RESPONSIBLITY OF THE CONTRACTOR TO IMPLEMENT THESE METHODS, PLUS ADDITIONAL METHODS, AS MAY BE NECESSARY BLICAUSE OF CONDITIONS CREATED BY LOCALIZED SITE CONDITIONS AND / OR CONSTRUCTION PROCEDURES IN ORDER TO ASSURE COMPLIANCE WITH ADDITIONAL FLAW. IT WILL FURTHER BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAIN ALL EROSION AND SEDIMENT CONTROL FACILITIES SO THAT THEY PERFORM AS REQUIRED BY APPLICABLE LAW.

A DESIGN AND BET A FUN COURSE PERMETHER PERMETHER CONTRACTORS. FAILING TO PROVIDE ADEQUATE PROTECTION AGAINST SOIL EROSION AND FOR ANY VICLATIONS OF THE CLEAN STREAMS LAW AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER SHALL GE BORNE BY THE CONTRACTOR.

G. RECYCLING AND DISPOSAL METHODS

1. REMOVE WASTE MATERIALS INCLUDING TRASH AND DEBRIS AND LEGALLY DISPOSE OF THEM OFF THE SITE TO A WYDEP APPROVED DUMP SITE. SEPARATE RECYCLASIS MATERIALS PRODUCED DUBBAC SITE CLEARING FROM OTHER NUMBER CYCLASIS MATERIALS, STORE OR STOCKPLE WITHOUT INTERVISING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING EACH THIS, MATERIAL TO BE REMOVED SHALL BE REMOVED AS NEEDED AND SHALL NOT BE ALLOWED TO ACCUMULATE AT THE SITE.

H. CEMETERY ACCESS

REASONABLE ACCESS SHALL BE PROVIDED TO PERSONS WISHING TO ACCESS THE EXISTING CEMETERY ADJACENT TO THE WELL PAD IN ACCORDANCE WITH WAY CODE 37-136-1

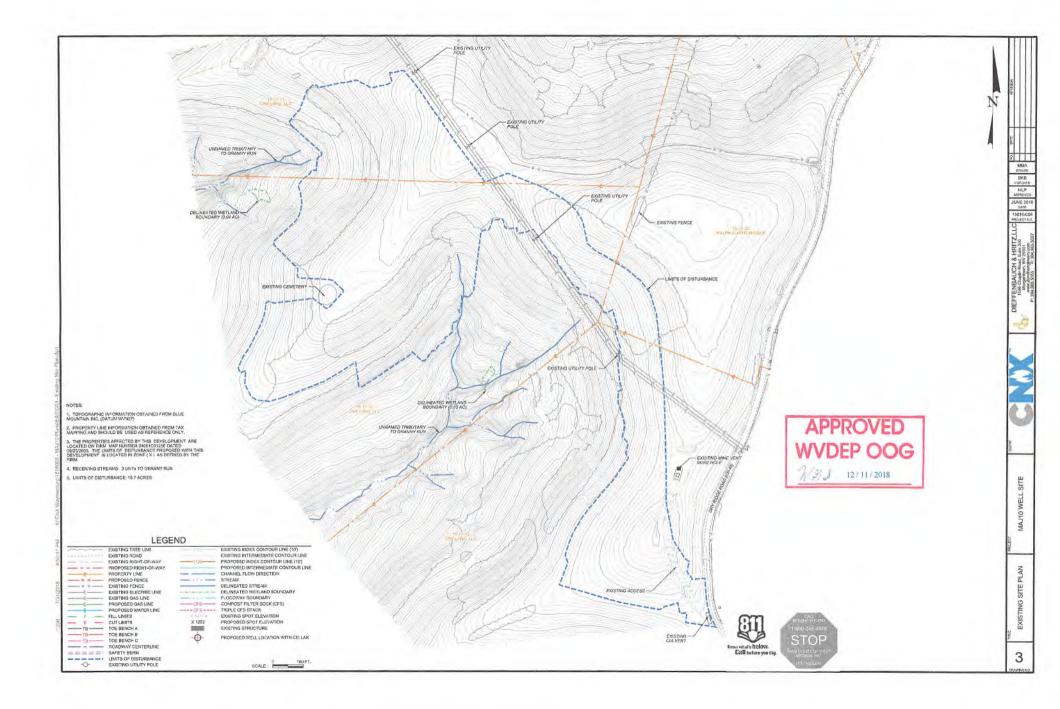
BKB HLP JUNE 2011

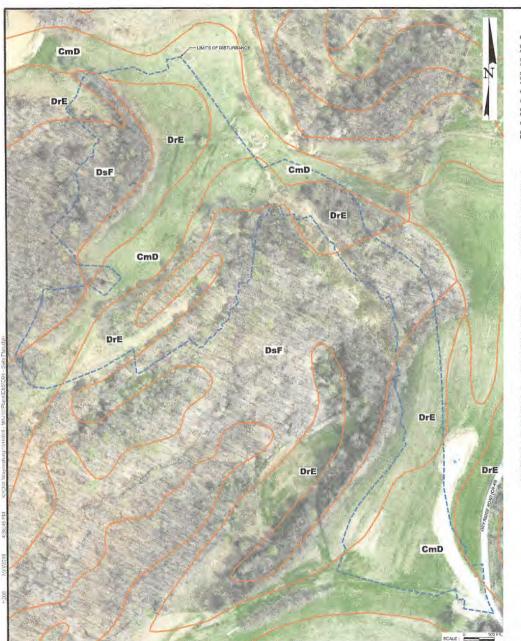


10

BRAL

2





#### SOIL RESOLUTION METHODS

IF THESE RESTRICTIONS ARE ENCOUNTERED, THE FOLLOWING RESOLUTIONS WILL BE FOLLOWED. ERRORIUS: USE ACCEPTABLE SPOSION CONTROL BLASKETS AND ATTAIN 70% VEGETATIVE COVER ON ALL CUT AND FULL SLOPES.

CUTSAAKS CAVE: FOLLOW OGHA RECOMMENDED GUIDELINES CONCERNING TRENCHING AND SLOPE WORK.

CORROSIVE TO CONCRETE AND STEEL: IF CONCRETE OR STEEL IS TO COME IN CONTACT WITH A CORROSIVE SOIL, If WILL BE TREATED AND PROTECTED OR THE CORROSIVE SOIL WILL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL.

HIGH WATER TABLE: ALL WATER ENCOUNTERED SHALL BE TREATED USING ACCEPTABLE 669 BMP'S, LOW STRENGTH: CUT AND FILL SLOPES SHALL BE SLOPED NO STEEPER THAN 2-1.

PIPING: SOLS PRONE TO PIPING OR INTERNAL EROSION PROBLEMS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL.

POOR TOPSOIL: FOLLOW FERTILIZER, LIME, AND SEED APPLICATION RATES AS NOTED ON THE PLAN.
POTENTIALLY HYDRIC; IF HYDRIC SOILS ARE ENCOUNTERED, A WETLANDS STUDY WILL BE
PERFORMED ON WETLANDS WILL BE AVOIDED.

CmD - CULLEGKA-DORMONT COMPLEX

THE CALL SECTION OF THE SECTION OF T

THE DOMMONT COMPONENT SLOPES ARE 10 TO 20 PERCENT. THIS COMPONENT IS ON HALLEL OPES ON HALLS.

THE DOMMONT COMPONENT SLOPES ARE 10 TO 20 PERCENT. THIS COMPONENT IS ON HALLEL OPES ON HALLE.

THE DOMESTIME AND THE COMPONENT STATEMENT OF THE PROPERTY OF THE

#### D/E - DORMONT-CULLECKA COMPLEX

THE CILLEGIA COMPONENT SLOPES ARE 25 TO 35 PENCENT. THIS COMPONENT IS ON COMPLEX HILLSLOPES ON HALL, THE PARENT MATERIAL, CONSISTS OF PROJECT HOS COMPONENT IS ON COMPLEX HILLSLOPES ON HALL AND THIS CALL THE PROME SHALE AND THIS CALL THE PROME SHALE AND THIS CALL THE PROME SHALE AND THE CALL THE PROME SHALE WAS SHALE WATER TO A DEFTH OF 00 HOUSES HOUSED HAVE AND THE PROME THE PROME THE PROME SHALE WATER TO A DEFTH OF 00 HOUSES HOUSED HAVE AND THE PROME SHALE OF THE

THE COMMON FOR THE SOL DUE NOT IMPER THANK, CHIEFRON,

THE COMMON FOR THE COMPONENT ELOPES ARE 25 TO 35 FERCENT, THIS COMPONENT IS ON COMPLEX HELISLOPES

ON HALE, THE PARENT MARTERIAL, CONSISTS OF MOMENT RESPONDENT HER THAN SHALE AND

THE PARENT MARTERIAL, CONSISTS OF MOMENT RESPONDENT HER FOR MARTERIAL PROPERTY HEROPES ARE THE MOST RESISTANCE HE LAVERAGE

MARTERIAL PROPERTY HEROPEST AND ARE THE MOST RESISTANCE DEPTH IS HIGH.

MODERN'TELY LOW. AND LABLE WATER TO A DEPTH OF SO EXCESS OR RESTRICTED DEPTH, IS HIGH.

MODERN'TELY LOW. AND LABLE WATER TO A DEPTH OF SO EXCESS OR RESTRICTED DEPTH, IS HIGH.

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE TO AND CAPABLITY

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE SURFACE HORIZON IS ABOUT A PERCENT, NORTHER CASE DAMAGE AREA. ORDINANO MATTER

CONTENT BY THE CONTENT BY THE CASE OF THE CONTENT BY THE CASE OF THE CONTENT BY THE CASE OF THE CASE OF THE CASE OF THE CASE OF THE CAS

#### DIF - DORMONT-CULLEOKA COMPLEX

THE DOMMON! VERY STON' COMPONENT SLOPES ARE IS TO TO PERSENT. THE COMPONENT BION TO PERSON COMPONENT BION COMPO

LOW-MAIL TRANSPERCIATION OF A THIS GOLD CORE NOT USE THINGS CHIEFINA.

THE CULLEON, LEVER Y TONY COMPANENT SLOPES ARE 38 TO A PRIBER THINGS COMPONENT IS ON COMPONENT IN THE PARKENT MATERIAL CONSISTS OF HONACOR RESOLUTION WEATH-REED COMPONENT IN THE PARKENT MATERIAL CONSISTS OF HONACOR RESOLUTION OF THE PARKENT OF THE SOLUTION OF THE SOLUTION OF THE SOLUTION OF THE PARKENT OF THE SOLUTION OF THE SOLUTION OF THE PARKENT OF CONTROLLING OF THE SOLUTION OF THE PARKENT OF CONTROLLING OF THE PARKENT OF CONTROLLING OF THE SOLUTION OF THE PARKENT OF CONTROLLING OF THE PARKENT OF CONTROLLING OF THE PARKENT OF CONTROLLING OF THE PARKENT OF THE PA

APPROVED WVDEP OOG

1/2/1 12/11/2018

LEGEND

---- UMITS OF DISTURBANCE





MMA SRAW BKG URECO HUS ARRO JUNE 2 BATI

HLP A2490VE0 JUNE 2018 BATE 15018-008

UCH & HRITZ,LLC plin Road, Suito 200 stewn, WV 25501 others programment

Mongarian Mongarian Mangarian Mangarian Mangarian Pr 304.505.5555



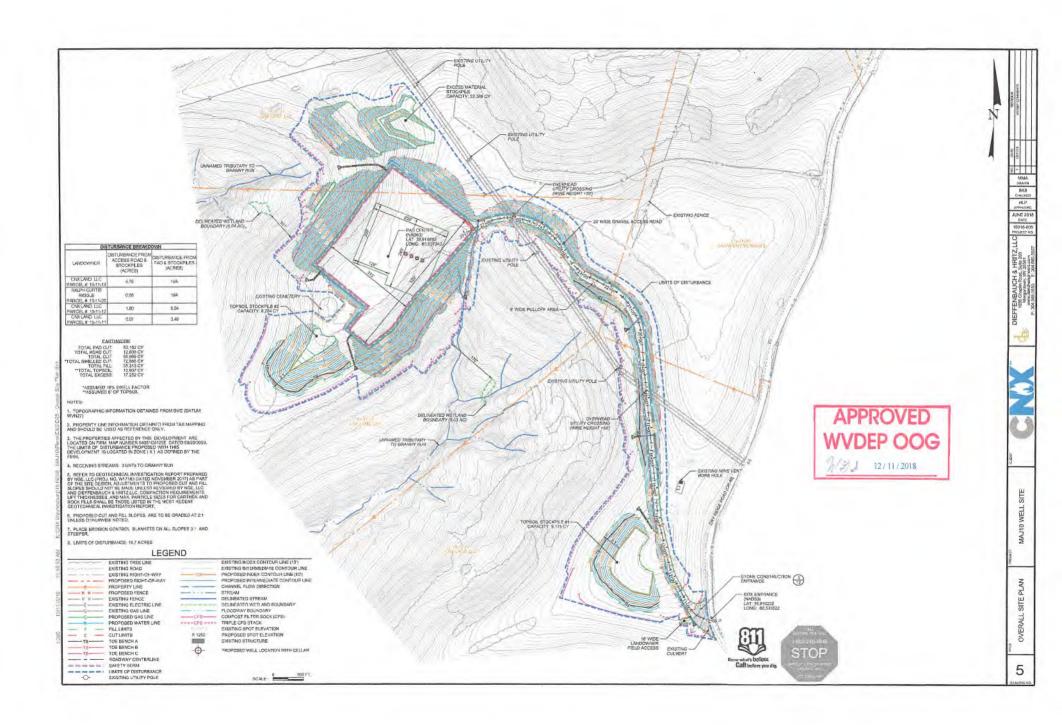


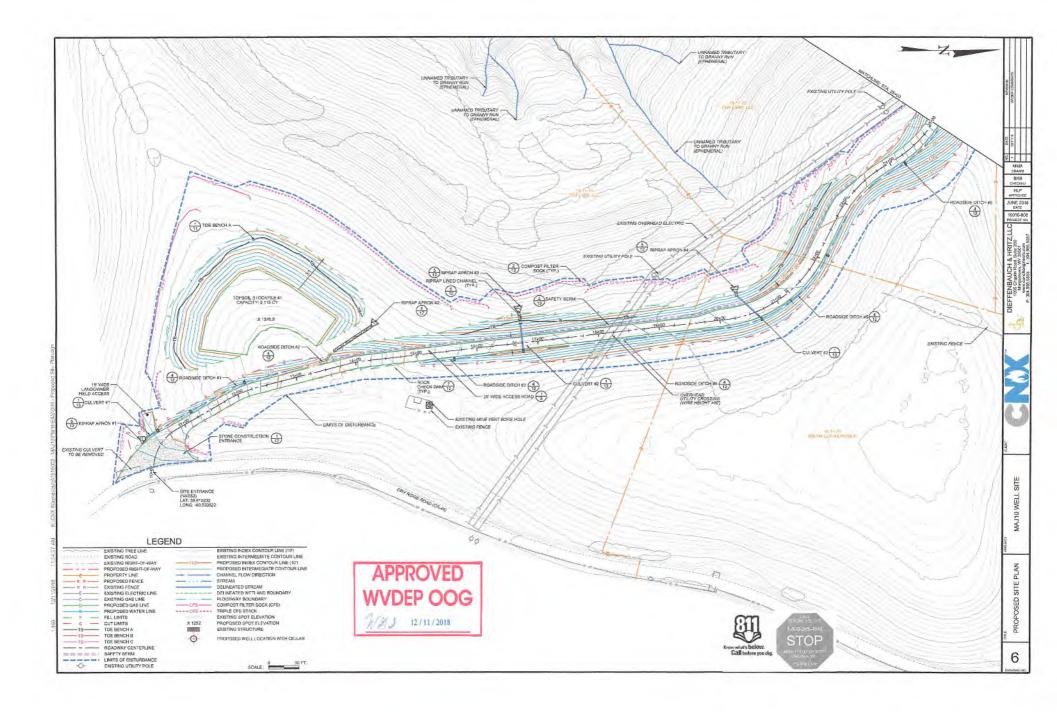
cuest

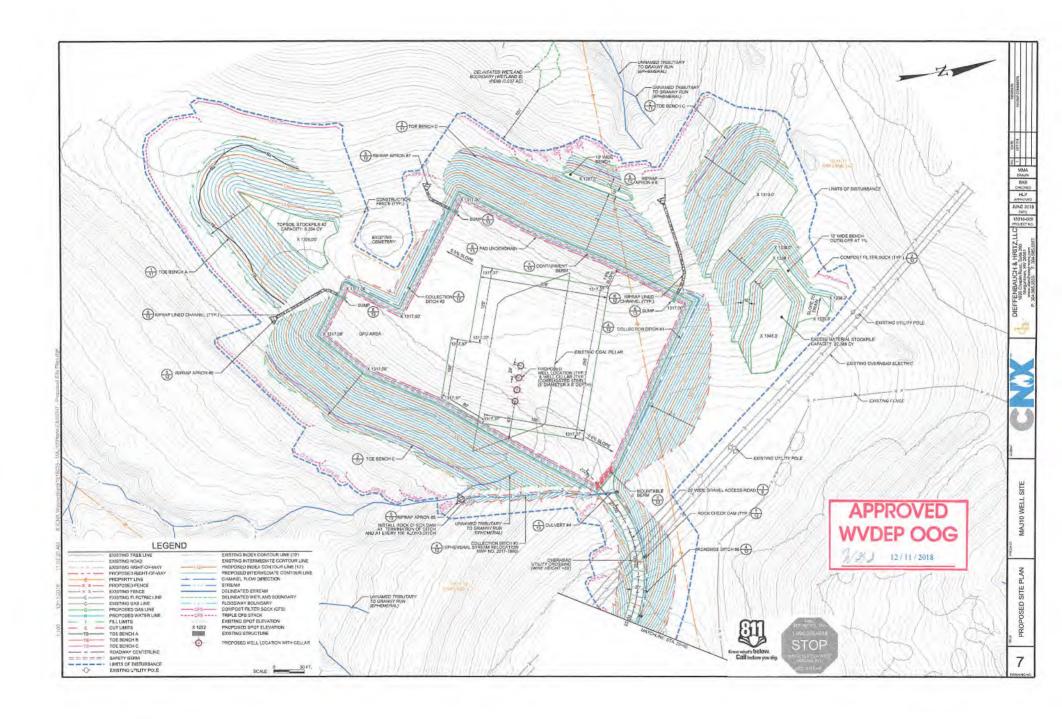
MAJ10 WELL SITE

SOILS PLAN

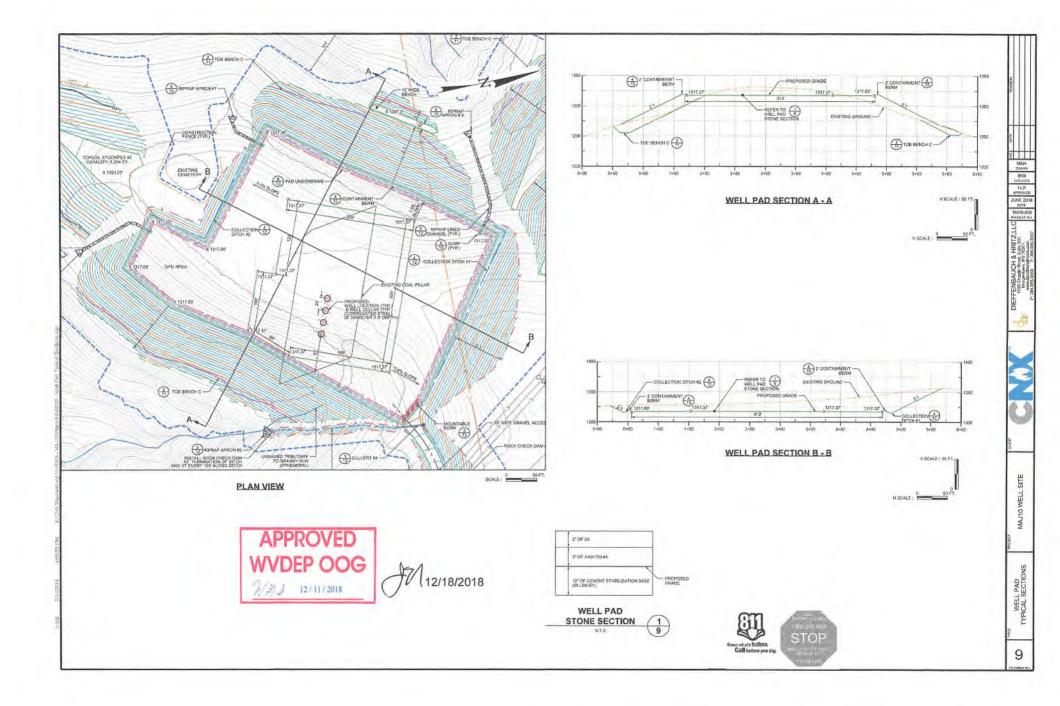
4

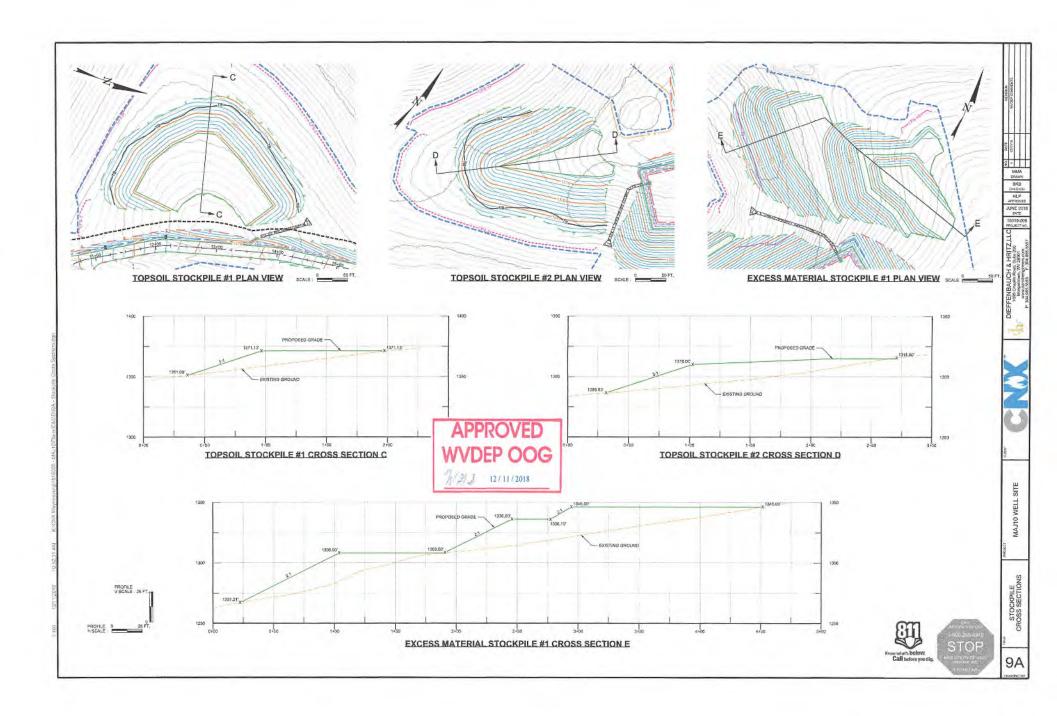


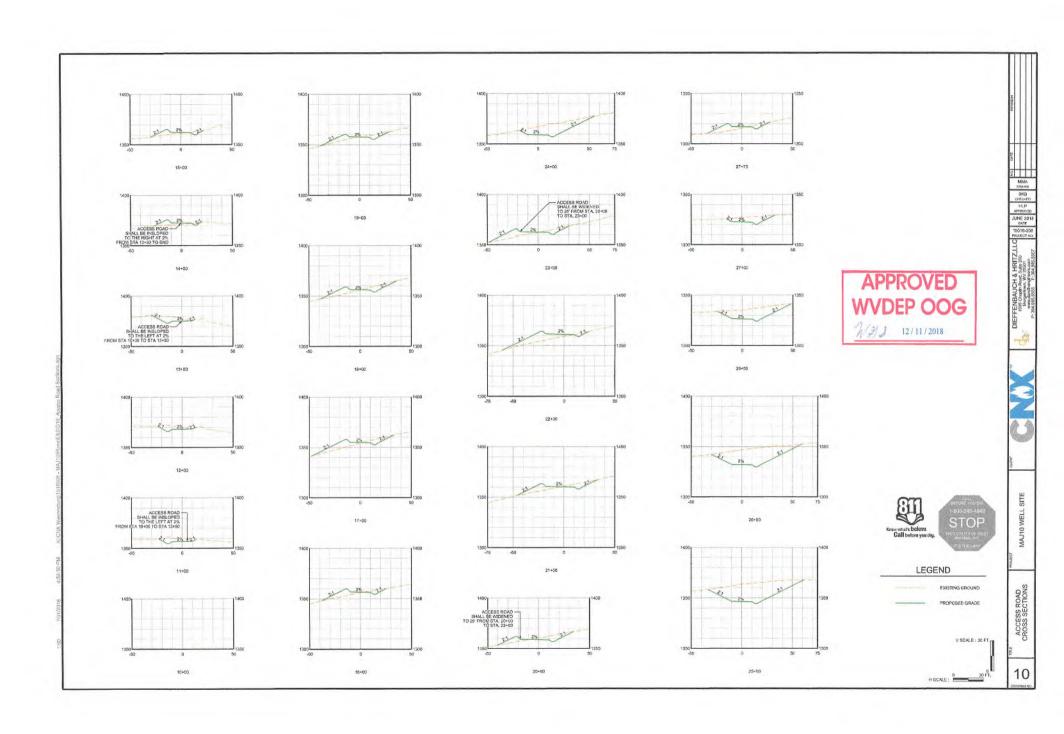


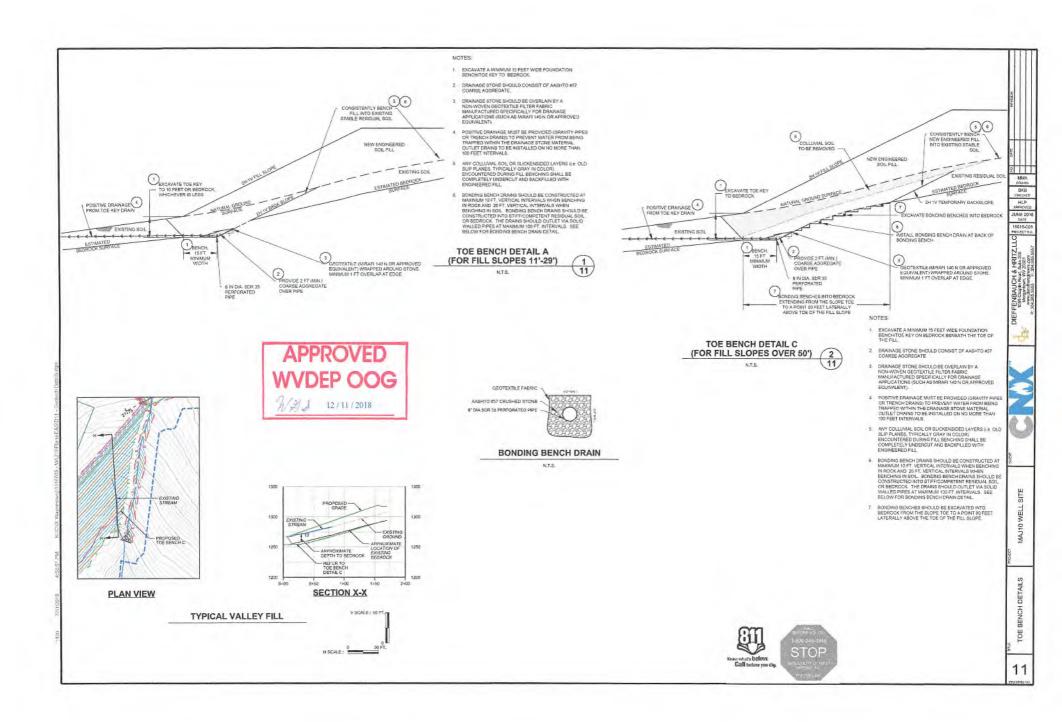


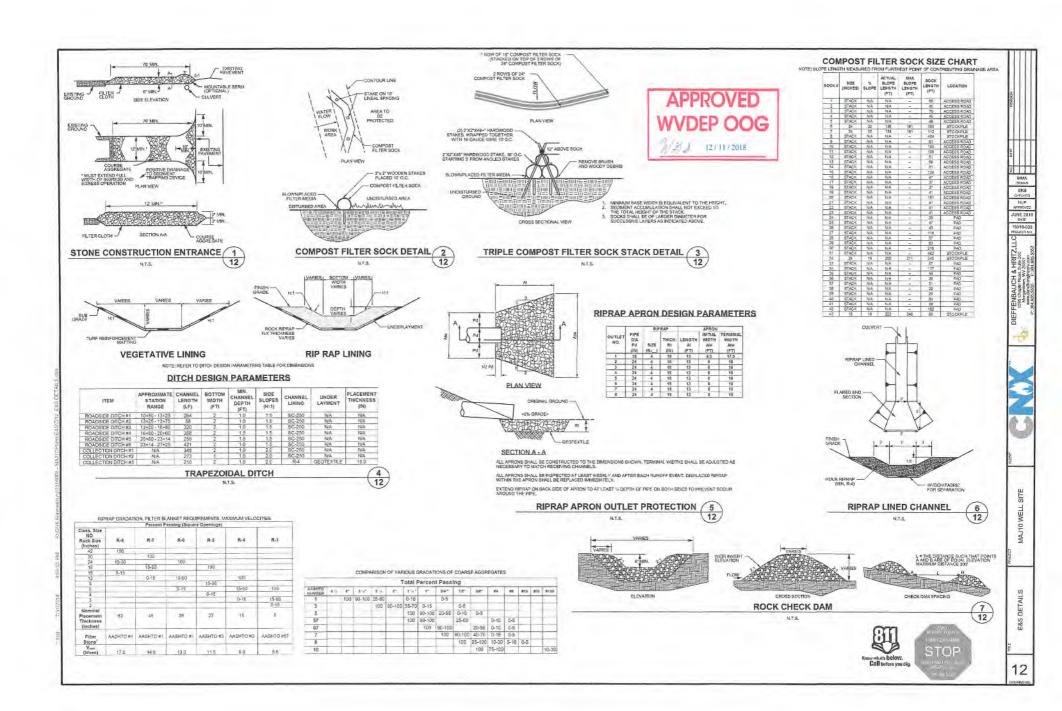


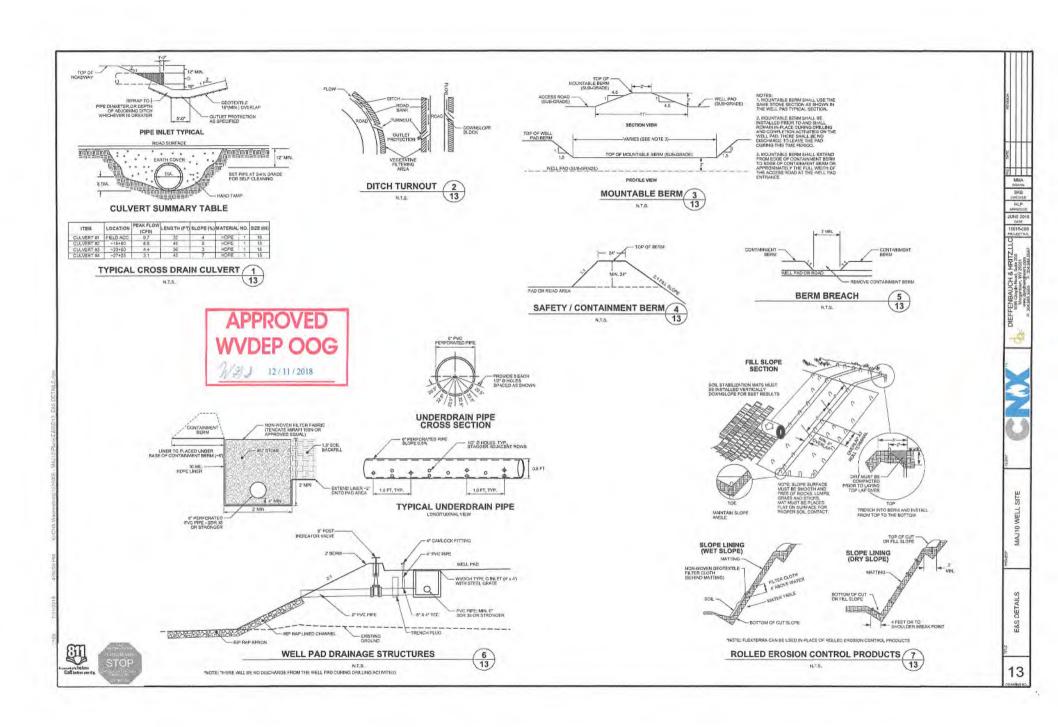


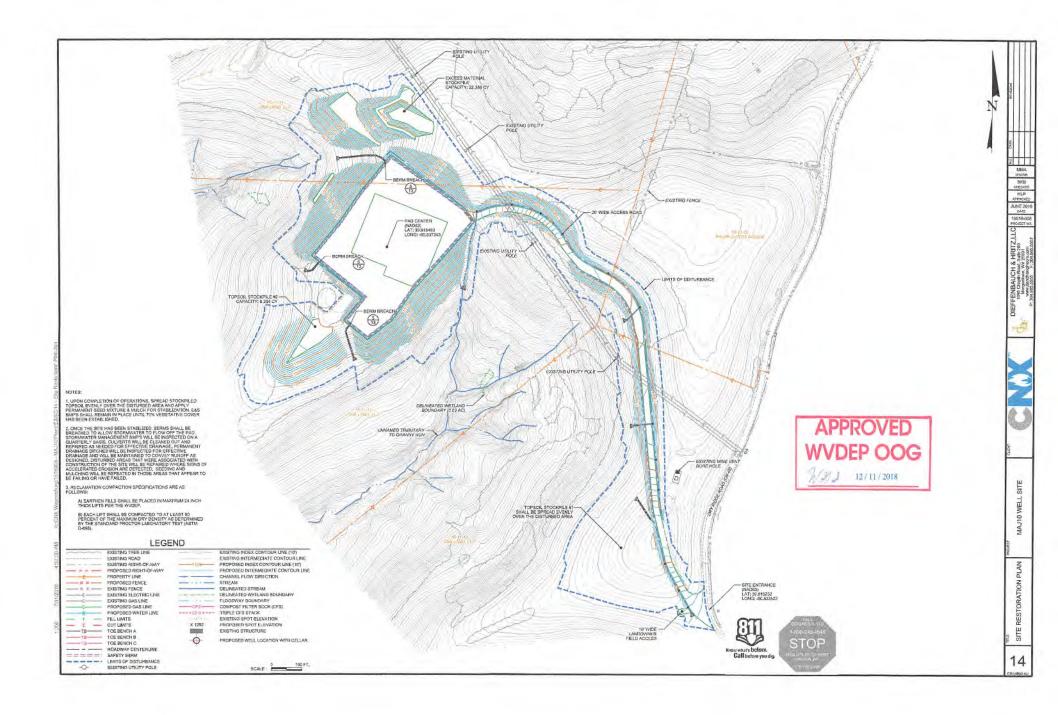


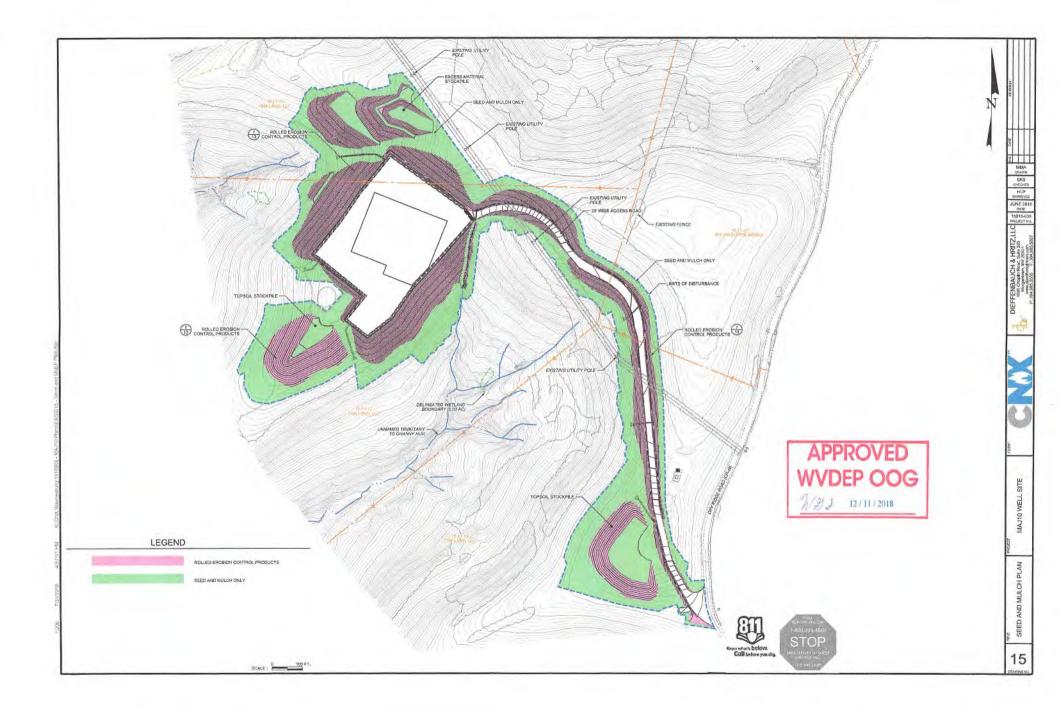














7.08 12.62 3,561 7,648 12,806 53,162 15,907
7.08 12.62 3,561 7,648 12,806 53,162
3,561 7,648 12,806 53,162
3,561 7,648 12,806 53,162
3,561 7,648 12,806 53,162
7,648 12,806 53,162
7,648 12,806 53,162
12,806 53,162
53,162
53,162
15.907
2,538
51,532
2,428
3,383
3,597
238
8,633
1,879
247
1,640
3,171
814
3,972
3
3
33
166
509
1,018
4,580
884
1,327
15,919
15.50
42,237
151
151
1,759
1