

#### west virginia department of environmental protection

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

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

Monday, July 16, 2018 WELL WORK PERMIT Horizontal / New Drill

CORE APPALACHIA OPERATING LLC 414 SUMMERS STREET

CHARLESTON, WV 25301

Re: Permit approval for 828040 47-043-03582-00-00

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: 828040

Farm Name: HAROLD & DELORES DINGES

U.S. WELL NUMBER: 47-043-03582-00-00

Horizontal New Drill Date Issued: 7/16/2018

## **PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

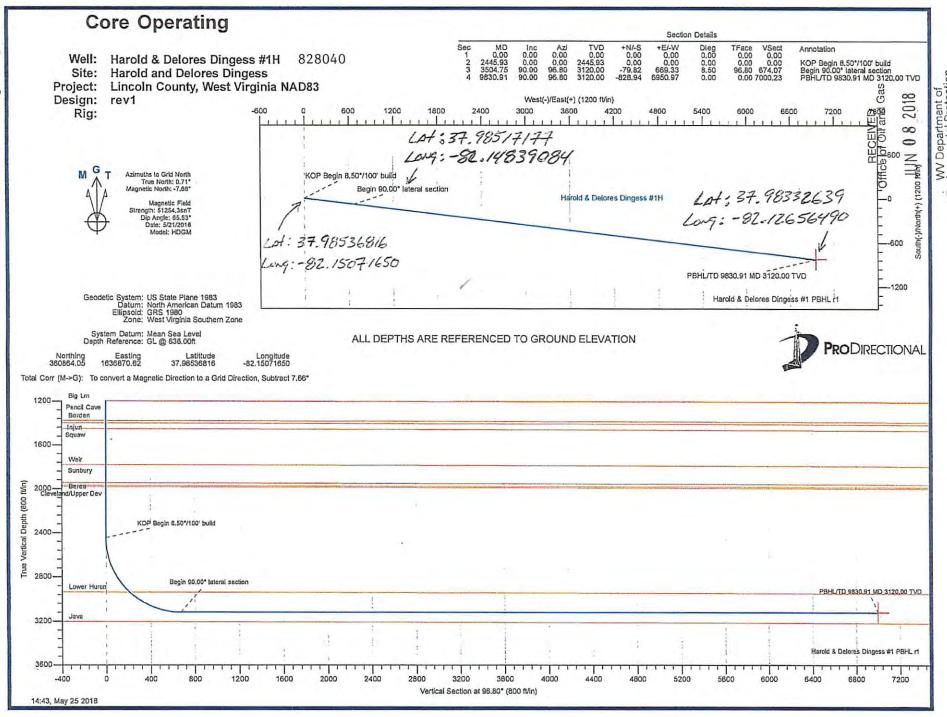
### **CONDITIONS**

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)

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

1) Well Operato	or: Core	Appalach	nia Operating, LLC	494518671	Lincoln	Harts Creek	Trace
				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Numb	per: 82804	10		3) Elevation:	636'	
4) Well Type: (a	a) Oil	or Ga	as X				
(k	b) If Gas:	Produ	iction X / Unde	erground Sto	orage	-	
		Deep	o/ Sh	allow X			
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	otal Depth fresh wa	i: 9831 MD iter strata		ormation at I	Proposed Tar Proposed Tota	al Depth: Devor	nian Shale
9) Approximate	coal sea	m depth:	s: 27', 51', 270'				RECEIVED Office of Oil and Ga
10) Approximat	te void de	pths,(co	al, Karst, other): N	lone known			JUN 29 2010
			s tributary to activ			Enviro	V Department of printer and Protection
rill new horizontal				NO DDOOD			Office of Oil
3) TYPE S	SPECIFIC		ASING AND TUBI	FOOTAGE	<u>iaivi</u> Intervals	CEMEN	JUN 29
	<u>Size</u>	Grade	Weight per ft [	For Drilling	Left in Well	Fill -up (Cu.	IT WY Departm Environ mental F Ft.)
Conductor	13-3/8"	LS	54#	40	40	sanded	
Fresh Water	9-5/8"	LS	36#	300	300	95	
Coal							Exc
Intermediate	7"	LS	20#	2025	2025	310	(3)
Production	4-1/2"	WT80	11.6#		9830	*820	
B 7227 E O 7 7 7 7 8 1							
7,3							
Tubing Liners							



WW-2A (Rev. 6-14)

1). Date: <u>5/24/2018</u>
2.) Operator's Well Number <u>828040</u>
State County Permit
3.) API Well No.: 47- Lincoln

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

4) Surface Ov	vner(s) to be served:	5) (a) Coal Operator
(a) Name	Harold & Delores Dingess	Name
Address	494 Robert L. Dingess RD	Address
	Harts, WV 25524	
(b) Name	Virgil & Ada Lynn Kirk	(b) Coal Owner(s) with Declaration
Address	39 Aarons Way	Name Southern Region Industrial Realty Inc.
	Harts. WV 25524	Address Three Commercial Place
		Norfolk, VA 23510
(c) Name		Name
Address		Address
6) Inspector	Jeffery L. Smith	(c) Coal Lessee with Declaration
Address	5369 Big Tyler Road	Name
	Cross Lanes, WV 25313	Address
Telephone	(681) 313-6743	
	TO THE PERSONS NA	AMED ABOVE TAKE NOTICE THAT:
Included is t	he lease or leases or other continuing	g contract or contracts by which I hold the right to extract oil and gas
OR		
x Included is t	he information required by Chapter 2	2, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify	that as required under Chapter 22-6	of the West Virginia Code I have served copies of this notice and
application, a loc	cation plat, and accompanying docum	nents pages 1 through on the above named parties by:
-	Personal Service (Affidavit atta	
X		
4/2/0 d <del>-</del>	Publication (Notice of Publicat	ion attached)
		nd 35 CSR 4, and I agree to the terms and conditions of any permit
issued under this	s application.	rsonally examined and am familiar with the information submitted on
this application	form and all attachments and that h	pased on my inquiry of those individuals immediately responsible for
obtaining the infe	ormation, I believe that the information	on is true, accurate and complete.
I am aw	are that there are significant penaltic	es for submitting false information, including the possibility of fine and
imprisonment.		
	Well Operato	Core Appalachia Operating, LLC
- 100 Inc.	By	1: 10
Notary	SH ROBERTS Public Official Small	Director Fred Contraction
	e of West Virginia Address	± 414 Summers Street
Core Appa	elechie Operating LLC Charleston WV 25302	Charleston, WV 25301
Squamers Street	relephone	e: <u>(304) 353-5240</u>
		igreathouse@coreoperating.com
Subscribed and	sworn before me this 29th day	of May , 2018
One		Materia Duklie
100	Funitary (1- a 1-	Notary Public
My Commission	ALL STREET, ST	7
Oil and Gas Privacy	/ Notice	

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at 7/20/2018

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

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

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

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Chesapeake Appalachia, LLC	Core Appalachia Production, LLC	15%	637/195

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

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

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

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

Well Operator:

By:Its:

Core Appalachia Operating, LLC

JUN 0 8 2018

Director - HSE & Administrative Services, Jessica Greathouse Protection

WW-2B1 (5-12) Well No. 828040

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

#### NOTICE TO SURFACE OWNERS

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

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

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

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

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

Certified Labora	atory Name	Turner Technology, Inc.	
Sampling Contractor		Turner Technology, Inc.	
Well Operator	Core Appalachi	a Operating, LLC	
Address	414 Summers S	ST	
	Charleston, WV	25301	
Telephone	(304) 353-5240		

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Office of Oil and Gas

JUN 0 8 2018

WV Department of Environmental Protection

# WW-2B1 Attachment NOTICE TO SURFACE OWNERS

#### Well 828040

### All samples taken:

Andrew Thompson
765 Big Harts Creek RD
Harts, WV 25524

Nicholas Thompson 747 Big Harts Creek RD Harts, WV 25524

Rodney Workman
788 Big Harts Creek RD
Harts, WV 25524

<u>David Brewster</u> 11512 Big Harts Creek RD Harts, WV 25524

Iva Adkins 48 Rockhouse Branch Harts, WV 25524

Chris Dillon
11429 Big Harts Creek RD
Harts, WV 25524

Makayla Thompson
11323 Big Harts Creek RD
Harts, WV 25524

Harold Dingess 494 Robert Dingess Road Harts, WV 25524

4704303582H API Number 47 -Operator's Well No. 828040

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

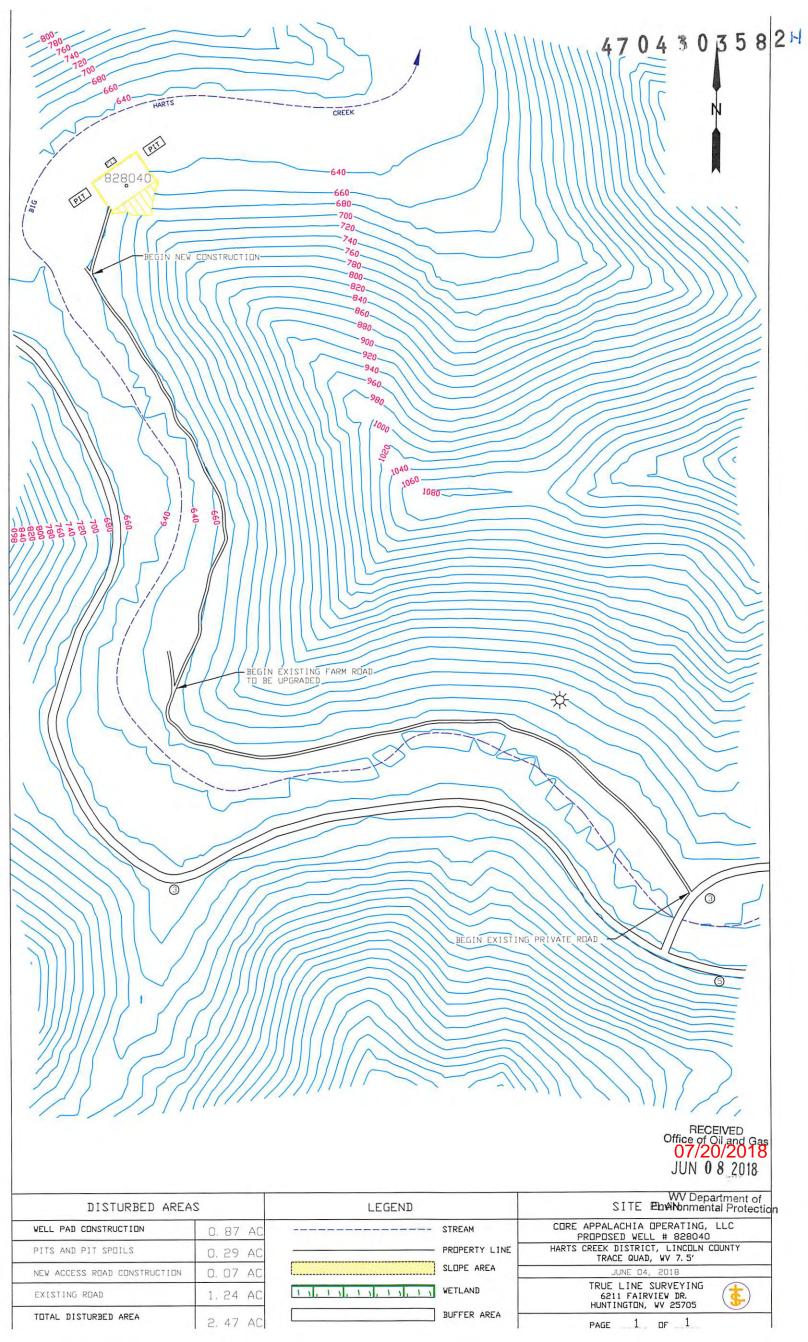
Operator Name Core Appalachia Operating, LLC	OP Code 494518671
The state of the s	Quadrangle Trace
Do you anticipate using more than 5,000 bbls of water twill a pit be used? Yes V No	o complete the proposed well work? Yes No V
If so, please describe anticipated pit waste: _F	luids and cuttings frm drilling and completion operations
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wa	
Underground Injection (UIC Reuse (at API Number	provide a completed form WW-9-GPP)  Permit Number unknown at this time )
	rm WW-9 for disposal location)
Will closed loop systembe used? If so, describe: No	
Drilling medium anticipated for this well (vertical and h	orizontal)? Air, freshwater, oil based, etc. Air/Foam
-If oil based, what type? Synthetic, petroleum,	etc
Additives to be used in drilling medium? Clay, Stabilizer	Soap
Drill cuttings disposal method? Leave in pit, landfill, re	moved offsite, etc. Leave in pit
-If left in pit and plan to solidify what medium	will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of O West Virginia solid waste facility. The notice shall be p where it was properly disposed.	il and Cas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the V provisions of the permit are enforceable by law. Violation regulation can lead to enforcement action.  I certify under penalty of law that I have perapplication form and all attachments thereto and that, but	rs and conditions of the GENERAL WATER POLLUTION PERMIT issued lest Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable law rsonally examined and am familiar with the information submitted on this sed on my inquiry of those individuals immediately responsible for o btaining accurate, and complete. I am aware that there are significant penalties for fine or imprisonment.
Company Official Signature	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Jessica Greathouse	JUN 0 8 2018
Company Official Title Director - HSE & Administrative	
Subscribed and sworn before me this 6 th d	ay of June , 20 18
My commission expires 6/28/2022	Notary Public  Notary Public  JOSH ROBERTS  Notary Public Official Seal  State of West Virginia  My Comm Expires Jun 28, 2022  Cere Appalachia Operating, LLC

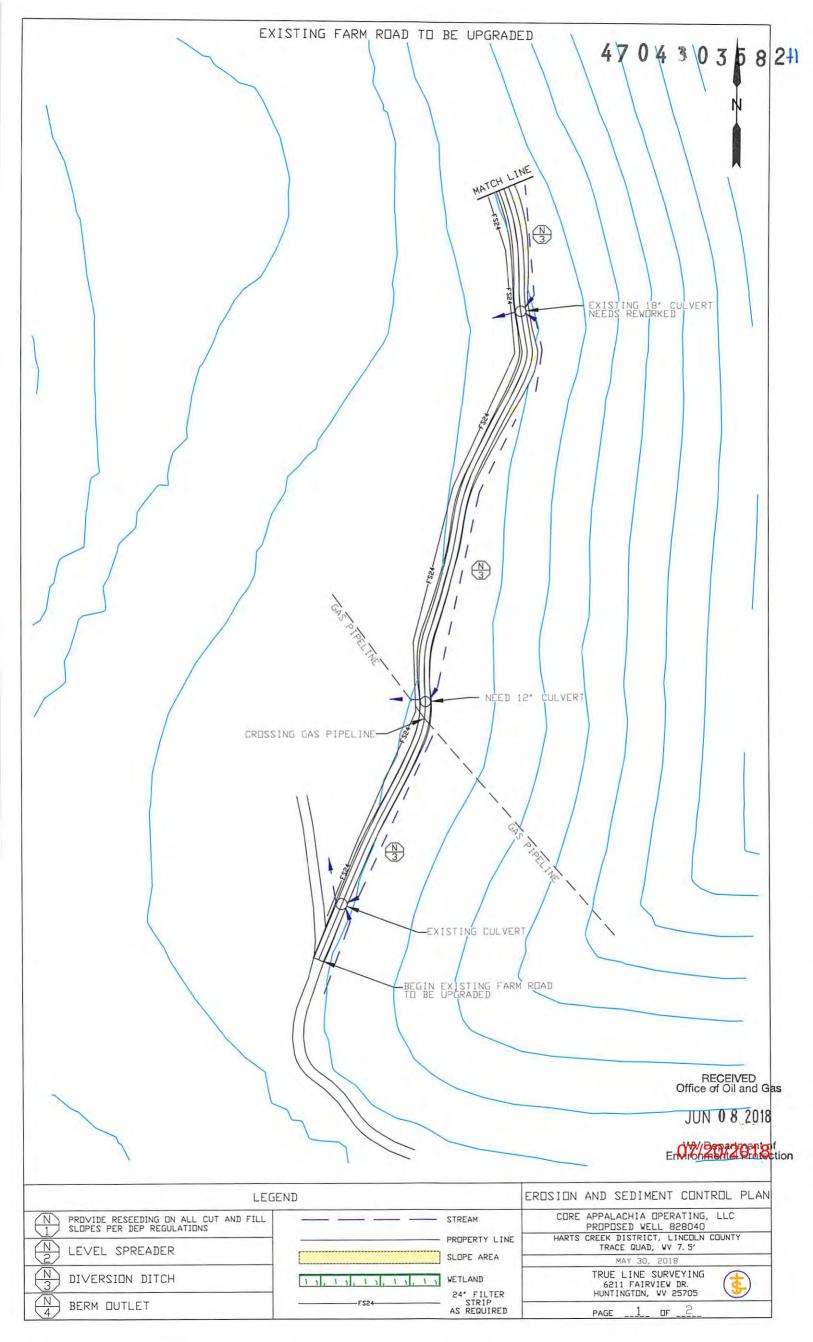
Proposed Revegetation Treatment: Acres Disturbed 1.2 Prevegetation pH 6.0  Lime 2 Tons/acre or to correct to pH 6.5  Fertilizer type Hydroseed  Fertilizer amount 500 Ibs/acre  Mulch Hydroseed Tons/acre  Seed Mixtures  Temporary Permanent  Seed Type Ibs/acre Seed Type Ibs/acre  Tall Fescue 40 Tall Fescue 40  Winter Rye 20 Winter Rye 20  Ladino Clover 5 Ladino Clover 5  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land application area.  Photocopied section of involved 7.5' topographic sheet.	Form WW-9		Operator's W	ell No. 828040
Fertilizer type Hydroseed  Fertilizer amount 500   lbs/acre  Mulch Hydroseed   Tons/acre    Seed Mixtures	Proposed Revegetation Trea	tment: Acres Disturbed	1.2 Preveg etation p	H 6.0
Fertilizer amount 500   lbs/acre    Mulch Hydroseed Tons/acre    Seed Mixtures  Temporary Permanent    Seed Type   lbs/acre   Seed Type   lbs/acre    Tall Fescue 40   Tall Fescue 40    Winter Rye 20   Winter Rye 20    Ladino Clover 5   Ladino Clover 5    Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land application area.  Photocopied section of involved 7.5' topographic sheet.	Lime 2	Tons/acre or to co	prrect to pH 6.5	
Nulch Hydroseed   Tons/acre   Seed Mixtures	Fertilizer type Hyc	droseed		
Temporary Permanent  Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40  Winter Rye 20 Winter Rye 20  Ladino Clover 5 Ladino Clover 5  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land application area.  Photocopied section of involved 7.5' topographic sheet.	Fertilizer amount 5	600	lbs/acre	
Seed Type   lbs/acre   Seed Type   lbs/acre   Tall Fescue   40    Winter Rye   20   Winter Rye   20    Ladino Clover   5   Ladino Clover   5    Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Mulch_ Hydrosee	ed	Tons/acre	
Seed Type   Ibs/acre   Seed Type   Ibs/acre   Tall Fescue   40    Winter Rye   20   Winter Rye   20    Ladino Clover   5   Ladino Clover   5    Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.			Seed Mixtures	
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Winter Rye  20  Ladino Clover  5  Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Seed Type	lbs/acre	Seed Type	lbs/acre
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itle:	Date:
ield Reviewed? () Yes (	)No

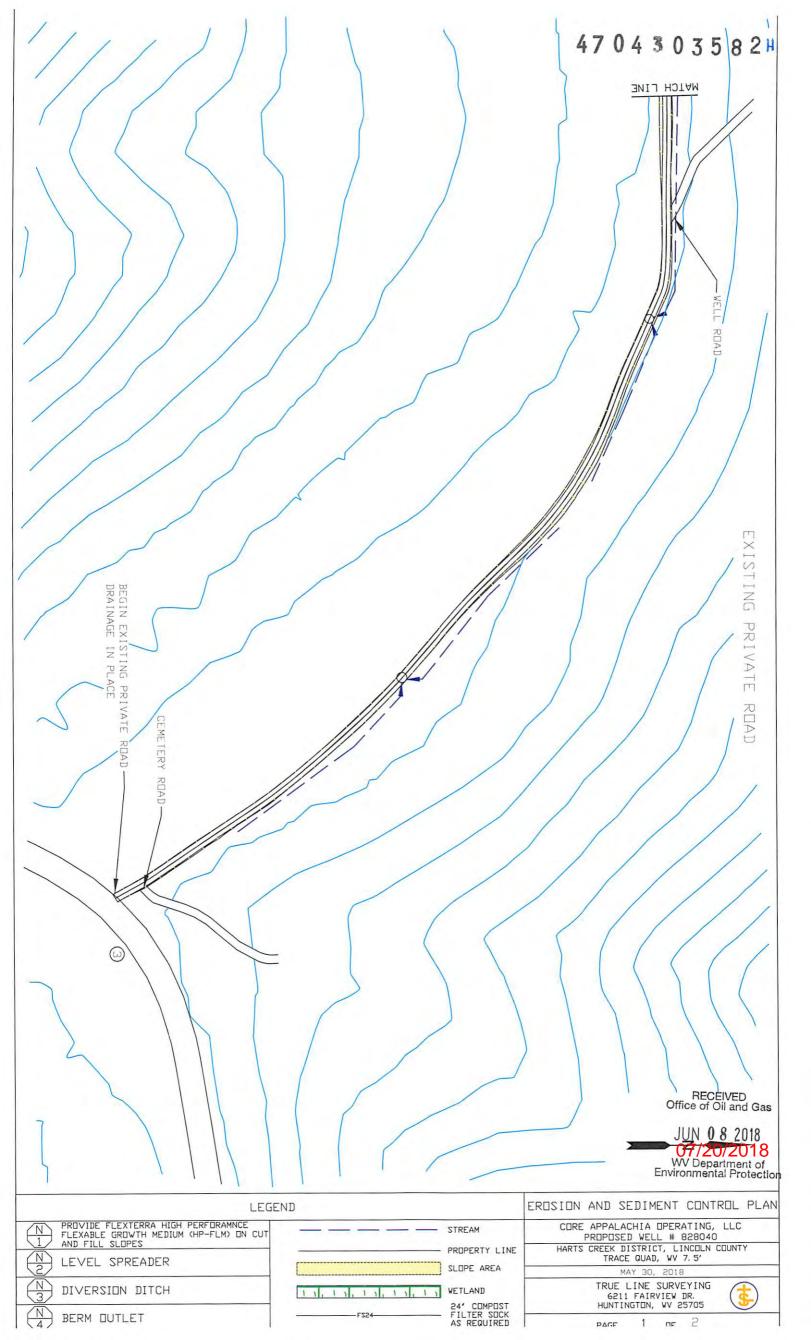
Operator's Well No. 828040

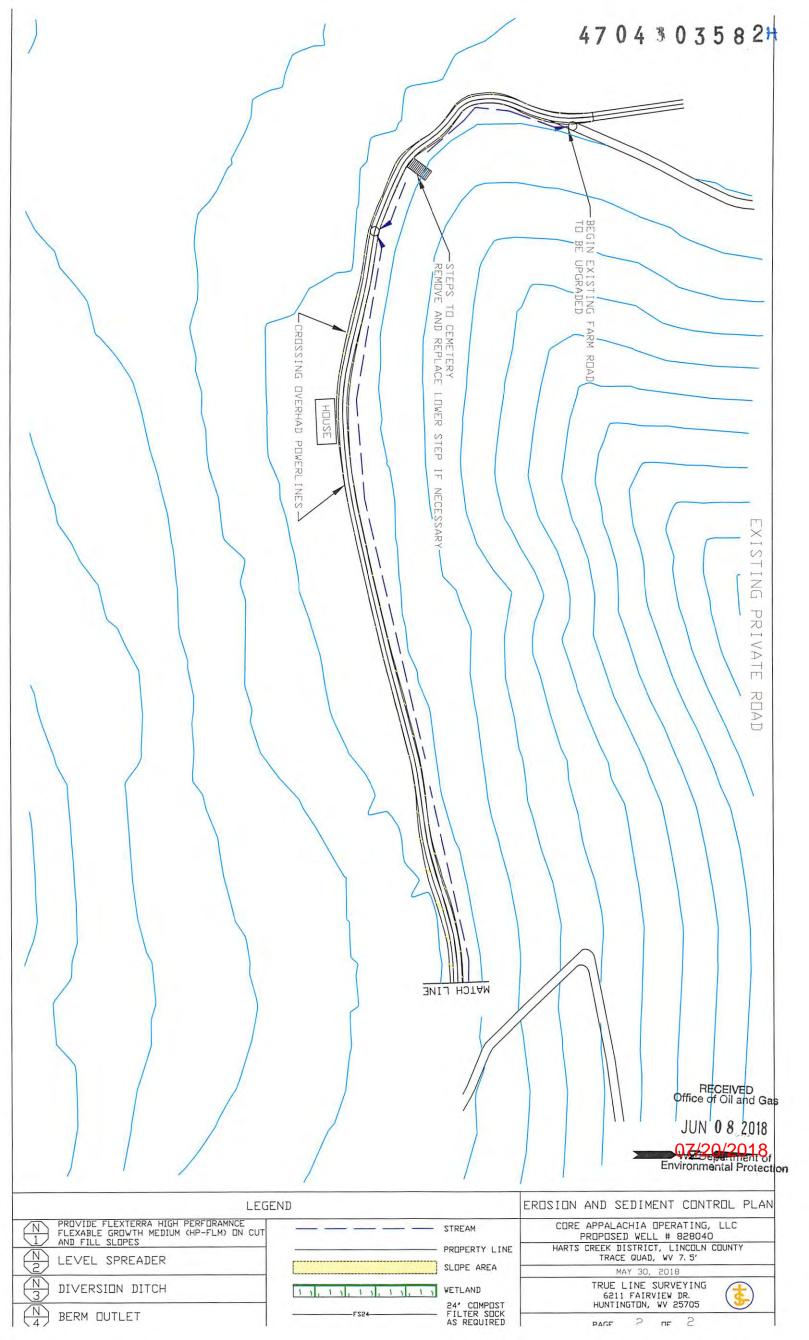
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Lime 2	Tons/acre or to corre	ct to pH 6.5	
Fertilizer type Hydr	roseed		
Fertilizer amount 50	00	lbs/acre	
Mulch_ Hydroseed	d	Tons/acre	
		Seed Mixtures	
Ten	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Winter Rye	20	Winter Rye	20
Ladino Clover	5	Ladino Clover	5
Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of the	it will be land applied, pro the land application area.	d application (unless engineered plans include ovide water volume, include dimensions (L,	ling this info have b W, D) of the pit, and
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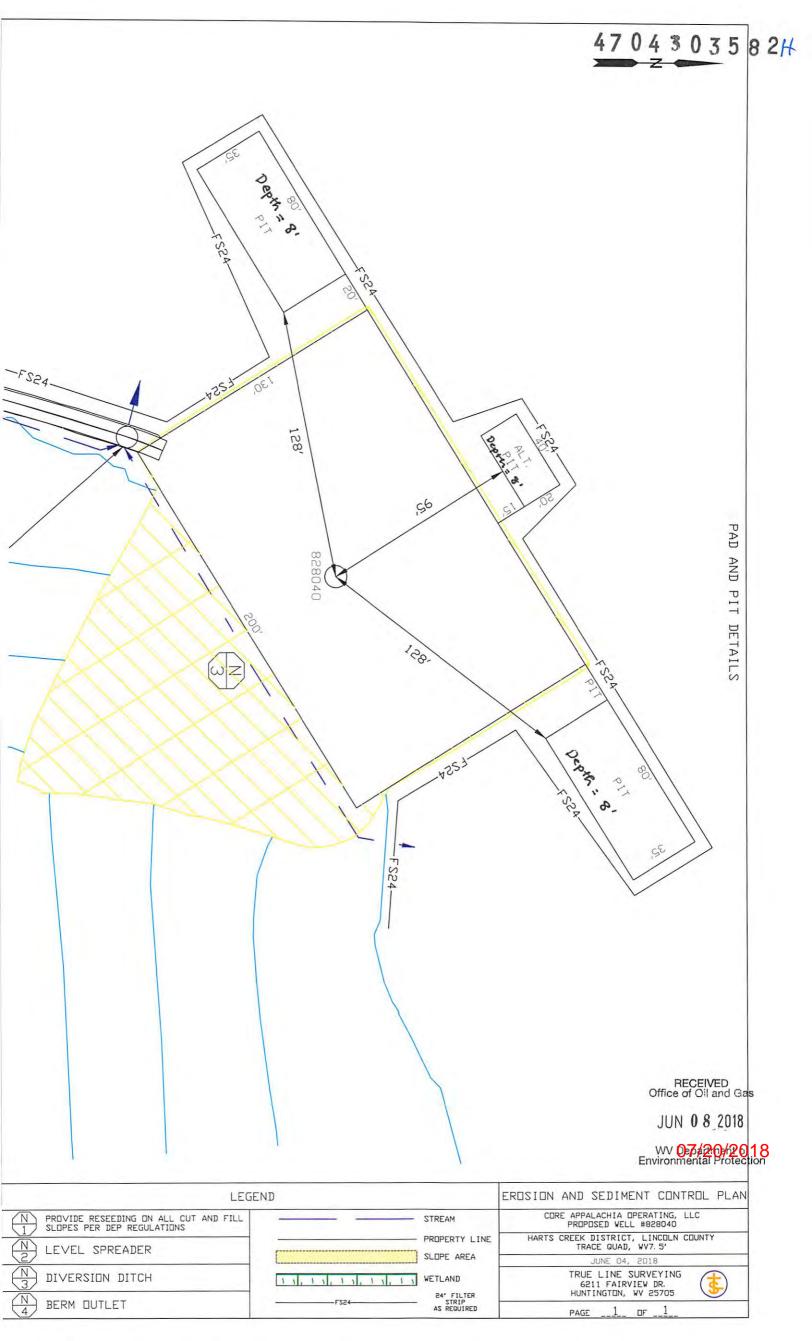












3.00%	3.00% 3.00%	0.00%	0.00%	0.00%	0.00% 4	1.00%	4.00%	4.00%	4.00%	4.00%	4.00%	0.00% -	-2.00%-2,	00%
600 ·														
0+00	1+00	2+00	3+(	00	4+00	)	5+0	0	6+00		7+00	8+	-00	9+00
														70
-2.0	0% -2.00%	-2.00%	-2.00% -	-2.00%	-2.00%	-2.00	%-2.00 <u>%</u>		-2.00%	9.00%	-9.00 <i>%</i> -	-9.00%	-5 00°	
-2.0	0% -2.00%	-2.00%	-2.00% -	-2.00%	-2.00%	-2.00	<u>%-2.00%</u>		-2.00%	9.00%	<u>-9.00%</u>	9.00%	-5.00%- <sub>6</sub>	

RDAD PROFILE

CORE APPALACHIA OPERATING, LLC
PROPOSED WELL # 828040

HARTS CREEK DISTRICT, LINCOLN COUNTY
TRACE QUAD, WY 7.5'

JUNE 04, 2018

TRUE LINE SURVEYING
6211 FAIRVIEW DR.
HUNTINGTON, WV 25705

