

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 828040

Operator's Well Number: 828040 Farm Name: HAROLD & DELORES DINGE: U.S. WELL NUMBER: 47-043-03582-00-00 Horizontal New Drill Date Issued: 7/16/2018

Promoting a healthy environment.

### **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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### CONDITIONS

- 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.

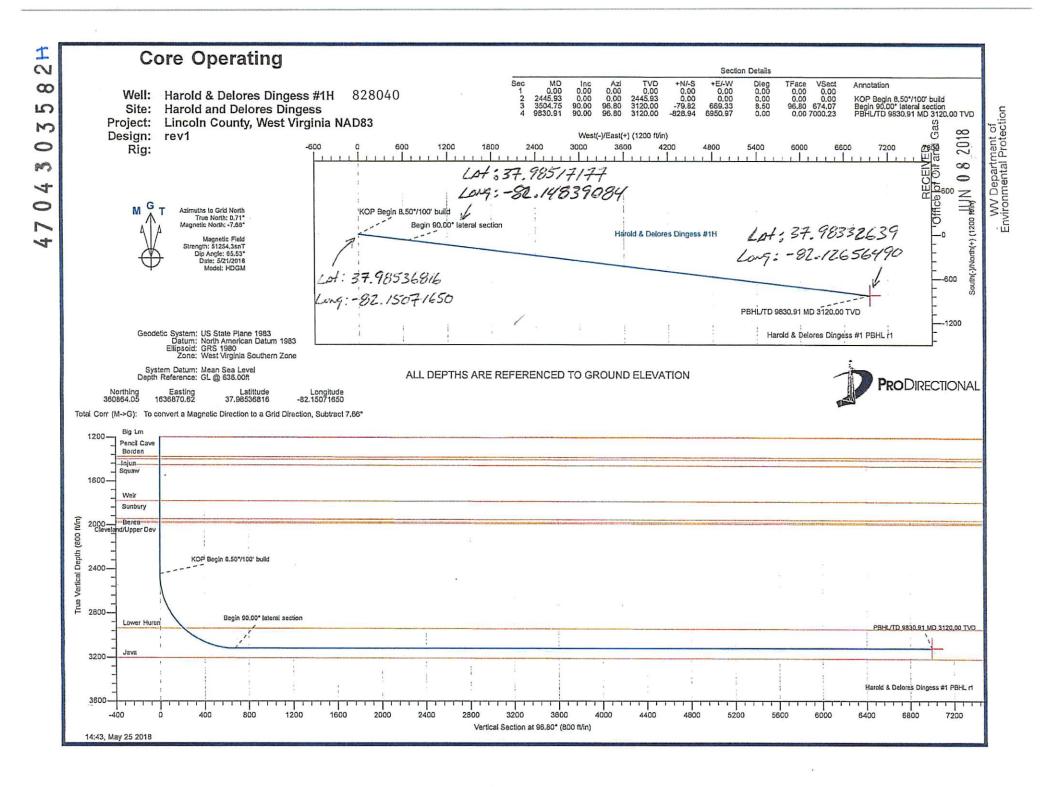
### 47-043-03582H

WW - 2B (Rev. 8/10)

DEPA	ARTMEN		<u>STATE OF V</u> VIRONMENTAL				A 6
		<u>V</u>	VELL WORK PE	RMIT APPLIC	CATION	F OIL AND G	<u>145</u>
1) Well Operate	or: Core	Appalach	nia Operating, LLC	C 494518671	Lincoln	Harts Creek	Trace
				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Num	per: <u>82804</u>	10		3) Elevation:	636'	
4) Well Type: (	a) Oil	or Ga	as X				
(1	b) If Gas:	Produ	iction <u>×</u> / Und	erground Sto	rage		
		Deep	o/ SI	hallow X			
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	otal Depth fresh wa	1:9831 MD		ormation at F	Proposed Tar Proposed Tota	al Depth: Devoi	20' TVD nian Shale
9) Approximate	e coal sea	m depths	s: 27', 51', 270'			c	RECEIVED Office of Oil and Gas
10) Approximat	te void de	pths,(coa	al, Karst, other):	None known			JUN 29 2018
			s tributary to acti		one known	Enviro	V Department of onmental Protection
TT) Does land	contain co	Jai Seam	s indutary to acti				Protection
			nd fracturing metho	ods in detail (a	ttach additiona	I sheets if nee	ded)
orill new horizonta	l well, stimi	ulate new v	well with nitrogen				
							Office of Oil and
13)		CA	SING AND TUB	ING PROGR	ΔM		
	<b>SPECIFIC</b>	and the second s		the second se	INTERVALS		JUN 29 20
	<u>Size</u>	<u>Grade</u>	<u>Weight per ft</u>	For Drilling	Left in Well	<u>Fill -up (Cu.</u>	<u>Environmental Prote</u>
Conductor	13-3/8"	LS	54#	40	40	sanded	
Fresh Water	9-5/8"	LS	36#	300	300	95	
Coal							(IC)
Intermediate	7"	LS	20#	2025	2025	310	- $())$
Production	4-1/2"	WT80	11.6#		9830	*820	
Tubing							
Liners							
Packers: Kind	: *The r	lanned TC	DC is 1825' unless p	ackers are ran			

Sizes:

Depths Set



WW-2A (Rev. 6-14)

1). Date:	5/24	/2018		_	
2.) Operator's	Well	Number	828040	)	
		State	County		Permit
3.) API Well N	lo.:	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 Ow (a) Name	ner(s) to be served: Harold & Delores Dingess	5) (a) Coal Ope Name	rator
	Address	494 Robert L. Dingess RD	Address	
	///////////////////////////////////////	Harts, WV 25524	_	
	(b) Name	Virgil & Ada Lynn Kirk	(b) Coal Ov	vner(s) with Declaration
	Address	39 Aarons Way	_ (b) coull of	Southern Region Industrial Realty Inc.
	Address	Harts, WV 25524	Address	Three Commercial Place
		Tiaits, WV 23324		Norfolk, VA 23510
	(c) Name		Name	
	Address	-	Address	
	Address			
6) I	nspector	Jeffery L. Smith	(c) Coal Les	ssee with Declaration
	Address	5369 Big Tyler Road	Name	
		Cross Lanes, WV 25313	Address	
	Telephone	(681) 313-6743		
		TO THE PERSONS NAI	MED ABOVE TA	KE NOTICE THAT:
	Included is th	e lease or leases or other continuing	contract or contra	cts by which I hold the right to extract oil and gas
OR				R(d) of the Code of West Virginia (see page 2)
X	Included is th	le information required by Chapter 22	, Article 6, Section	8(d) of the Code of West Virginia (see page 2) nia Code I have served copies of this notice and
000	I certify t	hat as required under Chapter 22-6	of the west virgin	gh on the above named parties by:
app	ilcation, a loca	Personal Service (Affidavit attac	ched)	
	X	Certified Mail (Postmarked post		3)
	<u></u>	Publication (Notice of Publication		r.
	I have re			agree to the terms and conditions of any permit
issu	ed under this	application.		
	I certify u	under penalty of law that I have pers	onally examined a	and am familiar with the information submitted on
this	application for	orm and all attachments, and that ba	ised on my inquiry	y of those individuals immediately responsible for
obta	aining the info	ormation, I believe that the information	for submitting fals	se information, including the possibility of fine and
imn	risonment.	are that there are significant penalties	for submitting rate	se mornation, moldaring the possibility of the and
mp	nisonment.	Well Operator	Core Appalac	hia Operating, LLC
		By:		<u></u>
Cor WI		H ROBERTS Lts:	<b>Director-HSE</b>	& Administrative Services, J. Greathouse
1.5	State o	of West Virginia Address:	414 Summers	
120	Core Appala	chia Operating, LLC	Charleston, W	
-	a la Summers Street C	Telephone:	(304) 353-524	
-			iareathouse@	coreoperating.com
Sub	oscribed and s	sworn before me this $2975$ day of	May	, 2018
	()00	C	1	Notary Public
My	Commission	Expires 6/28/2022	L-	
Oil a	nd 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 <u>depprivacyofficer@wv.gov</u> WW-2A1 (Rev. 1/11)

Operator's Well Number 828040

#### 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 add ressed 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 appr opriate aut hority bef ore t he af fected activity is Initiated.

	Core Appalachia Operating, LLC	
Well Operator:	te	JUN 0 8 2018
By:Its:	Director - HSE & Administrative Services,	Jessica Greathouse

Environmental Protection

4704303582H

WW-2B1 (5-12)

## 4704303582H

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 Laboratory Name	Turner Technology, Inc.	
Sampling Contractor	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.

Office of Oil and Gas JUN 08 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

David Brewster 11512 Big Harts Creek RD Harts, WV 25524

Iva Adkins 48 Rockhouse Branch Harts, WV 25524

<u>Chris Dillon</u> <u>11429 Big Harts Creek RD</u> <u>Harts, WV 25524</u>

Makayla Thompson 11323 Big Harts Creek RD Harts, WV\_25524

Harold Dingess 494 Robert Dingess Road Harts, WV 25524

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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
Watershed (HUC 10) Big Harts Creek	Quadrangle Trace
Do you anticipate using more than 5,000 bbls of water to complete t	he proposed well work? Yes No
Will a pit be used? Yes 🖌 No 🗌	
If so, please describe anticipated pit waste: Fluids and cu	ttings 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 Wastes:	
Land Application (if selected provide a c	
Underground Injection (UIC Permit Null	mber_unknown at this time)
Reuse (at API Number	)
Off Site Disposal (Supply form WW-9 for	
Other (Explain	
Will also discussion have all the describer No.	
	Air/Foom
Drilling medium anticipated for this well (vertical and horizontal)?	
Additives to be used in drilling medium? Clay, Stabilizer, Soap	
Drill cuttings disposal method? Leave in pit, landfill, removed offsi	te, etcLeave 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 Oil and Gas o West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	f any load of drill cuttings or associated waste rejected at any in 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any to or regulation can lead to enforcement action.	erm or condition of the general permit and/or other applicable law mined and am familiar with the information submitted on this nquiry of those individuals immediately responsible for obtaining nd complete. I am aware that there are significant penalties for
Company Official (Typed Name) Jessica Greathouse	JUN 0 8 2018
Company Official Title Director - HSE & Administrative Services	WV Department of
company orneral rate	WV Department of

Company Official TitleDirector - HSE & Administrative Services	WV Department of Environmental Protection
Subscribed and sworn before me this $6^{tb}$ day of June , 20 18 Notary Public My commission expires $6/28/2022$	JOSH ROBERTS Notary Public Official Seal State of West Virginia My Comm. Expires Jun 28, 2022 Cere Appalachia Operating, LLC 414 Summers Street Charleston WV 25302

Proposed Revegetation Trea	tment: Acres Disturbed 1	.2 Preveg etation p	H <u>6.0</u>
Lime 2	Tons/acre or to corre	ct to pH 6.5	
Fertilizer type Hyd	droseed		
Fertilizer amount_5	500	lbs/acre	
Mulch Hydrosee	ed	Tons/acre	
		Seed Mixtures	
Te	emporary	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
	· · · · · · · · · · · · · · · · · · ·		

Attach:

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Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

		- <u></u>	
omments:			
		· · · · · · · · · · · · · · · · · · ·	•
	-		
tle:	Date:		
eld Reviewed? () Yes ()	)No		
and the second			

#### Operator's Well No. 828040

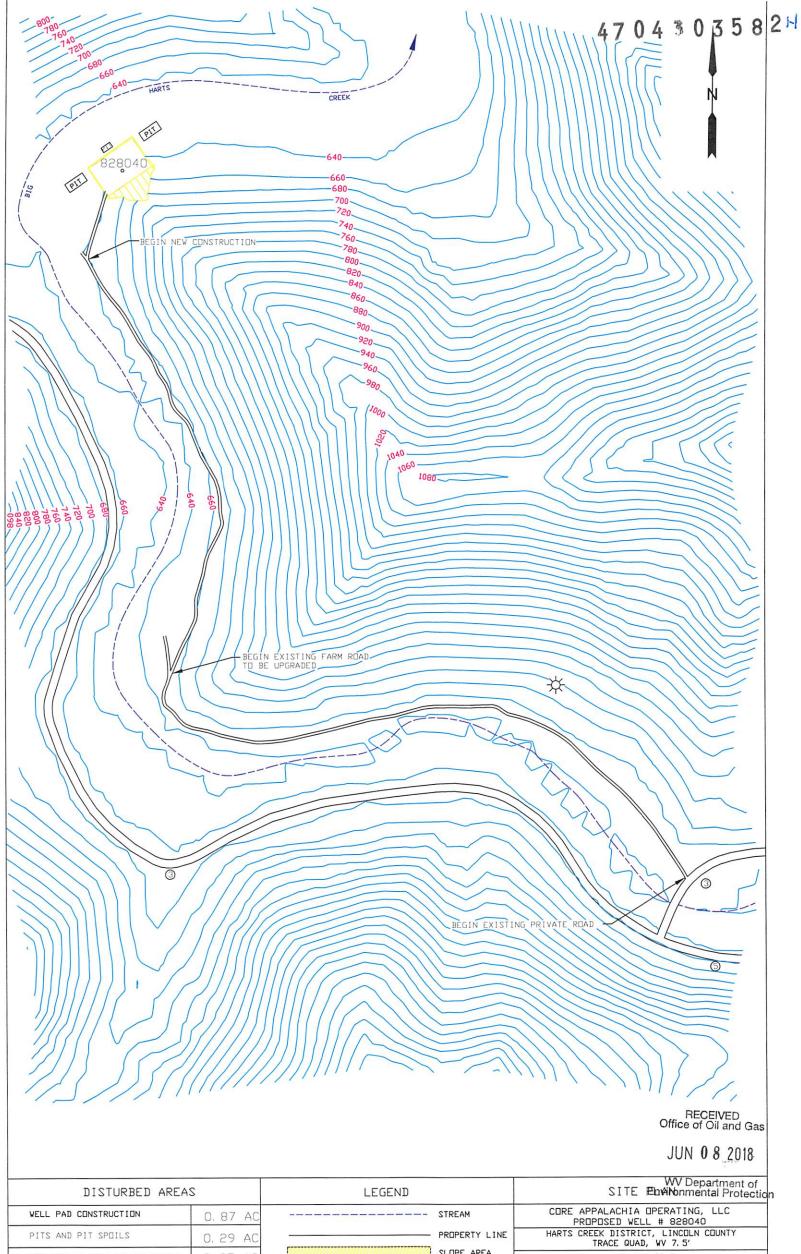
Proposed Revegetation Treat	tment: Acres Disturbed	1.2 Preveg etati	on pH 6.0
Lime 2	Tons/acre or to con	rrect to pH 6.5	
Fertilizer type Hyd	Iroseed		
Fertilizer amount 5	00	lbs/acre	
Mulch_Hydrosee	d	Tons/acre	
		Seed Mixtures	
Те	mporary	Pe	rmanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	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 been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jeffrey	Sm. th		
Comments: <u>All sediment</u> release,	control to be	eremoved p	Drink to Office of Oil and Gaa JUN 29 2018 Environmental Protection
Title: <u>6112 Gas Taspecto</u> Field Reviewed? (1) Ye	Dat	e: 10-21-18	



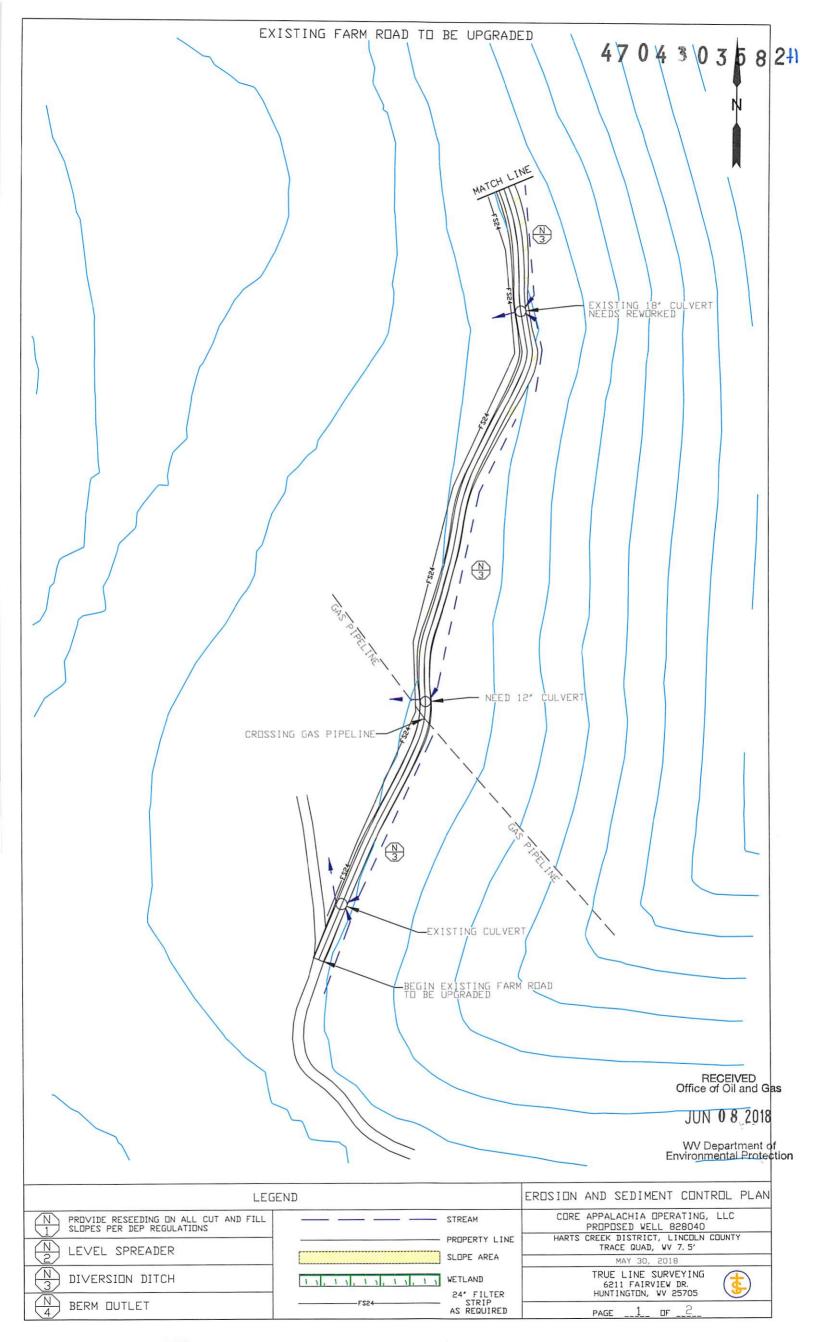
EXISTING ROAD TOTAL DISTURBED AREA

NEW ACCESS ROAD CONSTRUCTION

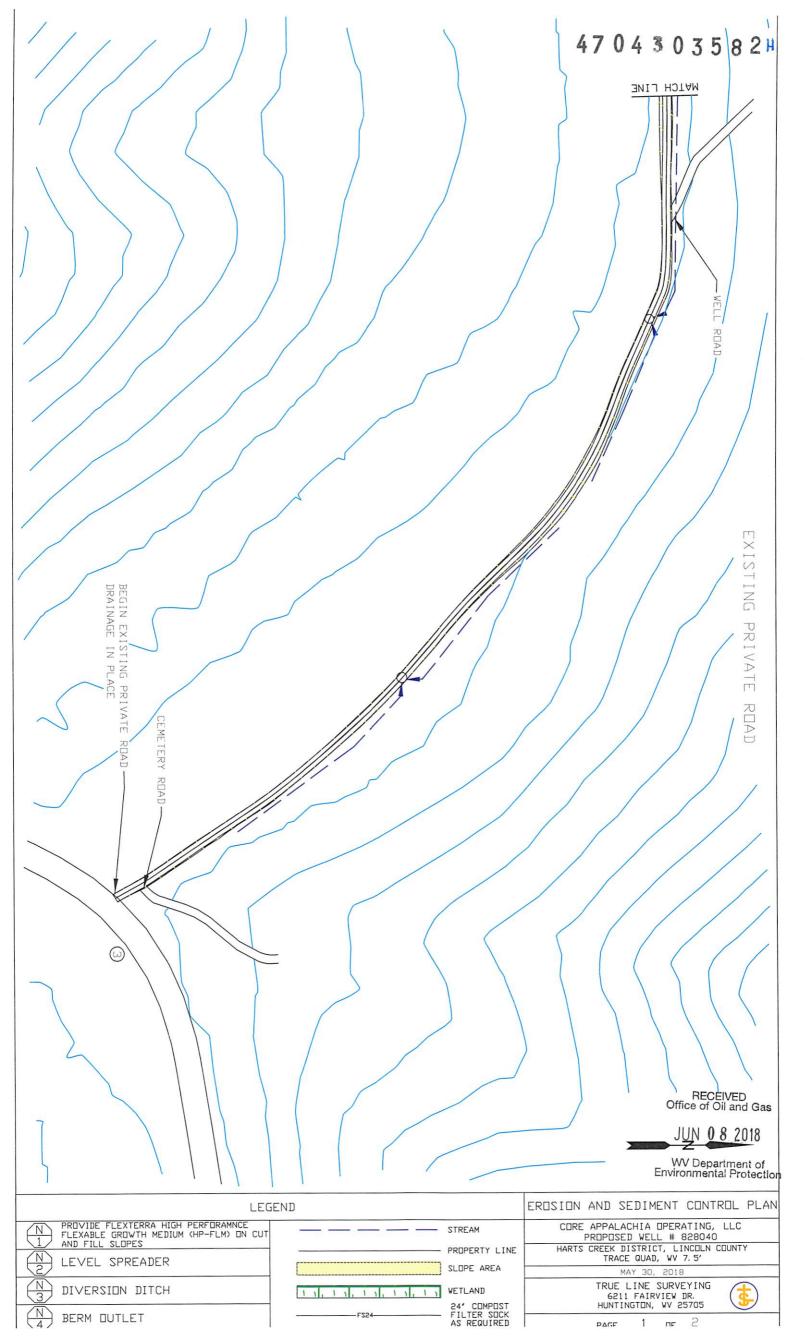
SLOPE AREA 0.07 AC 1 1, 1 1, 1 1, 1 1, 1 1 WETLAND 1.24 AC 2.47 AC

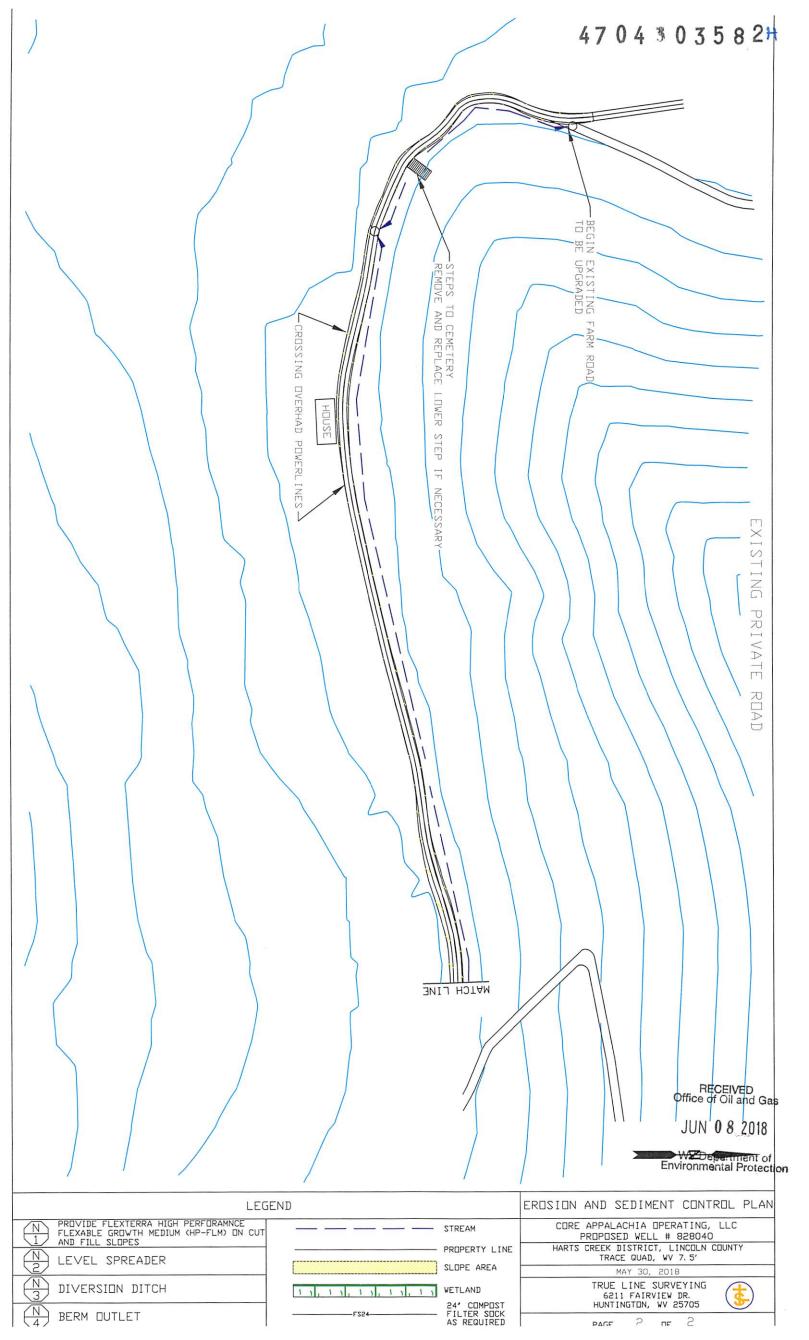
JUNE 04, 2018 TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705 PAGE 1 DF 1

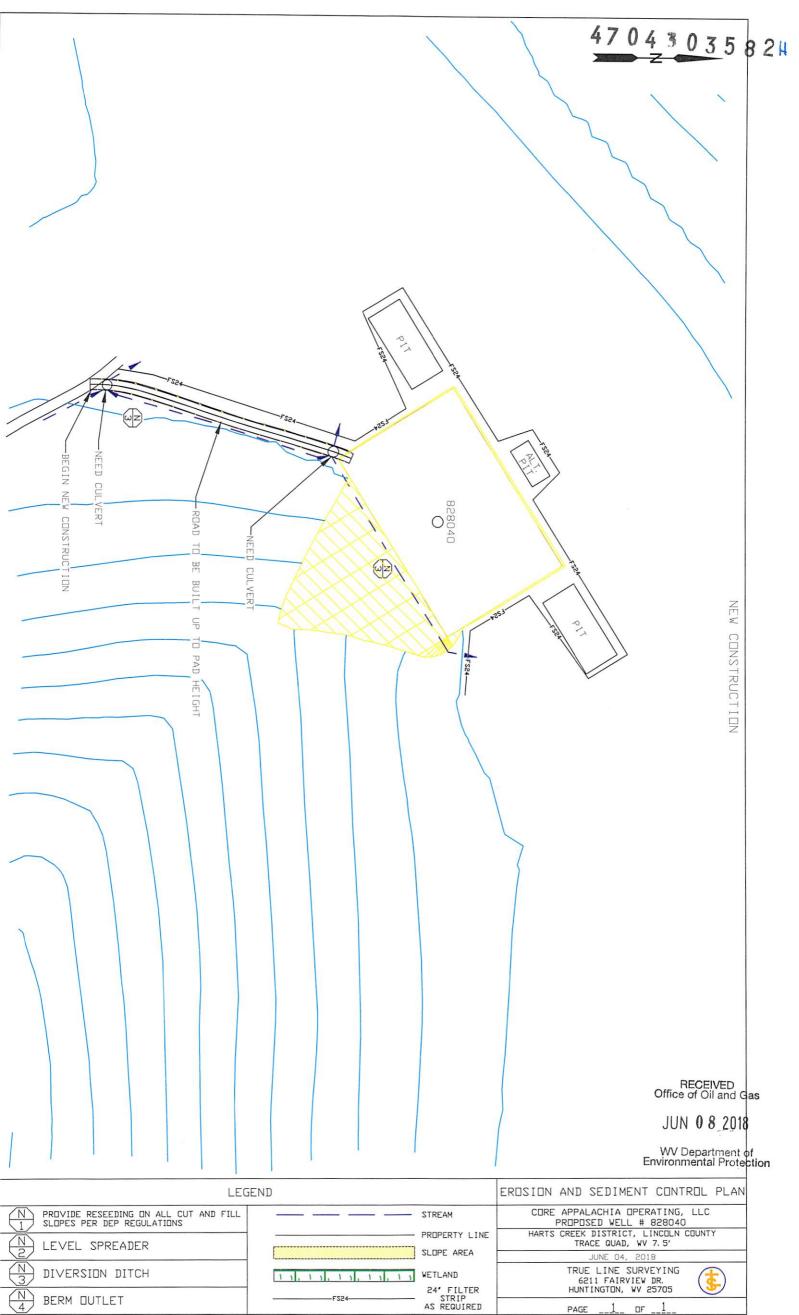
BUFFER AREA



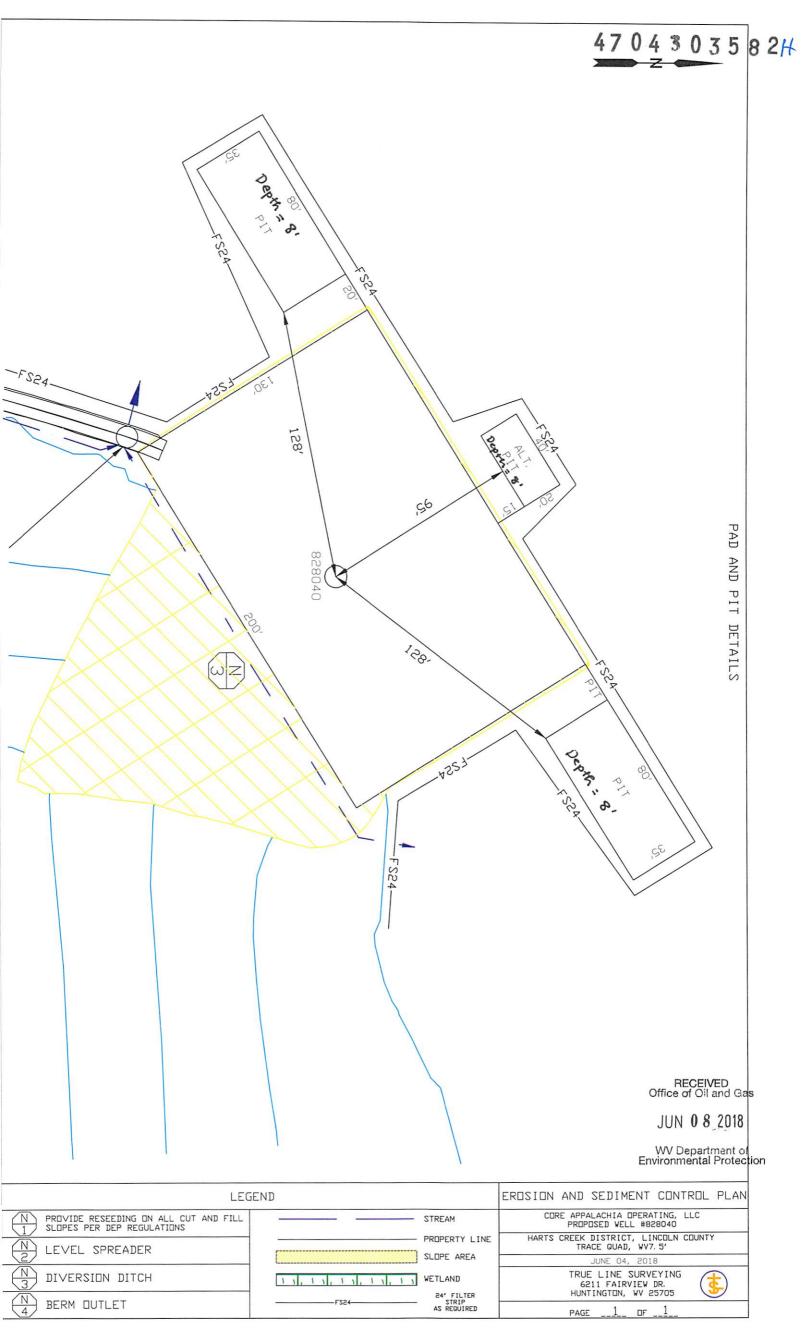


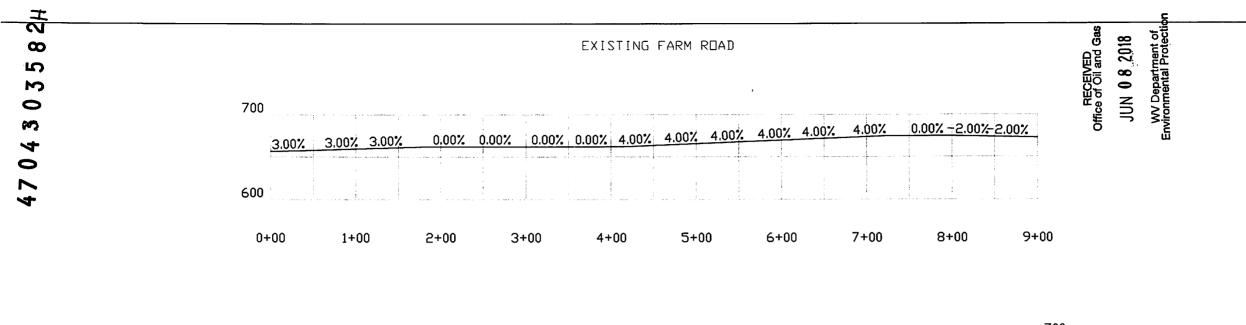


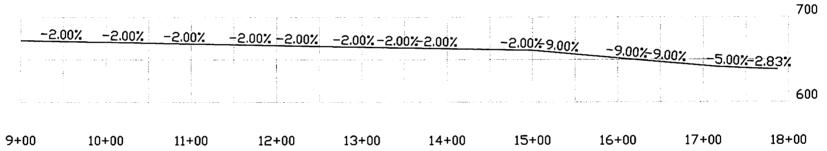




PAGE 1

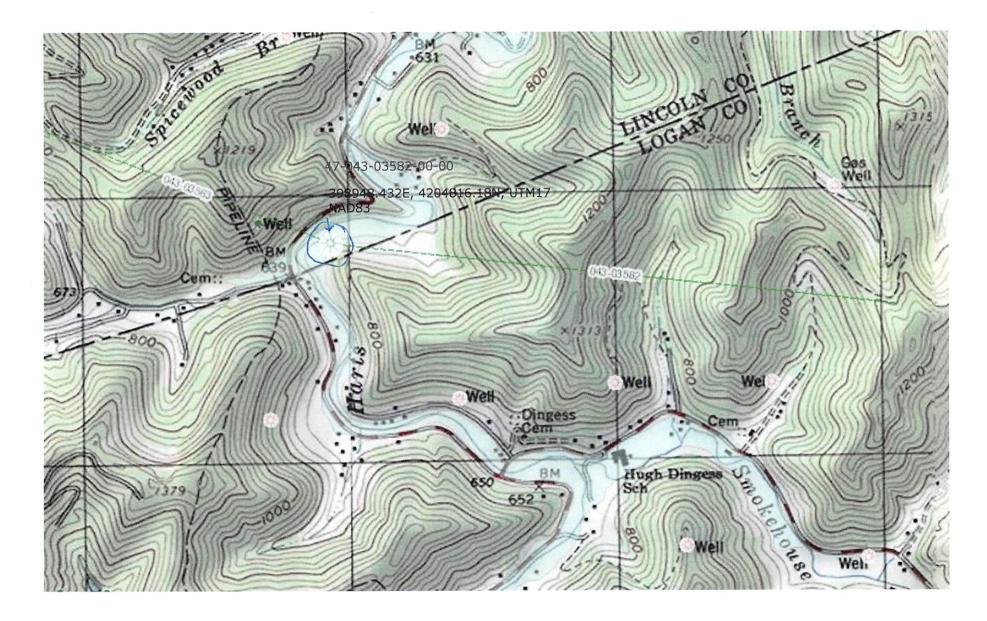






RDAD PROFILE			
CORE APPALACHIA OPERATING, LLC PROPOSED WELL # 828040			
HARTS CREEK DISTRICT, LINCOLN COUNTY TRACE QUAD, WV 7.5'			
JUNE 04, 2018			
TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705			
PAGE DF			

IN



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7/16/2018

