

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 MAJ10CHSU

47-051-02065-00-00

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: MAJ10CHSU

Farm Name: CNX LAND, LLC

U.S. WELL NUMBER: 47-051-02065-00-00

Horizontal 6A New Drill Date Issued: 12/19/2018

API Number: 51-02045018

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: 51-022012518

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, cessation of drilling, 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 #47-051-02065

COMPANY: CNX Gas Company, LLC

FARM:

MAJ10CHSU

COUNTY:

Marshall

DISTRICT: Webster

QUAD: 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
- 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; 47-051-02070; 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.

4	7	0	5	1	0	21/2/1/2018	3
API NO.	47					2 0 0 3	

OPERATOR WELL NO. MAJ10CHSU
Well Pad Name: MAJ10HSU

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

1) Well Operator: CN	X Gas Company, LL	.C 494458046	Marshall	Webster Majorsville
		Operator ID	County	District Quadrangle
2) Operator's Well Nur	mber: MAJ10CHSU	Well P	ad Name: MA	J10HSU
3) Farm Name/Surface	Owner: Majorsville	Public R	oad Access: Lo	one Oak Road
4) Elevation, current gr	ound: 1323+/-	Elevation, propose	d post-construc	tion: 1317.84
5) Well Type (a) Gas Other	S X Oil	Un	derground Stor	age
(b)If G	as Shallow	Deep	X	
	Horizontal X			O Jakalia
6) Existing Pad: Yes or	No no		_	JN 9/12/18
7) Proposed Target For				Pressure(s):
Point Pleasant, 11,89	00' TVDGL, 78', 10,757p	si (0.9 psi/ft. pressure	gradient)	
8) Proposed Total Vert	ical Depth: 11,890'			
9) Formation at Total V	Vertical Depth: Point	Pleasant		
10) Proposed Total Me	asured Depth: 20,59	5		
11) Proposed Horizonta	al Leg Length: 8,054			
12) Approximate Fresh	Water Strata Depths:	378'		
13) Method to Determin	ne Fresh Water Depths	2,500' radius sea	arch	
14) Approximate Saltw	ater Depths: N/A			
15) Approximate Coal	Seam Depths: 779' (P	Pittsburgh)		
16) Approximate Depth	to Possible Void (coa	l mine, karst, other):	778'	
17) Does Proposed wel directly overlying or ad			N	0
(a) If Yes, provide Mi	ne Info: Name: B	ailey Mine		
	Depth: 7	79'		
	Seam: P	ittsburgh	Offic	RECEIVE
	Owner: C	onsol	- VIIIC	e of Oil and Gas

NOV 28 REC'D

Environn engo ProPage/Lofi3

WW-6B (04/15) API NO. 47-___ OPERATOR WELL NO. MAJ10CHSU
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	20595	20545	2763/TOC@5,000'
Tubing							
Liners	9.625	N	P-110HP	43.5	10723	10673	1653/TOC@5,000°

JN 9/12/18

TYPE	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	А	1.18
Production	5.5	8.5	0.415	19040	9000	А	1.56
Tubing			- No.				
Liners	9.625	12.25	0.435	9900	6700	Α	2.28

PACKERS

Kind:	NONE	
Sizes:		
Depths Set:		Office of Oil areas

NOV 28 REC'D

WV Department of Environmental Attraction Page 2 of 3

WW-6B (10/14) 470 5 1 0 2 12/21/2018

OPERATOR WELL NO. MAJ10CHSU
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.

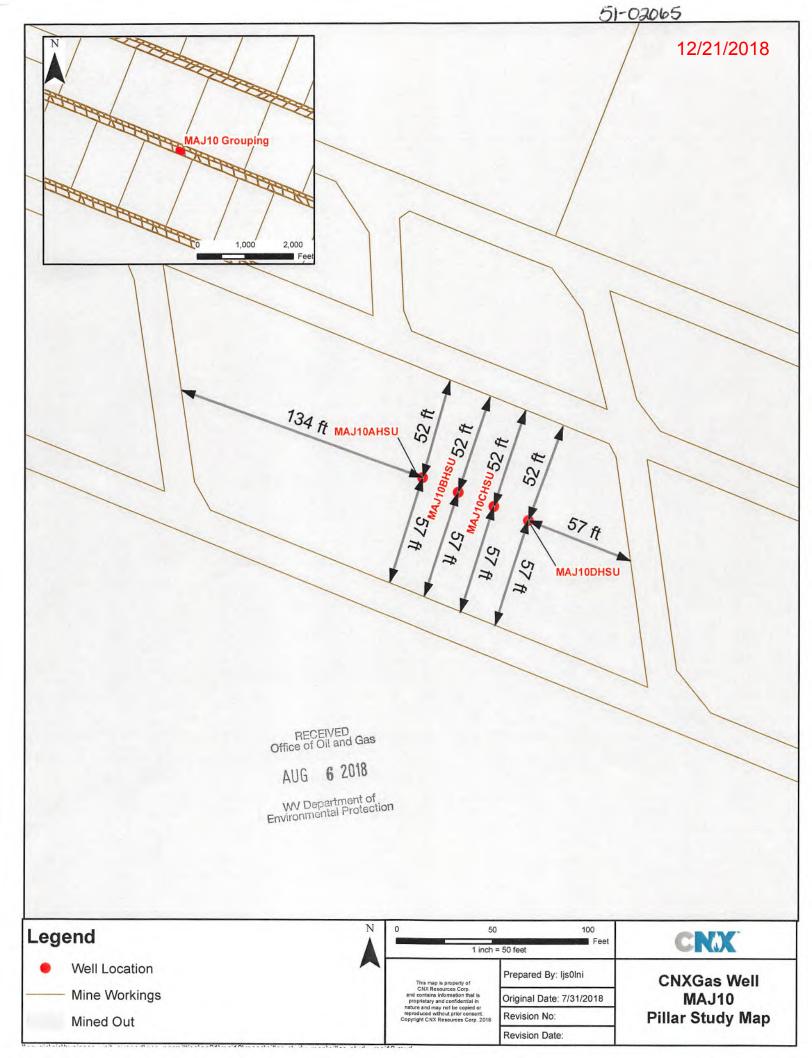
25) Proposed borehole conditioning procedures:

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.

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WV Deparment

*Note: Attach additional sheets as needed.



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WW-9 (4/16) AUG 6 2018

WV Department of Environmental Protection API Number 47 - 51 - 02065 Operator's Well No. MAJ10A,B,C,DHSU

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 Qu	adrangle Majorsville
Do you anticipate using more than 5,000 bbls of water to complete the p	proposed well work? Yes V No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: Closed Loop- No	utilization of a pit
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number	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 (Supply form WW-9)	icnocal location)
Other (Explain No pits	isposai tocation)
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and horizontal)? Air,	, freshwater, oil based, etc. vertical air / horizontal oil base fluid
-If oil based, what type? Synthetic, petroleum, etc. synthetic	
Additives to be used in drilling medium? Bactericide, Polymers, and Weigh	nting Agents
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, e	
-If left in pit and plan to solidify what medium will be used? (o	
	ement, lime, sawdust)
-Landfill or offsite name/permit number? See attached list.	
Permittee shall provide written notice to the Office of Oil and Gas of any West Virginia solid waste facility. The notice shall be provided within 2 where it was properly disposed.	y load of drill cuttings or associated waste rejected at any 4 hours of rejection and the permittee shall also disclose
I certify that I understand and agree to the terms and condition on August 1, 2005, by the Office of Oil and Gas of the West Virginia Deprovisions of the permit are enforceable by law. Violations of any term aw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examine application form and all attachments thereto and that, based on my obtaining the information, I believe that the information is true, accurate action and the information of the company Official Signature Company Official Signature Raymond Hoon Company Official Title Permitting Supervisor	epartment of Environmental Protection. I understand that the m or condition of the general permit and/or other applicable and am familiar with the information submitted on this inquiry of those individuals immediately responsible for trate, and complete. I am aware that there are significant the or imprisonment. RECEIVED Gas Office of Oil and Gas
ornorm Title	WV Department of Environmental Protection
Pah -	
Subscribed and sworn before me this day ofFebi una	
(+ OC)	Notary Public Official
My commission expires 11/27/702	State of West Virgin My Comm. Expires Nov 2 One Dominion Drive Jane Lew V

Form WW-9

Proposed Revegetation Treatment: Acres Dist	turbed 19.7 Prevegetation pH 6.5
Lime according to pH test Tons/acre or	
	r to correct to pri
Fertilizer type 10-20-20 or equal	
Fertilizer amount 500 Mulch hay or straw at 2	lbs/acre
Mulch_ riay or straw at 2	Tons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre	Seed Type lbs/acre
Orchard Grass 25	Orchard Grass 25
Birdsfoot Trefoil 15	Birdsfoot Trefoil 15
Ladino Clover 10	Ladino Clover 10
Maps(s) of road, location, pit and proposed are provided). If water from the pit will be land appareage, of the land application area.	ea for land application (unless engineered plans including this info have been oplied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in this sheet.
Maps(s) of road, location, pit and proposed are provided). If water from the pit will be land ap acreage, of the land application area. Photocopied section of involved 7.5' topograph	oplied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in
Attach: Maps(s) of road, location, pit and proposed are provided). If water from the pit will be land ap acreage, of the land application area. Photocopied section of involved 7.5' topograph Plan Approved by: Comments:	pplied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in this sheet.
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JUN 1 3 2018



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 see fit.
- 4. Notify the OOG and CNX if any changes in water, gas production, pressure, or other conditions that cause abnormal risk or concern.

Sincerely,

RECEIVED Office of Oil and Gas

AUG 6 2018

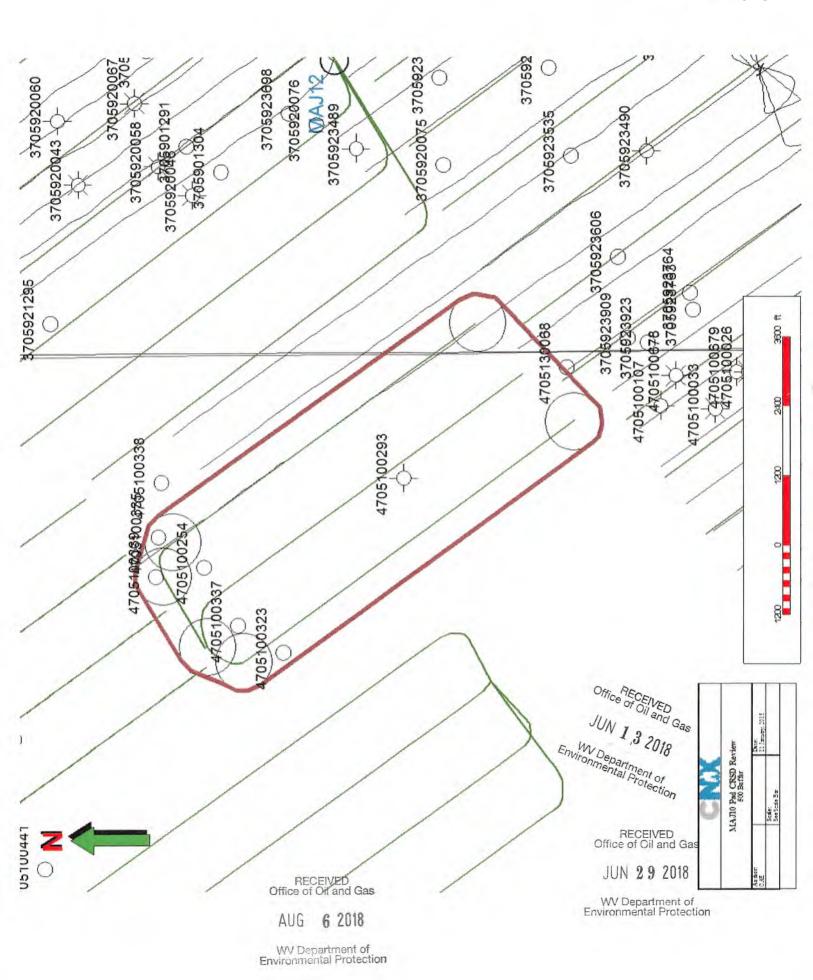
WV Department of Environmental Protection JUN 29 2018

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WV Department of Environmental Protection

CNX Production





						LAST PERMIT	FORMATION	
API	COMPANY	WELLNAME	WELL NUMER	STATUS	TD.	DATE	AT TD	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

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WV Department of Environmental Protection

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Office of Oil and Gas

JUN 29 2018

	Disc	laim	er: Vende	ors have	been aj	ppoved for the bel	ow category by	y ENV. UP	DATED A	GREEM	ONT with MS	SCM MU	OD 38 TSO	8102 6MED	penartment of mental Protection CEIVED Gas 1.3 2018
				HS	EAPPR	OVED NON-HAZ	ARDOUS W.	ASTE DISI	OSAL F	CILITIE	S (version 05	-23-2016) <u>À</u>	Z	DE #0 Z
Republic Services (Allied Waste) Industrial Landfills Gas Specific Waste Streams					Streams			(Other Accepte	d Waste Stream	ns		C U	3	Contampleormation
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	Contaction
IcLean County	Bloomington	III.	X	X		X	X	X	X	X	X	X	Services	X X	
RC/Coles County	Charleston	IL	X	X		X	X	X	X	X	X	X	1	X	
ickyard Disposal	Danville	IL	X	X		X	X	X	X	X	X	X		x	1
uthern Illinois Regional	De Soto	IL						TO THE REAL PROPERTY.						X	1
e County	Dixon	IL	X	X		X	X	X	X	X	X	X		X	1
per Rock Island	East Moline	II.	X	X		X	X	X	X	X	X	X	100	X	1
nd County	Greensville	IL	X	X		X	X	X	X	X	X	X		X	1
nois	Hoopeston	IL.	X	X		X	X	X	X	X	X	X		X	
ndComp	LaSalle	II.	X	X		X	X	X	X	X	X	X		X	317-921-1667 or 480-627-2700
chfield-Hillsboro	Litchfield	IL	X	X		X	X	X	X	X	X	X		X	1-800-634-0215
virontech	Morris	IL	X	X		X	X	X	X	X	X	X		X	
ingston	Pontiac	IL	X	X	1.5-11.	X	X	X	X		X	X		X	
oxana	Roxana	IL.	X	X	6	X	X	X	X	X	X	X	X	X	
ingamon Valley enson Valley	Springfield	IL	X	X	-	X	X	Х	X	X	X	Х		X	
ue Ridge	Frankfort	KY	X	X		X	X	X	X	X	X	X		X	
orchead	Irvine Morehead	KY	X	X		X	X	X	Х	X	X	X		X	
een Valley	Rush	KY	X	X		X	X	X	X	X	X	X		X	
nerokee Run	Bellefontaine	OH	^			X	X	X	X	X	X	X	X	X	
illiams County	Bryan	OH	-	-		X	X	X	X	-	X	X		X	
ounty Environmental	Carey	OH	-			X	X	X	Х	X	X	X	3	X	
lina	Celina	ОН			-	X	X	X	V	-	X	X	-	X	
arbon-Limestone**	Lowellville	OH	X	X		x	X	X	X		X	X		X	
ountywide Landfill**	East Sparta	ОН	X	X		X	X	X				Α	X	X	Jack Palermo:
orain County	Oberlin	OH	- ^	^		X	X	X	X	5-100		V	A Share	X	work: 330-536-8013
ikland Marsh	Shiloh	OH				^	X	X	X	X	X	X		X	cell: 330-806-9660
perial	Imperial	PA				X	x	Ŷ	X	X	X		-	X	
nestoga	Morgantown	PA				X	X	^	X	X	X	X		X	Barbara Harsanye:
inswick	Lawrenceville	VA			IE OF	X	X	X	X	X	Ŷ	X			work: 330-536-8013 x 120
ng and Queen	Little Plymouth	VA	10			X	X	X	X	X	X	X		X	cell: 330-423-7267
Dominion	Richmond	VA			4	X	X	X	X	X	x	X		X	JULI 230 123 1201
camore	Hurricane	WV		-	1.00	X	X	X	X	^	^	X		X	
ort Creek	Wheeling (Short Creek)	wv	X	X		X	X	X	X		1	X		X	
rter Valley	Church Hill	ITN					A	- 1			and the same of th	^	Commence of the last	A	



Waste Management			Gas Spe	cific Waste	Streams			(Other Accepted	l Waste Stream	ns				1 20 T
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 Hormation Z
Arden Landfill	Washington	PA	X	X		X	X	X	X			X	X	X	£ -
outh Hills (Arnoni)	South Park	PA	X	X			X	X	X			X	X	X	Gas of
elly Run	Elizabeth	PA	X	X		X	X	X	X			X	X	X	n 00
alley Landfill	Irwin	PA	X	X		X	X	X	X	X	X	X	X	X	0 =
vergreen Landfill	Blairsville	PA	X	X		X	X	X						X	Scott Allen: 412-604-133-62
harleston Landfill	Charleston	wv	X	X		x	X	x	х			X	(5.00	х	Scott Allen: 412-004-100
(anawha County)						Α.	A	A	A			X		X	Scott Allen: 412-604-1920 P. B. C.
leadowfill Landfill	Bridgeport	WV		X		X	X	X	X	X	X	X	X	X	HO &
orthwestern Landfill	Parkersburg	WV	X	X		X	X	X	X		1	X	X	X	1 0 0
&S Grading Landfill	Clarksburg	WV		X		X	X	X	X			X		X	O o d
merican Landfill	Waynesburg	OH		X		X	X	X	X	X	X	X	X	X	Scott Allen: 412-604-1246
uburban RDF	Glenford	OH		X		X	X	X	X	X	X	X	X		Patty Landolt: 262-532-8009
oshocton Landfill***	Coshocton	OH		X		X	X	X						X	John Miller: 1-800-963-4776
fahoning Landfill	New Springfield	OH	Х	X		X	X	X			X	X		X	0
aditional Educations		- 1	Gas Spe	cific Waste	streams				ther Accepted	waste Stream	lis				Share Characterists
Landfill	Location		Drill*	Waste	Waste	Contaminated Soil	Construction &	Industrial		Friable	Non-Friable	Process	Solidification	Municipal	Contact Information
Landfill			100	10 X X X X			Construction & Demolition Waste		Sludge			Process Waste	Solidification Services	Municipal Solid Waste	
Vestmoreland Waste WWLC Group)	111 Conner Lane, Belle Vernon, PA 15012	PA	Drill*	Waste	Waste			Industrial		Friable	Non-Friable				200000000000000000000000000000000000000
Landfill Vestmoreland Waste WWLC Group) IAX Environmental	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive,		Drill* Cuttings	Waste Liners X	Waste	(Including Petroleum)	Demolition Waste	Industrial Waste X	Sludge	Friable Asbestos	Non-Friable Asbestos		Services X	Solid Waste X	Mike Home: 412-552-4427
Landfill Vestmoreland Waste WWLC Group) MAX Environmental Bulger Facility)	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019	PA PA	Drill* Cuttings	Waste Liners	Waste	(Including Petroleum)	Demolition Waste	Industrial Waste	Sludge	Friable Asbestos	Non-Friable Asbestos		Services	Solid Waste	Mike Home: 412-552-4427
Landfill Vestmoreland Waste WWLC Group) JAX Environmental Bulger Facility) JAX Environmental	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane	PA	Drill* Cuttings X	Waste Liners X	Waste	(Including Petroleum) X X	Demolition Waste X X	Industrial Waste X	Sludge X X	Friable Asbestos	Non-Friable Asbestos		Services X X	X X	Mike Home: 412-552-4427 Mark Thomas: 724-929-7694
Landfill Vestmoreland Waste WWLC Group) MAX Environmental Bulger Facility) MAX Environmental Yukon Facility)	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15698		Drill* Cuttings	Waste Liners X	Waste	(Including Petroleum)	Demolition Waste	Industrial Waste X	Sludge	Friable Asbestos	Non-Friable Asbestos		Services X	Solid Waste X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900
Landfill Vestmoreland Waste WWLC Group) MAX Environmental Bulger Facility) MAX Environmental Yukon Facility) Apex Sanitary landfill	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78	PA PA	Drill* Cuttings X X X	Waste Liners X X	Waste	(Including Petroleum) X X X	Demolition Waste X X X	Industrial Waste X X	Sludge X X X	Friable Asbestos	Non-Friable Asbestos		X X X	X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900
Landfill Vestmoreland Waste WWLC Group) JAX Environmental Bulger Facility ANX Environmental Yukon Facility1 pex Sanitary landfill Apex Environmental	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78 Amsterdam, Ohio 43903	PA	Drill* Cuttings X	Waste Liners X	Waste	(Including Petroleum) X X	Demolition Waste X X	Industrial Waste X	Sludge X X	Friable Asbestos	Non-Friable Asbestos		Services X X	X X	Mike Home: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789
Landfill Vestmoreland Waste WWLC Group) JAX Environmental Bulger Facility AAX Environmental Yukon Facility upex Sanitary landfill Apex Environmental) umpke, Mr. Sterling	111 Conner Lane, Belle Vermon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15698 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd,	PA PA OH	Drill* Cuttings X X X	Waste Liners X X X	Waste	(Including Petroleum) X X X X	Demolition Waste X X X X	X X X X	Sludge X X X	Friable Asbestos X	Non-Friable Asbestos X		X X X	X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com
Landfill Vestmoreland Waste WWLC Group) MAX Environmental Bulger Facility) MAX Environmental Yukon Facility)	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78 Amsterdam, Ohio 43903	PA PA	Drill* Cuttings X X X	Waste Liners X X	Waste	(Including Petroleum) X X X	Demolition Waste X X X	Industrial Waste X X	Sludge X X X	Friable Asbestos	Non-Friable Asbestos		X X X	X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887
Landfill Vestmoreland Waste WWLC Group) JAX Environmental Bulger Facility AAX Environmental Yukon Facility upex Sanitary landfill Apex Environmental) umpke, Mr. Sterling	111 Conner Lane, Belle Vermon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15698 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd,	PA PA OH KY	Drill* Cuttings X X X X X	Waste Liners X X X X	Waste	(Including Petroleum) X X X X	Demolition Waste X X X X X	X X X X X X	Sludge X X X	Friable Asbestos X	Non-Friable Asbestos X	Waste	X X X	X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com Carl Walter: 513-623-2471
Landfill Vestmoreland Waste WWLC Group) AX Environmental Bulger Facility AX Environmental Yukon Facility pex Sanitary landfill Apex Environmental umpke, Mt. Sterling tumpke, Mt. Sterling	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulker, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337	PA PA OH	Drill* Cuttings X X X	Waste Liners X X X	Waste	(Including Petroleum) X X X X	Demolition Waste X X X X	X X X X	Sludge X X X	Friable Asbestos X	Non-Friable Asbestos X		X X X	X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996
Landfill /estmoreland Waste WWLC Group) IAX Environmental aliger Facility AX Environmental /ukon Facility pex Sanitary landfill Apex Environmental umpke, Mt. Sterling Rumpke Consolidated) aurel Ridge Landfill	111 Conner Lane, Belle Vermon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway	PA PA OH KY	Drill* Cuttings X X X X X	Waste Liners X X X X	Waste	(Including Petroleum) X X X X	Demolition Waste X X X X X	X X X X X X	Sludge X X X	Friable Asbestos X	Non-Friable Asbestos X	Waste	X X X	X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com Carl Walter: 513-623-2471
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Landfill /estmoreland Waste WWLC Group) IAX Environmental sulger Facility) Jax Environmental /ukon Facility) pex Sanitary landfill yex Environmental) umpke, Mt. Sterling tumpke Consolidated) aurel Ridge Landfill	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway 552 Lity, KY 40740 Chestnut Valley 1184 McClellandtown	PA PA OH KY	Drill* Cuttings X X X X X	Waste Liners X X X X	Waste	(Including Petroleum) X X X X	Demolition Waste X X X X X	X X X X X X	Sludge X X X	Friable Asbestos X	Non-Friable Asbestos X	Waste	X X X	X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996
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Landfill /estmoreland Waste WWLC Group) IAX Environmental sulger Facility) Jax Environmental /ukon Facility) pex Sanitary landfill yex Environmental) umpke, Mt. Sterling tumpke Consolidated) aurel Ridge Landfill	111 Conner Lane, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway 552 Lity, KY 40740 Chestnut Valley 1184 McClellandtown	PA PA OH KY	Drill* Cuttings X X X X X X	Waste Liners X X X X X X	Waste	(Including Petroleum) X X X X X	Demolition Waste X X X X X X	Industrial Waste X X X X X X	Sludge X X X X	Friable Asbestos X	Non-Friable Asbestos X	Waste	X X X	X X X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996
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Landfill /estmoreland Waste WWLC Group) IAX Environmental sulger Facility JAX Environmental /ukon Facility pex Sanitary landfill Apper Environmental) umpke, Mt. Sterling tumpke Consolidated) sarel Ridge Landfill Waste Connections of KY)	111 Conner Lane, Belle Vermon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15098 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway 552 Lily, KY 40740 Chestmut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458 Greentree Landfill; 635 Toby Rd; Kersey, PA	PA PA OH KY KY	Drill* Cuttings X X X X X X X	Waste Liners X X X X X X X	Waste	(Including Petroleum) X X X X X X X	Demolition Waste X X X X X X X X X X	Industrial Waste X X X X X X X X	Sludge X X X X	Friable Asbestos X	Non-Friable Asbestos X	Waste	X X X	Solid Waste X X X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996 Cell: 606-219-0261 Tony Labenne 6184 Route 219, Brockway, PA 15824
Landfill /estmoreland Waste WWLC Group) IAX Environmental sulger Facility JAX Environmental /ukon Facility pex Sanitary landfill Apper Environmental) umpke, Mt. Sterling tumpke Consolidated) sarel Ridge Landfill Waste Connections of KY)	111 Conner Lanc, Belle Vernon, PA 15012 200 Max Drive, Bulger, PA 15019 233 MAX Lane Yukon, PA 15698 11 County Road 78 Amsterdam, Ohio 43903 30 Larison Rd, Jeffersonville, KY 40337 3612 E State Highway 552 Lily, KY 40740 Chestnut Valley 1184 McClellandtown Rd, McClellandtown, PA 15458 Greentree Landfill; 635	PA PA OH KY KY	Drill* Cuttings X X X X X X X	Waste Liners X X X X X X X	Waste	(Including Petroleum) X X X X X X X	Demolition Waste X X X X X X X X X X	Industrial Waste X X X X X X X X	Sludge X X X X	Friable Asbestos X	Non-Friable Asbestos X	Waste	X X X	Solid Waste X X X X X X X	Mike Horne: 412-552-4427 Mark Thomas: 724-929-7694 Carl Spadaro: 412-343-4900 cell: 412-445-9789 Joe Teterick: 740-275-2887 joet@els-company.com Carl Walter: 513-623-2471 Bruce Crouch: Work: 606-864-7996 Cell: 606-219-0261 Tony Labenne 6184 Route 219, Brockway, PA 15824

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.

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

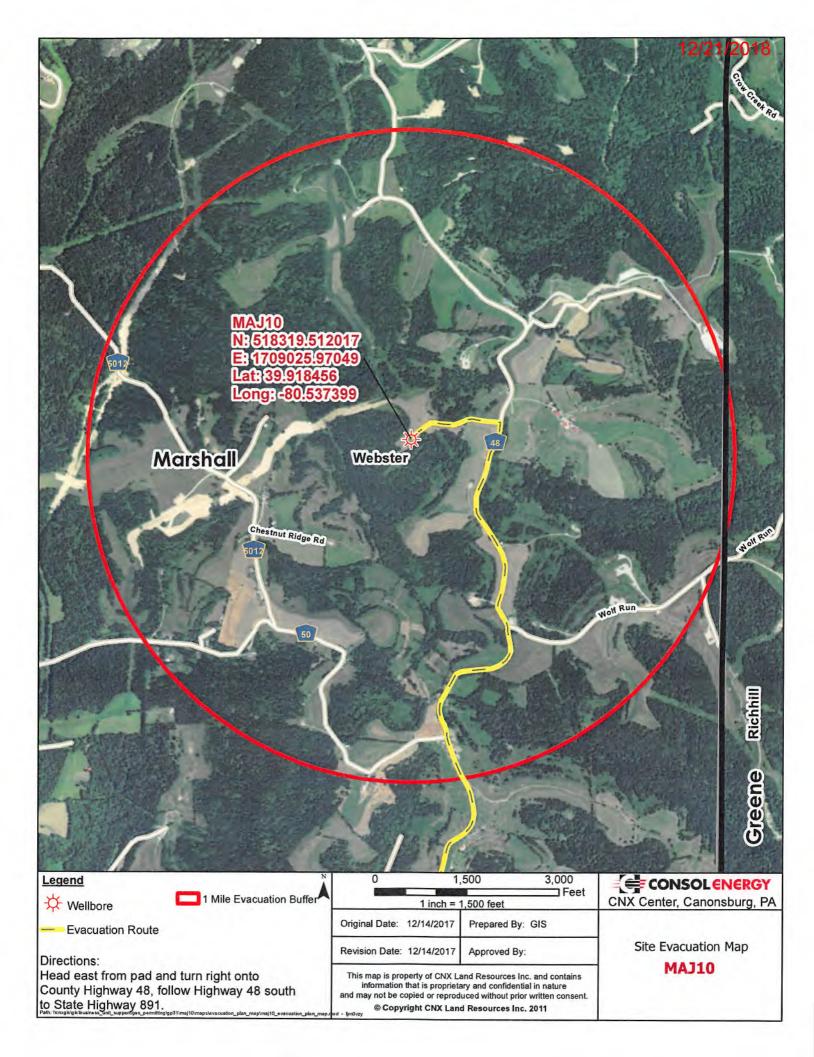
Gas

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



Site Safety Plan for Well MAJ10HSU CNX Gas Company, LLC.





12/21/2018

WW-6A1 (5/13)

Operator's Well No. MAJ10CHSU

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

RECEIVED Office of Oil and Gas

JUN 29 2018

WV Department of Environmental Protection

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

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

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

Office of Oil and Gas WV Department of Environmental Protection

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

Tract ID	Title QLS / T#	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
1 (Fee Tract)	205319000/ T115475	Margaret Moran	Consol Pennsylvania Coal Company	100% CNX (DEED)	668/330
Tee macy	1115475	Consol Pennsylvania Coal Company	CNX Gas Company LLC	Deed	804/189
2 (Fee Tract)	205319000/ T115474	Margaret Moran	Consol Pennsylvania Coal Company	100% CNX (DEED)	668/330
		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
3	204643000/	Columbia Gas Transmission LLC	NiSource Energy Ventures	Assignment	21/428
(2 Leases)	T114764	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
	T	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	Ralph Curtis Riggle	CNX Gas Company LLC	17%	907/534
_	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
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334

8	205319000/	Mayayat Mayar	Consol Bonnoulyania Coal Company	1000/ CNV (DEED)	550/220
(Fee Tract)	T115475	Margaret Moran	Consol Pennsylvania Coal Company	100% CNX (DEED)	668/330
		Consol Pennsylvania Coal Company	CNX Gas Company LLC	Deed	804/189
	205315000/				1
9	T115471	David L. Kinney & Raymond P. Kinney	CNX Gas Company LLC	15%	701/421
					1
		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
(4 leases)	T115470	Robert S. Neely and Jodi Neely, husband and wife	TH Exploration, LLC	18%	933/631
ļ		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
		Rodney J. Kinney and Debra J. Kinney, husband		/ washington	72/110
		and wife	TH Exploration, LLC	18%	933/633
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173
	·	THE EXPLORATION, ELEC	Cox das company, EEC	Assignment	42,173
		Columbia Gas Transmission	NiSource Energy Ventures	17%	683/557
	202420000/	Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
	202138000/	Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas	Sublease	·
11	T112141		Transmission as a joinder		848/97
		Columbia Energy Ventures LLC	CNX Gas Company LLC	Assignment	34/466
			•		
-		Columbia Gas Transmission	NiSource Energy Ventures	17%	683/557
	203161000/	Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
12	T113178	Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas	Sublease	848/97
	1113176		Transmission as a joinder		040/97
		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
		CNX Land LLC	CNX Resources Corp	100% CNX (DEED)	Copy Included
		Dry Ridge Community Association, a West Virginia	Nichia France Inc	<u> </u>	
		Nonprofit Corporation	Noble Energy, Inc.	15%	809/619
	205320000/	Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 34/177
14	T115476	CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
	,225470	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
		In a month of the following the	articles company and	появинене	1 MD 42/10/
		Columbia Gas Transmission	NiSource Energy Ventures	17%	683/557
	202137000/	Columbia Gas Transmmission Corporation	Columbia Gas Transmission LLC	Merger/Name Change	683/459
15	7112140	Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas Transmission as a joinder	Sublease	848/97
					

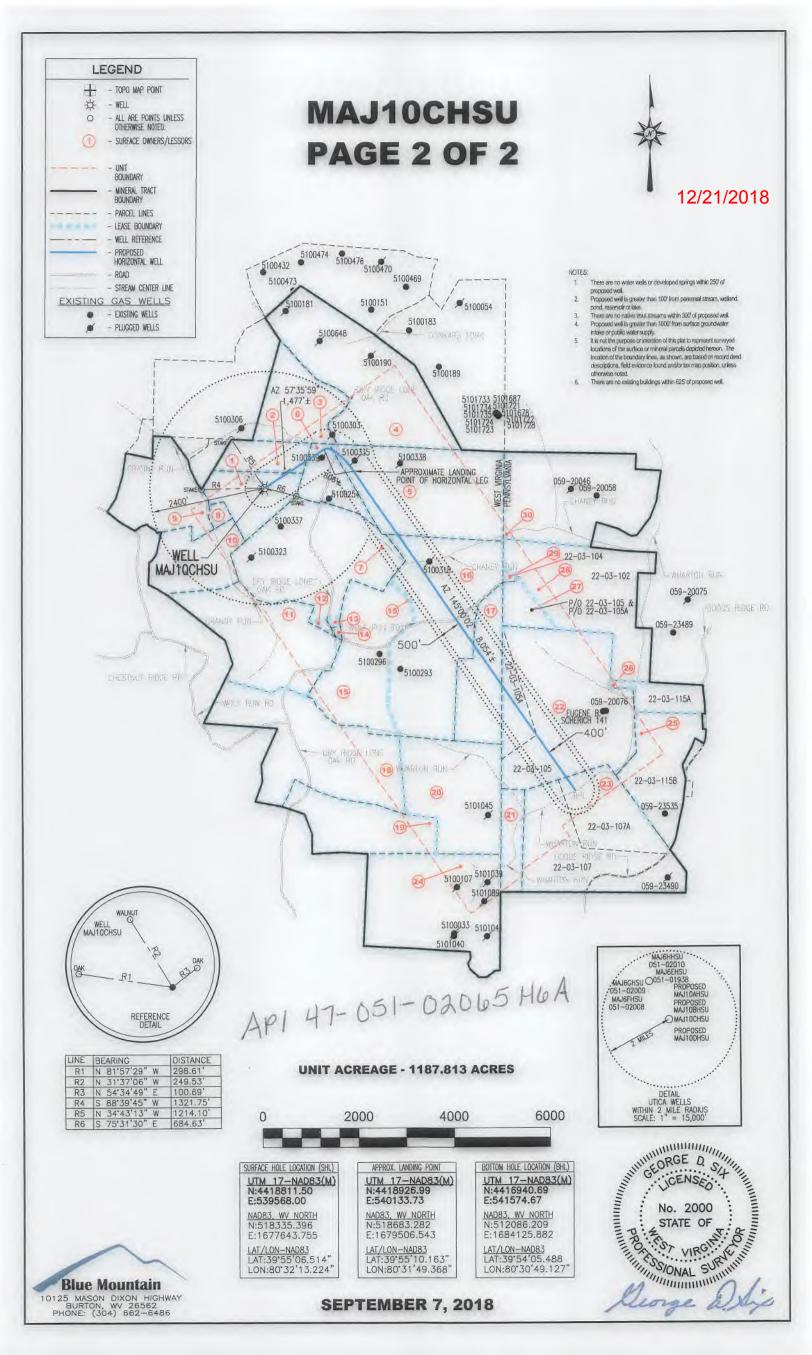
		Richard E. Scherich, widower	Noble Energy, Inc.	15%	806/314
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 34/177
		CNX Gas Company LLC	Noble Energy, Inc.	Assignment	AB 37/169
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334
		Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	AB 39/1
i		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
		Noble Energy, Inc.	CNX Gas Company LLC	Assignment	AB 37/334
į		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
		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
		,, ,, ,, ,		, isolgiment	
		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
4=	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
		Pauline Myers Family Limited Partnership	NiSource Energy Ventures, Columbia Gas Transmission	17% (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
	1	perantial charge ventures	journess company and	ranginiicat	304/22/4
		Eugene Scherich, widower	The Manufacturers Light and Heat Company	1/8	326/105
		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
10	202133000/	Columbia Gas Transmission LLC	NiSource Energy Ventures	Assignment	21/428
18	T112136	Columbia Energy Ventures LLC	CNX Gas Company LLC and Columbia Gas	Sublease	
			Transmission as a joinder		848/97
	I				·
		Columbia Energy Ventures LLC	CNX Gas Company and Noble Energy Inc	Assignment	AB 37/129

		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 L. Doman, widow	TH Exploration, LLC	19%	949/454	
19	285652000	Helen L. Doman, widow	TH Exploration, LLC	Amendment	962/521	
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173	
	•	THE EXPLORATION, ELEC	converse company, elec	Assignment	42/1/3	
	195297000/	Helen L. Doman, widow	TH Exploration, LLC	19%	949/454	
20	T104972	Helen L. Doman, widow	TH Exploration, LLC	Amendment	962/521	
	1104972	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	
	1112395	TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173	
		Eugene Scherich, widower	The Manufacturers Light and Heat Company	12.50%	528/76	
	202386000/		NiSource Energy Ventures, Columbia Gas	17%	472/420	
22	T112396	Pauline Myers Family Limited Partnership	Transmission	27,70	472/420	
		Columbia Energy Ventures, LLC f/k/a NiSource	CNX Gas Company, LLC	Sublease	477/241	
		Energy Ventures, LLC	CANY Con Community LLC			
		Columbia Energy Ventures, LLC	CNX Gas Company, LLC	Assignment	492/682	
		B.L. Frye and Dora Frye, husband and wife	The Manufacturers Light and Heat Company	1/8	447/53	
23	202384000/	Columbia Gas Transmission Corporation	CNX Gas Company LLC	Deed	414/1259	
23	T112394	Columbia Energy Ventures, LLC f/k/a NiSource Energy Ventures, LLC	CNX Gas Company, LLC	Sublease	477/241	
		Columbia Energy Ventures, LLC	CNX Gas Company, LLC	Assignment	504/2274	
		T	TH Exploration, LLC			
24	195298000/	Helen L. Doman, widow		19%	949/454	
	T104973	Helen L. Doman, widow	TH Exploration, LLC	Amendment	962/521	
		TH Exploration, LLC	CNX Gas Company, LLC	Assignment	42/173	
		T	1			
		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	20236/000/ 111239/	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	
	1	Columbia Energy Ventures, LLC, Columbia Gas		Amendment to Memo of		
			1			

		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	204330000/ 1113130	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
	_ 		The second secon		
		Eugene Scherich, widower	The Manufacturers Light and Heat Company	1/8	528/76
			NiSource Energy Ventures, Columbia Gas	17%	472/420
27	202386000/ T112396	Pauline Myers Family Limited Partnership	Transmission	1/76	472/420
		Columbia Energy Ventures, LLC f/k/a NiSource	CNX Gas Company, LLC	Sublease	477/241
		Energy Ventures, LLC		Subjease	
		Columbia Energy Ventures, LLC	CNX Gas Company, LLC	Assignment	492/682
				· · · · · · · · · · · · · · · · · · ·	
		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		
		Tom Sabella	Transmission	Pooling Amendment	456/3859
28	202392000/ T112402	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
		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
		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

			Nisource Energy Ventures, Columbia Gas	15%	473/2094
		Pechin Leasing, LLC	Transmission and CNX Gas Company LLC	15%	473/2054
			Nisource Energy Ventures, Columbia Gas		
			Transmission, CNX Gas Company LLC and	15%	492/2047
		Donald R. D'Amico	Noble Energy Inc.		
30	202393000/ T112403	Columbia Energy Ventures, LLC f/k/a NiSource	CNX Gas Company, LLC	Sublease	477/241
30	202393000/ 1112403	Energy Ventures, LLC		Sublease	4///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 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
1		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

		SURFACE OWNER CNX LAND, LLC	LESSOR COM	PANY LLC (FEE)	DIST-TM/PAR P/0 15-11/12			
	2	CNX LAND, LLC CNX LAND, LLC ROGER D. MCCRACKEN ET AL		PANY LLC (FEE)	15-11/11 P/0 15-11/21			
***	4	ROGER D. MCCRACKEN ET AL	CHESTNUT HOL		P/0 15-11/21			(0)
		MICHAEL S. RIGGLE	CHESTNUT HOL MICHAEL S. RI	DINGS INC GGLE	15-11/19			J.H.S
	7	MICHAEL S. RIGGLE CNX LAND, LLC	RALPH CURTIS JACKIE L. FRY	E	15-11/20 P/0 15-11/13			œ.
	9	CNX LAND, LLC DAVID L. KINNEY, ET AL RODNEY J. & DEBRA J. KINNEY		PANY LLC (FEE) EY & RAYMOND P. KINNEY	P/0 15-11/12 Y P/0 15-11/9 15-11/8		40/04	loco
	10	NODRET 0, & DEDISO 0. KINNET	THOMAS ALBER	RS .	13-11/0		12/21	loc 2 C
			JAMES WILLIAM BONNIE MIKE					on
			JADE WILLIAMS	ON				
			GINGER WILLIA SAMUEL & SH LEON & ELLA	EILA COTTRELL				topo
			ROBERT S. &			BHI		map
			MICHAEL ALBE	T		2011		
	11	RODNEY J. KINNEY CNX LAND, LLC		ER (FKA RYAN ELLIOT) TRANSMISSION	15-11/15 P/0 15-11/13			10,379
		JOSEPH SCARLATA TRUSTEE BRADLEY S. SCHERICH			P/0 15-11/13 P/0 15-11/14 P/0 15-12/17			579
		JOSEPH SCARLATA TRUSTEE CNX LAND, LLC	EDWARD G. ST		P/0 15-11/14 P/0 15-11/16			feet
	14		A WEST VIRGIN	MMUNITY ASSOCIATION, IIA NONPROFIT CORPORATION TRANSMISSION			SURFACE HOLE LOCATION (SHL)	
	15	CNX LAND, LLC CNX LAND, LLC CNX LAND, LLC	GOLUMBIA GAS	TRANSMISSION	15-11/17 P/0 15-11/13 P/0 15-11/16		UTM 17-NAD83(M) N:4418811.50	west
		CONSOL PENNSYLVANIA COAL CO BRADLEY S. SCHERICH	and because of the		15-12/18 P/0 15-12/17		E:539568.00 NAD83, WV NORTH	of
	16		RICHARD E. SI JANET M. SCH	ERICH	15-11/18		N:518335.396 E:1677643.755	Lon
	17	CNX LAND, LLC	RICHARD P. AI EUGENE SCHE	ND MARY LEE BARTO	15-12/20		LAT/LON-NAD83 LAT:39'55'06.514"	Longitude:
			THE COLOR PROPERTY AND A STATE OF		15-12/16 15-12/16.1		LON:80*32'13.224"	de:
		HELEN L. DOMAN HELEN L. DOMAN	HELEN L. DON	AN	15-12/22 15-12/21		APPROX. LANDING POINT UTM 17-NAD83(M)	80°
	21 22 27		HELEN L. DON EUGENE SCHE		22-3/106 P/0 22-3/105 P/0 22-3/105A		N:4418926.99 E:540133.73	. 30
	27	CONSOL PENNSYLVANIA COAL CO JOHN E. SYNDER ET UX	B.L. AND DOR	A FRYE	P/0 22-3/105A P/0 22-3/107 P/0 22-3/107A		NAD83, WV NORTH N:518683.282	00
	25	HELEN L. DOMAN WILLIAM SNYDER ET AL	HELEN L. DOM W. COLLIER AN	AN ND SARAH H. BALDWIN	3-5/10 22-3/115B		E:1679506.543 LAT/LON-NAD83	-
	28	JOHN E. SNYDER ET UX GAHC L.P.		BLANCHE SCHERICH	22-3/115A 22-3/102		LAT:39*55*10.163" LON:80*31'49.368"	
	29	GAHC L.P.	TOM SABELLA					
Rhua			BETH ANN SAI		AND 22-3/104 22-3/100		BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83(M) N:4416940.69 E:541574.67 NAD83, WY NORTH N:512086.209 E:1684125.882	
10125 MA BURT	Mo son ron.	untain	SHL SHE PAGE 2 DUE	BELLA AND LUCILLE ALLISON TO UNIT BOUND	22-3/100 ARY SIZE		BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4416940.69 E:541574.67 NADB3, WY NORTH N:512086.209 E:1684125.882 LAT/LON-NADB3 LAT:39*54*05.488 LON:80*30*49.127"	
10125 MA BURT PHONE:	Mo son fon. (304	DIXON HIGHWAY WV 26562 4) 662-6486	SHL SHL EE PAGE 2 DUE	BELLA AND LUCILLE ALLISON TO UNIT BOUND NDERSIGNED, HERE	ARY SIZE	AT THIS	BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4416940.69 E:541574.67 NADB3, WY NORTH N:512086.209 E:1684125.882 LAT/LON-NADB3 LAT:39*54*05.488 LON:80*30*49.127"	
10125 MA BURT PHONE:	MO SON FON, (304	DIXON HIGHWAY WV 26562 4) 662-6486	SHL I, THE UI PLAT IS CORRECT BELIEF AND SHOW	DERSIGNED, HERE TO THE BEST OF /S ALL THE INFORM	EBY CERTIFY TH MY KNOWLEDGE MATION REQUIRE	AT THIS	BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4416940.69 E:541574.67 NADB3, WY NORTH N:512086.209 E:1684125.882 LAT/LON-NADB3 LAT:39*54*05.488 LON:80*30*49.127"	
10125 MA BURT PHONE: LE#:	MO SON FON. (304	DUNTAIN DIXON HIGHWAY WV 26562 4) 662-6486 10CHSU MAJ10CHSU	I, THE UI PLAT IS CORRECT BELIEF AND SHOW LAW AND THE RE	NDERSIGNED, HERE TO THE BEST OF IS ALL THE INFORM	22-3/100 ARY SIZE BY CERTIFY TH MY KNOWLEDGE MATION REQUIRE AND PRESCRIB	AT THIS AND ED BY	BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4416940.69 E:541574.67 NADB3, WY NORTH N:512086.209 E:1684125.882 LAT/LON-NADB3 LAT:39*54*05.488 LON:80*30*49.127"	
10125 MA BURT PHONE:	MO SON FON. (304 MAJ	Duntain DIXON HIGHWAY WV 26562 4) 662-6486 10CHSU MAJ10CHSU = 2000'	I, THE UI PLAT IS CORRECT BELIEF AND SHOW LAW AND THE RE THE DEPARTMENT	DERSIGNED, HERE TO THE BEST OF /S ALL THE INFORM	22-3/100 ARY SIZE BY CERTIFY TH MY KNOWLEDGE MATION REQUIRE AND PRESCRIB	AT THIS AND ED BY ED BY N.	BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4416940.69 E:541574.67 NADB3, WY NORTH N:512086.209 E:1684125.882 LAT/LON-NADB3 LAT:39*54*05.488 LON:80*30*49.127"	
10125 MA BURT PHONE: RAWING #: CALE: INIMUM DE	MO SON FON. (302 MAJ 1" =	DIXON HIGHWAY WV 26562 4) 662-6486 10CHSU MAJ10CHSU = 2000' E	I, THE UI PLAT IS CORRECT BELIEF AND SHOW LAW AND THE RE	NDERSIGNED, HERE TO THE BEST OF IS ALL THE INFORM	22-3/100 ARY SIZE BY CERTIFY TH MY KNOWLEDGE MATION REQUIRE AND PRESCRIB	AT THIS AND ED BY ED BY	BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4416940.69 E:541574.67 NADB3, WY NORTH N:512086.209 E:1684125.882 LAT/LON-NADB3 LAT:39*54*05.488 LON:80*30*49.127"	
10125 MA BURT PHONE: LE #: AWING #: ALE: NIMUM DE ACCURACO OVEN SOU	MO SON FON. (302 MAJ 1" = GREI CY: RCE	DUNTAIN DIXON HIGHWAY WV 26562 4) 662-6486 10CHSU MAJ10CHSU = 2000'	I, THE UI PLAT IS CORRECT BELIEF AND SHOW LAW AND THE RE THE DEPARTMENT	NDERSIGNED, HERE TO THE BEST OF IS ALL THE INFORM GULATIONS ISSUED OF ENVIRONMEN	22-3/100 ARY SIZE BY CERTIFY TH MY KNOWLEDGE MATION REQUIRE AND PRESCRIB	AT THIS AND ED BY N.	BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83(M) N:4416940.69 E:541574.67 NAD83, WY NORTH N:512086.209 E:1684125.882 LAT/LON-NAD83 LAT:39*54'05.488	The second second
ALE: NIMUM DE ACCURACOVEN SOU DENOTES	MO SON FON. (302 MAJ 1" = GREI Y: RCE ON: LOCA	DUNTAIN DIXON HIGHWAY WV 26562 4) 662-6486 10CHSU MAJ10CHSU = 2000' E 1/2500 U.S.G.S. MONUMENT THOMAS 1498.81' ATION OF WELL ON	I, THE UI PLAT IS CORRECT BELIEF AND SHOW LAW AND THE RE THE DEPARTMENT Signed:	NDERSIGNED, HERE TO THE BEST OF IS ALL THE INFORM GULATIONS ISSUED OF ENVIRONMEN	EBY CERTIFY TH MY KNOWLEDGE MATION REQUIRE AND PRESCRIB TAL PROTECTIO	AT THIS AND D BY ED BY N.	BOTTOM HOLE LOCATION (BHL) UTM 17-NADB3(M) N:4416940.69 E:541574.67 NADB3, W NORTH N:512086.209 E:1684125.882 LAT/LON-NADB3 LAT:39'54'05.488 LON:80'30'49.127" NO. 2000 STATE OF NO. 2000	The second second
ALE: COVEN SOU DENOTES VICE PHONE:	MO SON FON. (302 MAJ 1" = GGREI Y: RCE DN: LOCATES TO	DIXON HIGHWAY WV 26562 4) 662-6486 10CHSU MAJ10CHSU = 2000' E	I, THE UI PLAT IS CORRECT BELIEF AND SHOW LAW AND THE RE THE DEPARTMENT Signed:	DAT	EBY CERTIFY TH MY KNOWLEDGE MATION REQUIRE AND PRESCRIB TAL PROTECTIO S.: P.S. No. 2	MBER 7,	BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83(M) N:4416940.69 E:541574.67 NAD83, W NORTH N:512086.209 E:1684125.882 LAT/LON-NAD83 LAT:39°54'05.488 LON:80°30'49.127" NO. 2000 STATE OF NO. 2000 STATE OF VIRGOUS STATE OF PLACE SEAL H	The second second
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		Г				MA	J-10C-H		
AD83)			N: 5183	1317 35.396 E:	1677643.755	SHL (NAD27 BHL (NAD27			
_		HOLE	RIG	CASING	GEOLOGY	TOP	BTTM	MUD	CE
		36"	Conductor Rig	30"	Conductor		(GL)	AIR	Gr. St
				Deepest Water Well		378			
	24"	24" 18.625"		Roof Coal Zone	778 779		AIR	TOC: 20%	
				1	Pittsburgh Coal	779 786			
				Coal Protection String	898				
1					Big Lime	1,954	1,981		
					Big Injun Top	1,982	2,123		
1					Big Injun Base	2,124	2,799		
	188			Г	EQ Cont	2.000	0.000		Gas

DRILLING WELL PLAN MAJ-10C-HSU Utica HZ

0					10174	J-10C-I	0.00						
Ground Elevatio	n		1317				L (NAD		N: 518298.068 E: 1709078.587				
SHL (NAD83)			35.396 E:	1677643.755		BH	L (NAD	27)	N	: 512048.70	700 E: 1715560.658		
	HOLE	RIG	CASING	GEOLOGY	TOP	BTTM	MUD	CEMENT	Centralizers	Conditioning	BITS	COMMENTS	
	36"	Conductor Rig	30"	Conductor		(GL) 00	AIR	Grout To Surface	N/A	Ensure clean hole at TD	Auger	Stabilize surfac	
				Deepest Water Well		378							
	24"		18.625				AIR	TOC=Surface	Centralized every	Pump Fresh water ahead of	Air Percussion Hammer/Carbide	Run Casing to	
				Roof Coal Zone	778	779	, Ann	20% OHXS	3 joints to surface	cement	Bit	isolate minable o seams.	
				Pittsburgh Coal	779	786							
				Coal Protection String	B	98							
				Big Lime	1,954	1,981							
				Big Injun Top	1,982	2,123							
				Big Injun Base	2,124	2,799		\$ 60.0					
	17.5*		13.375"	50 Foot	2,800	2,833		Gas Block Blend	Centralized every	Pump Brine	Air Percussion	Run Casing to isolate the storag	
	17.5		13.375	Gordon	2,834	2,859	AIR	TOC=surface	45' to 100' from surface.	water ahead of cement	Hammer/Carbide Bit	interval/shallow	
				Fourth	2.860	2,981		20% OHXS	Stricte.	Gerrora Dit	gas.		
			F	Fifth	2,982								
				Int 1 Casing Sting	3,3	332							
711 115		1											
					Rhinestreet	6,247	6,631						
		N/A		Tully	6,632	6,659							
		IN/A		Hamilton	6,660	6.774						Run casing to	
				Marcellus	6,775	6,829							
				Onondaga	6,830	6,924		TOC 5,000		Em and at a second		isolate the Salina	
				Oriskany	6,925	6,970		20% OHXS		Fill and circulate with SOBM for a Tri-Cone /	Tri-Cone /	fracture.Shoe should be set ~800	
	12.25"		9.625"	Helderberg/Keyser	6,971	7,264	AIR		Centralized every	min. of one (1)	ne (1) Directional Air		
				Selina	7,265	8,444			2 joints to surface	complete circulation prior	Motor to maintain vertical control		
				Lockport	8,445	9,596				to cementing.	Tornes compe		
				Rochester-Rose Hill	9,597	9,615						Delow the Queenston top	
				Packer Shell	9,616	9,626		Load hole with				Gueenston top	
				Tuscarora ("Clinton")	9,627	9,922		12.5ppg SOBM. Prior to casing					
				Queenston	9,923			Displace with					
			T	Int. 2 Casing String	10.	723		brine					
		1		Reedville	10,826	11.822			Centralized every				
	B.5" Curve			Utica	11,823	11,875	AIR		2 joints to TOC	Circulate with SOBM for a min.		Run casing 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	10% OHXS	Centralized every	complete	RSS BHA	through the	
	Lateral			Prod Casing	20.8	545	SORM	ОВМ	joint to KOP	to cementing.	1. 1.	curve/lateral	
E E E E E E E E E E E E E E E E E E E	enskeskeske	unasmusi	entra de la composición dela composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela c		decome.	te este est	HERENA PAR	entral established					

8,054' Lateral

89.0" Planned Inclination 145" Planned Azimuth

BHL 11,890' TVD 20,595' MD

RECEIVE Office of Oil and 19289/12/18

NOV 28 REC'D



RECEIVED Office of Oil and Gas

AUG 6 2018

WV Department of Environmental Protection

QUITCLAIM DEED 11193

This QUITCLAIM DEED (this "Deed") is made as of the 30th 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 Exhibit 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 CERTAIN REPRESENTATIONS WARRANTIES CONTAINED IN THIS PARAGRAPH ARE "CONSPICUOUS" DISCLAIMERS FOR THE PURPOSE OF ANY APPLICABLE LAW.

This Deed shall bind and inure to the benefit of the Parties hereto and their respective 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 RECEIVED
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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]

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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:

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WV Department of Environmental Protection CNX RESOURCE HOLDINGS LLC

Bv: Name: Alexander J. Reyes

Title: Vice President

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

I, <u>Sara M. Micali</u>, 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 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.

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

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GRANTEE:

CNX GAS COMPANY LLC

By:

Name: Alexander J. Reyes
Title: Vice President

ment

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

I, <u>Sara M. Micioli</u>, 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 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

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

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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

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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 946, Page 413.

QLS No.: 258782000.

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WITHIN OR UNDERLYING all or a portion of the following tax map and parcel: 15-JUN 29 2018 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.

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Erika Whetstone Permitting Manager Work: 724-485-4035 Mobile: 724-317-2224

Email: erikawhetstone@cnx.com

CNX Center 2/21/2018 1000 CONSOL Energy Drive Canonsburg, PA 15317-6506 724-485-4000

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

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

Date of Notic	e Certification: 87-18	API No. 47	7- 51 -1	02065
Date of None	e cer uneation.		Well No. MA	
			Name: MAJ1	
Notice has b	neen given:		-	
Pursuant to th	e provisions in West Virginia Code	§ 22-6A, the Operator has provided the rec	quired parties	with the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	Easting:	539567.996	
County:	Marshall	UTM NAD 83 Northing:	4418811.505	
District:	Webster	Public Road Access:	Dry Ridge Roa	d-CR48
Quadrangle:	Majorsville	Generally used farm name:	CNX	
Watershed:	Wheeling Creek	<u> </u>		
it has provided information red of giving the requirements Virginia Code	ed the owners of the surface descri- equired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen of	shall contain the following information: (1 libed in subdivisions (1), (2) and (4), subjection sixteen of this article; (ii) that the resurvey pursuant to subsection (a), section of this article were waived in writing by tender proof of and certify to the secretary int.	section (b), sequirement waten of this are the surface of	ection ten of this article, the as deemed satisfied as a result ticle six-a; or (iii) the notice owner; and Pursuant to West
Pursuant to that the Ope	West Virginia Code § 22-6A, the Orator has properly served the require	perator has attached proof to this Notice C ed parties with the following:	Certification	OOG OFFICE USE
*PLEASE CHE	ECK ALL THAT APPLY			ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC		□ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or ☐ NO PLAT SURVEY WAS C	ONDUCTED	RECEIVED
■ 3. NO	FICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECA NOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED or		□ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	RECEIVED Office of Oil and	Gas	
■ 5. PUE	BLIC NOTICE	AUG 6 20		□ received
■ 6. NO	TICE OF APPLICATION	WV Departmen Environmental Prot	t of tection	□ 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.

Its:

Telephone:

Certification of Notice is hereby given:

THEREFORE, I Erika Whetstone , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operator: CNX Gas Company, LLC Address: 1000 Consol Energy Drive By: Erika Whetstone

COMMONWEALTH OF REMNSYLVANIA

Permitting Manager

724-485-4035

NOTARIAL SEAL Lori L. Walker, Notary Public Richhill Twp., Greene County My Commission Expires Feb. 23, 2019 MEMBER. PENNSYLVANIA ASSOCIATION OF NOTARIES Canonsburg, PA 15317

Facsimile:

Email:

ErikaWhetstone@CNX.com

Subscribed and sworn before me this day of

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

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API NO. 47-51 - 02065

OPERATOR WELL NO. MAJ10CHSU

Well Pad Name: MAJ10HSU 12/21/2018

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.	
Date of Notice: 8 3-18 Date Permit Application Filed: 8 3 18	Gas
Notice of: AUG 6 20	18
PERMIT FOR ANY WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT WORK WUNDMENT OR PIT WW Department Environmental Pro	t of tecti on
Delivery method pursuant to West Virginia Code § 22-6A-10(b)	
PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	
registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts over oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbant described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain to more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonme impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the appl have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithsta provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. Code R. § 35-8-5.7.a requires, in part, th	of record of rlying the nee as owner, by one or proposed int of any icant to a is used to the in d in the nding any
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☐ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE	er and any
☑ SURFACE OWNER(s) Name: CNX LAND, LLC Name: See attached.	er and any
Address: 1000 Consol Energy Drive Address:	er and any
Canonsburg, PA 15317	er and any
	er and any
Name: PI COAL OPERATOR	er and any
Name: COAL OPERATOR Address: Name: Consol Pennsylvania Coal Company, LLC	er and any
Name: COAL OPERATOR Address: Name: Consol Pennsylvania Coal Company, LLC Address: 1000 Consol Energy Drive	er and any
Address: Consol Pennsylvania Coal Company, LLC	er and any
Address: Consol Pennsylvania Coal Company, LLC Address: 1000 Consol Energy Drive	er and any
Address: Name: Consol Pennsylvania Coal Company, LLC Address: 1000 Consol Energy Drive SURFACE OWNER(s) (Road and/or Other Disturbance) Canonsburg, PA 15317	er and any
Address: Name: Consol Pennsylvania Coal Company, LLC	er and any
Address: Name: Consol Pennsylvania Coal Company, LLC	er and any
Address: Name: Consol Pennsylvania Coal Company, LLC	
Address: Name: Consol Pennsylvania Coal Company, LLC Address: 1000 Consol Energy Drive SURFACE OWNER(s) (Road and/or Other Disturbance) Canonsburg, PA 15317 Name: Michael S. Riggle SURFACE OWNER OF WATER WELL Address: 3648 Dry Ridge Road AND/OR WATER PURVEYOR(s) Cameron, WV 26033 Name: Name: CNX LAND, LLC Address: Address: 1000 Consol Energy Drive Canonsburg, PA 15317 OPERATOR OF ANY NATURAL GAS STORAGE FI	
Address: 1000 Consol Energy Drive SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Michael S. Riggle Address: 3648 Dry Ridge Road Cameron, WV 26033 Name: CNX LAND, LLC Address: 1000 Consol Energy Drive Canonsburg, PA 15317 D SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Address: 1000 Consol Energy Drive Canonsburg, PA 15317 D OPERATOR OF ANY NATURAL GAS STORAGE FINAME: COLUMBIA GAS TRANSMISSION, LLC	
Address: Name: Consol Pennsylvania Coal Company, LLC Address: 1000 Consol Energy Drive SURFACE OWNER(s) (Road and/or Other Disturbance) Canonsburg, PA 15317 Name: Michael S. Riggle SURFACE OWNER OF WATER WELL Address: 3648 Dry Ridge Road AND/OR WATER PURVEYOR(s) Cameron, WV 26033 Name: Name: CNX LAND, LLC Address: Address: 1000 Consol Energy Drive Canonsburg, PA 15317 OPERATOR OF ANY NATURAL GAS STORAGE FI	

WW-6A (8-13) Office of Oil and Gas

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API NO. 47-51 - 02065

OPERATOR WELL NO. MAJ10CHSU

Well Pad Name: MAJ10HSU 12/21/2018

WV Department of Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they 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. 47-51 - 02066

OPERATOR WELL NO. MAJJOCHSU
Well Pad Name: MAJJOHSU 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:

Office of Oil and Gas

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A (8-13) API NO. 47-51 - 02065 OPERATOR WELL NO. MAJOCHE 1/2018 Well Pad Name: MAJ10HSU

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 depprivacyofficer@wv.gov.

JONATHAN D. JONES
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 $\frac{3}{2}$

day of July,

Notary Public

My Commission Expires

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AUG 6 2018

MAJ10CHSU 12/21/2018

51-02065

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

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JUN 1,3 2018

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

	e Requiremen	t: Notice shall be prov	ided at	least SEVEN (7) day	s but no more than	FORTY-F	TVE (45) da	ays prior to
entry Date of Not	tice: 12/7/17	Date of Plan	nned Er	ntry: 12/14/17				
Delivery m	ethod pursuan	nt to West Virginia C	ode § 22	2-6A-10a				
☐ PERSO	ONAL I	REGISTERED		METHOD OF DEL	IVERY THAT RE	QUIRES A		
SERVI	ICE	MAIL		RECEIPT OR SIGN	ATURE CONFIRM	MATION		
on to the sur but no more beneath suc owner of mi and Sedime Secretary, w	rface tract to co than forty-five h tract that has inerals underly int Control Man which statement	Code § 22-6A-10(a), I onduct any plat survey days prior to such en filed a declaration puting such tract in the contact and the statutes are shall include contact to obtain copies from the	s require try to: (rsuant to ounty tan d rules informa	ed pursuant to this ar 1) The surface owner section thirty-six, ar a records. The notice related to oil and gas tion, including the ac	ticle. Such notice sl of such tract; (2) to ticle six, chapter tw shall include a stall exploration and pr	hall be prove o any owner wenty-two o tement that oduction m	rided at leass r or lessee of if this code; copies of the ay be obtain ecretary's w	t seven days of coal seams and (3) any he state Erosion hed from the
Notice is he	ereby provided	l to:					AUG	6 2018
SURFA	ACE OWNER((s)		■ COAL	OWNER OR LES	SSEE	WV De	partment of
Name: CNX LAND, LLC		Name: See	Name: See attached		Environme	ental Protection		
Address: 10	000 Consol Energy D	rive		Address:				
Canonsburg, PA	A 15317							
Name: Address:	_		-	■ MINE	RAL OWNER(s)	,		
Addiess.			-		Gas Company, LLC	/		RECEIVED
Name:					1000 Consol Energy Drive		Offic	ce of Oil and Gas
Address:				Canonsburg, F	The Court of the C			JN 2 9 2018
				*please attac	h additional forms if neo	cessary	0.0	JII & 11 1 2 10
Pursuant to		Code § 22-6A-10(a), of land as follows:	notice is		e undersigned well	operator is	Enviro planning en	V Department of Inmental Protection Intry to conduct
County:	Marshall			Public Road		Dry Ridge Ros		
District:	Webster			Watershed:		Wheeling Cred		
Quadrangle	e: Majorsville			Generally use	d farm name:	CNX		
may be obt Charleston, obtained fro	ained from the WV 25304 (3 om the Secretar hereby given ator: CNX Gas Co	ompany, LLC	Departn s of suc	nent of Environmenta h documents or addit	Il Protection headquional information r default.aspx.	uarters, loca elated to ho	ated at 601 5 prizontal dril REC Office of	7th Street, SE,
Email:			-	Facsimile:	Canonsburg, PA 15317		260	Departal Protection
Linan,	RaymondHo	od@CNX.com		racsumite.			EWIL	outure.
Oil and G	Gas Privacy N	lotice:					-	

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.

4705102065

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

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JUN 29 2018

WV Department of Environmental Protection

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JUN 1 3 2018

WV Department of Environmental Protection

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AUG 6 2018

WV Department of Environmental Protection

Page 1 of 1

51-0212124/2018

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.

Date of Notic		at least TEN (10) days prior to filing a prinit Application Filed:	permit application. RECEIVED Office of Oil and Gas
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(b)	AUG 6 2018
☐ HAND DELIVE	CERTIFIED MAIL RY RETURN RECEIPT RE	QUESTED	WV Department of Environmental Protection
receipt reques drilling a hori of this subsec subsection ma and if availab	ted or hand delivery, give the surface ov zontal well: <i>Provided</i> , That notice give tion as of the date the notice was provide	wher notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided, how</i> wher. The notice, if required, shall included address of the operator and the operator	an operator shall, by certified mail return e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this ade the name, address, telephone number, r's authorized representative.
Name: CNX LAI		Name:	
Address: 1000	Consol Energy Drive	Address:	
Canonsburg, PA	15317		
State: County: District:	West Virginia Marshall Webster		539567.996 4418811.505 Dry Ridge Road-CR48
Quadrangle:	Majorsville	Generally used farm name:	CNX
	Majorsville Wheeling Creek	Generally used farm name:	
Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this ber and electronic mail address of the izontal drilling may be obtained from the control of the contr	s notice shall include the name, addre operator and the operator's authorize ne Secretary, at the WV Department of	
Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this obser and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304	s notice shall include the name, addre operator and the operator's authorize ne Secretary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
Quadrangle: Watershed: This Notice Pursuant to Value facsimile nunrelated to hor located at 601 Notice is her	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this ber and electronic mail address of the izontal drilling may be obtained from the control of the contr	s notice shall include the name, addre operator and the operator's authorize ne Secretary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
Quadrangle: Watershed: This Notice Pursuant to Value facsimile number related to hor located at 601 Notice is he Well Operator	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this ber and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 reby given by:	s notice shall include the name, address operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Value facsimile number related to hor located at 601 Notice is he Well Operator	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this ober and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 reby given by: CNX Gas Company, LLC 1000 Consol Energy Drive	s notice shall include the name, address operator and the operator's authorizence Secretary, at the WV Department of (304-926-0450) or by visiting www.de Authorized Representative:	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx. Raymond Hoon
Quadrangle: Watershed: This Notice Pursuant to Value facsimile nunrelated to hor located at 601 Notice is her well Operator Address:	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this ober and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 reby given by: CNX Gas Company, LLC 1000 Consol Energy Drive	s notice shall include the name, address: Canonsburg, PA 15317	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx. Raymond Hoon
Quadrangle: Watershed: This Notice Pursuant to Value facsimile nunrelated to hor located at 601 Notice is her well Operator Address: Canonsburg, PA	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this ber and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 reby given by: CNX Gas Company, LLC 1000 Consol Energy Drive	s notice shall include the name, address: Canonsburg, PA 15317 Telephone:	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx. Raymond Hoon 1000 Consol Energy Drive
Quadrangle: Watershed: This Notice Pursuant to Value facsimile number related to hor located at 601 Notice is her well Operator Address: Canonsburg, PA Telephone:	Wheeling Creek Shall Include: West Virginia Code § 22-6A-16(b), this ber and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 reby given by: CNX Gas Company, LLC 1000 Consol Energy Drive 15317 724-485-3540	s notice shall include the name, address: Canonsburg, PA 15317	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx. Raymond Hoon 1000 Consol Energy Drive

Oil and Gas Privacy Notice:

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Operator Well No. MAJ10CHSU

51-07/2/25/2018

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

Date of Notic	<u> </u>		3-18	
Delivery met	hod pursuant to West Virginia Co	ode § 22-6A-16(c)		
	FIED MAIL RN RECEIPT REQUESTED	☐ HAND DELIVERY		
eturn receipt he planned of equired to be drilling of a landamages to the d) The notice	requested or hand delivery, give the operation. The notice required by provided by subsection (b), section norizontal well; and (3) A proposed e surface affected by oil and gas op	e surface owner whose land of this subsection shall include the ten of this article to a surface d surface use and compensate erations to the extent the dan given to the surface owner at	will be used for e: (1) A copy the owner whose tion agreement tages are compages are compages	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
	s listed in the records of the sheriff			
Name: CNX LAI	ND, LLC	Name:		
Name: CNX LAI Address: 1000 Canonsburg, PA	ND, LLC Consol Energy Drive 15317 eby given: /est Virginia Code § 22-6A-16(c), n	Name:	undersigned	well operator has developed a planned
Name: CNX LAI Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on otate:	ND, LLC Consol Energy Drive 15317 Peby given: /est Virginia Code § 22-6A-16(c), nothe surface owner's land for the pur West Virginia	Name:	undersigned well on the tra Easting:	act of land as follows: 539567.996
Name: CNX LAI Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County:	ND, LLC Consol Energy Drive 15317 Peby given: /est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Marshall	Name:	undersigned well on the tra Easting: Northing:	act of land as follows: 539567.996 4418811.505
Name: CNX LAI Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County: District:	consol Energy Drive 15317 eby given: /est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Marshall Webster	Name:	undersigned well on the tra Easting: Northing: ccess:	act of land as follows: 539567.996 4418811.505 Dry Ridge Road-CR48
Name: CNX LAI Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County;	ND, LLC Consol Energy Drive 15317 Peby given: /est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Marshall	Name:	undersigned well on the tra Easting: Northing: ccess:	act of land as follows: 539567.996 4418811.505
Name: CNX LAI Address: 1000 Canonsburg, PA Notice is her Pursuant to W peration on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we surface affect information r neadquarters, gas/pages/def	eby given: //est Virginia Code § 22-6A-16(c), nothe surface owner's land for the pur West Virginia Marshall Webster Majorsville Wheeling Creek Shall Include: //est Virginia Code § 22-6A-16(c), to add by W. Va. Code § 22-6A-10(b) Il; and (3) A proposed surface use a delated to horizontal drilling may be located at 601 57th Street, SE, adult.aspx.	Name:Address: Address: Address: Otice is hereby given that the pose of drilling a horizontal and the pose of drilling a horizontal and the pose of drilling a horizontal and the compensation agreement and compensation agreement are extent the damages are content of the post of the pos	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be used to containing ar inpensable underly, at the WV	act of land as follows: 539567.996 4418811.505 Dry Ridge Road-CR48
Name: CNX LAI Address: 1000 Canonsburg, PA Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W o be provide norizontal we surface affect information r neadquarters, gas/pages/def	eby given: //est Virginia Code § 22-6A-16(c), nothe surface owner's land for the pur West Virginia Marshall Webster Majorsville Wheeling Creek Shall Include: //est Virginia Code § 22-6A-16(c), to add by W. Va. Code § 22-6A-10(b) Il; and (3) A proposed surface use a delated to horizontal drilling may be located at 601 57th Street, SE, adult.aspx.	Name:Address: Address: Otice is hereby given that the pose of drilling a horizontal UTM NAD 83 Public Road A Generally used to a surface owner whose and compensation agreement extent the damages are cone obtained from the Secretar Charleston, WV 25304 (3)	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be used to containing ar inpensable underly, at the WV	act of land as follows: 539567.996 4418811.505 Dry Ridge Road-CR48 CNX code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Name: CNX LAI Address: 1000 Canonsburg, PA Notice is her Pursuant to W peration on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we surface affect information r neadquarters, gas/pages/def	eby given: //est Virginia Code § 22-6A-16(c), nothe surface owner's land for the pur West Virginia Marshall Webster Majorsville Wheeling Creek Shall Include: //est Virginia Code § 22-6A-16(c), to add by W. Va. Code § 22-6A-10(b) Il; and (3) A proposed surface use a delated to horizontal drilling may be located at 601 57th Street, SE, adult.aspx.	Name:Address: Address: Address: Otice is hereby given that the pose of drilling a horizontal UTM NAD 83 Public Road A Generally used to a surface owner whose and compensation agreement extent the damages are come obtained from the Secretar Charleston, WV 25304 (3) Address:	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be used to containing ar inpensable underly, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-vyprive

Oil and Gas Privacy Notice:

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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

Jim Justice Governor

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,

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.

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AUG 6 2018

WV Department of Environmental Protection Very Truly Yours,

Gary K. Clayton

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

RECEIVED
Office of Oil and Gas

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

File

JUN 29 2018

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

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JUN 1,3 2018

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JUN 29 2018

n vi Dopariment of

EROSION & SEDIMENT CONTROL PLAN & SITE RESTORATION PLAN



MAJ10 WELL SITE

MARSHALL COUNTY, WEST VIRGINIA FOR



LANDOWNER	DISTURBANCE FROM ACCESS ROAD & STOCKPLES (ACRES)	DISTURBANCE FROM PAD & STOCKPILES (ACRES)
CNX JAND, LLC PARCEL V 15-11-13	4.76	NA
RALPH CURTS RIGGLE PARCEL # 15-11-20	0.68	N/A
CNX LAND, LUC PARCEL # 15-11-12	1.80	8.94
CNX LAND LLC PARCEL # 15-11-11	0.07	3.46





PROJECT NO. 15016-008

JUNE 2018

DIEFFENBAUCH & HRITZ, LLC



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2 THE CONTRACTOR SHALL ARREST & MINISH BY OF SIX MICHES MY OF TORONS 2. THE CONTRACTOR SHALL APPLY A MINIMUM OF SIX MICHES (BY OF TOPSOIL TO ALL EXCANTED AMO FILLED SURFACES THAT YILL RECEIVE PERMANENT SEEDING AND MULCHING. TOPSOIL SHALL CONSIST OF FRIBELE SURFACE SOIL REASONARY FREE OF DRASS, MICHOS, WELDS, STICKS, ROCKS, AND OTHER UNSURFABLE MATERIAL. THE SOURCE OF THE TOPSOIL SHALL SE EXISTING. STOCKEN ED TOPSON

3. SPREADING SHALL NOT BE CONDUCTED WHEN THE GROUND OR TOPSOIL IS PROZEN, EXCESSIVELY WET, OR OTHERWISE IN A CONDITION DISTRIMENTAL TO UNIFORM SPREADING OPERATIONS, SURFACES DESIGNATED TO RECEIVE A TOPSOIL APPLICATION SHALL BE LIGHTLY SCARFIED JUST PRIOR TO THE SPREADING OPERATION, WHERE CUMPACIFUL FARTH FILLS ARE TOPSON ED. THE TOPSON SHALL BE ELACED CONCURRENTLY WITH THE EARTHER! AND THE TOPSOL SHALL BE PLACED CONCURRENTLY WITH THE EMETHHILL AND SHALL BE BOADDE TO THE COMPACTED FILE WITH THE COMPACTING FOURPHERT, FOLLOWING THE SPREADING OPERATION. THE TOPSOIL SUPERACE SHALL BE LET REASONARY SMOOTH AND WITHOUT PUTS AND SUPFACE SPREGULARITIES THAT COULD CONTRIBUTE TO CONCENTRATED WATER FLOW

4. THE DRAWINGS IN THIS PLAN SET ARE A REPRESENTATION OF THE PROPOSED WELL PAD AND ADCESS HOAD, PROPOSED STRUCTURES SUCH AS THE ROADWAYS, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN THEIR AFPROXIMATE PREPLANNING CONFIGURATION, GIVEN UNPORTEGEN CIRCUMSTANCES THE AS-BUILT LOCATIONS OF THESE STRUCTURES MAY WARY SLIGHTLY FROM THE LOCATIONS SHOWN ON THIS PLAN.

E. ALL ROADS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AND GUAL. REMAINTAINED IN ACCORDANCE WITH THE WYDER OIL & GAS BING MAY ALL GULVERTS SHOWN ARE PROPOSED AND WILL BE A MINIMUM OF 12" UNLESS

8. THE FOLLOWING SPECIFICATION EXCERPTS ARE FROM NGES GEOTECHNICAL INVESTIGATION REPORT ONE PROJECT YOU WIT HIS DATED MODEWARE 2017. TO HE MAND WHE LISTE LOCATION IN MARGINAL COUNT WAST Y MORPHAL COUNTY WEST WRONAL COUNTY WEST WORK OF THE MAND COUNTY WEST WASTE OF THE MAND COUNTY WEST WASTE WASTE OF THE MAND COUNTY WAS THE MAND COUNTY WASTE WAS THE FILL SHOULD BE PLACED IN MAXIMUM BANCH THICK LOOSE LIFTS. FILL MAYERIAL USED SHALL HAVE A MAXIMUM PARTICLE SIZE OF 6 INCHES, EACH LIFE OF FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM DBIO), ALL FILL THE I BE MORTHURE CONDITIONED TO WITHIN THREE OF DEPORTAGE DON THE MATERIAL'S OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD

PRICEIO R TEST.

ROCK FLES HOULD BE PLACED IN MAXIMUM SCHICH COMPACTED LIFTS.

ROCK FLES HOULD BE PLACED IN MAXIMUM SCHICH COMPACTED LIFTS.

ROCK FLES HOULD BE TESTONE ROCK FLOOR PARTICLE SIZE OF 24 INCHES OF HARD.

BANDISTONIC OR SO TESTONE ROCK FLOOR WITE PLACED MORTE. EACH LIFT OR ROCK FLES PLACED AS THE PLACED AS THE THOROUGHLY COMPACTED USING A MINIMUM 20-TON.

APPLIED FORCE WASHINGTON FLOOR LIFT.

BRUSH AND / OR TIMBER REMOVED BY CLEARING AND GRUBBING ACTIVITIES WILL BE GUT UP, DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL HOWEVER, PORTIONS OF THE EXISTING / PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS CRAINS UNLESS OTHERWISE WARRANTED BY RIELD CIRCUMSTANCES

A CHIDD ENGLISH DESIGNACE AND LOG DEPOSENT ANATONI DICKS DESIGN A SUPPLEMENTAL DOWNARIE AND YOUR SETMENT CONTINUE WASSINESS WINDOWN ON THE PLANS WILL BE INSTALLED WINDOWN AND WHERE DEEMED MECESSARY. THE ADDITIONAL MEASURES MAY CONSIST OF COMPOST FILTER SOCK, SILT FENDES: OR OTHER MEASURES AS CUTLINED IN

9. ROCK CHECK DAMS ARE TO BE CONSTRUCTED DOWNSTREAM OF ALL CULVERTS AND CROSS BRAIN INJETS AS REQUIRED BY THE WY OIL & GAS BMP MANUAL, FIELD CONDITIONS BUCH AS ROCK OUTCROPS AND BEDROOK MAY PROHISIT INLET TRAPS FROM BEING INSTALLED, WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

10. CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION OF TH RATOR AND INSPECTOR PRIOR TO ANY DEVIATION OF THIS PLAN.

15. ENTRANCES AT COUNTY / STATE ROADS SHALL BE MAINTAINED IN ADDITIONANCE THE ENTRANCES AT COUNTY BY THE TRANSSISSAILS, WANTENING IN ACCORD WITH D.O.T. PROGRATIONS. SEPARATE PERHITS WAY BE REQUIRED BY THE WYDDOLA, STABLUZED ENTRANCE CONSISTING OF STORUSHED STONE WILL BE INSTALLED FOR A MINIMUM OF THE PROY THE DIGRESS AND ECRESS FORM OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH TWO OLS GAS BUT MANUAL.

12, CROSS DRAIAS AND / OR WATERBARS WILL BE INSTALLED AS AN INTEGRAL PART OF THIS RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH THE AS-BUILT ROADWAY SLOPES AND TABLE IN 4 OF THE WY EROSION AND SEDIMENT CONTROL FIELD MANUAL

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

SITE PREPARATION

RESIDEN DWEDARATEW ELEGIED PREAMATION
THE SECRETARY THE SECRETARY THE SECRETARY OF SECRET

EROSION AND SEDIMENT CONTROL GENERAL NOTES

WHERE EXPOSED SOIL SURFACES ARE NOT TO BE FINE-GRADED OR WORKED FOR PERIOD LONGER THAN 21 DAYS, TEMPORARY VERETATIVE COVER WITH SEDIMENT CONTROLS MUST BE ESTABLISHED, VEGETATION MUST BE ESTABLISHED ON ROAD BANK AND LOCATION SLOPES WHEN RECLAMATION CANNOT BE COMPLETED WITHIN THE PRESCRIBED 6 MONTHS. APPLY SEED BY BROADCASTING BRILLING, OR HYDRAULIC APPLICATIONS ACCORDING TO THE SATE INDICATED IN THE TABLE NELOW, PERFORMALL PLANTING OPERATIONS AT RIGHT ANGLES TO THE SLOPES.

TEMPORARY	SEEDING	FOR	DRITTERAL	AREAS

SEEC	RATES IN LUS. PER ACRE	RECOMMENDED DATE
ANNUAL RYEGRASS	40	MAR 1 TO JUNE 15 AUG 15 TO SEPT 15
FIELD BROMEGRASS	40	MAR 1 TO JUNE 15 AUG 15 TO SEPT 15
SPRING CATS	96	MARCH 1 TO JUNE 15
SUGANGRASS.	40	MAY 15 YO AUG 15
WINTER RYE	108	AUG 15 TO OCT 15
WINTER WHEAT	180	AUG 15 TO NOV 15
JAPANESE MILLET	30	JUNE 15 TO AUG 15
REDTOP		MARCH 1 TO JUNE 15
ANNUAL RYEGRASS	28	MARCH 1 TO JUNE 15
SPRING CATS	64	MARCH 1 TO JUNE 16

NOTE: THESE RAYER SHOULD BE INCREASED BY 50% IF PLANTED APRIL 15. AUGUST 1 AND OCTOBER 1 - MARCH 1

BUSIDIATIONS WHERE ANOTHER COVER IS DESIRED, DONTAGE THE LOCAL SOIL CONSERVATION DISTRICT FOR SEEDING RECOMMENDATIONS. APPROVAL OF THE OIL AND GAS INSPECTOR IS NEEDED.

PLANTING OF PERMANENT VEGETATIVE COVER SHALL BE PERFORMED ON ALL DISTURBED AREAS WHERE NO FURTHER SOIL DISTURBANCE IS ANTICIPATED OR NEIDED, PLANTING OF PERMANENT VEGETATIVE COVERS MUST BE PERFORMED ON ALL DISTURBED AREAS AFTER THE COMPLETION OF THE DRILLING PROCESS, ANY SITE THAT CONTAINS SIGNIFICANT AMOUNTS OF TOPSOL, SHALL HAVE THE TOPSOL REMOVED AND STOCKPILED WHEN FEASIBLE LIME AND PERTUZER BATES SHALL SE APPLIED TO ALL PERMANENT SEEDING AT THE TIME OF SEEDING PREFARATI

PERMANENT SEEDINGS FOR ALL DISTURBED AREAS

SEED	PER ACRE	SOL DRAINAGE PREFERENCE	pH RANGE	
CROWNVETCHV TALL PESCUE	10+15	WELL - MCD, WELL		
CROWNVETCH/ PERENNIAL RYEGRASS	10-15 20	WELL - WOD, WELL	5,0-7,5	
FLATPEA OR PERENNIAL PEA/TALL FESCUE	20 18	Latter and L	1000	
LADINO CLOVER/ SERECIA LESPEDEZA/ TALL FEBOUE	30 25 Z	WELL - MOB. WELL	5.6-7.5	
TALL PERCUE! LADING CLOVER!	40 3 3	WEST - MOD' METT	4,0-8,0	
CROWNVETCH/ TALL FEBDUE/ REDTOP	25	WELL-MOD, WELL	4,5-7,5	
TALL FESCUE BIRDSFOOT TREFOIL AEDTOP	10	WELL - MOD, WELL	3,0-7,5	
SERICEA LESPEDEZA/ TALL FESCUE/ REDTOP	25 30 3	WELL - MOD, WELL	4.5-7.5	
REDTOP/ TALL FEBOUE/ CREEPING RED	30 50	WELL+MOD, WELL	3,0-7,5	
VALL FEBCUE	50	WELL-POORLY	4,5-7.5	
PERENNIAL RYEGRASS/ TALL FESCUE/ LATHOO FLATPEA	10 15 20	WELL-POORLY	5.8-8.0	

MIXTURES IN THE TABLE BELOW ARE MORE WILDLIFE AND FARM FRIENDLY

SEED	SEED RATES IN LIST. PER ACRE.		PHRANGE	
KY BLUEGRASS / REDTOP / LADING CLOVER OR BIRDSFOOT TREFOIL	26 3 2/10	WELL - MOD. WELL	55 - 7.5	
ALFALTA	5	WELL-MOD, WELL	8.9-8.0	
TIMOTHY I BIRDSFOOT TREFOR	5 8	WELL - POORLY	8.6 - 7.5 8	
ORCHARDGRASS / LADINO CLOVER / REDTOP	10 2	WELL - MOD, WELL	5.6 - 7.5	
DRCHARDGRASS / LADING CLOVER	10	WELL - MOD, WELL	5.5+7.5	
DRCHARDGRASS / PERENNIAL RYEGRASS	20 10	WELL - MOD, WELL	5.5-7.5	
PERENNIAL RYEGRASS	30	WELL - MOD, WELL	5.5 - 7.5	
ORCHARDGRASS OR KENTUCKY BLUEGRASS	20	WELL-MOD WELL	6,0 - 7.5	
BIRDSFOOT TREFOL:	10 5	WELL - MOD, WELL	6.6 - 7.5	
LATHCO FLAT PEA / PERENNIAL RYEGRASS	20 20	WELL - MOD, WELL	5,5 - 7,5	
LATRICO FLAT PEA / ORCHARDGRASS	30	WELL-MOD, WELL	5.6 - 7.5	

NOTE: MIXTURES LISTED IN BOLD ARE SLITABLE FOR USE IN SHADED WOODED SETTINGS. THOSE IN ITALICS ARE SUITABLE FOR USE IN FILTER STRIPS. 1 ATHOR: FLATPEA IS POTENTIALLY POISONOUS TO SOME LIVESTOCK.

ALL LEGUMES SHOULD BE PLANTED WITH PROPER INDOLLATES PRIOR TO SEEDING. POR UNPREPARED SEEDBEDS OR SEEDINGS OUTSIDE THE OPTIMUM TIME FRAMES ADD 50% MORE SEED TO THE SPECIFIED SATE

LIME AND FERTILIZER APPLICATION TABLE

pH OF SOL	LIME IN FONS PER ADRE	FERTILIZER, LBSVADRE 10-20-20 OR EQUIVALENT
ABOVE 6.0	2	500
5,0 70 6,0	3	500
BELOW 5.0	4	.500

THE IN CAN BE DETERMINED WITH A PORTABLE OF TESTING KIT OR BY SENDING THE SOIL SAMPLES TO A SOIL TESTING LANGRATORY. WHEN A TONS OF LIME PER ACRE ARE APPLIED IT MUST BE INCORPORATED INTO THE SOIL. BY TISKING BACKELADING OF TRACKING UP AND DOWN THE SLOPE

DEPENDING ON THE FIELD SITUATION, MULCH IS TO BE ANCHORED MECHANICALLY OR WITH MULCH NETTING

APPLY MIA CHANCELET A MITCH ANCHORROFTCOL OVER THE MITCH, WHEN A DISK IS USED, SET THE DISK STRAIGHT AND PULL ACROSS THE SLOPE. MULCH MATERIAL RHOULD BE TUCKED INTO THE SOIL APPROXIMATELY THREE INCHES.

FOLLOW MANUFACTURER'S RECONMENDATIONS WHEN POSITIONING AND STADI ING THE MULICH NETTING TO THE SOL SUBSACE.

MED CHIMATERIALS RATES AND USES

MATERIAL	MINIVUM RATES PER ACRE	COVERAGE	REMARKS	
WARTE FO VAH	2 TO 3 TONS	F. Carrier	SUBJECT TO WIND	
	100 TO 150 BALES	75% TO 80%	BLOWING OR WASHING UNLESS TIED DOWN	
WCOD FIBER		ALL DISTURBED AREAS	FOR HYDROSEEDING	
PULP FIBER	1000 TO 1500 LBS			
WOOD-CE_LULOSE	1000 100 1000 1000			
RECIPICULATED PAPER		A		

C. CONSTRUCTION SEQUENCE

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

2.COMPOST FILTER SOCK, (SUPER) SILT FERCE, AND OTHER EROSION AND SEDIMENT CONTROL DEVICES, AS REGUSED BY THE EROSION AND SEDIMEN CONTROL PLAN AND DISTATED BY FILED CONTROLS, ARE IT DE INSTALLED PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITY ON THE SITE.

SCONSTRUCTION ACTIVITY WILL BEGIN WITH THE CLEARING 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 GRUBBED FOLLOWING INSTALLATION OF ANY EROSION & SEDIMENT CONTROL DEVICES.

TRANSPORTED STATE AND PLACE IN STROCKINE.

RESTALLATION OF THE BEACHES.

RESTALLATION OF THE BEA

AWEL PAR DONSTRUCTION WILL CONSIST OF PERMONE TORSOL, MAN PLACE HISTOCHPIES 48 OIN CATTFAL PROCESS ON THE PAD LOCATION INCLUDING NOTAL ACTION OF TOP SERVICES HISTAL COLLECTION DITCH #1 8, 82 HISTAL COLLECTION DITCH #1 8, 82 HISTAL REPREPAPATIONS IN \$7, 85, AND THEIR RESPECTIVE

-DELTALE REPEON PATONS BIS, 47, 85, 470. I TERRE RESPECTIVE REPRAP CHARMALS REPRAP CHARMALS ASSOCIATED PHPMO HISTALL WILL PAD SUMPS AND ASSOCIATED DRAVEL WILL BE PLACED ON THE ACCESS FOR DAYOR AND BATTES SOIL AREAS WILL BE FEBRUAGED AND PERMANENTLY SECRED AND BATTES SOIL AREAS WILL BE FEBRUAGED AND PERMANENTLY SECRED AND MILL DELTA PERMILLED AND PERMANENTLY SECRED AND MILL DELTA PERMILLED AND MILL DELTA PERMILLED AND MILL DELTA PERMILLED AND MILL DELTA PERMILLED AND MILL DELTA PERMANENT PERMILLED AND MILL DELTA PERMANENT PERMILLED AND MILL DELTA PERMANENT PERM

7. TEMPORARY EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL A UNIFORM 7/1 DEBORNT VERSETATIVE COVER IS ESTABLISHED.



D. TEMPORARY CONTROL MEASURES AND FACILITIES

BENERAL - SEE PLANS AND DETAILS FOR PROPOSED LOCATIONS AND

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 SHADEDOUG DENING CONDITIONS AND INCOME PHONE WHEN IT DANKS CONSTRUCTION ENTRANCES ARE STABILIZED TO REDUCE THE AMOUNT OF SEDMENT TRANSPORTED ONTO PAVED ROADS BY VEHICLES OR EQUIPMENT BY CONSTRUCTING A STABILIZED PAD OF STONE AT ENTRANCES TO CONSTRUCTION SITES.

A COMPART OF THE BOOK - SHALL BE IT ACCOUNTED THE SUBJECT OF THE DISTURBED AREAS AS SHOWN ON THE ERCOIDN AND SEC CONTROL PLAN AND IN ACCORDANCE WITH THE EROSION AND SECIMENT CONTROL PLAN DETAILS.

4. ROCK CHECK DAM - SMALL TEMPORARY DAMS MAY BE CONSTRUCTED ACROSS A WATERWAY AS NECESSARY TO REDUCE THE VELOCITY OF STORMWATER FLOWS, THEREBY REDUCING EROSION OF THE CHANNEL AND TRAPPING SEDIMENT.

E. MAINTENANCE OF TEMPORARY CONTROL MEASURES AND FACILITIES

A THE MAINTENANCE FOR THE DECLECT PHAIL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL BE RESPONSILE FOR THE CONTROLOUS MAINTENANCE OF ALL FAS MEASURES AND DIRACES FOR THE CHRATION . E. MAINTENANCE / CONTRACTOR'S DESDOUGHD HIPS OF THE PROJECT AND UNTIL THE AREA IS STABILIZED WITH A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER.

II. THE CONTRACTOR SHALL INSPECT ALL ERGSION AND SEDIMENT CONTROLS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WHUS TWENTY FRUID 1241 WYING AFTER ANY STORM EVENT DEPATER HAN ONE HALF (9.5) INCH IVER TWENTY-FOUR (24) HOUR PERIOD, ANY DEVICE FOUND TO BE CLOGGED, DAMAGED HALF-FULL OF BILT OR NOT FULLY ORGBATIONAL PHALL DE CLEANED OF ALL DERDIS, THE SOLID WASTE SPOSAL IS THE RESPONSIBILITY OF THE CONTRACTOR, ALL DUPOSITED SECIMENT FROM THE TRAP SHALL BE REMOVED AND SPREAD ACCORDINGLY.

A THE ENTRANCE SHALL HE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, THIS MAY REQUIRE PERIODIC TOP CRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND J OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT, ALL SECIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REVIOUED IMMEDIATELY

B. WHEELS ON ALL VEHICLES SHALL BE CLEANED TO REMOVE SECUMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY, IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED. WITH STONE AND WHICH DRAINS INTO APPROVED SEDIMENT TRAPPING DEVICE. IF THE STREET IS WASHED FRECAUTIONS MUST BE TAKE! TO PREVENT MUDDY WATER FROM RUNNING INTO WATERWAYS OR STORM SEWERS

D, INSPECTION AND NEEDED MAINTENANCE SHOULD BE PROVIDED DAILY BUT AT A MINIMUM EVERY SEVEN DAYS AND AFTER EACH RAINFALL EVENT OF O.S INCHES OR GREATER

S COMPOST FAITER BOOK

A, INSPECT COMPOST FILTER SOCK AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT OF BUT INCHES OR GREATER. MAKE ALL REQUIRED

B. ACCUMULATED SEDIMENTS SHALL BE REMOVED AS REQUIRED TO ACCUMULATIONS REACH 1/2 THE ABOVE - ORDUND HEIGHT OF THE SOCK.

C. SEDIMENT COLLECTED FROM THE EROSION CONTROL STRUCTURES SHALL BE PLACED UPSTREAM OF THOSE CONTROLS AND IMMEDIATELY STABILIZED WITH BEED AND AN ANCHORED MULICH OR HAULED OFFERTH TO A DISPOSAL AREA WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.

D. ADHERE TO MANUFACTURER'S RECOMMENDATIONS FOR REPLACING COMPOST FE TER SDCK DUE TO MEATHERING.

FALURE DUE TO CONCENTRATED SURFACE FLOW SHALL BE INMEDIATELY REPLACED WITH A NEW SECTION OF COMPOST FILTER BOOK OF THE SAME DIAMETER FOR THE LENGTH OF COLLAPSED AREAS.

E AFTER THE CONTRIBUTING DISABNAGE AREA HAS BEEN PERMANENTLY. STABILIZED REMOVE ALL SCOK MATERIALS AND UNSTABLE SEDIMENT DEFORITS, BRING THE DISTURBED AREA TO GRADE AND STABILIZE.

4. BOOK CHECK DAMS

A. WASPECT EACH CHECK DAM ONCE EVERY WEEK AND AFTER ANY PANIEAL I PUENT CE OS INCHES OR GREATER

B. REPLACE STONE AND REPAIR DAMS AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT AND CONFIGURATIONS.

PRINTING ARTHUR ACCURATIONS FROM BEHAND THE CHECK DAMS WHEN IT HAS ACQUINCLATED TO ONE HALF OF THE CRIGINA HEIGHT OF THE DAM, SEDIMENT COLLECTED FROM THE EROSION CONTROL STRUCTURES SHALL BE PLACED UPSTREAM OF EROSION AND SECRET CONTROLS AND IMMEDIATE Y STARR ITED WITH SECO AND AN ANCHORED MULCH OR HAULED OFFISITE TO A DISPOSAL AREA WITH AN APPROVED EXCISION AND SEDWENT CONTROL PLAN

S SUPER BUT FENCE

A. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL, DALLY DURING PROLONGED RAINFALL AND ONCE A WEEK DURING DRY PERIODS, ANY REQUIRED REPAIRS SHALL BE MADE

B. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SIL EDNOT DUSTILLING FIND FUND BUNS AND UNDERCUTTING, IF THE FENCE IS NOT INSTALLED PERPENDICULAR TO THE FLOW OF THE WATER, THESE CONDITIONS WILL DOCUR,

C. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE. THE FABRIC SHALL BE PROMPTLY REPLACED.

APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

CONTRACTOR SHALL IMPLEMENT THE EROSION AND SECIMENT CONTROL PLAN IN ACCORDANCE WITH THE DRAWINGS AND PROJECT NARRATIVE

ALL SACE THEY SHALL BE INDEEDTED AND DEPAIDED HE NECESSARY AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN TWENTY-FOLIN (24) HOURS AFTER ANY STORM EVEN GREATER THAN ONE HALF (0.5) WICH BER TWENTY-FOUR (24) HOUR PERIOD, ALL PREVENTATIVE MAINTENANCE PER TWENTY-FOUR (25) HOUR PERIOD, ALL PREVENTATIVE MAINTENANCE WORK, INCLLIDING CLEAN OUT, REPAIR, REPLACEMENT, REGALOING, RESEROING, REMULCHING, AND ANCHORING OF THE MULCH SHALL BE PERFORMED IMMEDIATELY. SEDIMENT COLLECTED FROM THE BROSION CONTROL STRUCTURES SHALL BE PLACED UPSTREAM OF THOSE CONTROL AND HAVE DIATELY STARS (ZED WITH SEED AND AN ANCHORED MARCH OR HALA ED OFFSITE TO A DISPOSAL AREA WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN

3 AT NO TIME WILL SCHIMENT, AND DUNCE HE ALLOWED TO LEAVE THE SITE AND ENTER WATERS OF THE STATE WITHOUT PRIST FASSING THROUGH A SECIMENT FILTERING DEVICE, IF ERCSION CONTROL FACILITIES FAIL TO PERFORM AS EXPECTED, ALTERNATIVE FACILITIES OR MODIFICATIONS OF THOSE FACILITIES INSTALLED WILL BE REQUIRED.

L PERMANENTLY BEEDED AREAS THAT BEDDINE ERODED SHALL HAVE THE TOPSOIL REPLACED. THE ERGSION CONTROL MATTING REPLACED OF APPLICABLE; SEED AND MULCH REAPPLIED AND ANCHORED. HE EROSION PERSISTS, THE AREA SHALL BE FITHER

5. A COPY OF THE APPROVED EROSION 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 BUILES AND REGULATIO OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AS AUTHORIZED UNDER THE CLEAN STREAMS LAW), IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT THESE METHODS, I'LLIS ADDITIONAL METHODS, AS MAY BE NECESSARY BECAUSE OF CONDITIONS CREATED BY LOCALIZED SITE CONDITIONS AND LOB CONSTRUCTION PROCEDURES N ORDER TO ASSURE COMPLIANCE WITH APPLICABLE LAW, IT WILL FURTHER BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION AND SEDMENT CONTROL FACILITIES SO THAT THEY PERFORM AS REQUIRED BY APPLICABLE LAW.

7. FINES AND RELATED COSTS RESULTING FROM THE CONTRACTOR'S FALURE TO PROVIDE ADEQUAYS PROTECTION AGAINST SOIL EROSION AND FOR ANY VIOLATIONS OF THE CLEAN STREAMS LAW AND THE RULES. AND REGULATIONS PROMULBATED THEREUNDER SHALL BE BORNE BY

G. RECYCLING AND DISPOSAL METHODS.

1. REMOVE WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF THE SITE TO A WINDER APPROVED. DUMP BITE. SEPARATE REDYCLAIN E MATERIALS PRODUCED DURING SITE O EARING FROM OTHER WON-RECYCLARLE MATERIALS, STORE OR STOCKPUR WITHOUT INTERMINING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES, MATERIAL TO BE REMOVED SHALL BE REMOVED AS NEEDED AND SHALL NOT BE ALLOWED TO ACCUMULATE AT THE SITE.

1. REASONABLE ACCESS SHALL BE PROVIDED 10 PERSONS WISHING TO ACCESS THE EXISTING CEMETERY ADJACENT TO THE WELL PAD IN ACCORDANCE WITH WY CODE 37-13A-1

MALA BKB

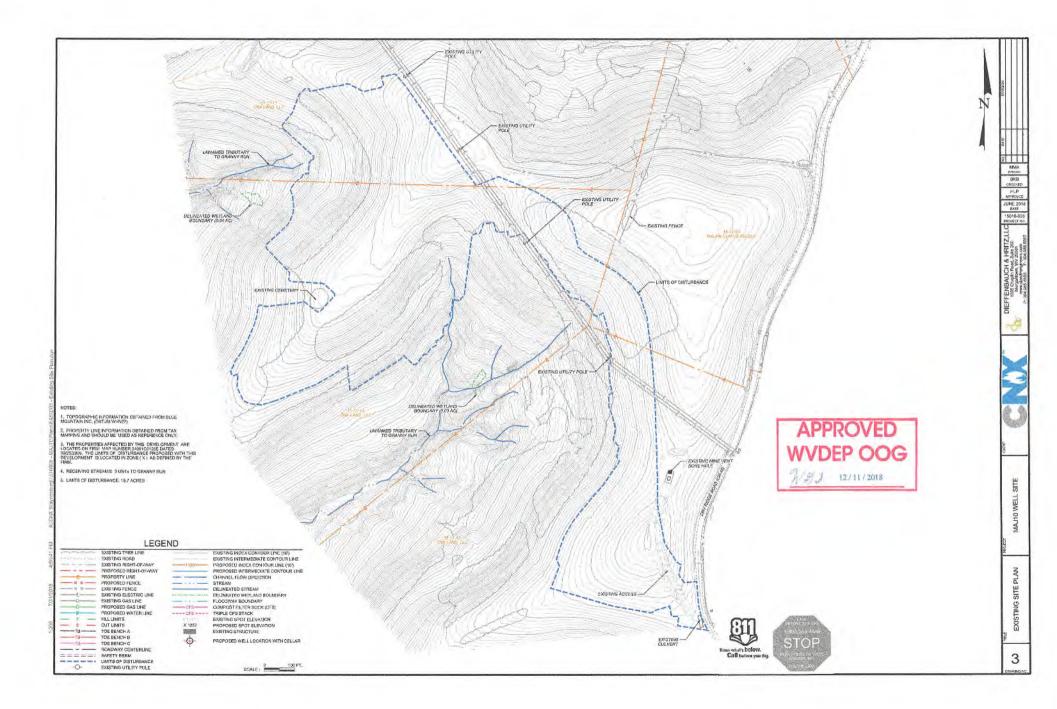
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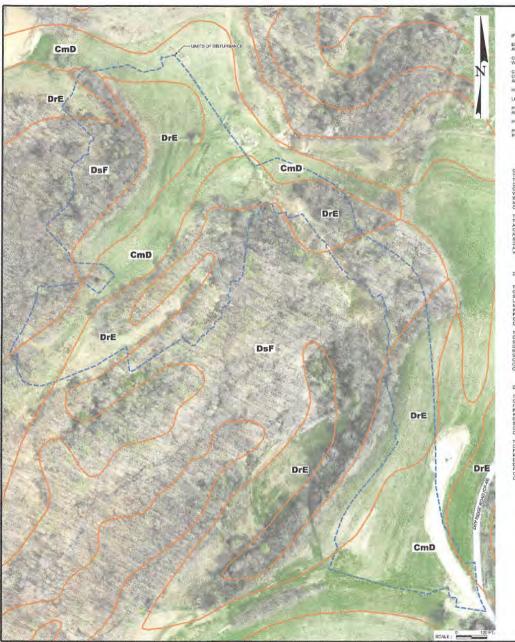
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SOIL RESOLUTION METHODS

IF THESE RESTRICTIONS ARE ENCOUNTERED, THE FOLLOWING RESOLUTIONS WILL BE FOLLOWED.

EROCHBLE: USE ACCEPTABLE EROSION CONTROL BLANKETS AND ATTAIN 10% VEGETATIVE COVER ON ALL CUT AND FILL SLOPES.

CUTBANKS CAVE: FOLLOW OSHA 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, IT WILL BE REMOVED AND PROTECTED OR THE CORROSIVE SOIL WILL BE REMOVED AND REPLACED WITH ACCEPTABLE AMERICAL.

HIGH WATER TABLE: ALL WATER ENCOUNTERED SHALL BE TREATED USING ACCEPTABLE EASIMPS. LOW STRENGTH: CUT AND RELISIONES SHALL BE SLOPED NO STEEPER THAN 2:1.

PIPING: SCILS 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 AND WETLANDS WILL BE AVOIDED.

THE DURING TO SOME THIS SUCLUSER NOT MEET HYDROCHITIERIA.

THE DURING TO COMPONENT ELECTROPHER AND IS TO SEPROMENT THE OFFICE OF THE PARKET MATERIAL CONSISTS OF PROFILONAY RESIDUAL WEATH-RED FROM MAISTONE, SANDSTONE AND SHALE SHAPE TO A DOOR TESTIONE LAVERS SO GRAFILES THAN SO MOVIES, THE NUTLIAL DAMANGE AND SHAPE TO A DOOR THE STREET TO A DOOR THE TOWN THE TOW

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SITE MAJ101

SOILS

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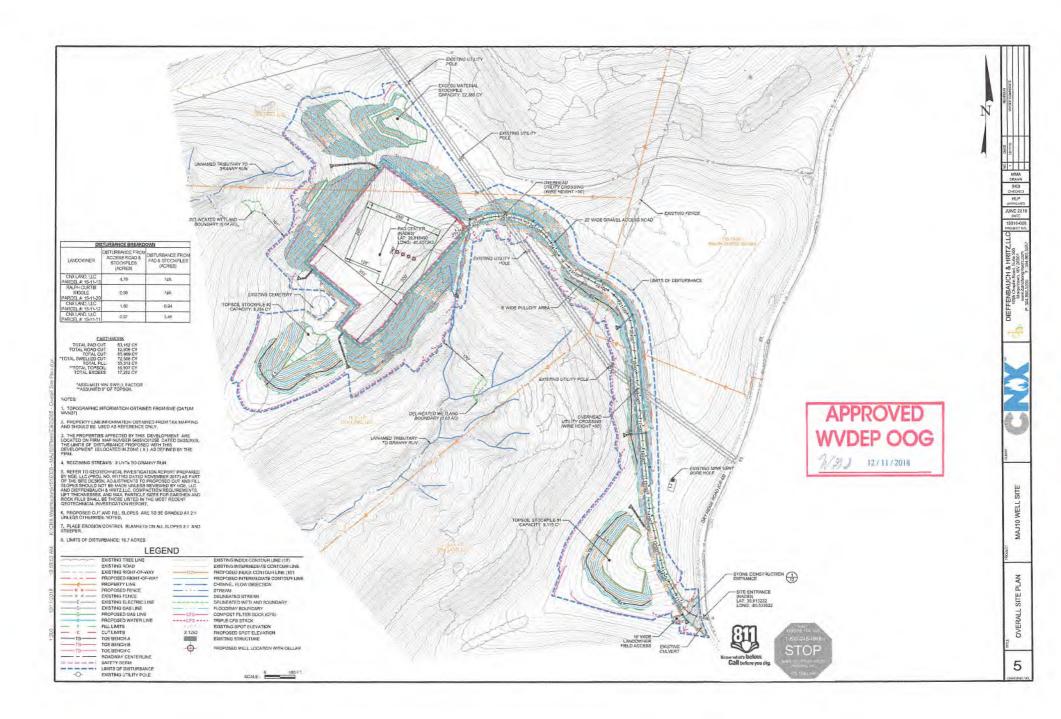
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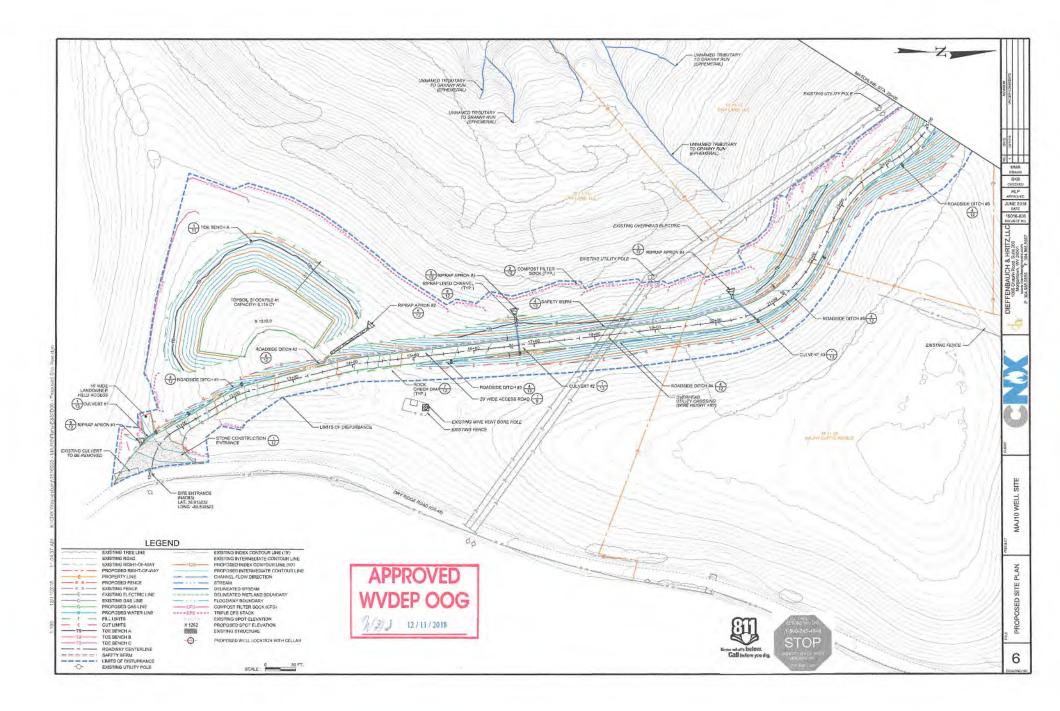
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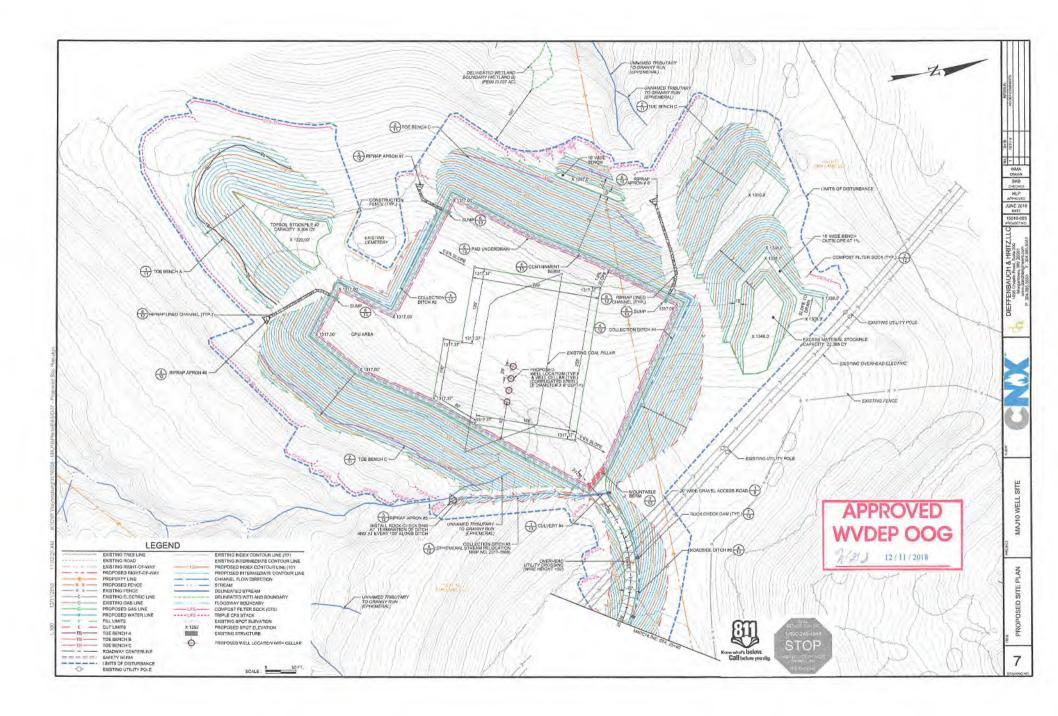
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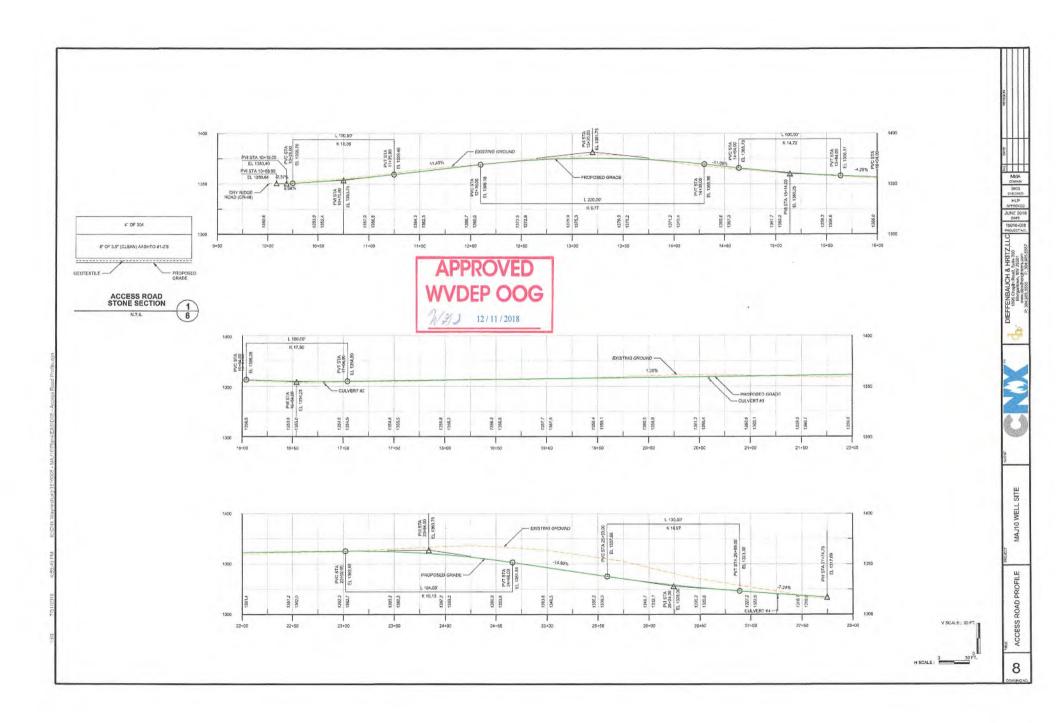


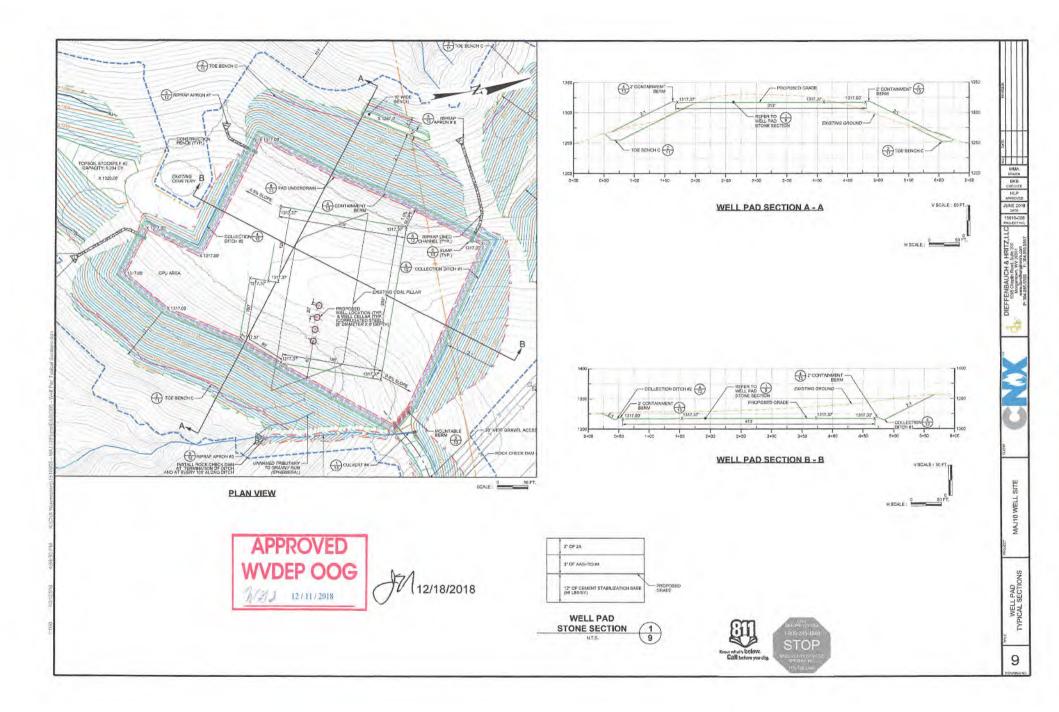
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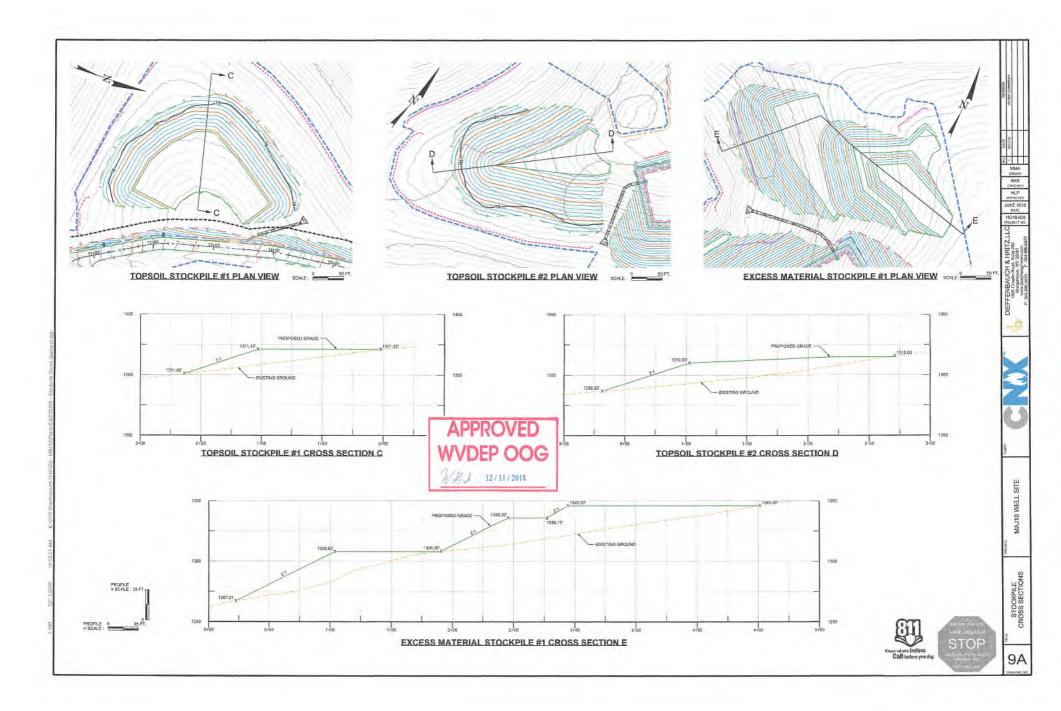


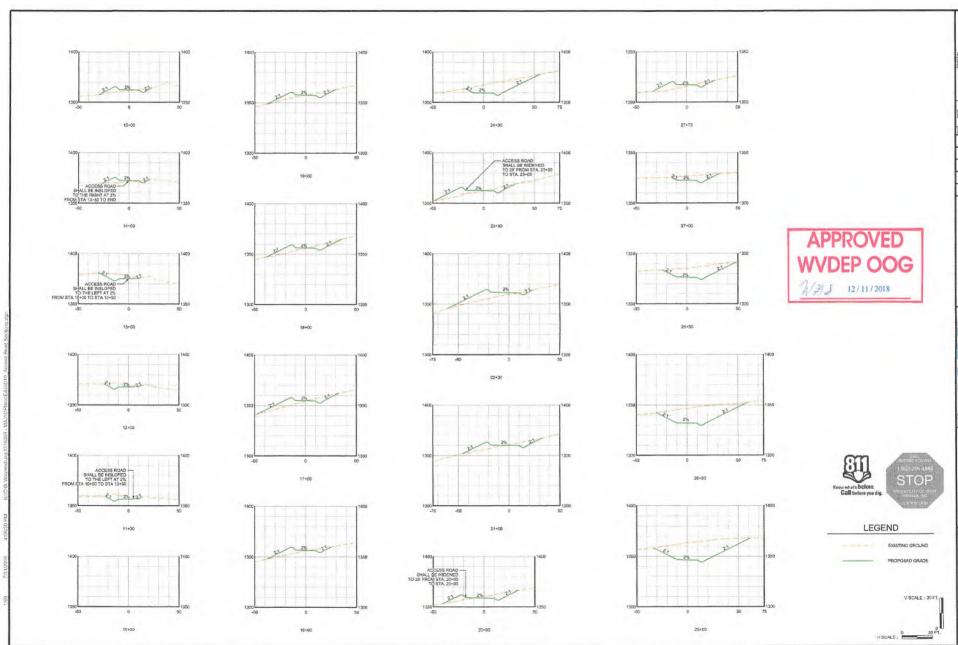












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AJ10 WELL SIT

ACCESS ROAD CROSS SECTION

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MMA DRAWN

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SITE

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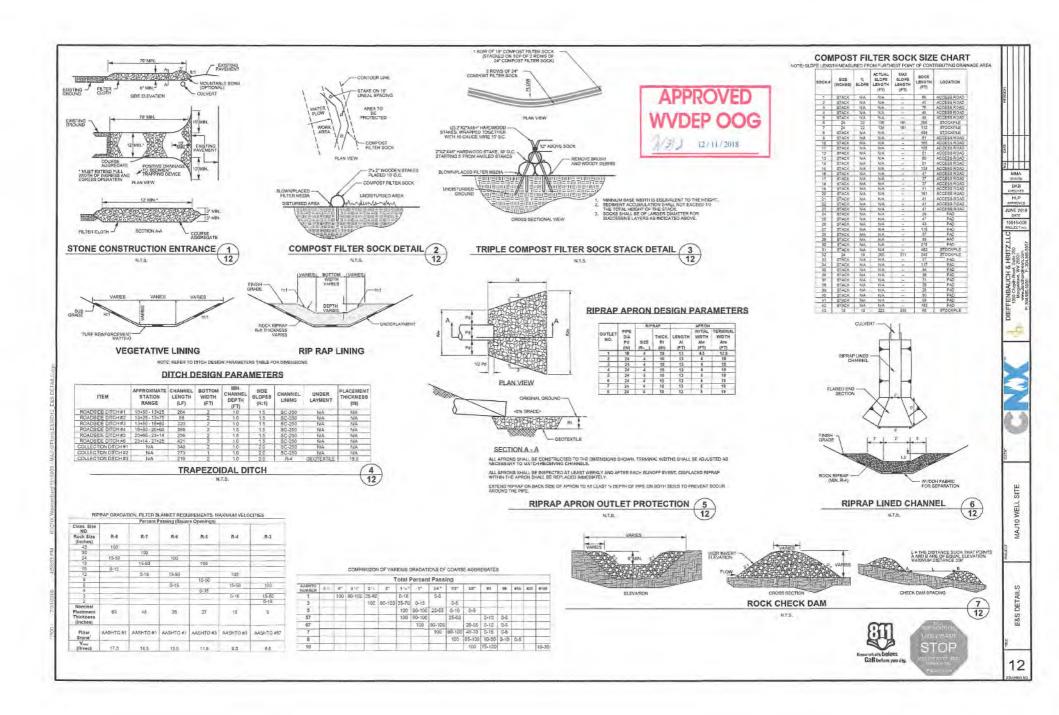
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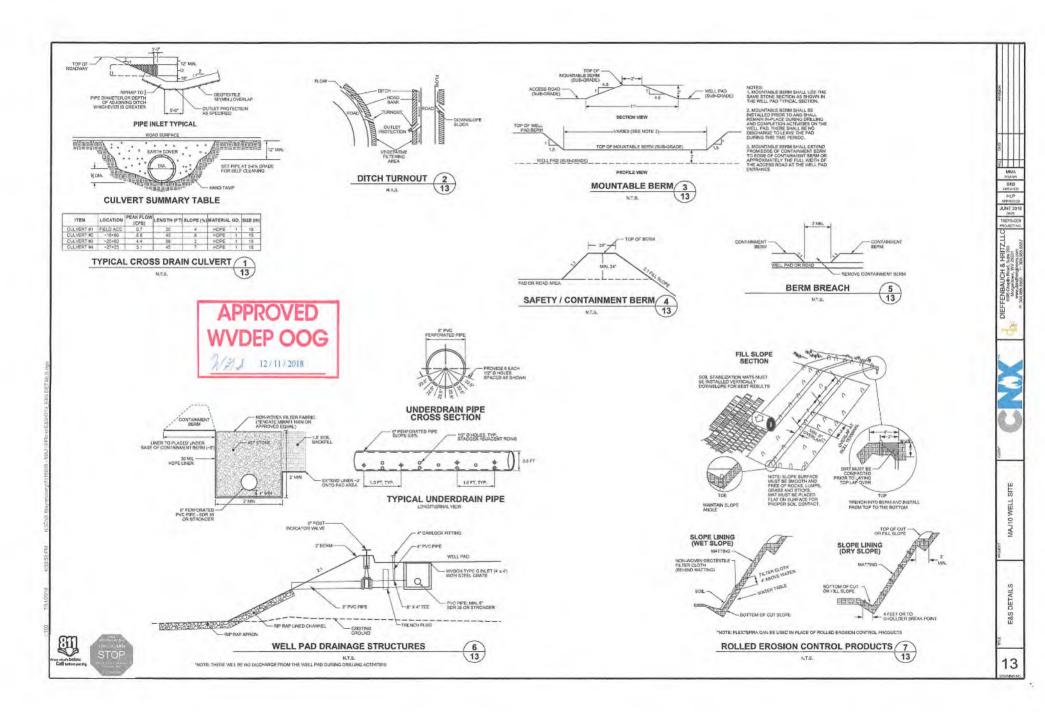
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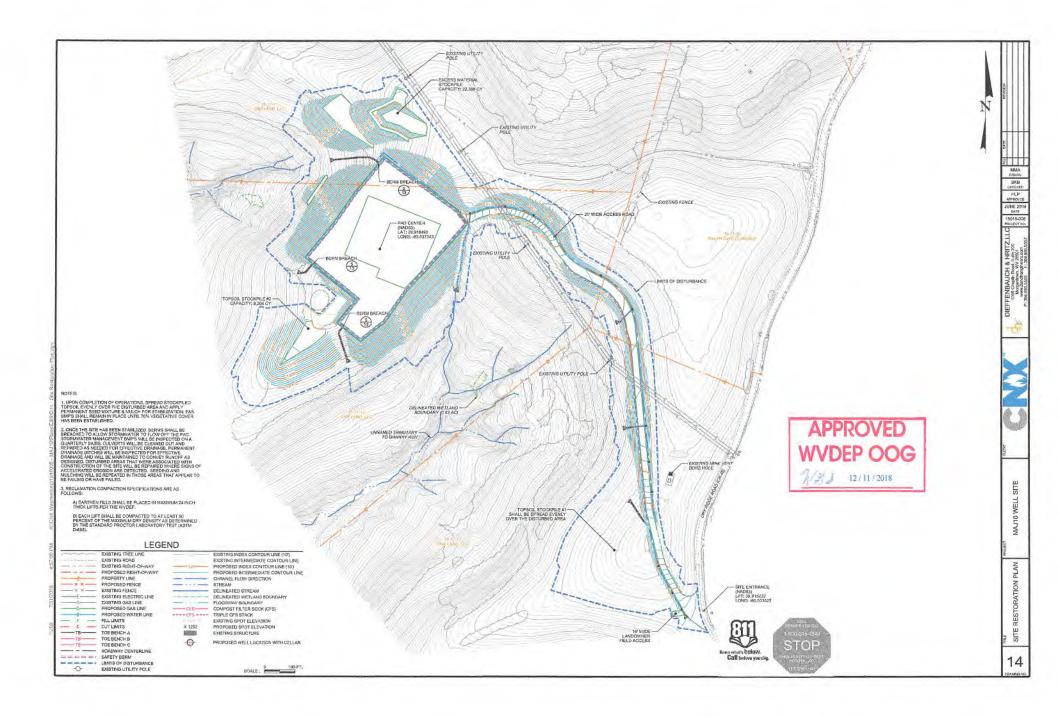
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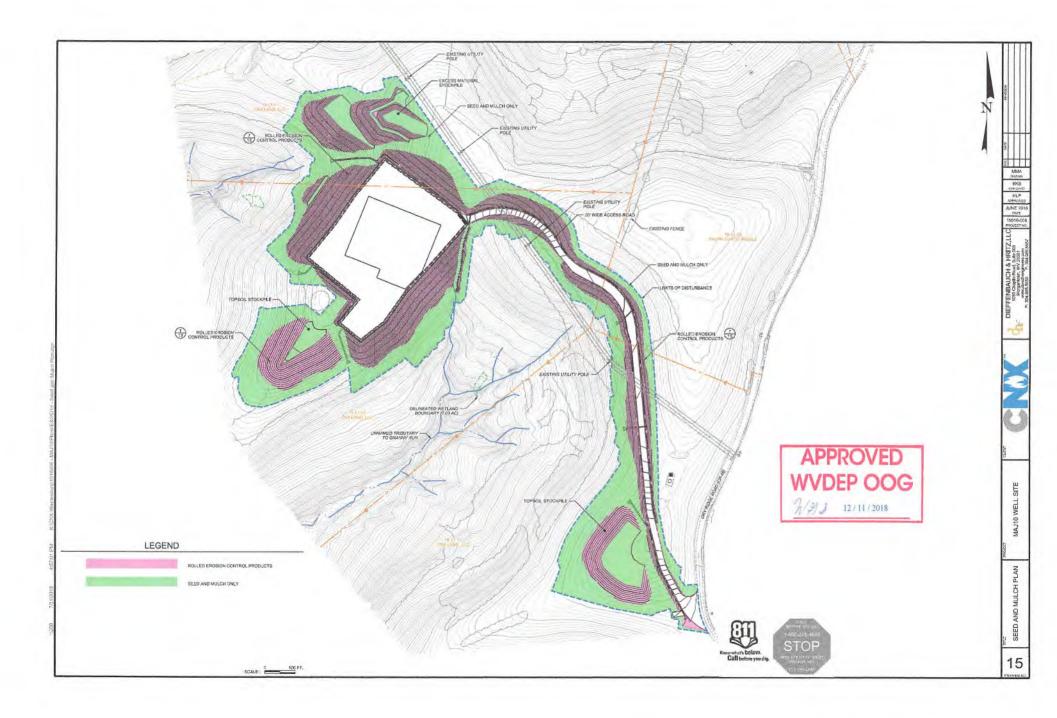
(3)(B)

1 EXCAVATE A MINIMUM 15 FEET WIDE FOUNDATION BENCHITDE KEY TO BEDROCK. DRAINAGE STONE SHOULD CONSIST OF AASHTO #57. COARSE AGGREGATE.











Pad Constuction Quantity Summary and Cost Sheet		
AFE: SITE: DATE:	MAJ10 Well Site	
Description	Units	Quantity
1. Clearing & Grubbing		
A. Clearing (Trees & Misc.)	AC	7.08
B. Mowing	AC	12.62
2. Erosion & Sedimentation Controls		
A. 18"	LF	3,561
B. 24"	LF	7,648
3. Excavation		
A. Access Road Excavation	CY	12,806
B. Pad Excavation	CY	53,162
C. Topsoil	CY	15,907
D. Ditch	LF	2,538
4. Toe Bench		
A. Toe Bench Excavation	CY	51,531
B. Toe Bench Drains (6" Perforated Pipe - SDR 35)	LF	2,428
C. Bonding Bench Drains (6" Perforated Pipe - SDR 35)	LF	3,383
D. Toe Bench Aggregate (AASHTO #57)	TN	3,597
E. Bonding Bench Aggregate (AASHTO #57)	TN	238
F. Toe Bench Geotextile	SY	8,633
G. Bonding Bench Geotextile	SY	1,879
5. Stormwater		
A. Rip Rap (Aprons & Lined Channels)	TN	247
B. Pad Underdrain (6" Perforated Pipe - SDR 35)	LF	1,640
1. 30 Mil HDPE Liner	SY	3,171
2. Aggregate (AASHTO #57)	TN	814
3. Geotextile	SY	3,972
C. Sumps	EA	3
D. Sump Gate Valves (8")	EA	3
E. Sump Outlet Pipes (8" PVC)	LF	33
F. 18" HDPE Culverts	LF	166
6. Aggregate Surface (Pads & Road)		
A. 4" of 304 (Access Road)	*CY	509
B. 8" of 3.5" (clean) AASHTO #1-2s (Access Road)	*CY	1,018
C. Geotextile (Access Road)	SY	4,580
D. 2" of 2A (Pad)	*CY	884
E. 3" of AASHTO #4 (Pad)	*CY	1,327
F. Cement Stabilization (Pad)	SY	15,919
7. Finishing & Misc.		
A. Seed and Mulch	AÇ	15.50
B. Erosion Control Matting (or Flexterra)	SY	42,237
C. Roadside Ditch Underlayment (Geotextile)	SY	151
D. Roadside Ditch R-4	TN	151
E. Ditch Lining (SC-250)	SY	1,759
F. Gate	EA	1