

#### 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 828041 47-043-03583-00-00

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: 828041

Farm Name: HAROLD & DELORES DINGES

U.S. WELL NUMBER: 47-043-03583-00-00

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**

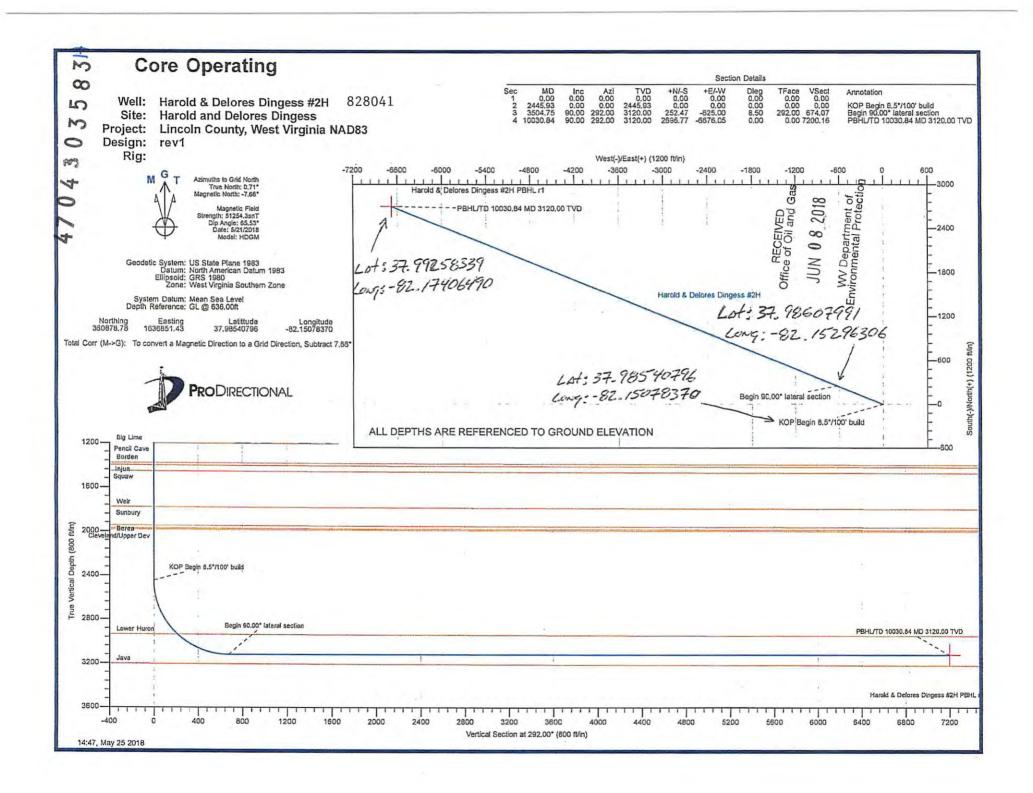
- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty 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.

07/20/2018

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	Appalacl	nia Operating, LLC	494518671	Lincoln	Harts Creek	Trace
				Operator ID	County	District	Quadrangle
?) Operator's W	∕ell Numb	oer: <u>8280</u> 4	11		3) Elevation:	636'	
l) Well Type: (a	a) Oil	or Ga	as X				
(b	) If Gas:	Produ	iction X / Unde	erground Sto	orage		
			o/ Sh				
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	tal Depth fresh wa	1: 10,031 MD Iter strata	: Devonian Shale Feet Fa depths: 42' : 500'	ormation at l	Proposed Tai Proposed Tot	rget Depth: 31 al Depth: Devo	120' TVD nian Shale
) Approximate	coal sea	m depths	s: 27', 51', 270'				
0) Approximate	e void de	pths,(coa	al, Karst, other): <sup>N</sup>	None known			
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	ontain co	nal saam	e tributary to activ	o mino?	Jone known		
1) Does land c			s tributary to activ	_	lone known	Of	RECEIVED fice of Oil and Gas
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11) Does land c	posed we	ell work an	nd fracturing metho	_		al sheets if nee	HECEIVED Gas of Oil and Oil a
1) Does land c 2) Describe prop rill new horizontal	posed we	ell work an	nd fracturing metho well with nitrogen	ds in detail (a	attach additiona	al sheets if nee	ded)2 9 2018
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(1) Does land control (2) Describe propril new horizontal (3)  TYPE SI  Conductor  Fresh Water  Coal  Intermediate	PECIFIC. Size 13-3/8" 9-5/8"	CA ATIONS Grade LS	Mell with nitrogen  SING AND TUBI  Weight per ft  54#  36#	ng PROGR FOOTAGE For Drilling 40 300	Attach additional  RAM INTERVALS  Left in Well  40  300	CEMEN Fill -up (Cu. sanded 95 310 *842	Department of nmental Protection  The partment of nmental Protection
1) Does land c 2) Describe proprill new horizontal 3) TYPE SI Conductor Fresh Water Coal Intermediate	PECIFIC. Size 13-3/8" 9-5/8"	CA ATIONS Grade LS LS	Weight per ft 36#	ng PROGR FOOTAGE For Drilling 40 300	Attach additional Attach addit	CEMEN Fill -up (Cu. sanded 95 310 *842	Department of nmental Protection  T  Ft.)  in



WW-2A (Rev. 6-14) 4704303583H

1). Date: 5/24/2018

2.) Operator's Well Number 828041

State County

Permit

3.) API Well No.:

ell 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.
11111111	Harts, WV 25524	Address Three Commercial Place
	TIGITO. VV V 20021	Norfolk, VA 23510
(c) Name		Name
Address	l ( <del></del>	Address
Address		Addless
6) Inspector	Jeffery L. Smith	(c) Coal Lessee with Declaration
Address	5369 Big Tyler Road	Name
1000000	Cross Lanes, WV 25313	Address
Telephone	(681) 313-6743	
releptione		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	110 10000 01 100000 01 01110 00000	,
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:
and the first of the second se	Personal Service (Affidavit atta	
$\overline{X}$	Certified Mail (Postmarked pos	stal receipt attached)
	Publication (Notice of Publicati	
I have re	ead and understand Chapter 22-6 an	nd 35 CSR 4, and I agree to the terms and conditions of any permit
issued under this	s application.	
I certify	under penalty of law that I have per-	sonally examined and am familiar with the information submitted on
this application	form and all attachments, and that b	ased on my inquiry of those individuals immediately responsible for
obtaining the infe	ormation, I believe that the informatio	n is true, accurate and complete.
	are that there are significant penaltie	s for submitting false information, including the possibility of fine and
imprisonment.	Well Operato	Core Appalachia Operating, LLC
*****	By	
	JOSH ROBERTS	
St.	ate of West Virginia	414 Summers Street
My Com	nm. Expires Jun 28, 2022 opalachia Operating, LLC	Charleston, WV 25301
	- t Charleston MAY 25302	(304) 353-5240
		igreathouse@coreoperating.com
Subscribed and	sworn before me this 29th day of	of May 2018
Subscribed and	ady c	1 218
(/1		Notary Public
My Commission	Expires 6/28/2022	
Oil and Gas Privacy		
Oil diju Gas Filvac)	, House	

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 above 2012018

#### 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, L.L.C.	Core Appalachia Production, LLC	15%	637/195
Chesapeake Appalachia, L.L.C.	Core Appalachia Production, LLC	15%	LS 55/296

#### 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: Office of Oil and Gas

- 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 appr opriate aut hority before the affected activity is initiated.

> Core Appalachia Operating, LLC Director - HSE & Administrative Services, Jessica Greathouse

Environmental Protection

WW-2B1 (5-12)

#### 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 Laboratory Name Sampling Contractor

Turner Technology, Inc. Turner Technology, Inc.

Well Operator Core Appalachia Operating, LLC

Address

414 Summers 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.

RECEIVED Office of Oil and Gas JUN 0 8\_2018 WV Department of Environmental Protection

## WW-2B1 Attachment NOTICE TO SURFACE OWNERS

#### Well 828041

#### 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

<u>Iva Adkins</u> <u>48 Rockhouse Branch</u> <u>Harts, WV 25524</u>

Chris Dillon
11429 Big Harts Creek RD
Harts, WV 25524

Makayla Thompson
11323 Big Harts Creek RD
Harts, WV 25524

<u>Harold Dingess</u> <u>494 Robert Dingess Road</u> <u>Harts, WV 25524</u> Office of Oil and Gas

JUN 0 8 2018

WV Department of Environmental Protection

WW-9 (5/16)

API Number 47 -	-	
Operator's Well No. 828041		

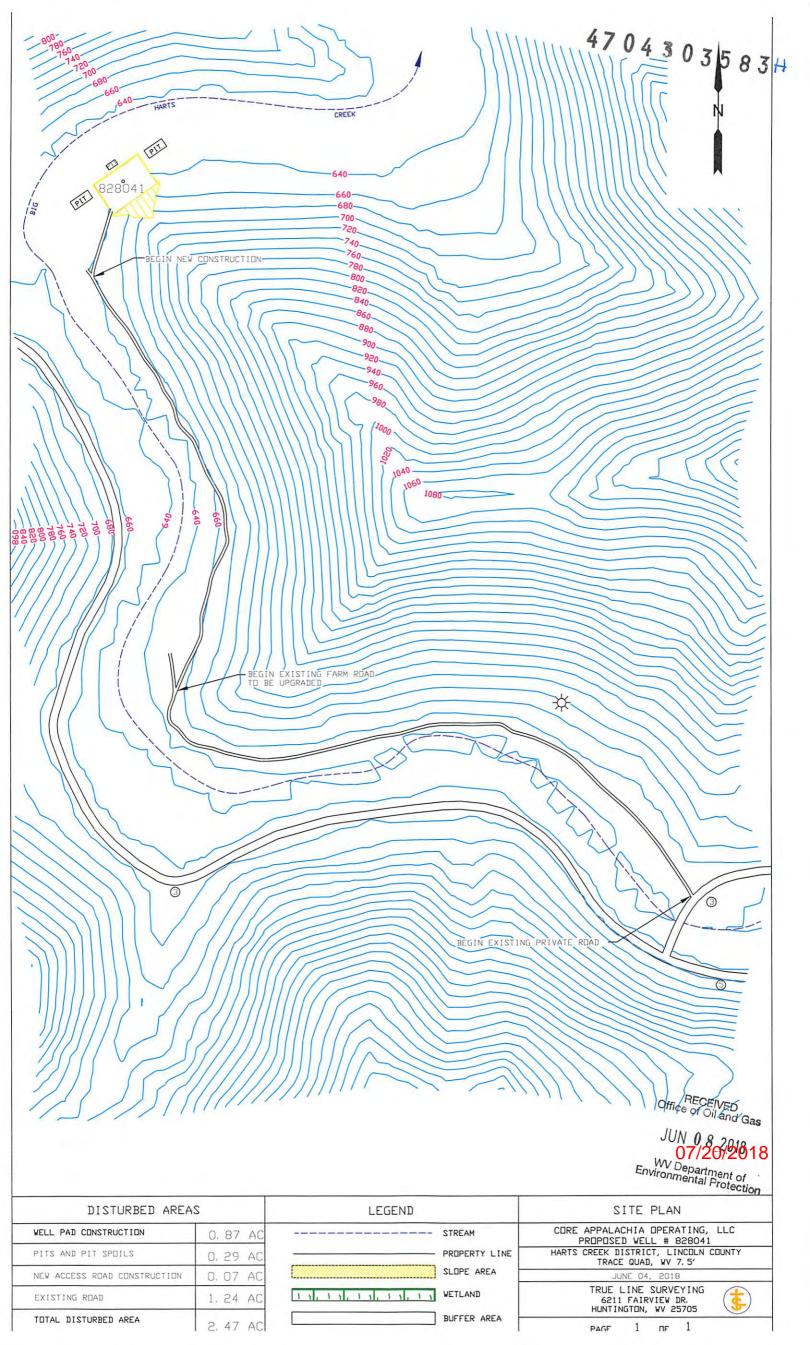
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

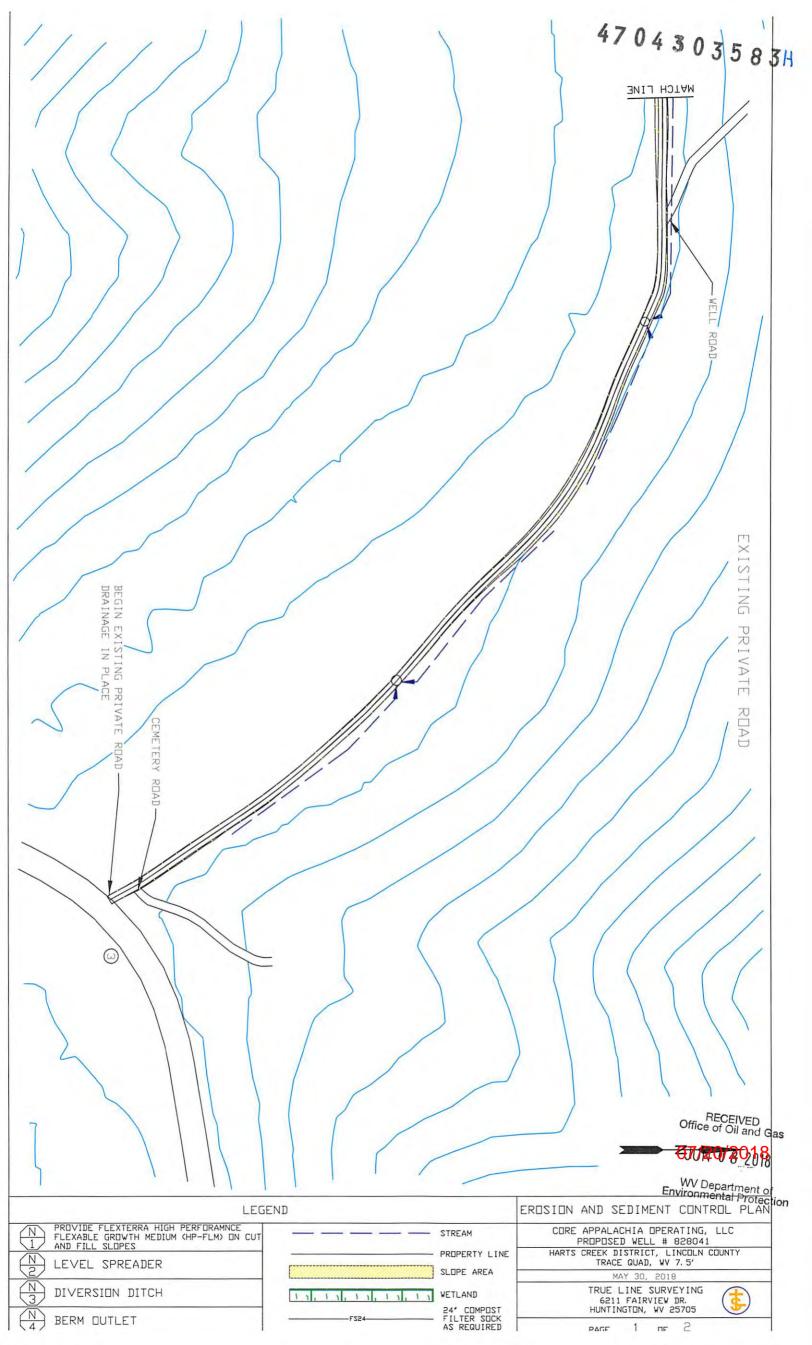
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

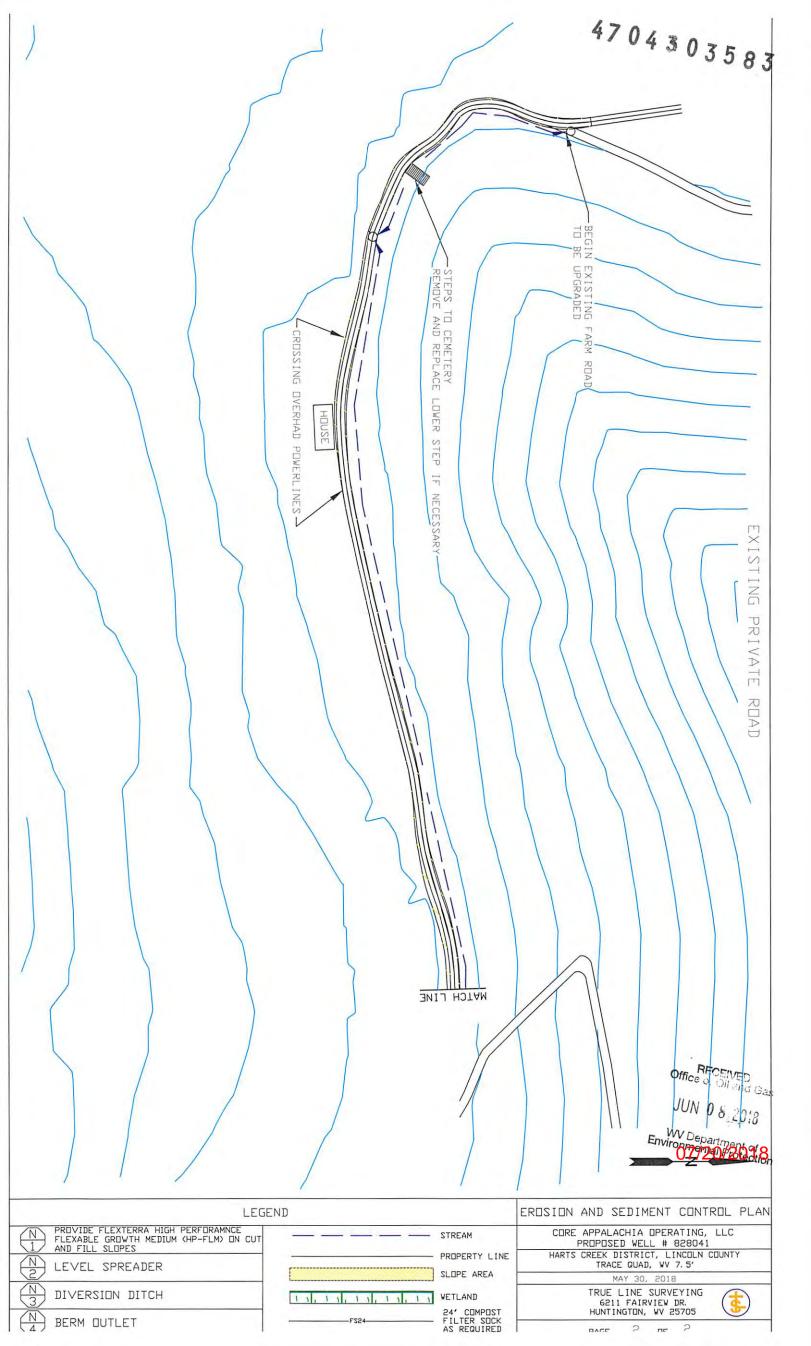
Operator Name Core Appalachia Operating, LLC OP Code 494	518671
Vatershed (HUC 10) Big Harts Creek Quadrangle Trace	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	s No 🗸
Vill a pit be used? Yes ✓ No	
If so, please describe anticipated pit waste: Fluids and cuttings frm drilling and complet	ion operations
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number unknown at this time  Reuse (at API Number	)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	Office of Oil and
Vill closed loop systembe used? If so, describe: No	JUN 29 20
Orilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc	WV Department Environmental Prote
-If oil based, what type? Synthetic, petroleum, etc.	(T
additives to be used in drilling medium? Clay, Stabilizer, Soap	
orill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit	Office of Oil and Gas
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	JUN 00
	JUN 29 2018
-Landfill or offsite name/permit number?	Environmental profession
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or a West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the where it was properly disposed.	associated waste rejected at anyion
I certify that I understand and agree to the terms and conditions of the GENERAL WATER OF April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environments provisions of the permit are enforceable by law. Violations of any term or condition of the general pregulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with application form and all attachments thereto and that, based on my inquiry of those individuals implied the information, I believe that the information is true, accurate, and complete. I am aware that the information, including the possibility of fine or imprisonment.	al Protection. I understand that the I permit and/or other applicable law the information submitted of this mediately responsible for obtaining.
Company Official Signature	JOSH Pur
Company Official (Typed Name) Jessica Greathouse	
Company Official Title Director - HSE & Administrative Services	
	13/ 43/
Subscribed and sworn before me this 29th day of May , 20	18

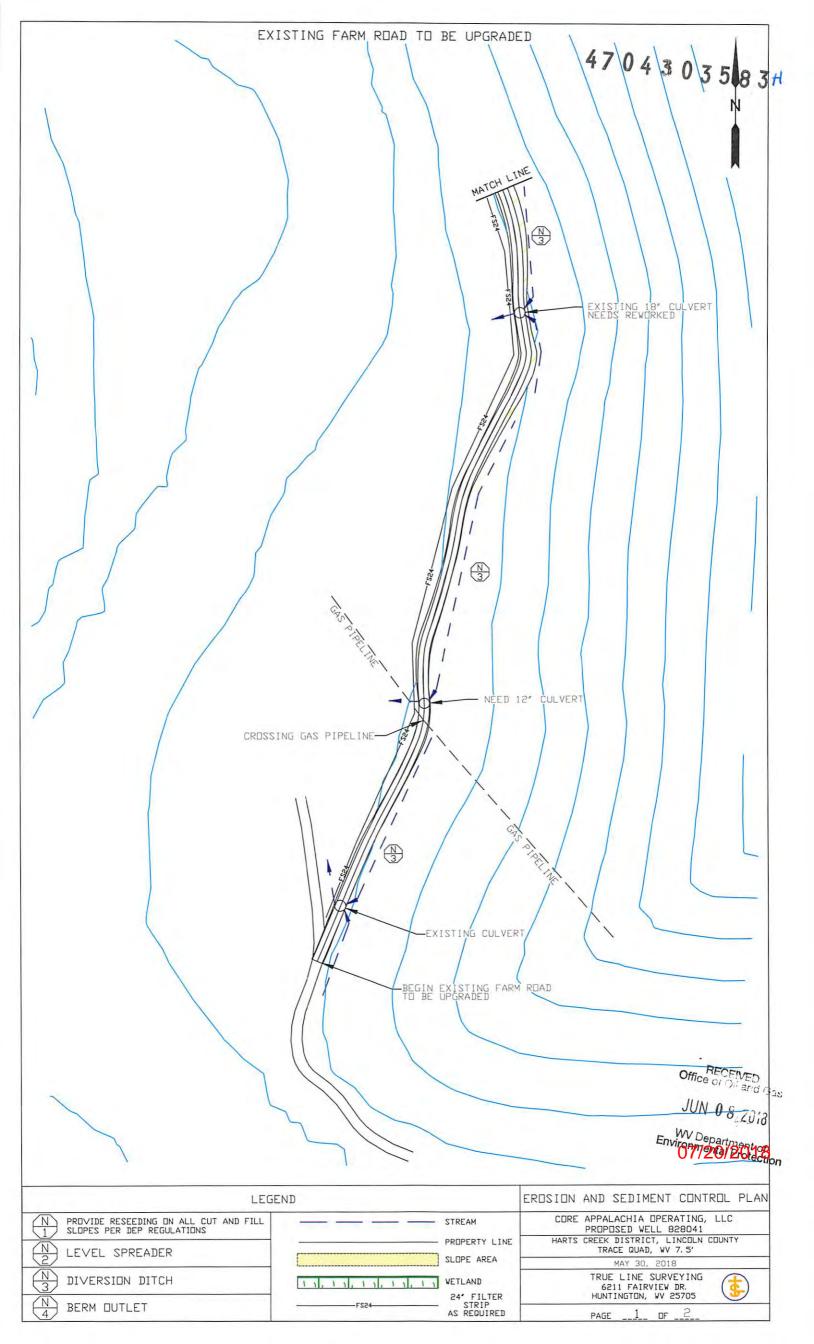
Operator's Well No. 828041

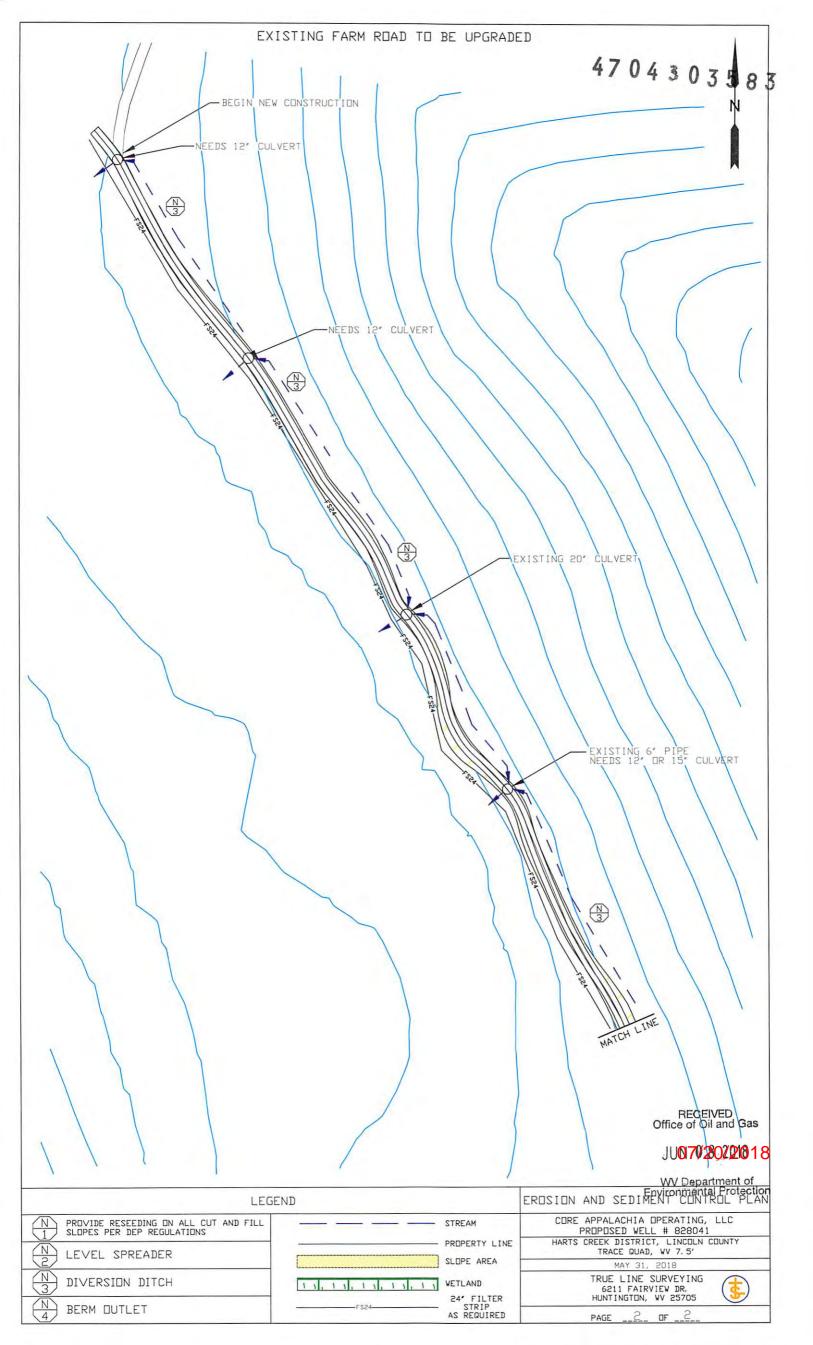
Fertilizer type Hydros Fertilizer amount 500 Mulch Hydroseed  Tempo Seed Type Tall Fescue Winter Rye Ladino Clover	orary lbs/acre 40 20	lbs/acre _Tons/acre _Seed Mixtures Perma Seed Type	nent Ibs/acre 40
Fertilizer amount 500  Mulch Hydroseed  Tempo Seed Type Tall Fescue  Winter Rye	orary lbs/acre 40 20	Tons/acre  Seed Mixtures  Perma Seed Type  Tall Fescue	lbs/acre
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		Minton Dua	
Ladino Clover		Winter Rye	20
	5	Ladino Clover	5
			Offi
Plan Approved by: Jeffre Comments: All sea.	ment conta	of to be removed	prior to

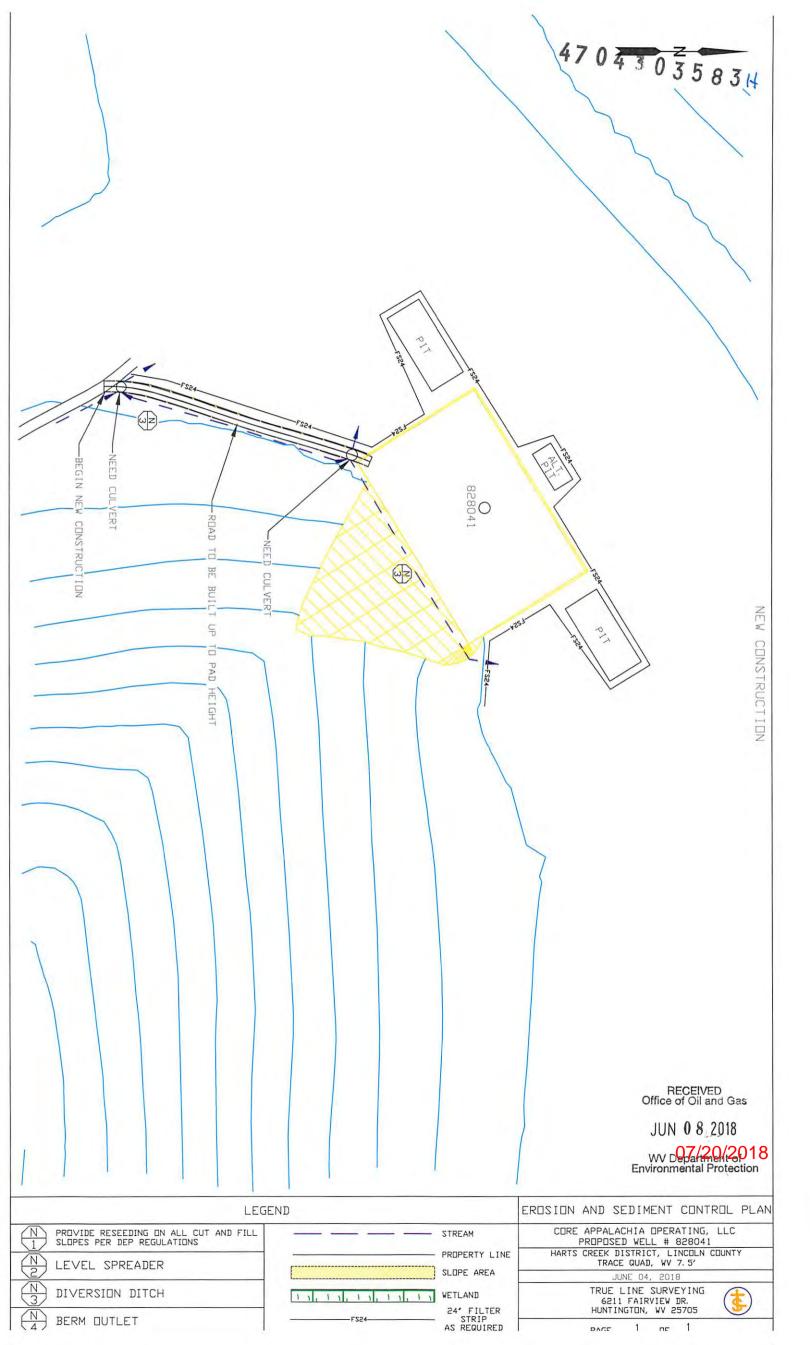






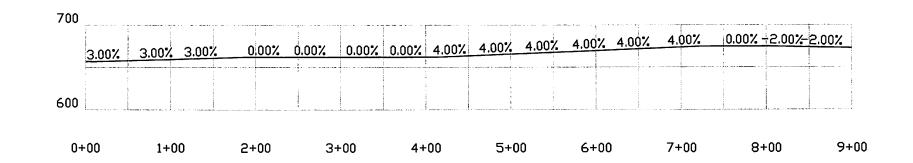


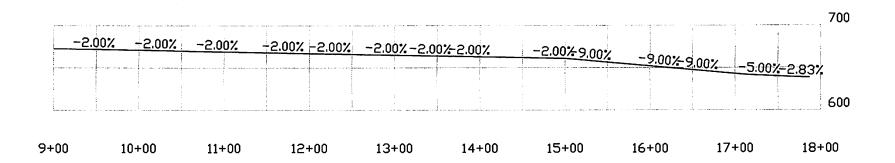




Office of Oil and Gas
JUN 0 8 2018

WV Department of
Environmental Protection





#### ROAD PROFILE

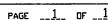
CORE APPALACHIA OPERATING, LLC PROPOSED WELL # 828041

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

JUNE 04, 2018

**\$** 

TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705



7/16/2018

